

APPENDIX 7.1 GROUND INVESTIGATION & GEOTECHNICAL REPORT

IGSL Ltd

Mount Avenue, Dundalk

**Ground Investigation &
Geotechnical Report**

IGSL Ltd

Project No. 25758

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**M7 Business Park
Naas
Co. Kildare
Ireland**

**T: +353 (45) 846176
E: info@igsl.ie
W: www.igsl.ie**

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DBFL Consulting Engineers	PDF by email	0	4.6.2025	S.Hannon BSc MSc CGeol FGS	P. Quigley BEng CEng MIEI MICE FGS

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FOREWORD

The following conditions and notes on the geotechnical site investigation procedures should be read in conjunction with this report.

Standards

The ground investigation works for this project (**Mount Avenue, Dundalk**) have been carried out by IGSL in accordance with Eurocode 7 - Part 2: Ground Investigation & Testing (EN 1997-2:2007). This has been used together with complementary documents such as Engineers Ireland Specification for Ground Investigation (2nd Ed, 2016), BS 5930 (2015+A1:2020) and BS 1377 (Parts 1 to 9) and the following European Norms:

- EN 1997-2 Eurocode 7: 2007 – Geotechnical Design – Part 2: Ground Investigation & Testing
- EN ISO 22475-1:2006 Geotechnical Investigation and Sampling – Sampling Methods & Groundwater Measurements
- EN ISO 14688-1:2017 Geotechnical Investigation and Testing – Identification and Classification of Soil, Part 1: Identification and Description
- EN ISO 14688-2:2017 Geotechnical Investigation and Testing – Identification and Classification of Soil, Part 2: Principles for a classification
- EN ISO 14689-1:2017 Geotechnical Investigation and Testing – Identification, description & classification of rock

The Eurocode 7, Part 2 – Ground Investigation and Testing GI specification shall be read in conjunction with the Specification and Related Documents for Ground Investigation in Ireland, 2nd Edition, published by Engineers Ireland in 2016.

Reporting

No responsibility can be held by IGSL Ltd for ground conditions between exploratory hole locations. The engineering logs provide ground profiles and configuration of strata relevant to the investigation depths achieved and caution should be taken when extrapolating between exploratory points. No liability is accepted for ground conditions extraneous to the investigation points. Unless specifically stated, no account has been taken of possible subsidence due to mineral extraction, mining works or karstification below or close to the site.

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Boring Procedures

Where required, 'shell and auger' or cable percussive boring technique is employed as defined by Section 6.3 of IS EN ISO 22475-1:2006. The boring operations, sampling and in-situ testing meet with the recommendations set out in IS EN 1997-2:2007 and BS 1377:1990 and EN ISO 22476-3:2005. The shell and auger boring technique allows for continuous sampling in clay and silt above the water table and sand and gravel below the water table (Table 2 of IS EN ISO 22475-1:2006).

It is highlighted that some disturbance and variation is unavoidable in particular ground (e.g. blowing sands, gravel / cobble dominant glacial deposits etc). Attention is drawn to this condition, whenever it is suspected. Where cobbles and boulders are recorded, no conclusion should be drawn concerning the size, presence, lithological nature, or numbers per unit volume of ground.

In-Situ Testing

Where required, Standard Penetration Tests (SPT's) are conducted strictly in accordance with Section 4.6 of IS EN 1997-2:2007. The SPT equipment (hammer energy test) has been calibrated in accordance with EN ISO 22476-3:2005 and the Energy Ratio (E_r). A calibration certificate is

available upon request. The E_r is defined as the ratio of the actual energy E_{meas} (measured energy during calibration) delivered to the drive weight assembly into the drive rod below the anvil, to the theoretical energy (E_{theor}) as calculated from the drive weight assembly. The measured number of blows (N) reported on the engineering logs are uncorrected. In sands, the energy losses due to rod length and the effect of the overburden pressure should be taken into account (see IS EN ISO 22476-3:2005).

Soil Sampling

Three categories of sampling methods are outlined in EN ISO 22475-1:2006. The categories are referenced A, B and C for any given ground conditions and are shown in Tables 1 and 2 of EN ISO 22475-1:2006. Reference should be made to EN 1997-2:2002 for guidelines on sample class and quality for strength and compressibility testing. Samples of quality classes 1 or 2 can only be obtained by using Category A sampling methods.

Class 1 thin wall undisturbed tube samples (UT100) were obtained in fine grained soils and strictly meet the requirements of EN 1997-2:2002 and EN ISO 22475-1:2006. Soil samples for laboratory tests are divided into five classes with respect to the soil properties that are assumed to remain unchanged during sampling, handling transport and storage. The minimum sample quality required for testing purposes to Eurocode 7 compatibility (EN 1997-2:2002) is shown in Table A.

Table A – Details of Sample Quality Requirements

EN 1997 Clause	Test	Minimum Sample Quality Class
5.5.3	Water Content	3
5.5.4	Bulk Density	2
5.5.5	Particle Density	N/S
5.5.6	Particle Size Analysis	N/S
5.5.7	Consistency Limits	4
5.5.8	Density Index	N/S
5.5.9	Soil Dispersivity	N/S
5.5.10	Frost Susceptibility	N/S
5.6.2	Organic Content	4
5.6.3	Carbonate Content	3
5.6.4	Sulphate Content	3
5.6.5	pH	3
5.6.6	Chloride Content	3
5.7	Strength Index	1
5.8	Strength Tests	1
5.9	Compressibility Tests	1
5.10	Compaction Tests	N/S
5.11	Permeability	2

N/S – not stated. Presume a representative sample of appropriate size.

Samples recovered from trial pits or trenches meet the requirements of IS EN ISO 22475-1. It is highlighted that unforeseen circumstances such as variations in geological strata may lead to lower quality sample classes being obtained.

Groundwater

The depth of entry of any influx of groundwater is recorded during the course of boring operations. However, the normal rate of boring does not usually permit the recording of an equilibrium level for any one water strike. Where possible, drilling is suspended for a period of twenty minutes to monitor the subsequent rise in water level. Groundwater conditions observed in the borings or pits are those appertaining to the period of investigation. It should be noted however, that groundwater levels are

subject to diurnal, seasonal and climatic variations and can also be affected by drainage conditions, tidal variations etc.

Engineering Logging

Soil and rock identification has been based on the examination of the samples recovered and conforms with IS EN ISO 14688-1:2017 and IS EN ISO 14688-2:2017. Rock weathering classification conforms to IS EN ISO 14689-1:2017 along with discontinuities (bedding planes, joints, cleavages, faults etc) as classified in Section 6.4 of IS EN ISO 14689-1:2017 and Annex C of same. Rock mechanical indices (TCR, SCR, RQD) are defined in accordance with IS EN ISO 22475-1:2006.

Where peat has been encountered, samples have been logged in accordance with the Von Post Classification (ref. Von Post, L. 1992. Sveriges Gologiska Undersoknings torvinventering och nogra av dess hittils vunna resultat (SGU peat inventory and some preliminary results) Svenska Mosskulturforeningens Tidskrift, Jonkoping, Swedden, 36, 1-37 and Hobbs N. B. Mire morphology and the properties of some British and foreign peats. QJEG, Vol. 19, 1986.

Retention of Samples

After satisfactory completion of all the scheduled laboratory tests on any sample, the remaining material will be discarded. Unless a period of retention of samples is agreed, it is our normal practice to discard all soil samples one month after submission of our final report.

1. INTRODUCTION

IGSL Ltd has undertaken a ground investigation for a proposed housing development at a site in Mount Avenue, Dundalk, Co. Louth. The site area is approximately 95 acres (refer to Figure 1) and is bound to the east by the Mount Avenue, to the north by Castletown Road and to the west and south by greenfield sites/agricultural land. The site surface is grass over topsoil in the southern portion of the site area and exposed clay in the northern portion as the field had been recently harvested.

The investigatory works were undertaken to establish the ground and groundwater conditions at the site for the construction of residential units, multistorey apartment buildings and accompanying infrastructure. The exploratory locations were set out according to the site investigation plan supplied by the consulting engineers DBFL.

Figure 1 - Site Location Plan



Figure 1 reproduced from Google Earth Professional (image date 08/2022)

The investigations comprised machine-dug trial pits, cable percussion boreholes, rotary coreholes, dynamic probes, soakaway tests (to BRE365) and plate load tests. The investigations were executed in accordance with BS 5930, Code of Practice for Site Investigations (2015+A1:2020) and EN 1997-2 Eurocode 7 Part 2 Ground Investigation & Testing and supervised by an IGSL geotechnical engineer.

Geotechnical, chemical and environmental laboratory testing was scheduled on a range of soil samples. The geotechnical testing included moisture contents, Atterberg Limits, Particle Size Distribution (PSD) gradings and Oedometer Consolidation. Earthworks and Stabilization Testing included MCV, CBR, Compaction and Frost Heave. Chemical testing was undertaken to BRE SD-1 on the soil samples. Environmental tests were undertaken on soil samples (WAC *Rilta* suite) to assess suitability for off-site disposal and a separate Waste Characterization Assessment report was undertaken by O'Callaghan Moran and Associates and is contained in Appendix 11.

The 'as-built' co-ordinates and ground levels are shown on the exploratory hole logs. The exploratory hole locations are plotted on the site plan in Appendix 10. In addition to the field and laboratory test records, this report presents an interpretation and evaluation of the ground and groundwater conditions and an assessment of the key geotechnical issues impacting on the proposed development.

2. FIELDWORK

2.1 General

The fieldworks were undertaken during December 2024 and January 2025 and comprised the following:

- Trial Pits (86 No.)
- Cable Percussion Boreholes (12 No.)
- Rotary Coreholes (5 No.)
- Dynamic Probes (86 No.)
- Soakway Test (8 No.)
- Plate Load Tests (57 No.)
- Surveying of Exploratory Hole Locations

2.2 Trial Pits

Trial pitting was performed at eighty-six locations across the site with pits generally extending to depths of 3.0m. Refusal was encountered at some locations on presumed greywacke rockhead or cobbles and boulders as shallow as 0.70m (e.g. TP39). The trial pits were excavated, logged and sampled under the direction of an IGSL engineering geologist in accordance with BS 5930 (2015+A1:2020). Bulk disturbed samples (typically 20 to 30kg) were taken as the pits progressed. Environmental samples were also taken in the upper strata.

The bulk samples were placed in heavy-duty polyethylene bags. The trial pits were backfilled with the as-dug arisings and reinstated to the satisfaction of IGSL's site geotechnical engineer. The trial pit logs and photos are presented in Appendix 1 and include descriptions of the soils encountered, groundwater conditions and stability of the pit sidewalls.

2.3 Cable Percussion Boreholes

Cable percussive boring (200mm diameter) was undertaken at twelve locations using a Dando 2000 rig. The boreholes extended to depths of between 1.50 and 4.70m. Throughout boring, disturbed bulk samples were recovered at 1.0m intervals or change of strata during boring and these are denoted 'B' on the engineering logs. As with trial pits, environmental samples were also taken in the upper strata. These are recorded 'Env' on the logs.

Standard Penetration Tests (SPT's) were performed in the boreholes and given the nature of the soils, a solid cone was used. It is noted that the SPT N-Values reported are the number of blows for 300mm increment penetration (e.g. BH01 at 1.0m where N=33). These exclude the seating blow values, which represent the initial 150mm depth of penetration. Where partial penetration was achieved during testing, the number of blows is shown for the actual penetration depth achieved (e.g. BH01 at 2.8m where N=50/75mm). In accordance with Eurocode 7, the SPT hammer has been calibrated and the energy ratio (Er) value is incorporated on the engineering logs. It is highlighted that the SPT N-Values reported on the engineering logs are uncorrected for energy ratio.

Standpipes were installed in five boreholes (BH05, BH08, BH10, BH11 and BH13) and incorporated 50mm diameter proprietary pipe, pea gravel pack and bentonite seal. Descriptions of the soils encountered, in-situ tests undertaken and samples recovered are presented on the borehole records in Appendix 2. Details of groundwater strikes and hard strata boring (i.e. chiselling) are also presented on the aforementioned records.

2.4 Rotary Core Drillholes

Rotary core drilling was carried out at five locations (holes denoted RC_) using a GEO 405 tracked rig. Symmetrex drilling was utilized within the soil deposits with coring techniques used in the underlying bedrock. The rotary drilling in bedrock produced 78mm diameter cores.

The cores were placed in 3m capacity timber boxes and logged by an IGSL engineering geologist. This included photography of the cores with a digital camera. Where rock core is recovered, a graphic fracture log is also presented alongside the mechanical indices. This illustrates the fracture state of the rock cores and allows easy identification of highly fractured / non-intact zones and discontinuity spacings. It should be noted that no correction for dip of the joints has been made and that the spacings shown are successive joint / core intersections within the core.

The core log records are presented in Appendix 3 and this includes engineering geological descriptions, details of the bedding / discontinuities and mechanical indices (TCR, SCR and RQD's) for each core run. Core photographs are also presented in Appendix 3 and these illustrate the structure and fracture state of the bedrock.

2.5 Dynamic Probing

In-situ "Heavy" dynamic probing (DPH) was performed at eighty-six locations using a Dando Terrier crawler rig. The tracked probing unit meets the requirements of BS 1377, Part 9 (1990) and IS EN 1997-2:2007. The probing rig utilized a 50kg drop weight and 500mm drop height with a 60° cone. In accordance with the standards, the number of blows required to drive the cone each 100mm increment into the sub-soil was recorded. Probing is generally terminated when blow counts, N_{100} values, exceed 25, in order to avoid damage to equipment. The probe records are presented in Appendix 4 and include blow-counts in both numerical and graphical format.

2.6 Soakaway Tests (to BRE 365)

Eight infiltration tests were performed to assess the suitability of the sub-soils for dispersion of storm water through a soakaway system. The infiltration tests were performed in accordance with BRE Digest 365 'Soakaway Design'. To obtain a measure of the infiltration rate of the sub-soils, water was poured into the test pits, with records taken of the fall in water level against time. The pits were first soaked to ensure saturation of the subsoils prior to undertaking the tests. The infiltration rate is the volume of water dispersed per unit of exposed area per unit of time, and is generally expressed as metres / minute or metres / second. Designs are based on the slowest infiltration rate, which is generally calculated from the final soak cycle. The soakaway records are presented in Appendix 5.

2.7 Plate Load Testing

Plate load tests were carried out at fifty-seven locations at depths ranging from 0.40m to 0.60m below ground level (bgl). The plate testing was undertaken to evaluate the modulus of sub-grade reaction (K_s) and equivalent CBR value. A 450mm diameter plate was used for the tests with kentledge provided by a mechanical excavator. Two load cycle tests were performed and the load / settlement plots, K_s and equivalent CBR values are presented in Appendix 6. The description of soil under the plate is displayed on the plots in Appendix 6.

2.8 Surveying of Exploratory Hole Locations

Following completion of the exploratory works, surveying was carried out using GPS techniques. Co-ordinates (x, y) were measured to Irish Transverse Mercator and ground levels (z) established to Malin Head. The co-ordinates and ground levels are shown on the exploratory hole logs with locations shown on the exploratory hole plan in Appendix 10.

3. LABORATORY TESTING

Geotechnical laboratory testing was performed at IGSL's INAB-accredited laboratory in accordance with the methods set out in BS1377; British Standard Methods of Test for Soils for Civil Engineering Purposes; British Standards Institute:1990.

The geotechnical testing included moisture content, Atterberg Limits, Particle Size Distribution (PSD) grading, Organic Content, Oedometer Consolidation, Triaxial Compression and Bulk Density. Earthworks and stabilization trial testing was undertaken and included MCV, CBR, Compaction and Frost Heave. The geotechnical test records are presented in Appendix 7.

Point load strength index tests were carried out on rock core specimens and the results are enclosed in Appendix 8.

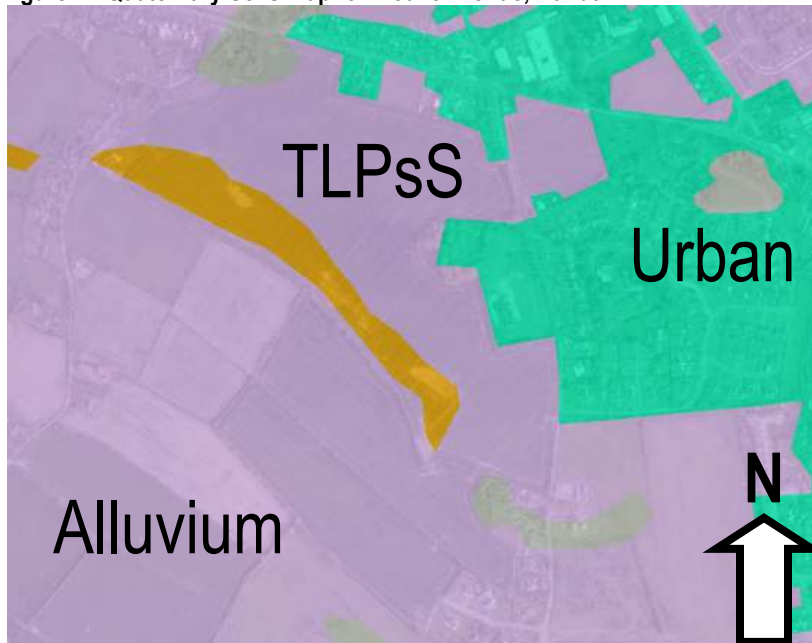
Both chemical (BRE SD1 Suite D) and geo-environmental testing (*Rilta* Suite) was undertaken on soils. The chemical and environmental results are presented in Appendix 9.

4. DESK STUDY

4.1 GSI Database Information

The Quaternary soils map for the area (Figure 2- retrieved from GSI website) indicates the presence of Till derived from Palaeozoic Sandstones and Shales covering most of the site area with a linear deposit of Alluvium running northwest to southeast across the middle of the site area. Urban cover is present in much of the surrounding area.

Figure 2 - Quaternary Soils map for Mount Avenue, Dundalk.



Map Key: TLPsS - Till derived from Lower Palaeozoic Sandstones and Shales.

Reference to the GSI map for the area (Figure 3, extract from 1:100,000 Solid Geology series) shows that the site is underlain by the Clontail Formation described as calcareous red-mica greywacke.

Figure 3 - Bedrock Geology map for Mount Avenue, Dundalk



Map Key: CL - Clontail Formation

5. GROUND CONDITIONS & GROUNDWATER

5.1 Ground Profile – Superficial Deposits

The exploratory investigations across the ca. 95 acre site are discussed in three areas or zones. The works at the northern portion of the largest field comprise 'Area 1' (the northernmost field is the largest field). The works in the southern portion of the largest field 'Area 2'. Finally, the two southernmost fields are termed 'Area 3'. See Figure 4 below.

Figure 4 - Site Areas (1, 2 & 3)



The completed exploratory hole locations sited in each area are summarized below in Table 1.

Table 1 - Exploratory hole locations in Areas 1, 2 & 3

Exploratory Hole Locations	Area 1 (North)	Area 2 (Central)	Area 3 (South)
Trial Pits	TP54-TP86	TP36-TP53	TP01-TP35
Soakaway Tests	IT06, IT07, IT08	IT03	IT01, IT02, IT05, IT05
Plate Bearing Tests	CBR30-CBR57	CBR07-CBR10, CBR19, CBR20 CBR28, CBR29	CBR01-CBR06, CBR11-CBR18, CBR21-CBR27
Cable Percussion Boreholes	BH09, BH12, BH14, BH15, BH16	BH03, BH04, BH07, BH08	BH01, BH02, BH06
Rotary Drillholes	RC10, RC11, RC13	RC03	RC05

The following is a summary of the ground conditions encountered in each site area or zone:

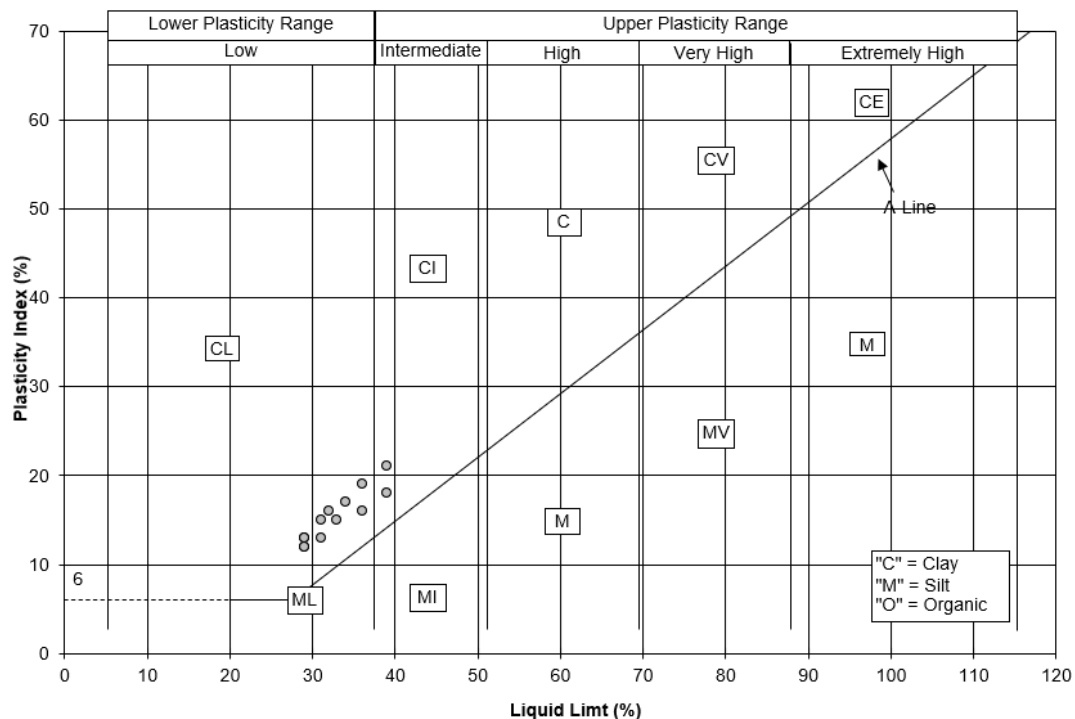
Area 1 (North)

Glacial Deposits

As mentioned in Section 1 the site surface was devoid of Topsoil. The indigenous or native soils are dominated by slightly sandy gravelly CLAY and SAND / GRAVEL with SILT layers also present through the area. The gravels, cobbles and boulders are mainly derived from siltstone and sandstone and typically subrounded to subangular. Images of the soil types encountered in the trial pits are shown in Figure 8. The trial pits terminated at depths between 1.40 to 3.0m while the cable percussive boreholes terminated at depths of 1.40 to 4.70m.

A series of index or classification tests were carried out on selected samples and the results are presented in Appendix 8. The tests established moisture contents mostly in the 10% to 24% envelope while the Atterberg Limits shows the clays are dominated by low plasticity CLAY (CL) to borderline intermediate plasticity CLAY (CI) as illustrated by the Casagrande Chart (Figure 5). The particle size distributions (PSD's) demonstrate that the glacial soils are typically well graded with 'straight line' type profiles (BH16 1.0m), excluding some granular soils which are sand and gravel dominant (e.g. BH09, 3.0m).

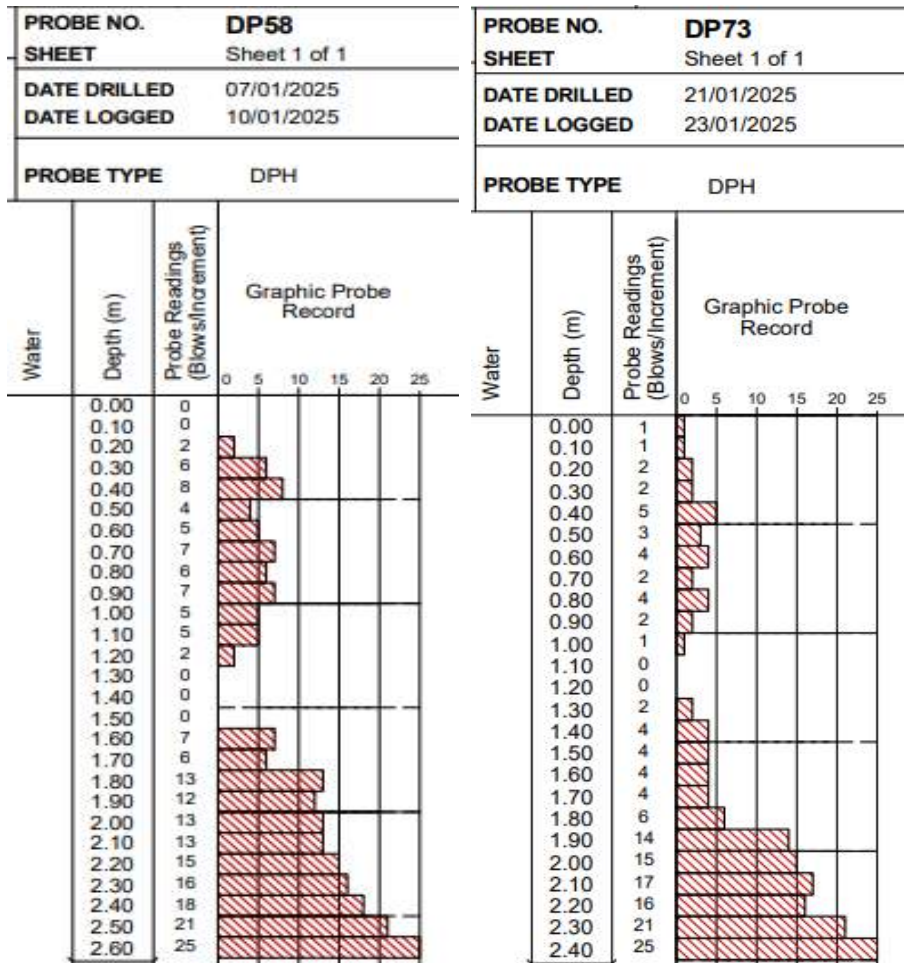
Figure 5 - Casagrande Chart for Site Soils (Area 1 – 3)



Dynamic probing (DPH) was conducted to provide an assessment of shear strength and the probes were positioned across the site to give spatial coverage. The McGrath relationship (i.e. $C_u \approx 15 \times N_{100} + 30 \text{ kPa}$) is widely used in Ireland to assess the undrained shear strength of fine-grained glacial soils. Inspection of the probe records (refer to appendix 4) shows varied stiffness characteristics from ground level to termination depth with N_{100} values ranging from 0 to 25. The probes extended to depths of between 1.10 and 3.60m. The probes generally reported firm to stiff fine soils or medium dense granular material in the upper 1.0m. By 2.0m the probes had generally encountered refusal or reported N_{100} values of at least 7 excluding DP61, DP63, DP66, DP77, DP80 which reported N_{100} values of 4, 5, 4, 2 and 4 respectively.

The dynamic probes reported some upper soils are soft in consistency with some of the probes (e.g. DP58, DP73 and DP80) recording N_{100} values of 0 (i.e. falling under self-weight) or 1 to depths of up to 1.50m (Figure 5).

Figure 6 - Example of Low Strength Upper Soils In Dynamic Probes at Area 1



Standard Penetration Tests (SPT) were undertaken during cable percussion boring to assess strength or stiffness. An SPT N-Value v Depth data plot is presented in Figure 7. As can be seen, the soils from ground level to 1m are low strength (undrained shear strengths of 20 to 40 kPa) with some SPT N-Values <6. By 2.0m depth, N-Values increase substantially (>26) and suggest very high strength deposits (undrained shear strengths of 75 to 150 kPa as defined in Table 6 in EN 14688-2:2018). The SPT N-Values in the rotary coreholes from approximately 1.5m onwards also demonstrate high strength deposits with N-Values of at least 16. The exceptions are BH09 which reports an N-Value of 4 at 2.0m, and RC11 which reports N-Values of 10 and 6 at 1.50 and 3.0m respectively (undrained shear strengths of 30 - 50 kPa).

Figure 7 - SPT N-Value versus Depth Plot for Area 1

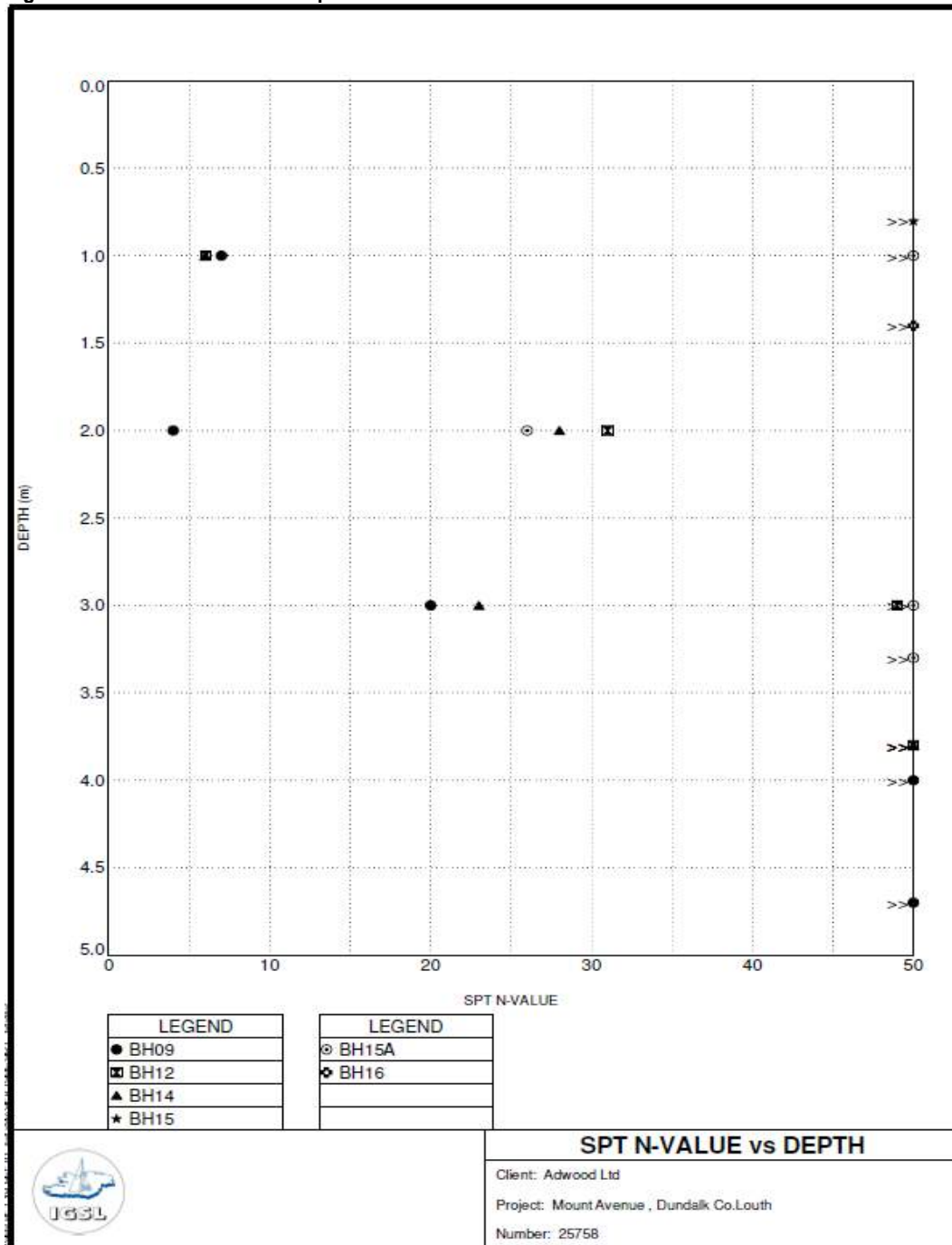
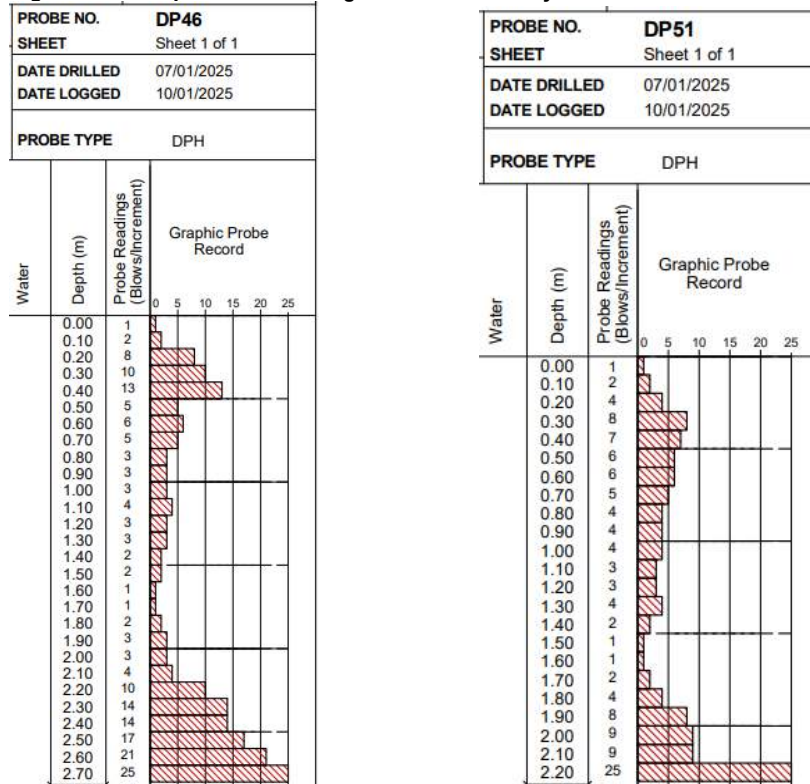


Figure 8 - Typical Soil profile and spoil in Area 1 (TP61)**Area 2 (Central)****Glacial Deposits**

The indigenous or native soils in Area 2 are dominated by slightly sandy gravelly CLAY, SAND / GRAVEL. Some SILT layers were also intercepted at this area. The gravels, cobbles and boulders are mainly siltstone and sandstone in origin and typically subrounded to subangular. Images of the soil types encountered in the trial pits are shown in Figure 11.

Index or classification tests were carried out on the trial pit and borehole samples from Area 2 and the results are presented in Appendix 8. The tests established moisture contents largely in the 10% to 29% envelope while the Atterberg Limits shows the clays are dominated by low plasticity CLAY (CL) to borderline intermediate plasticity CLAY (CI) as illustrated by the Casagrande Chart (Figure 4). The particle size distributions (PSD's) show the glacial soils are mainly well graded with 'straight line' type profiles (BH03, 2.0m), excluding some GRAVEL soils which are sand and gravel dominant (BH08, 2.0m) (refer to Appendix 7).

Inspection of the probe records (refer to appendix 4) shows varied stiffness characteristics from ground level to termination depth with N_{100} values ranging from 0 to 25. The probes extended to depths of between 1.00 and 2.80m and the generally found firm to stiff fine grained soils or medium dense granular soils in the upper 1.0m. Probe values of at least 4 excluding DP38, DP42, DP46 and DP51 were obtained while beyond 2.0m, refusal was reported with N_{100} values of at least 7 excluding DP41, DP46, DP47, and DP49 which reported N_{100} values of 4, 3, 5, and 5 respectively.

Figure 9 - Example of Low Strength / Soft Soils in Dynamic Probes in Area 2

An SPT N-Value v Depth data plot for Area 2 is presented in Figure 10. The soils from ground level to 1m range from medium strength (undrained shear strengths of 50 kPa) to high strength (110 kPa) with SPT N-Values ranging from 10 – 22. By 2.0m N-Values increase substantially (>25) and suggest high strength deposits (undrained shear strength of at least 125kPa).

One oedometer consolidation test was performed to assess the compressibility characteristics of the Glacial till. This was conducted on an undisturbed sample (U100) in accordance with EN ISO 17892-5:2017 and summary findings are presented in Table 2. Inspection of the results (test records contained in Appendix 7) shows a moisture content of 14.0% with a dry density of 1.99 Mg/m³. The modulus of volume compressibility (M_v) values for the 50 to 100 kPa applied pressure range gave M_v coefficients of 0.243 m²/MN. The test results suggest the alluvial material can be classed as medium compressibility in accordance with Table 2.11 in Tomlinson 6th Ed.

Table 2 - Oedometer Test Summary

Sample Location	Sample Depth (m)	Moisture Content (%)	Dry Density (Mg/m ³)	M _v (m ² /MN) (50-100 kPa Pressure Range)	C _v (m ² /yr)	Voids Ratio
BH04	2.00	14.0	1.99	0.243	5.352	0.257

Figure 10 - SPT N-Value versus Depth Plot for Area 2

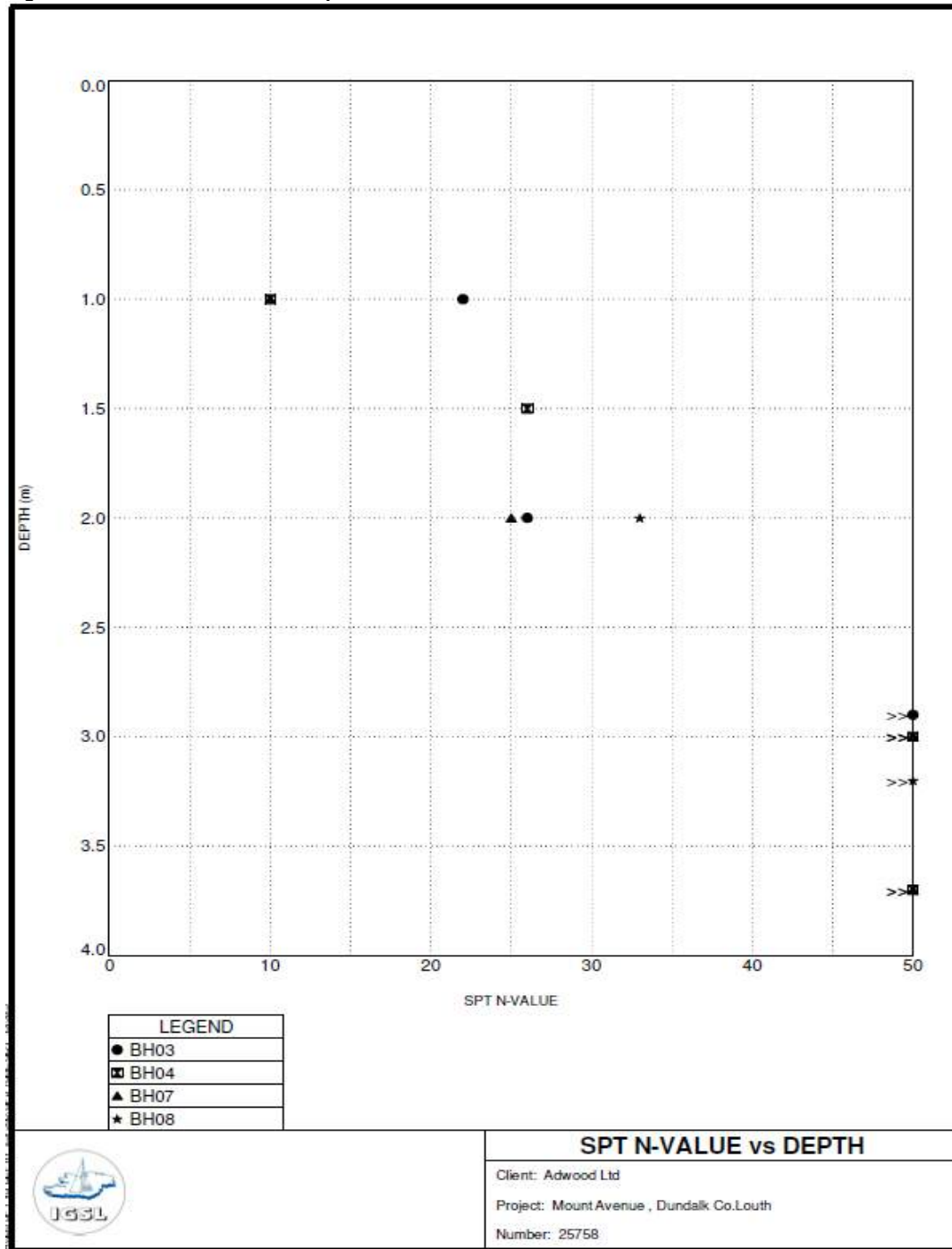


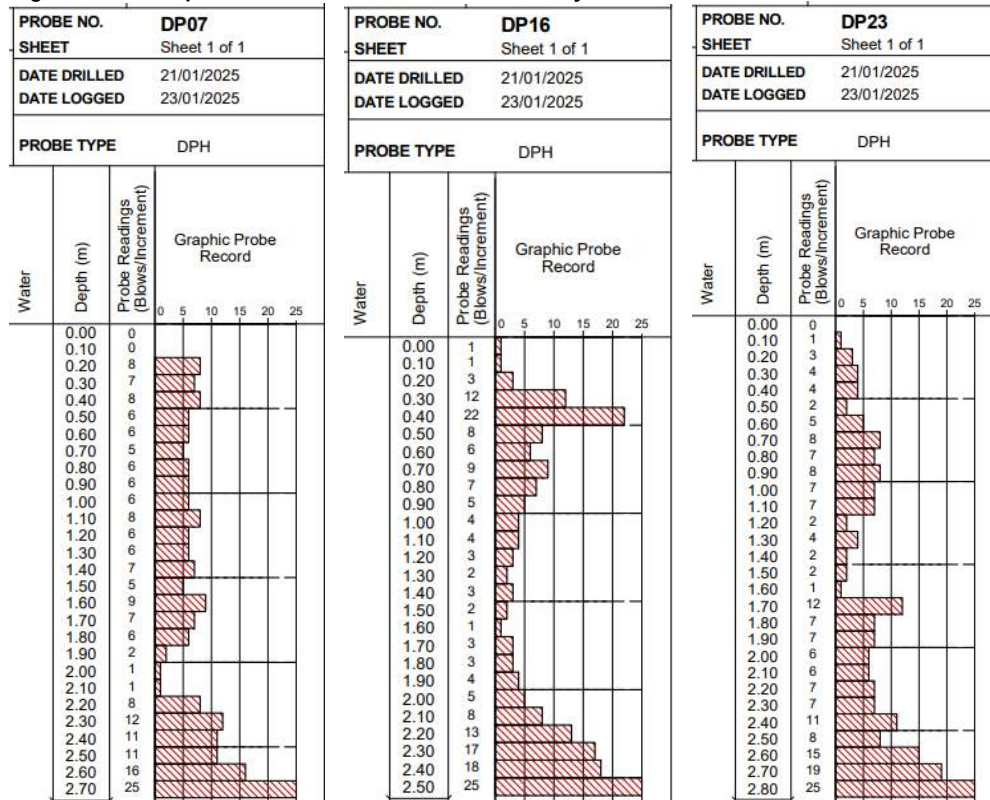
Figure 11 - Typical Soil profile and spoil in Area 2 (TP47)**Area 3 (Southern)****Glacial Deposits**

The indigenous or native soils at Area 3 comprise slightly clayey sandy GRAVEL, gravelly CLAY with SAND and SILT layers occasionally intercepted. As with Areas 1 and 2, the gravel, cobble and boulder size clasts are mainly siltstone and sandstone and typically subrounded to subangular. Images of the soil types encountered in the trial pits are shown in Figure 14. The trial pits terminated at depths between 1.30 and 3.0m, cable percussive boreholes terminated at depths between 1.50 to 2.80m while the rotary corehole extended to 5.50m.

The index tests on the samples from Area 3 determined moisture contents of 12% to 21% while the Atterberg Limits shows the fine soils are dominated by low plasticity CLAY (CL) to borderline intermediate plasticity CLAY (CI) as illustrated by the Casagrande Chart (Figure 4). The particle size distributions (PSD's) demonstrate that the glacial soils are typically poorly graded with GRAVEL dominant 'concave' type profiles (BH02, 1.0m) excluding TP03 which is a well graded 'straight line' type profile (refer to Appendix 7).

Inspection of the probe records (refer to appendix 4) shows varied stiffness characteristics from ground level to termination depth with N_{100} values ranging from 0 to 25. The probes generally reported firm to stiff fine soils or medium dense granular soils in the upper portion. Probe values of at least 5 were recorded by 1.0m excluding DP09, DP16, DP17, DP18, DP20, DP22, DP30 and DP35. By 2.0m the probes had generally encountered refusal or reported N_{100} values of at least 6 excluding DP07, DP16 and DP33 which reported N_{100} values of 1, 5 and 4.

Figure 12 - Example of Loose / Soft Soils at c2.0m in Dynamic Probes in Area 3



Standard Penetration Tests (SPT) were undertaken during cable percussion boring to assess strength or stiffness and an SPT N-Value v Depth data plot is presented in Figure 13.

As can be seen from the data plot, the soils from ground level to termination depth are reported as very stiff / dense. SPT N-Values of at least 22 are reported from 1.0m to termination depth in BH01, BH02, RC05 and BH06 which suggest high strength deposits (undrained shear strength of at least 110kPa) / dense deposits.

Figure 13 - SPT N-Value versus Depth Plot for Area 3

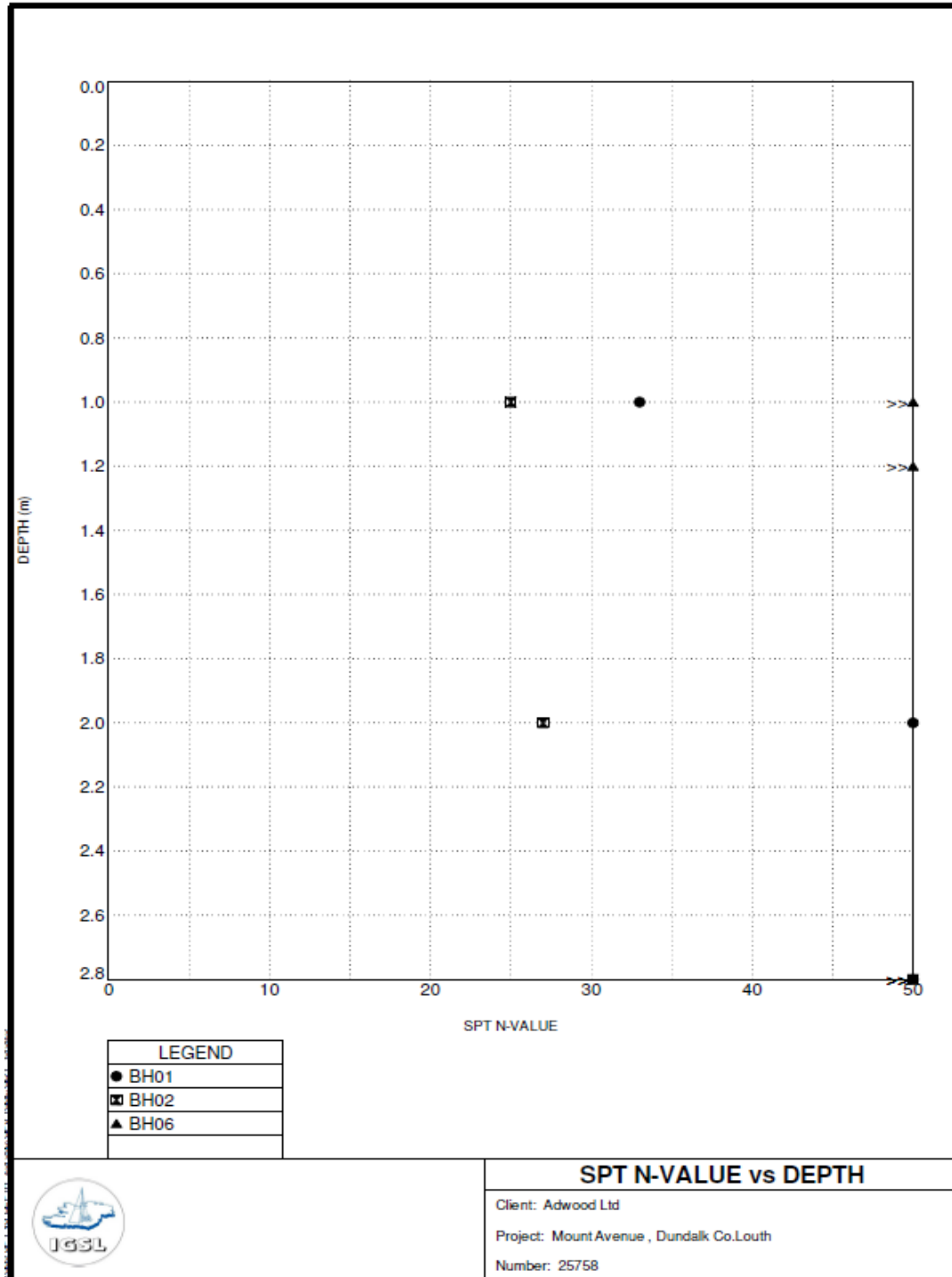


Figure 14 - Typical Soil profile and spoil in Area 3 (TP08)

5.2 Bedrock

As referenced previously, the GSI bedrock map for the area (**Error! Reference source not found.**, 1:100,000 Solid Geology series) shows the Clontarf Formation (CF) underlies the site. This consists of calcareous red-mica greywacke

The rotary drillholes established bedrock to consist of moderately weak to very strong, thickly to thinly bedded, light to dark greenish grey, fine-grained SANDSTONE (with occasional thin mudstone layers) fresh to locally moderately weathered (at mudstone layers). Discontinuities are widely to closely spaced, smooth to very locally rough, fractures are planar. Apertures are tight to moderately open, locally clay smeared.

Bedrock or 'rockhead' was proven at depths of 2.50m (30.24m OD) in RC05 to 8.00m bgl (23.17m OD) in RC11. The elevation, depth to bedrock and termination depth in the rotary coreholes is presented in Table 3 below.

Table 3 - Rotary Corehole Summary

Area	Label	Elevation m OD	Bedrock/Start Coring		Termination Depth	
			m bgl	m OD	m bgl	m OD
1	RC10	30.89	5.30	25.59	8.30	22.29
1	RC11	31.17	8.00	23.17	11.00	20.17
1	RC13	27.65	5.80	21.85	10.20	17.45
2	RC05	32.74	2.50	30.24	5.50	27.24
3	RC03	28.00	6.00	22.00	9.00	19.00

Area 1 (North)

The point load strength index (PLSI) testing produced $I_s(50)$ values ranging from 0.8 to 5.4 MPa with a mean value of approximately 3.2 MPa. Using a correlation factor (K) of 20 to assess compressive strength, this suggests a characteristic strength envelope in the order of 16 to 108 MPa and categorizes the bedrock as varying from moderately weak (12.5 to 25 MPa) to very strong (100 to 250MPa).

Figure 15 - RC11 – Box 1 of 1 – 8.00-11.00m**Area 2**

The point load strength index (PLSI) tests for Area 2 produced $I_s(50)$ values ranging from 1.2 to 4.8 MPa with a mean value of approximately 3.2 MPa. Using a correlation factor (K) of 20 to assess compressive strength, this suggests a characteristic strength envelope in the order of 24 to 96 MPa and categorizes the bedrock as varying from the upper limit of Moderately weak (12.5 to 25 MPa) to strong (50 to 100MPa).

Figure 16 - RC03 – Box 1 of 2 – 2.80-3.80/ 7.00-8.00m**Area 3 (South)**

The point load strength index (PLSI) test data for Area 3 determined $I_s(50)$ values ranging from 2.2 to 5.2 MPa with a mean value of approximately 4.02 MPa. Using a correlation factor (K) of 20 to assess compressive strength, this suggests a characteristic strength envelope in the order of 44 to 104 MPa and categorizes the bedrock as varying from the upper limit of medium strong (25 to 50 MPa) to very strong (100 to 250MPa).

Figure 17 - RC05 – Box 1 of 1 – 2.50-5.50m

5.3 Groundwater

Groundwater strikes were reported in several exploratory hole locations at various depths across the site. Summary details of groundwater strike depths and rates of flow at each location are presented below in Table 4. It should be noted that the potential does exist for there to be seasonal changes in groundwater level.

Table 4 - Groundwater strike summary

Area	Location	Groundwater Depth (m)	Rate of Flow
1	TP77	2.20	Rapid
1	TP79	2.30	Rapid
1	TP80	2.50	Rapid
1	TP83	2.30	Rapid
1	TP84	3.00	Slow
1	TP85	2.00	Moderate
1	BH09	2.70	Slow
1	BH14	3.40	Moderate
1	RC10	4.00	Moderate
1	RC11	4.90	Moderate
1	RC13	5.70	Slow
2	TP37	2.40	Rapid
2	TP38	2.00	Moderate
2	TP42	3.00	Seepage
2	TP44	1.00	Moderate
2	TP45	2.40	Moderate
2	TP46	1.40	Rapid
2	TP47	2.80	Slow
2	TP50	1.80	Moderate
2	TP52	2.80	Moderate
2	BH03	2.50	Slow
2	BH04	2.70	Slow
2	BH08	2.00	Moderate
2	RC03	7.40	Moderate
3	TP01	2.80	Rapid
3	TP02	1.80	Rapid
3	TP04	0.60	Rapid
3	TP08	1.90	Slow
3	TP09	0.50	Rapid
3	TP11	2.50	Seepage
3	TP12	1.40	Rapid
3	TP13	1.30	Rapid
3	TP19	2.60	Seepage
3	TP21	2.30	Seepage
3	TP24	1.80	Rapid
3	TP25	2.70	Slow
3	TP32	2.50	Seepage
3	TP36	2.80	Moderate
3	RC05	4.70	Moderate

Standpipes with dataloggers were installed in five boreholes (BH05, BH08, BH10, BH11 and BH13) and four return visits (to date) have been undertaken to measure water levels. The groundwater monitoring records are presented in Appendix 2 with the borehole logs.

6. GROUND ASSESSMENT & ENGINEERING RECOMMENDATIONS

6.1 General

In light of the ground investigation findings, the following geotechnical issues are developed and discussed for engineering design:

- Foundation Solutions
- Earthworks and Ground Improvement
- Ground Bearing Slabs
- Groundwater / Infiltration
- Slope / Batters
- Pavement Construction
- Buried Concrete

6.2 Bearing Capacity & Foundations

Foundation Solutions – Area 1 (North)

As discussed in Section 5, inspection of the probe records in Area 1 (refer to appendix 4) shows varied stiffness characteristics from ground level to termination depths with N_{100} values ranging from 0 to 25. The probes generally reported firm to stiff or medium dense upper soils (to c1m). By 1.0m the probe encountered N_{100} values of at least 3 excluding DP54, DP58, DP67, DP73, DP75 and DP80. The dynamic probes found areas of low strength upper soils (soft in consistency) with some of the probes (e.g. DP58, DP73 and DP80) recording N_{100} values of 1 or less (i.e. falling under self-weight) to depths of up to 1.50m (Figure 5). As can be seen SPT N-Value v Depth data plot presented in Figure 7 some soils from ground level to 1m are low strength (undrained shear strengths 35 kPa) with some of the SPT N-Values as low as 6.

Strip footing or pad foundations could be selected and placed on firm fine grained soils clay soils, largely at depths of c1.0m. The firm fine grained soils should provide a safe bearing capacity of 125kPa. At bearing pressures of this magnitude settlement (immediate elastic and long-term consolidation) would be expected to be <20mm. It is imperative that foundations are not placed on MADE GROUND soils or on low strength / soft compressible soils such as those identified in DP54, DP58, DP67, DP73, DP75, DP80, BH09, BH12 and BH14. Where any such soils occur, these should be removed and replaced with low grade C20 lean-mix concrete.

Foundation Solutions – Area 2 (Central)

The dynamic probes established varied stiffness characteristics from ground level to termination depths with N_{100} values ranging from 0 to 25. The probes refused at depths of between 1.00 and 2.80m and generally reported N_{100} values of at least 4 correlating to firm to stiff fine soils and medium dense granular soils in the upper 1.0m (excluding DP38, DP42, DP46 and DP51). By approximately 2.0m the probes generally encountered refusal or reported N_{100} values of at least 7 (excluding DP41, DP46, DP47, and DP49). SPT N-Values of at least 22 were recorded from 1.0m to termination depth in BH01, BH02, RC05 and BH06 and this suggests high strength deposits (undrained shear strength of at least 110kPa).

As with Area 1, strip or pad foundations could be adopted at Area 2 with footings placed on firm or firm / stiff soils, typically at depths of 1 to 1.2m. Where present, the firm / stiff soils should provide a safe bearing capacity of 150 to 175kPa. If higher bearing capacities are required strip footing or pad foundations could be placed at greater depths (i.e. c2.0m bgl). The very high strength soils (very stiff with shear strengths of 120 to 150 kPa) should provide a safe bearing capacity of 225 to 250kPa. Long-term consolidation settlement would be expected to be 15 to 20mm for these loading magnitudes.

Foundation Solutions – Area 3 (South)

The probes at Area 3 showed varied stiffness characteristics from ground level to termination depths of 0.8 to 3.4m with N_{100} values ranging from 0 to 25. The results suggest the upper soils are firm to stiff fine grained soils or medium dense granular soils. N_{100} values of at least 5 were recorded at approximately 1.0m (excluding DP09, DP16, DP17, DP18, DP20, DP22, DP30 and DP35). From c2m, the probes noted N_{100} values of at least 6 excluding DP07, DP16 and DP33 which reported N_{100} values of 1, 5 and 4. The SPT N-Values for Area 3 show the soils from ground level to termination depth as very stiff / dense with N-Values ranging of at least 22 from 1.0m to termination depth in BH01, BH02, RC05 and BH06. This demonstrates high strength deposits (undrained shear strength of c100 kPa).

Again, strip footing or pad foundations could be placed on the medium dense upper gravel dominant soils, typically at depths of around 2.0m. These soils should provide a safe bearing capacity of 150 to 175kPa with long term settlement <20mm. It is imperative that foundations are not placed on low strength / soft compressible soils such as those identified in DP07, DP16 and DP33. Where any such soils occur, these should be removed and replaced with low grade C20 lean-mix concrete.

It is highlighted that localised excavation depths of up to 2.0m should be anticipated across the site (to found on adequate strength soils). Where present these should be removed and low grade concrete used to build up to underside of footings. Also, temporary sidewall stability will be a key consideration in conjunction with significant quantities of concrete to underside of footings or pads. In view of the nature of the fine grained soils at the site, lean mix concrete should be placed immediately to minimize softening or degradation of the formation soils.

Given the potential for localized low strength soils to be present (as identified by the dynamic probes), excavations for pad / strip footings should be inspected and approved by a competent (suitably qualified) engineering geologist / geotechnical engineer. Plate load tests (minimum of 600mm diameter), if practical given dig depths, are particularly useful in evaluating performance under loading and validating the design excavation or formation depth.

Deep Foundations

Where multistorey apartments are proposed, foundations could be placed on the very high strength soils to reduce pad sizes. Alternatively, piles could be considered as a foundation solution if more economical. Piles would allow for the structural loads to be transferred to the moderately weak to very strong, thickly to thinly bedded SANDSTONE (encountered at depths of c2.5m to c8.0m bgl as shown in Table 3).

Bored piles are considered most suitable for the ground conditions identified at this site. Piles could be founded at rockhead or within the upper bedrock. CFA piles may be suitable (if they can penetrate the upper bedrock and achieve a satisfactory socket). If CFA piling rig capacity is insufficient to achieve adequate rock socket penetration, then rotary bored piles (symmetrix / odex) could be utilized to penetrate the SANDSTONE. Piles should be sufficiently socketed in to competent bedrock, ideally at least 3 pile diameters.

A working platform or mat should be installed to allow for safe movement and operation of a piling rig. The mat or platform should be designed in accordance with BRE 470 and the thickness (suggest T0 Struc) should be selected for the ground conditions and rig loadings. It is important that the working platform is maintained in a good order and spoil generated is removed without delay to prevent degradation. It is assumed that the T0 would remain in-situ under the footprint of the buildings, therefore it should meet the chemical and durability / soundness parameters listed in Annex E of SR21:2014+A1:2016. Drainage is a key factor or consideration in working platform design and successful operations. It is noted that T0 will not permit 'free draining' conditions, hence surface water management and maintenance of the piling platform is advised as set out in BRE 470.

The importance of good platform maintenance cannot be overemphasized as trafficking and poor management of pile bore arisings would lead to degradation.

6.3 Earthworks and Ground Improvement

Depending on existing ground elevations and proposed floor slab levels and foundation depths, ground improvement techniques could be considered for the project (i.e. cut / fill soil stabilization to produce high strength engineered fill). To evaluate the potential re-use properties of the upper soils, a programme of earthworks laboratory testing was conducted. This comprised CBR, Moisture Condition Value (MCV) and Dry Density / Moisture Content relationship. Bulk samples were acquired from a selection of trial pits excavated across the site with testing performed on the material at their received or natural moisture contents (NMC) and then after mixing with lime (1 & 2% lime) and lime / cement binders (1% lime and 2% cement). Summary details of the test results are shown in Tables 5 and 6. It is noted that the lime used (calcium oxide) was supplied by Clogrennane with OPC from Kilsaran.

Table 5 - Summary of MCV Tests at NMC and with addition of Lime / Lime-Cement Binders

Area	Label	Depth (m)	MCV (Moisture Condition Value)		
			Initial MCV (MC%)	1% Lime MCV (MC%)	2% Lime MCV (MC%)
1	TP64	1.0	2.2	3.4	5.4
1	TP71	0.5	6.4	13.6	14.4
1	TP82	0.5	3.0	7.6	8.8
2	TP41	1.0	3.6	8.0	8.7
2	TP48	0.5	8.4		
2	TP53	0.5	8.2		
3	TP02	0.5	3.4		
3	TP12	0.5	3.2	9.4	12.0
3	TP32	1.4	6.3		
3	TP34	0.5	7.2	7.4	10.2

Initial MCV values at natural moisture content (NMC) range from 2.2% in TP64 to 8.4% in TP48. Following the addition of 1% Lime, MCV values increased from 7.6 to 13.6 (excluding TP 64). The addition of 2% Lime saw further increases in MCV values. MCV values ranged from 5.4% in TP64 to 14.4% in TP71. Overall, the MCV testing shows a more notable increase in strength / stiffness with the addition of 2% lime.

Table 6 - Summary of CBR Tests at NMC and with addition of Lime / Lime-Cement Binders

Area	Label	Depth (m)	CBR Value (%)						
			Unsoaked / Natural State	1% Lime		2% Lime		1% Lime, 2% cement	
				Soaked (days)		Soaked (days)		Soaked (days)	
				3	14	3	14	3	14
1	TP60	0.50		8.7		23			
1	TP64	1.00	2.70		15		15		22
1	TP71	0.50	2.1	17		24		37	
1	TP82	0.50	0.6		11		20		27
2	TP34	0.50	2.6		36		50		60
2	TP41	1.00	0.6	7.1		16		17	
2	TP44	0.50			14		25		
2	TP48	0.50	3.8	20		43		50	
2	TP53	0.50	3.5		10		49		82
3	TP02	0.50	1.70	16				36	
3	TP03	1.00							63
3	TP12	0.50	1.2		29		47		
3	TP23	0.50						24	
3	TP29	0.50							44
3	TP32	1.40	4.0	21		30		72	

The CBR values (refer to Table 6) on the samples tested in their natural state are very low or low (mostly 0.6 to 4.0%). However, CBR values increased significantly following the addition of lime or lime/cement binders demonstrating a good exothermic reaction. The 14 day soaked CBR samples produced values of 11 to 82% while the highest was recorded with 1% lime and 2% cement. The trial testing shows that the upper soils have the capability to be treated with lime or lime/cement and produce a high strength engineered fill (i.e. achieving a CBR of 15% when tested by plate load method). A safe or allowable bearing capacity of 250 to 300 kPa would be anticipated for treated soils achieving a CBR of 15%. When treated (modification and stabilization), the compacted fill should achieve an air voids not exceeding 5% and relative compaction of at least 95% of maximum dry density (MDD). The compaction tests determined optimum moisture contents of 6.5 and 12.4% with maximum dry densities of 1.84 and 2.16 Mg/m³. These are quite variable and further or additional tests are advised if soil modification / stabilization is selected for the project.

It is vital that during the soil stabilization process (if adopted), that site won material is properly stockpiled and graded and shaped so that surface water cannot collect or pond. Similarly, careful control of excavation, transporting, stockpiling, placing and compaction is advised to ensure that degradation of the shallow soil deposits does not occur. This is extremely important as poor earthworks management would render the fine soils as unsuitable for re-use. If the design makes provision for ground improvement or soil stabilization methods, then a field demonstration trial (footprint of c. 10 x 10m) is advised to assess the performance of the modified soils with lime or lime / cement binders. This would allow for in-situ testing (plate load, nuclear gauge, sand replacement and CBR mould samples) to measure CBR / stiffness, relative compaction (percentage degree of compaction) and air voids.

Table 7 - Summary of Proctor Compaction Tests

Area	Label	Depth (m)	Maximum Dry Density (Mg/m ³)	Optimum Moisture content (%)
1	TP64	1.00	2.05	9.00
1	TP71	0.50	1.85	12.40
1	TP82	0.50	1.84	12.40
2	TP41	1.00	1.92	12.30
2	TP48	0.50	1.88	12.40
2	TP53	0.50	1.93	12.30
3	TP02	0.50	2.06	8.40
3	TP12	0.50	1.97	9.40
3	TP32	1.40	1.86	11.30
3	TP34	0.50	2.16	6.50

Chemical analysis tests to measure sulphate and sulphur contents to EN 1744 were scheduled on the binder treated CBR samples (after 7 days curing). The results on the samples tested (i.e. TP12, TP41, TP64, TP32 & TP82) show negligible concentrations of water soluble sulphate, acid soluble sulphate and total sulphur (See Appendix 7). The chemical demonstrate that no adverse reaction occurred with the addition of lime. A frost heave test was carried out in accordance with BS 812 Part 124:2009. The test produced a mean frost heave of 21mm.

6.3 Ground Bearing Slab

In order to support conventional ground bearing slabs, it is recommended that a firm (medium strength) formation is reached, achieving a minimum CBR value of 3% (by plate load test method). Any soft or low strength upper soils / MADE GROUND should be removed before placement of hardcore (T0, T1). Depending on the extent of soft or low strength soils, they could be excavated and replaced with imported T0 or T1 Struc unbound granular fill, compacted in layers. Where soft soils are deep, their removal may be impractical and floor slabs should be suspended between foundations.

T0 / T1 used on site should meet the requirements in Annex E of SR21:2014+A1:2016 and would be expected, upon compaction, to achieve a CBR of 15% (as determined by plate load test method). Ahead of using engineered FILL beneath floor slabs, imported granular fill 'hardcore' used in any foundation application or under concrete slabs at the site should meet the requirements of Annex E of SR 21:2014+A1:2016. It is recommended that T0 Struc is used in conjunction with T1 Struc. The T0 and T1 hardcore fills should be rigorously tested (independent of the quarry source) to ensure that they meet the physical, durability, chemical and mineralogical characteristics as set out in the aforementioned Annex E of SR 21:2014+A1:2016. Independent testing on samples of the proposed source hardcore is strongly recommended in advance of the material being used on the site. As a minimum, particle size gradings, chemical tests and simplified petrology are advised to screen the material and independently assess compliance with Annex E, SR21:2014+A1:2016.

Compaction / Placement of imported granular fill or hardcore will need to achieve a low air voids (<5%) and ensure that settlement is not an issue. In the case of layer thickness, number of roller passes and mass per metre and width of roll should meet the guidelines in I.S. 888:2016. Layer thickness should not exceed 200mm using a smooth drum roller with a mass per metre of roll of not less than 5400 kg.

6.4 Groundwater / Infiltration

As noted in Section 5.3, groundwater strikes were reported in several exploratory hole locations at various depths across the site. The groundwater strike depth and rate of flow for each location is presented in Table 4. Groundwater was encountered as shallow as 0.60m and 0.50m in Area 3 (TP04 and TP09) with flow rates noted as rapid or copious.

Four visits to site have been undertaken (to date) to measure standing water levels in the groundwater monitoring wells installed in BH05, BH08, BH10, BH11 and BH13 the results of which are presented in Appendix 2 with the borehole logs. It should be noted that groundwater levels are subject to seasonal fluctuations and as works were undertaken during winter and groundwater levels recorded during spring, water levels could be lower in summer.

Groundwater levels ranged from 23.39m OD to 34.06m OD on the 29/01/2025 and on the most recent visit (29/04.025) groundwater levels ranged from 33.93m OD to 23.28 m OD.

Should groundwater be encountered during deeper digs / excavations, then de-watering would be required through a combination of strategic sump pumping and / or perimeter drains. This is particularly likely at Area 3 where shallow groundwater was encountered and the most suitable founding material is at c2.0m bgl. As mentioned in Section 5.3, the potential exists for seasonal changes in groundwater level (as works were undertaken during winter and groundwater levels recorded during spring). It may be the case that the various waterbodies at depth are subject to seasonal variations.

Eight soakaway tests were conducted in the overburden soils within an open excavation. The tests were undertaken in a range of soil types and not surprisingly, the fastest infiltration rates were noted in the GRAVEL dominant soils. The results of the soakaway tests are presented below in Table 8.

Table 8 - Measured infiltration rates (f) expressed as exposed area (metre) per unit time

Soakaway Test No.	Depth of Test (m bgl)	f (m/min)	f (m/sec)
SA01	1.50	0	0
SA02	2.20	0.00037	6.1E-06
SA03	2.00	0.00596	9.93E-05
SA04	1.06	0.04190	0.00700
SA05	2.00	0.00014	2.25E-06
SA06	2.00	0.00060	9.97E-06
SA07	1.78	0.00058	9.62E-06
SA08	1.67	0.00693	0.000116

6.5 Flexible Pavement Construction

Fifty-seven plate load tests were conducted on the shallow subsoils at depths of 0.30m to 0.80m bgl. The plate load test permits an assessment of the in-situ stiffness of the upper soil. The test results are reported in Appendix 6 and are summarized below in

Table 9.9. Equivalent CBR values of 0.6 to 6.1% were determined on the initial loading cycles (Cycle 1) with an average of 2.3%. Equivalent CBR values of 0.8 to 17.9% were determined on the reload cycles (Cycle 2) with an average of 6.7% (this average is skewed by very high outliers).

Table 9 - CBR Test Results Summary (Values <2% shown in red)

Area	Test Number	Test Depth	CBR at Load Cycle %	CBR at Reload Cycle %
1	CBR30	0.50	5.1	6.9
1	CBR31	0.50	1.6	7.2
1	CBR32	0.50	1.4	1.6
1	CBR33	0.50	2.4	15.2
1	CBR34	0.50	2.5	9.2
1	CBR35	0.80	1.2	5.3
1	CBR36	0.40	3.3	6.7
1	CBR37	0.40	1.2	5.4
1	CBR38	0.40	2.4	4.3
1	CBR39	0.40	2.6	8.7
1	CBR40	0.40	3.7	5.5
1	CBR41	0.40	3.2	5.4
1	CBR42	0.50	3.7	7.5
1	CBR43	0.30	1.1	2.5
1	CBR44	0.30	2.4	14.7
1	CBR45	0.40	1.4	5.4
1	CBR46	0.30	2.7	3.7
1	CBR47	0.40	3.2	12.7
1	CBR48	0.30	2.1	7.9
1	CBR49	0.40	2.1	5.8
1	CBR50	0.30	1.8	3.6
1	CBR51	0.40	3.2	7.5
1	CBR52	0.40	1.3	3.3
1	CBR53	0.40	4.8	6.2
1	CBR54	0.30	4.0	6.4
1	CBR55	0.30	1.6	8.3
1	CBR56	0.30	5.2	6.5
1	CBR57	0.30	0.7	5.7
2	CBR07	0.50	1.1	5.0
2	CBR08	0.50	0.3	0.8
2	CBR09	0.30	5.0	6.9
2	CBR10	0.50	1.8	3.7
2	CBR19	0.40	0.6	1.6
2	CBR20	0.40	0.6	2.8
2	CBR28	0.50	2.1	5.1
2	CBR29	0.50	6.4	17.9
3	CBR01	0.50	1.2	2.2
3	CBR02	0.70	1.7	7.2
3	CBR03	0.70	1.2	4.9
3	CBR04	0.50	0.8	2.8
3	CBR05	0.50	1.6	3.4
3	CBR06	0.50	1.0	6.4
3	CBR11	0.60	1.0	8.5
3	CBR12	0.50	3.7	6.4

Area	Test Number	Test Depth	CBR at Load Cycle %	CBR at Reload Cycle %
3	CBR13	0.50	0.8	1.4
3	CBR14	0.50	2.8	8.3
3	CBR15	0.50	0.8	7.4
3	CBR16	0.50	6.1	10.5
3	CBR17	0.50	0.9	8.4
3	CBR18	0.80	1.0	5.4
3	CBR21	0.50	1.3	8.0
3	CBR22	0.60	2.2	18.1
3	CBR23	0.50	5.8	18.5
3	CBR24	0.50	1.2	1.4
3	CBR25	0.50	1.8	2.1
3	CBR26	0.50	4.0	13.3
3	CBR27	0.50	5.2	5.8

Based on the plate load test results, and in accordance with the Design Guidance for Road Pavement (HD 25-26/10:2010), a CBR design value of 2.0% is recommended for the near surface soils on site once proof rolled. The CBR value on the reload cycle is significantly higher than the initial load cycle, only CBR13, CBR08, CBR19, CBR32 and CBR24 reported a CBR of <2.0% on the reload cycle. This suggests the in situ soils should respond well to proof rolling. Assuming a design CBR value of 2.0% for the upper soils then a minimum 6F capping thickness of 600mm and a sub-base thickness (UGM) of 150mm is recommended to support the road pavements.

Ahead of road construction, and following static compaction of the soils, a further set of plate testing (450 or 600mm diameter) should be undertaken to assess the in-situ stiffness of the formation. It should be noted that should a deeper stratum be selected for road formation, there may be a marked improvement registered in subgrade quality, i.e. a higher CBR value obtained in plate testing.

Since soft ground is present and variations in subgrade can be expected, either geogrid reinforcement or the use of starter material (Class 6A / 6B) should be considered to provide a suitable foundation layer especially for access or haul / spine roads if they traverse low strength subgrades. Such a mechanically stabilized layer could consist of a layer of geogrid with 500 to 600mm of granular fill (well graded aggregate with maximum particle size of 75mm). Where geogrid is not utilized then approximately 500mm build-up of Class 6A / 6B starter layer material could be considered in conjunction with a capping layer (Class 6F capping in line with Series 600 of TII SRW). This should provide a satisfactory foundation layer to adequately support the subbase / pavement (150mm of unbound granular material (UGM) in accordance with Table 2.1 of CC-SPW-00800 (TII August 2022)). The aforementioned Class 6A / 6B material could be used in conjunction with ca. 300mm of 6F capping material. This should provide a robust foundation layer.

The time of year will play a role in sub-grade strength especially during winter or early spring where heavy rainfall would cause degradation / wash-out of the formation. Conversely, in summer, the performance of the soil subgrade may be significantly improved due to reduced moisture content levels in the upper soil. If there are particular concerns regarding the condition of the formation soils, then additional plate bearing tests should be considered during construction to verify or validate the stiffness / density of the formation soils and adequate capping thickness.

The durability of the capping material should be confirmed as capping will be exposed to the elements (especially if the works are undertaken during the winter / spring period). It is important that argillaceous sedimentary rocks (i.e. muddy limestone, calcareous mudstone, shale, etc.) are not used

as capping or as a starter layer. These have high potential to give rise to degradation (i.e. poor durability and soundness) and slaking and therefore would not be suitable.

All granular fills / unbound granular mixtures (UGM) used in pavement construction should be tested and approved in advance of being used in pavement construction. They should meet the compositional, chemical and soundness requirements as prescribed in the TII publication entitled Road Pavements – Unbound and Hydraulically Bound Mixtures (CC-SPW-00800 – dated August 2022).

Compaction / placement of imported granular fill or hardcore will need to achieve low air voids (<5%) and ensure that settlement is not an issue. The number of roller passes and mass per metre and width of roll should meet the guidelines in I.S. 888:2016 Annex B: Compaction requirements for unbound mixtures Table B.1. It is recommended to use a smooth drum roller (without vibration) with a mass per metre of roll of not less than 5400kg. Unbound mixtures should not be laid in layers greater than 150mm if using this compaction method.

6.5 Slopes / Batters

Excavations are likely to intercept non cohesive sand/gravel soils, where deep excavation works are required in the superficial or granular deposits. The use of trench box support is therefore advised. A maximum slope angle of 1V to 1.5H (33°) is recommended for temporary berms or batters formed within any upper firm to stiff cohesive soils. A long-term slope angle of 1V to 2 (26°) should be appropriate for batters in the same soils. In addition, the uppermost cohesive subsoils will be susceptible to softening and degradation and surface water or groundwater ingress can lead to a significant reduction in shear strength. Perched water can exist locally and this should be considered in risk assessments for excavations.

Site operatives or personnel should not enter unsupported excavations and should be informed of potential risks. Where site operatives or engineering staff work in close proximity to temporary slopes or batters, these should be inspected and approved by a suitably experienced civil engineer, preferably with geotechnical experience. Where there is a risk of spalling of battered slopes, the use of a geogrid is recommended. The geogrid should be anchored at the top and bottom of the ridge face to contain particles such as gravel, cobbles and / or boulders that may become dislodged.

Man-entry into any deep excavation should be appropriately assessed and an AF3 form completed. The AF3 form details the thorough examination of an open excavation as well as documenting daily worksite inspections.

6.7 Buried Concrete

The chemical analysis tests on eighteen soil samples show pH values ranging from 7.1 to 8.5. The water soluble sulphur (g/l) results from the trial pit soil samples determined values of <0.077g/l. This would suggest BRE Design Sulphate Class DS-1. Table C1 ACEC for greenfield sites in BRE SD 1 (2005) can be used in the selection and design of concrete. As mobile groundwater conditions do prevail at the site and given the pH values obtained from the testing, then ACEC class AC-1 would be expected to be appropriate for buried concrete. In line with I.S. EN 206-1:2013, concrete could be manufactured to Class XA1 where founded or positioned in the upper soils (Class XA1 being ≥ 2000 and ≤ 3000 SO_4^{2-} mg/kg).

REFERENCES

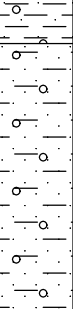
- 1.0 BS 5930 (2015+A1:2020) Code of Practice for Site Investigation, British Standards Institution (BSI).
- 2.0 BS 1377 (1990) Methods of Testing of Soils for Civil Engineering Purposes, BSI.
- 3.0 Eurocode 7, Part 2: Ground Investigation & Testing (EN 1997-2:2007)
- 4.0 Irish Standard IS 888:2016, NSAI (Published in March 2016)
- 5.0 Site Investigation Practice: Assessing BS 5930 (1986), Geological Society Special Publication, No. 2.
- 6.0 Sowers, G.F. (1962) Shallow Foundations, Foundation Engineering, McGraw Hill
- 7.0 SR21:2014+A1:2016 Guidance on the use of IS EN 13242+A1:2007
- 8.0 Terzaghi, K., Peck, R.B., & Mesri, G. (1996). Soil Mechanics in Engineering, 3rd Edition. New York, Wiley.
- 9.0 Tomlinson, M.J. Pile Design & Construction Practice, 4th Edition

Appendix 1

Trial Pit Logs & Photographs

		TRIAL PIT RECORD						REPORT NUMBER 25758		
CONTRACT Mt. Avenue							TRIAL PIT NO. TP01			
LOGGED BY Patrick Ryan				CO-ORDINATES 702,946.49 E 807,817.69 N			SHEET Sheet 1 of 1			
CLIENT ENGINEER DBFL Consulting Engineers				GROUND LEVEL (m) 23.66			DATE STARTED 06/12/2024 DATE COMPLETED 06/12/2024			
							EXCAVATION METHOD			
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly sandy gravelly CLAY. Gravels are subangular to subrounded fine to coarse.		0.20	23.46	 (Rapid)	AA245752	B	0.50-0.60		
1.0	Stiff brown sandy gravelly CLAY with low cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		1.50	22.16		AA245753	B	1.70-1.80		
2.0	Medium dense brown slightly clayey sandy GRAVEL with medium cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		2.30	21.36		AA245754	B	2.50-2.60		
3.0	Medium dense grey slightly clayey sandy GRAVEL with medium cobble content and medium boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		3.00	20.66						
	End of Trial Pit at 3.00m									
4.0										
Groundwater Conditions Incursion at 2.80m										
Stability Slight to moderate instability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location.										

		TRIAL PIT RECORD						REPORT NUMBER 25758	
CONTRACT Mt. Avenue							TRIAL PIT NO. TP02 SHEET Sheet 1 of 1		
LOGGED BY Patrick Ryan		CO-ORDINATES 702,929.11 E 807,790.03 N				DATE STARTED 06/12/2024 DATE COMPLETED 06/12/2024			
CLIENT ENGINEER DBFL Consulting Engineers		GROUND LEVEL (m) 22.26				EXCAVATION METHOD			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly sandy gravelly CLAY. Gravels are subangular to subrounded fine to coarse.		0.20	22.06	 (Rapid)	AA245755	B	0.50-0.60		
1.0	Medium dense brown clayey gravelly SAND with medium cobble content and medium boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.									
	Medium dense grey slightly clayey sandy GRAVEL with medium cobble content and medium boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		1.40	20.86		AA245756	B	1.50-1.60		
	Medium dense grey GRAVEL with medium cobble content and medium boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		1.70	20.56						
2.0	End of Trial Pit at 1.80m		1.80	20.46		AA245757	B	1.80-1.80		
3.0										
4.0										

Groundwater Conditions Incursion at 1.80m
Stability Slight to moderate instability
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated at 1.8m on refusal of weathered greywacke rockhead.

		TRIAL PIT RECORD						REPORT NUMBER 25758	
CONTRACT Mt. Avenue							TRIAL PIT NO. TP03 SHEET Sheet 1 of 1		
LOGGED BY Patrick Ryan		CO-ORDINATES 702,819.77 E 807,729.83 N				DATE STARTED 11/12/2024 DATE COMPLETED 11/12/2024			
CLIENT ENGINEER DBFL Consulting Engineers		GROUND LEVEL (m) 21.05				EXCAVATION METHOD			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly sandy gravelly CLAY. Gravels are subangular to subrounded fine to coarse.									
	Stiff brown slightly gravelly sandy CLAY with low cobble content and low boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		0.30	20.75		AA236754	B	0.50-0.60		
1.0	Medium dense brown clayey sandy GRAVEL with low cobble content and low boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		0.90	20.15		AA236755	B	1.00-1.10		
	Medium dense brown clayey sandy GRAVEL with medium cobble content subangular to subrounded and low boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		1.50	19.55						
			1.90	19.15						
2.0	Firm brown slightly sandy slightly gravelly CLAY with medium cobble content subangular to subrounded and low boulder content subangular to rounded. Gravels are subangular to subrounded fine to coarse.					AA236756	B	2.10-2.20		
3.0	End of Trial Pit at 3.00m		3.00	18.05						
4.0										

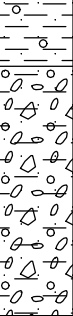
Groundwater Conditions

Stability
 Slight instability

General Remarks
 CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location.

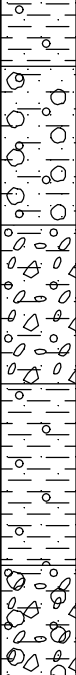
IGSL TP LOG 25758A.GPJ IGSL.GDT 13/5/25

		TRIAL PIT RECORD						REPORT NUMBER 25758	
CONTRACT Mt. Avenue						TRIAL PIT NO. TP04 SHEET Sheet 1 of 1			
LOGGED BY Patrick Ryan		CO-ORDINATES 702,783.75 E 807,727.62 N				DATE STARTED 11/12/2024 DATE COMPLETED 11/12/2024			
CLIENT ENGINEER DBFL Consulting Engineers		GROUND LEVEL (m) 20.73				EXCAVATION METHOD			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly sandy gravelly CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		0.30	20.43		AA236855	B	0.50-0.60		
1.0	Medium dense brown sandy clayey GRAVEL with medium cobble content subangular to subrounded and low boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		1.40	19.33		AA236856	B	1.40-1.40		
	End of Trial Pit at 1.40m									
2.0										
3.0										
4.0										

Groundwater Conditions Incursion at 0.6m
Stability Slight to moderate instability
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated at 1.40m due to rapid GW strike.

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		TRIAL PIT RECORD						REPORT NUMBER 25758					
CONTRACT Mt. Avenue							TRIAL PIT NO. TP06						
LOGGED BY Patrick Ryan				CO-ORDINATES 702,794.16 E 807,779.39 N			SHEET Sheet 1 of 1						
CLIENT ENGINEER DBFL Consulting Engineers				GROUND LEVEL (m) 24.19			DATE STARTED 11/12/2024 DATE COMPLETED 11/12/2024						
							EXCAVATION METHOD						
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)			
						Sample Ref	Type	Depth					
0.0	Firm grey slightly sandy gravelly CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		0.30	23.89		AA236851	B	0.50-0.60					
	Medium dense gravelly clayey SAND with medium cobble content subangular to subrounded and low boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.												
1.0	Medium dense grey sandy clayey GRAVEL with medium cobble content subangular to subrounded and low boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		1.00	23.19							AA236852	B	1.10-1.20
	Stiff brown slightly sandy gravelly CLAY with medium cobble content subangular to subrounded and low boulder content subangular to rounded. Gravels are subangular to subrounded fine to coarse.		1.70	22.49							AA236853	B	1.80-1.90
2.0	Medium dense grey clayey sandy GRAVEL with medium cobble content subangular to subrounded and medium boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		2.50	21.69							AA236854	B	2.60-2.70
3.0	End of Trial Pit at 3.00m		3.00	21.19									
4.0													
Groundwater Conditions													
Stability Slight to moderate instability													
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location.													

IGSL TP LOG 25758A.GPJ IGSL_GDT 13/5/25

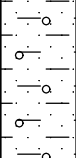
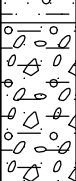
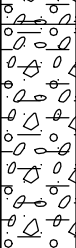
		TRIAL PIT RECORD						REPORT NUMBER 25758	
CONTRACT Mt. Avenue							TRIAL PIT NO. TP07 SHEET Sheet 1 of 1		
LOGGED BY Patrick Ryan		CO-ORDINATES 702,834.43 E 807,822.76 N				DATE STARTED 10/12/2024 DATE COMPLETED 10/12/2024			
CLIENT ENGINEER DBFL Consulting Engineers		GROUND LEVEL (m) 26.86				EXCAVATION METHOD			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly sandy gravelly CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		0.30	26.56						
	Medium dense brown gravelly clayey SAND with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.					AA245796	B	0.50-0.60		
1.0	Medium dense grey clayey sandy GRAVEL with medium cobble content subangular to subrounded and medium boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		0.90	25.96						
						AA245797	B	1.10-1.20		
2.0										
						AA245798	B	2.40-2.50		
2.60	Tightly packed BOULDERS subangular to subrounded.		2.60	24.26						
2.70	End of Trial Pit at 2.60m		2.70	24.16						
3.0										
4.0										

Groundwater Conditions	
Stability Poor stability	
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated early at 2.60m due to refusal on packed boulders	

IGSL TP LOG 25758A.GPJ IGSL_GDT 13/5/25

		TRIAL PIT RECORD						REPORT NUMBER 25758	
CONTRACT Mt. Avenue							TRIAL PIT NO. TP08 SHEET Sheet 1 of 1		
LOGGED BY Patrick Ryan		CO-ORDINATES 702,892.22 E 807,882.07 N				DATE STARTED 06/12/2024 DATE COMPLETED 06/12/2024			
CLIENT ENGINEER DBFL Consulting Engineers		GROUND LEVEL (m) 25.64				EXCAVATION METHOD			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly sandy gravelly CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		0.20	25.44						
	Medium dense brown clayey gravelly SAND with low cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.					AA235796	B	0.40-0.50		
1.0	Medium dense grey slightly clayey sandy GRAVEL with medium cobble content subangular to subrounded and low boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		1.10	24.54						
						AA235797	B	1.30-1.40		
2.0	Loose grey sandy clayey GRAVEL with medium cobble content subangular to subrounded and low boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		1.90	23.74						
						AA245751	B	2.30-2.40		
3.0	End of Trial Pit at 3.00m		3.00	22.64						
4.0										

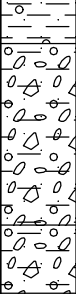
Groundwater Conditions
 Incursion at 1.9m

Stability
 Poor Stability

General Remarks
 CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location.

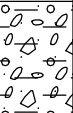
IGSL TP LOG 25758A.GPJ IGSL_GDT 13/5/25

		TRIAL PIT RECORD						REPORT NUMBER 25758	
CONTRACT Mt. Avenue						TRIAL PIT NO. TP09 SHEET Sheet 1 of 1			
LOGGED BY Patrick Ryan		CO-ORDINATES 702,835.26 E 807,924.52 N				DATE STARTED 06/12/2024 DATE COMPLETED 06/12/2024			
CLIENT ENGINEER DBFL Consulting Engineers		GROUND LEVEL (m) 26.61				EXCAVATION METHOD			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly sandy gravelly CLAY. Gravels are subangular to subrounded fine to coarse.		0.20	26.41		AA245758	B	0.40-0.50		
	Medium dense brown slightly clayey sandy GRAVEL with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.									
1.0	Medium dense grey mottled brown slightly clayey sandy GRAVEL with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		1.00	25.61						
			1.30	25.31		AA24559	B	1.20-1.30		
	End of Trial Pit at 1.30m									
2.0										
3.0										
4.0										

Groundwater Conditions Incursion at 0.5m										
Stability Poor stability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated at 1.30m due to rapid GW strike.										

		TRIAL PIT RECORD						REPORT NUMBER 25758	
CONTRACT Mt. Avenue							TRIAL PIT NO. TP10 SHEET Sheet 1 of 1		
LOGGED BY Patrick Ryan		CO-ORDINATES 702,787.14 E 807,857.94 N				DATE STARTED 12/12/2024 DATE COMPLETED 12/12/2024			
CLIENT ENGINEER DBFL Consulting Engineers		GROUND LEVEL (m) 29.41				EXCAVATION METHOD			

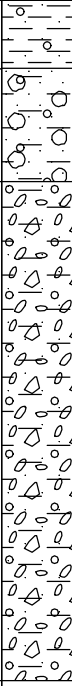
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly sandy gravelly CLAY. Gravels are subangular to subrounded fine to coarse.									
	Medium dense brown gravelly clayey SAND with low cobble content subangular to subrounded and low boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		0.30	29.11		AA236757	B	0.50-0.60		
1.0	Stiff brown slightly sandy gravelly clayey SILT. Gravels are subangular to subrounded fine to coarse.		1.00	28.41		AA236758	B	1.00-1.10		
	Medium dense grey clayey sandy GRAVEL with medium cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		1.50	27.91						
2.0	End of Trial Pit at 2.00m		2.00	27.41						
						AA236759	B	2.50-2.60		
3.0										
4.0										

Groundwater Conditions

Stability
 Slight to moderate instability

General Remarks
 CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated at 2.00m on refusal on weathered Greywacke rockhead.

		TRIAL PIT RECORD						REPORT NUMBER 25758	
CONTRACT Mt. Avenue							TRIAL PIT NO. TP11 SHEET Sheet 1 of 1		
LOGGED BY Patrick Ryan		CO-ORDINATES 702,731.56 E 807,806.77 N				DATE STARTED 11/12/2024 DATE COMPLETED 11/12/2024			
CLIENT ENGINEER DBFL Consulting Engineers		GROUND LEVEL (m) 23.50				EXCAVATION METHOD			

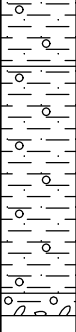
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly sandy gravelly CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		0.30	23.20						
	Medium dense gravelly clayey SAND with medium cobble content subangular to subrounded and low boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		0.80	22.70		AA236757	B	0.50-0.60		
1.0	Medium dense grey clayey sandy GRAVEL with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.					AA236758	B	1.00-1.10		
2.0										
					1 (Seepage)					
3.0	End of Trial Pit at 3.00m		3.00	20.50						
4.0										

Groundwater Conditions
 Incursion at 2.5m

Stability
 Slight to moderate instability

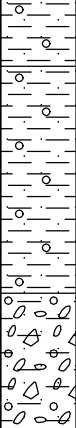
General Remarks
 CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location.

IGSL TP LOG 25758A.GPJ IGSL_GDT 13/5/25

	TRIAL PIT RECORD							REPORT NUMBER 25758		
CONTRACT Mt. Avenue						TRIAL PIT NO. TP12				
LOGGED BY Patrick Ryan						SHEET Sheet 1 of 1				
CO-ORDINATES 702,691.97 E 807,796.70 N						DATE STARTED 11/12/2024				
GROUND LEVEL (m) 22.06						DATE COMPLETED 11/12/2024				
CLIENT ENGINEER DBFL Consulting Engineers						EXCAVATION METHOD				
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly sandy gravelly CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		0.30	21.76	 (Rapid)	AA236760	B	0.50-0.60		
1.0	Firm grey mottled brown gravelly sandy CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		1.30 1.40	20.76 20.66		AA236761	B	1.40-1.40		
2.0	Medium dense grey clayey GRAVEL with medium cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse. End of Trial Pit at 1.40m									
3.0										
4.0										
Groundwater Conditions Incursion at 1.4m										
Stability Slight to moderate instability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated at 1.40m due to rapid GW strike.										

IGSL TP LOG 25758A.GPJ IGSL_GDT 13/5/25

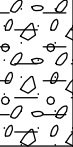
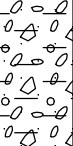
		TRIAL PIT RECORD						REPORT NUMBER 25758	
CONTRACT Mt. Avenue							TRIAL PIT NO. TP13 SHEET Sheet 1 of 1		
LOGGED BY Patrick Ryan		CO-ORDINATES 702,659.19 E 807,839.60 N				DATE STARTED 11/12/2024 DATE COMPLETED 11/12/2024			
CLIENT ENGINEER DBFL Consulting Engineers		GROUND LEVEL (m) 23.35				EXCAVATION METHOD			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly gravelly sandy CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		0.30	23.05	1 (Rapid)	AA236762	B	0.50-0.60		
1.0	Firm grey mottled brown gravelly sandy CLAY with medium cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		1.30	22.05		AA236763	B	1.30-1.40		
2.0	Medium dense grey mottled brown clayey sandy GRAVEL with medium cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		1.90	21.45		AA236764	B	1.90-1.90		
End of Trial Pit at 1.90m										
3.0										
4.0										

Groundwater Conditions Incursion at 1.3m										
Stability Poor stability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated at 1.90m due to rapid GW strike and risk of total pit collapse										

IGSL TP LOG 25758A.GPJ IGSL_GDT 13/5/25

		TRIAL PIT RECORD						REPORT NUMBER 25758	
CONTRACT Mt. Avenue							TRIAL PIT NO. TP14 SHEET Sheet 1 of 1		
LOGGED BY Patrick Ryan		CO-ORDINATES 702,729.39 E 807,906.65 N				DATE STARTED 12/12/2024 DATE COMPLETED 12/12/2024			
CLIENT ENGINEER DBFL Consulting Engineers		GROUND LEVEL (m) 32.17				EXCAVATION METHOD			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly sandy gravelly CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		0.30	31.87						
	Medium dense brown slightly clayey sandy GRAVEL with medium cobble content subangular to subrounded and low boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.					AA236775	B	0.50-0.60		
1.0	Medium dense grey slightly clayey sandy GRAVEL with medium cobble content subangular to subrounded and low boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		1.00	31.17						
						AA236776	B	1.50-1.60		
2.0										
	Medium dense grey slightly clayey sandy GRAVEL with medium cobble content angular to subangular and low boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		2.40	29.77						
	End of Trial Pit at 2.50m		2.50	29.67		AA236777	B	2.50-2.60		
3.0										
4.0										

Groundwater Conditions	
Stability Slight instability	
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated at 2.5m on refusal of weathered greywacke rockhead.	

IGSL TP LOG 25758A.GPJ IGSL.GDT 13/5/25

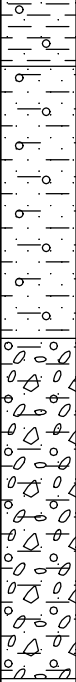
		TRIAL PIT RECORD						REPORT NUMBER 25758	
CONTRACT Mt. Avenue							TRIAL PIT NO. TP15 SHEET Sheet 1 of 1		
LOGGED BY Patrick Ryan		CO-ORDINATES 702,783.91 E 807,954.57 N				DATE STARTED 06/12/2024 DATE COMPLETED 06/12/2024			
CLIENT ENGINEER DBFL Consulting Engineers		GROUND LEVEL (m) 28.50				EXCAVATION METHOD			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly sandy gravelly CLAY. Gravels are subangular to subrounded fine to coarse.		0.20	28.30						
	Stiff brown sandy gravelly SILT with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.					AA254760	B	0.40-0.50		
1.0	Medium dense slightly clayey sandy GRAVEL with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		1.20	27.30		AA254761	B	1.40-1.50		
	Refusal on greywacke rockhead		1.80	26.70						
2.0	End of Trial Pit at 1.90m		1.90	26.60		AA254762	B	1.90-1.90		
3.0										
4.0										

Groundwater Conditions										
Stability Good stability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated at 1.9m on refusal of weathered greywacke rockhead.										

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		TRIAL PIT RECORD						REPORT NUMBER 25758	
CONTRACT Mt. Avenue							TRIAL PIT NO. TP16 SHEET Sheet 1 of 1		
LOGGED BY Patrick Ryan		CO-ORDINATES 702,720.67 E 807,967.41 N				DATE STARTED 09/12/2024 DATE COMPLETED 09/12/2024			
CLIENT ENGINEER DBFL Consulting Engineers		GROUND LEVEL (m) 31.81				EXCAVATION METHOD			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly sandy slightly gravelly CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		0.30	31.51						
	Medium dense brown slightly clayey gravelly SAND with medium cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.				AA245766	B	0.50-0.60			
1.0										
	Medium dense grey slightly clayey sandy GRAVEL with medium cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		1.50	30.31						
2.0										
						AA245767	B	1.70-1.80		
3.0										
						AA245768	B	2.70-2.80		
3.0	End of Trial Pit at 3.00m		3.00	28.81						
4.0										

Groundwater Conditions

Stability
 Slight to moderate instability

General Remarks
 CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location.

IGSL TP LOG 25758A.GPJ IGSL_GDT 13/5/25

		TRIAL PIT RECORD						REPORT NUMBER 25758	
CONTRACT Mt. Avenue							TRIAL PIT NO. TP17 SHEET Sheet 1 of 1		
LOGGED BY Patrick Ryan		CO-ORDINATES 702,652.75 E 807,921.57 N				DATE STARTED 12/12/2024 DATE COMPLETED 12/12/2024			
CLIENT ENGINEER DBFL Consulting Engineers		GROUND LEVEL (m) 31.17				EXCAVATION METHOD			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly sandy gravelly CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		0.30	30.87						
	Medium dense brown gravelly clayey SAND with low cobble content subangular to subrounded and low boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.					AA236778	B	0.50-0.60		
1.0	Medium dense grey mottled brown sandy clayey GRAVEL with medium cobble content subangular to subrounded and low boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		1.20	29.97						
	Mediu dense grey clayey sandy GRAVEL with high cobble content subangular to subrounded and medium boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		1.90	29.27						
2.0	End of Trial Pit at 2.20m		2.20	28.97		AA236780	B	2.20-2.20		
3.0										
4.0										

Groundwater Conditions

Stability
 Slight instability

General Remarks
 CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated on refusal of tightly packed boulders.

IGSL TP LOG 25758A.GPJ IGSL_GDT 13/5/25

		TRIAL PIT RECORD						REPORT NUMBER 25758	
CONTRACT Mt. Avenue							TRIAL PIT NO. TP18 SHEET Sheet 1 of 1		
LOGGED BY Patrick Ryan		CO-ORDINATES 702,627.88 E 807,888.03 N				DATE STARTED 11/12/2024 DATE COMPLETED 11/12/2024			
CLIENT ENGINEER DBFL Consulting Engineers		GROUND LEVEL (m) 25.43				EXCAVATION METHOD			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly sandy gravelly CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		0.30	25.13						
	Stiff brown slightly gravelly sandy CLAY with low cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.					AA236765	B	0.50-0.60		
1.0	Medium dense grey mottled brown clayey sandy GRAVEL with medium cobble content angular to subangular. Gravels are subangular to subrounded fine to coarse.		1.10	24.33		AA236766	B	1.20-1.30		
	End of Trial Pit at 1.40m		1.40	24.03		AA236767	B	1.40-1.40		
2.0										
3.0										
4.0										

Groundwater Conditions										
Stability Slight instability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated at 1.4m on refusal of weathered greywacke rockhead.										

IGSL TP LOG 25758A.GPJ IGSL_GDT 13/5/25

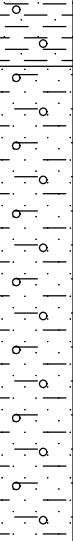
		TRIAL PIT RECORD						REPORT NUMBER 25758	
CONTRACT Mt. Avenue							TRIAL PIT NO. TP19 SHEET Sheet 1 of 1		
LOGGED BY Patrick Ryan		CO-ORDINATES 702,590.90 E 807,923.31 N				DATE STARTED 11/12/2024 DATE COMPLETED 11/12/2024			
CLIENT ENGINEER DBFL Consulting Engineers		GROUND LEVEL (m) 26.75				EXCAVATION METHOD			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly sandy gravelly CLAY. Gravels are subangular to subrounded fine to coarse.		0.30	26.45		AA236768	B	0.50-0.60		
	Firm brown gravelly sandy CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.									
1.0										
2.0	Medium dense brown sandy clayey GRAVEL with medium cobble content angular to subangular. Gravels are subangular to subrounded fine to coarse.		1.80	24.95		AA236769	B	2.00-2.10		
	End of Trial Pit at 2.60m			2.60	24.15	 (Seepage)	AA236770	B	2.60-2.60	
3.0										
4.0										

Groundwater Conditions Incursion at 2.6m										
Stability Slight to moderate instability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated at 2.6m on refusal of weathered greywacke rockhead.										

IGSL TP LOG 25758A.GPJ IGSL.GDT 13/5/25

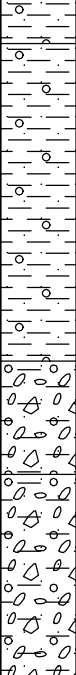
		TRIAL PIT RECORD						REPORT NUMBER 25758	
CONTRACT Mt. Avenue							TRIAL PIT NO. TP20 SHEET Sheet 1 of 1		
LOGGED BY Patrick Ryan		CO-ORDINATES 702,689.80 E 807,990.60 N				DATE STARTED 09/12/2024 DATE COMPLETED 09/12/2024			
CLIENT ENGINEER DBFL Consulting Engineers		GROUND LEVEL (m) 33.82				EXCAVATION METHOD			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly sandy gravelly CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		0.30	33.52						
	Medium dense brown slightly clayey gravelly SAND with medium cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.					AA245769	B	0.60-0.70		
1.0										
2.0										
	End of Trial Pit at 2.40m		2.40	31.42		AA245770	B	2.30-2.40		
3.0										
4.0										

Groundwater Conditions	
Stability Poor stability	
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated at 2.4m on refusal of weathered greywacke rockhead.	

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		TRIAL PIT RECORD						REPORT NUMBER 25758	
CONTRACT Mt. Avenue							TRIAL PIT NO. TP21 SHEET Sheet 1 of 1		
LOGGED BY Patrick Ryan		CO-ORDINATES 702,756.62 E 808,041.94 N				DATE STARTED 06/12/2024 DATE COMPLETED 06/12/2024			
CLIENT ENGINEER DBFL Consulting Engineers		GROUND LEVEL (m) 28.10				EXCAVATION METHOD			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly sandy gravelly CLAY. Gravels are subangular to subrounded fine to coarse.		0.20	27.90	 (Seepage)	AA245763	B	0.50-0.60		
1.0	Stiff slightly gravelly slightly sandy CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		1.60	26.50		AA245764	B	1.70-1.80		
2.0	Medium dense grey slightly clayey sandy GRAVEL with medium cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		2.10	26.00						
3.0	Medium dense grey slightly clayey sandy GRAVEL with medium cobble content subangular to subrounded and medium boulder content rounded to subrounded. Gravels are subangular to subrounded fine to coarse.		3.00	25.10		AA245765	B	2.90-3.00		
	End of Trial Pit at 3.00m									
4.0										

Groundwater Conditions Incursion at 2.3m
Stability Slight to moderate instability
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location.

IGSL TP LOG 25758A.GPJ IGSL_GDT 13/5/25

		TRIAL PIT RECORD						REPORT NUMBER 25758	
CONTRACT Mt. Avenue							TRIAL PIT NO. TP22 SHEET Sheet 1 of 1		
LOGGED BY Patrick Ryan		CO-ORDINATES 702,708.85 E 808,087.33 N				DATE STARTED 10/12/2024 DATE COMPLETED 10/12/2024			
CLIENT ENGINEER DBFL Consulting Engineers		GROUND LEVEL (m) 29.69				EXCAVATION METHOD			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly sandy gravelly CLAY. Gravels are subangular to subrounded fine to coarse.		0.30	29.39		AA245785	B	0.50-0.60		
	Medium dense brown clayey gravelly SAND with medium cobble content subangular to subrounded and low boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.									
1.0			1.40	28.29		AA245786	B	1.60-1.70		
	Medium dense grey clayey sandy GRAVEL with medium cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.									
2.0	End of Trial Pit at 2.40m		2.40	27.29						
3.0										
4.0										

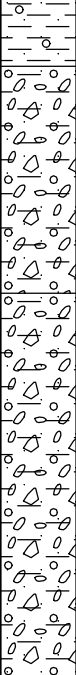
Groundwater Conditions

Stability
 Slight to moderate instability

General Remarks
 CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated at 2.4m on refusal of weathered greywacke rockhead.

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		TRIAL PIT RECORD						REPORT NUMBER 25758	
CONTRACT Mt. Avenue							TRIAL PIT NO. TP23 SHEET Sheet 1 of 1		
LOGGED BY Patrick Ryan		CO-ORDINATES 702,654.45 E 808,027.39 N				DATE STARTED 09/12/2024 DATE COMPLETED 09/12/2024			
CLIENT ENGINEER DBFL Consulting Engineers		GROUND LEVEL (m) 35.16				EXCAVATION METHOD			

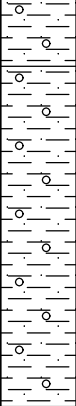
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly sandy slightly gravelly CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		0.30	34.86		AA245771	B	0.50-0.60		
	Medium dense brown slightly clayey very sandy GRAVEL with medium cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.									
1.0										
	Medium dense grey sandy clayey GRAVEL with medium cobble content subangular to subrounded and medium boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		1.30	33.86		AA245772	B	1.40-1.50		
2.0										
						AA245773	B	2.70-2.80		
3.0	End of Trial Pit at 3.00m		3.00	32.16						
4.0										

Groundwater Conditions

Stability
 Poor stability

General Remarks
 CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location.

		TRIAL PIT RECORD						REPORT NUMBER 25758	
CONTRACT Mt. Avenue						TRIAL PIT NO. TP24 SHEET Sheet 1 of 1			
LOGGED BY Patrick Ryan		CO-ORDINATES 702,536.26 E 807,969.63 N				DATE STARTED 12/12/2024 DATE COMPLETED 12/12/2024			
CLIENT ENGINEER DBFL Consulting Engineers		GROUND LEVEL (m) 28.00				EXCAVATION METHOD			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly sandy gravelly CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		0.30	27.70						
	Firm brown gravelly sandy CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.					AA236781	B	0.50-0.60		
1.0										
2.0	Medium dense brown sandy clayey GRAVEL with medium cobble content angular to subangular. Gravels are subangular to subrounded fine to coarse. End of Trial Pit at 1.80m		1.80	26.20	 (Rapid)	AA236782	B	1.80-1.90		
3.0										
4.0										

Groundwater Conditions Incursion at 1.8m										
Stability Slight to moderate instability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated early at 1.8m due to rapid GW strike.										

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		TRIAL PIT RECORD						REPORT NUMBER 25758	
CONTRACT Mt. Avenue							TRIAL PIT NO. TP25 SHEET Sheet 1 of 1		
LOGGED BY Patrick Ryan		CO-ORDINATES 702,503.06 E 807,999.00 N				DATE STARTED 12/12/2024 DATE COMPLETED 12/12/2024			
CLIENT ENGINEER DBFL Consulting Engineers		GROUND LEVEL (m) 29.57				EXCAVATION METHOD			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly sandy gravelly CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		0.30	29.27						
	Medium dense brown clayey gravelly SAND with medium cobble content angular to subrounded and low boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.					AA236788	B	0.50-0.60		
1.0										
	Medium dense grey mottled brown clayey sandy GRAVEL with medium cobble content subangular to subrounded and low boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		1.30	28.27		AA236789	B	1.40-1.50		
2.0										
	Stiff grey mottled brown sandy gravelly SILT with medium cobble content subangular to subrounded and low boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		2.20	27.37		AA236790	B	2.30-2.40		
	Weathered greywacke rockhead.		2.60	26.97	 (Slow)					
	End of Trial Pit at 2.70m		2.70	26.87						
3.0										
4.0										

Groundwater Conditions Incursion at 2.7m
Stability Slight to moderate instability
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated at 2.7m on refusal of weathered greywacke rockhead.

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		TRIAL PIT RECORD						REPORT NUMBER 25758	
CONTRACT Mt. Avenue							TRIAL PIT NO. TP26 SHEET Sheet 1 of 1		
LOGGED BY Patrick Ryan		CO-ORDINATES 702,576.17 E 808,014.69 N				DATE STARTED 12/12/2024 DATE COMPLETED 12/12/2024			
CLIENT ENGINEER DBFL Consulting Engineers		GROUND LEVEL (m) 35.88				EXCAVATION METHOD			

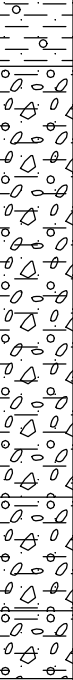
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly sandy gravelly CLAY. Gravels are subangular to subrounded fine to coarse.		0.30	35.58		AA236783	B	0.50-0.60		
	Firm brown gravelly sandy CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.									
1.0			1.90	33.98		AA236784	B	2.10-2.20		
2.0	Dense grey clayey sand GRAVEL with medium cobble content subangular to subrounded and medium boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.									
2.70	End of Trial Pit at 2.70m		2.70	33.18						
3.0										
4.0										

Groundwater Conditions

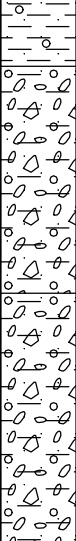
Stability
 Good stability

General Remarks
 CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated at 2.7m on refusal of tightly packed boulders.

IGSL TP LOG 25758A.GPJ IGSL_GDT 13/5/25

		TRIAL PIT RECORD						REPORT NUMBER 25758		
CONTRACT Mt. Avenue							TRIAL PIT NO. TP27			
LOGGED BY Patrick Ryan				CO-ORDINATES 702,618.72 E 808,057.17 N			SHEET Sheet 1 of 1			
CLIENT ENGINEER DBFL Consulting Engineers				GROUND LEVEL (m) 36.02			DATE STARTED 09/12/2024 DATE COMPLETED 09/12/2024			
							EXCAVATION METHOD			
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey sandy slightly gravelly CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		0.30	35.72		AA245774	B	0.50-0.60		
	Medium dense brown clayey sandy GRAVEL with medium cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.									
1.0										
2.0										
	Medium dense slightly sandy clayey GRAVEL with medium cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		2.20	33.82		AA245775	B	2.20-2.30		
	Medium dense slightly sandy very clayey GRAVEL with medium cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		2.70	33.32		AA245776	B	2.80-2.90		
3.0	End of Trial Pit at 3.00m		3.00	33.02						
4.0										
Groundwater Conditions										
Stability Moderate instability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location.										

		TRIAL PIT RECORD						REPORT NUMBER 25758	
CONTRACT Mt. Avenue							TRIAL PIT NO. TP28 SHEET Sheet 1 of 1		
LOGGED BY Patrick Ryan		CO-ORDINATES 702,659.16 E 808,105.42 N				DATE STARTED 10/12/2024 DATE COMPLETED 10/12/2024			
CLIENT ENGINEER DBFL Consulting Engineers		GROUND LEVEL (m) 30.85				EXCAVATION METHOD			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly sandy slightly gravelly CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		0.30	30.55		AA245787	B	0.50-0.60		
	Medium dense grey clayey sandy GRAVEL with medium cobble content with subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.									
1.0			1.30	29.55						
2.0	Medium dense grey clayey sandy GRAVEL ith medium cobble content with subangular to subrounded and medium boulder content subrounded. Gravels are subangular to subrounded fine to coarse.					AA245788	B	2.10-2.20		
		2.40	28.45							
	End of Trial Pit at 2.40m									
3.0										
4.0										

Groundwater Conditions

Stability
 Poor stability

General Remarks
 CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated at 2.4m on refusal of weathered greywacke rockhead.

IGSL TP LOG 25758A.GPJ IGSL_GDT 13/5/25

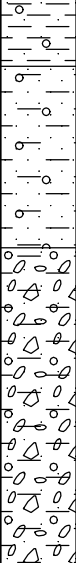
		TRIAL PIT RECORD						REPORT NUMBER 25758	
CONTRACT Mt. Avenue							TRIAL PIT NO. TP29		
LOGGED BY Patrick Ryan							CO-ORDINATES 702,646.10 E 808,172.90 N		
CLIENT ENGINEER DBFL Consulting Engineers							GROUND LEVEL (m) 30.14		
							SHEET Sheet 1 of 1		
							DATE STARTED 10/12/2024 DATE COMPLETED 10/12/2024		
							EXCAVATION METHOD		

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey sandy slightly gravelly CLAY with medium cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		0.30	29.84						
	Medium dense grey clayey sandy GRAVEL with medium cobble content with subangular to subrounded and low boulder content subangular. Gravels are subangular to subrounded fine to coarse.		0.60	29.54		AA245789	B	0.50-0.60		
1.0	Medium dense grey clayey sandy GRAVEL with medium cobble content with subangular to subrounded and medium boulder content angular to subangular. Gravels are subangular to subrounded fine to coarse.									
2.0	End of Trial Pit at 2.00m		2.00	28.14		AA245790	B	1.90-2.00		
3.0										
4.0										

Groundwater Conditions										
Stability Slight to moderate instability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated at 2.0m on refusal of weathered greywacke rockhead.										

IGSL TP LOG 25758A.GPJ IGSL_GDT 13/5/25

		TRIAL PIT RECORD						REPORT NUMBER 25758	
CONTRACT Mt. Avenue							TRIAL PIT NO. TP30 SHEET Sheet 1 of 1		
LOGGED BY Patrick Ryan		CO-ORDINATES 702,620.08 E 808,134.04 N				DATE STARTED 09/12/2024 DATE COMPLETED 09/12/2024			
CLIENT ENGINEER DBFL Consulting Engineers		GROUND LEVEL (m) 31.28				EXCAVATION METHOD			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly sandy slightly gravelly CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		0.30	30.98		AA245783	B	0.50-0.60		
	Medium dense brown clayey gravelly SAND with medium cobble content subangular to subrounded and low boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.									
1.0	Medium dense grey clayey sandy GRAVEL with medium cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		1.10	30.18		AA245784	B	1.20-1.30		
2.0										
	End of Trial Pit at 2.50m		2.50	28.78						
3.0										
4.0										

Groundwater Conditions

Stability
 Slight to moderate instability

General Remarks
 CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated at 2.5m on refusal of weathered greywacke rockhead.

IGSL TP LOG 25758A.GPJ IGSL_GDT 13/5/25

		TRIAL PIT RECORD						REPORT NUMBER 25758	
CONTRACT Mt. Avenue							TRIAL PIT NO. TP31 SHEET Sheet 1 of 1		
LOGGED BY Patrick Ryan		CO-ORDINATES 702,604.28 E 808,100.21 N				DATE STARTED 09/12/2024 DATE COMPLETED 09/12/2024			
CLIENT ENGINEER DBFL Consulting Engineers		GROUND LEVEL (m) 33.68				EXCAVATION METHOD			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly gravelly slightly sandy CLAY. Gravels are subangular to subrounded fine to coarse.									
	Medium dense brown gravelly clayey SAND with low cobble content subangular to subrounded and low boulder content subrounded to rounded. Gravels are subangular to subrounded fine to coarse.		0.30	33.38		AA245780	B	0.50-0.60		
1.0	Firm grey slightly sandy gravelly CLAY with medium cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		1.20	32.48		AA245781	B	1.40-1.50		
2.0	Medium dense grey clayey sandy GRAVEL with medium cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		2.20	31.48		AA245782	B	2.40-2.50		
3.0	End of Trial Pit at 3.00m		3.00	30.68						
4.0										

Groundwater Conditions

Stability
 Slight to moderate instability

General Remarks
 CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location.

IGSL TP LOG 25758A.GPJ IGSL_GDT 13/5/25

		TRIAL PIT RECORD						REPORT NUMBER 25758	
CONTRACT Mt. Avenue							TRIAL PIT NO. TP32 SHEET Sheet 1 of 1		
LOGGED BY Patrick Ryan		CO-ORDINATES 702,537.52 E 808,046.73 N				DATE STARTED 12/12/2024 DATE COMPLETED 12/12/2024			
CLIENT ENGINEER DBFL Consulting Engineers		GROUND LEVEL (m) 36.55				EXCAVATION METHOD			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly sandy gravelly CLAY. Gravels are subangular to subrounded fine to coarse.									
	Medium dense brown clayey gravelly SAND with low cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		0.30	36.25		AA236785	B	0.50-0.60		
1.0	Stiff brown sandy gravelly CLAY with medium cobble content subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		1.10	35.45		AA236786	B	1.40-1.50		
2.0										
	Medium dense grey sandy clayey GRAVEL with medium cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		2.70	33.85	1 ↓ (Seepage)	AA236787	B	2.80-2.90		
3.0	End of Trial Pit at 3.00m		3.00	33.55						
4.0										

Groundwater Conditions Incursion at 2.5m
Stability Slight instability
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location.

IGSL TP LOG 25758A.GPJ IGSL_GDT 13/5/25



TRIAL PIT RECORD

REPORT NUMBER

25758

CONTRACT Mt. Avenue

TRIAL PIT NO. TP34

SHEET Sheet 1 of 1

LOGGED BY Patrick Ryan

CO-ORDINATES 702,598.84 E
808,173.03 N

DATE STARTED 10/12/0204

DATE COMPLETED 10/12/2024

CLIENT
ENGINEER DBFL Consulting Engineers

GROUND LEVEL (m) 30.77

EXCAVATION
METHOD

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly sandy gravelly CLAY. Gravels are subangular to subrounded fine to coarse.		0.30	30.47		AA245791	B	0.50-0.60		
	Medium dense grey clayey sandy GRAVEL with medium cobble content with subangular to subrounded and medium boulder content subangular. Gravels are subangular to subrounded fine to coarse.									
1.0										
2.0										
2.60	End of Trial Pit at 2.60m		2.60	28.17		AA245792	B	2.50-2.60		
3.0										
4.0										

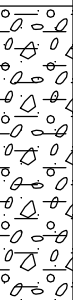
Groundwater Conditions

Stability
Slight instability

General Remarks

CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated at 2.6m on refusal of tightly packed boulders.

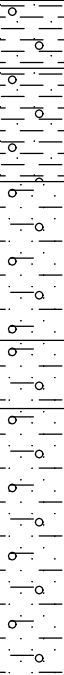
		TRIAL PIT RECORD						REPORT NUMBER 25758	
CONTRACT Mt. Avenue							TRIAL PIT NO. TP35 SHEET Sheet 1 of 1		
LOGGED BY Patrick Ryan		CO-ORDINATES 702,632.59 E 808,228.83 N				DATE STARTED 10/12/2024 DATE COMPLETED 10/12/2024			
CLIENT ENGINEER DBFL Consulting Engineers		GROUND LEVEL (m) 28.32				EXCAVATION METHOD			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly sandy gravelly CLAY. Gravels are subangular to subrounded fine to coarse.									
	Medium dense brown clayey gravelly SAND with medium cobble content angular to subrounded and low boulder content angular to subrounded. Gravels are subangular to subrounded fine to coarse.		0.30	28.02		AA245793	B	0.50-0.60		
1.0	Medium dense grey clayey sandy GRAVEL with medium cobble content with subangular to subrounded and low boulder content subangular. Gravels are subangular to subrounded fine to coarse.		1.00	27.32		AA245794	B	1.20-1.30		
2.0										
	End of Trial Pit at 2.30m		2.30	26.02		AA245795	B	2.20-2.30		
3.0										
4.0										

Groundwater Conditions	
Stability Slight instability	
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated at 2.3m on refusal of weathered greywacke rockhead.	

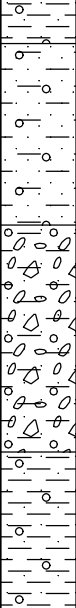
IGSL TP LOG 25758A.GPJ IGSL_GDT 13/5/25

		TRIAL PIT RECORD						REPORT NUMBER 25758	
CONTRACT Mt. Avenue						TRIAL PIT NO. TP36 SHEET Sheet 1 of 1			
LOGGED BY Patrick Ryan		CO-ORDINATES 702,816.85 E 808,027.28 N				DATE STARTED 28/11/2024 DATE COMPLETED 28/11/2024			
CLIENT ENGINEER DBFL Consulting Engineers		GROUND LEVEL (m) 27.01				EXCAVATION METHOD			

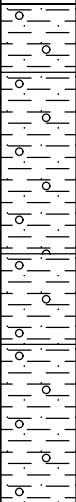
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm brown slightly gravelly slightly sandy CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		0.30	26.71	1 (Moderate)	AA236823	B	0.40-0.50		
	Stiff brown mottled grey slightly gravelly slightly sandy CLAY. Gravels are subangular to subrounded fine to coarse.		0.80	26.21		AA236824	B	0.80-0.90		
1.0	Medium dense grey mottled brown clayey gravelly SAND with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		1.50	25.51		AA236825	B	1.50-1.60		
	Medium dense grey mottled brown clayey gravelly SAND with low cobble content subangular to subrounded and low boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		1.80	25.21						
2.0	Medium dense grey mottled brown clayey gravelly SAND with low cobble content subangular to subrounded and medium boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.									
3.0	End of Trial Pit at 3.00m		3.00	24.01						
4.0										

Groundwater Conditions Incursion at 2.8m										
Stability Moderate instability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location.										

IGSL TP LOG 25758A.GPJ IGSL_GDT 13/5/25

		TRIAL PIT RECORD						REPORT NUMBER 25758		
CONTRACT Mt. Avenue							TRIAL PIT NO. TP37			
LOGGED BY Patrick Ryan				CO-ORDINATES 702,818.12 E 808,026.80 N		SHEET Sheet 1 of 1				
CLIENT ENGINEER DBFL Consulting Engineers				GROUND LEVEL (m) 26.91		DATE STARTED 05/12/2024 DATE COMPLETED 05/12/2024				
							EXCAVATION METHOD			
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly sandy gravelly CLAY. Gravels are subangular to subrounded fine to coarse.		0.20	26.71	 1 (Rapid)	AA235793	B	0.50-0.60		
	Medium dense brown mottled grey slightly gravelly clayey SAND with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		1.00	25.91		AA235794	B	1.50-1.60		
1.0	Medium dense grey mottled brown slightly clayey sandy GRAVEL with low cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		2.00	24.91		AA235795	B	2.10-2.20		
2.0	Firm brown slightly sandy gravelly CLAY with medium cobble content subangular to subrounded and low boulder content subangular to rounded. Gravels are subangular to subrounded fine to coarse.		2.70	24.21						
	End of Trial Pit at 2.70m									
3.0										
4.0										
Groundwater Conditions Incursion at 2.4m										
Stability Poor stability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated at 2.4m due to rapid GW strike and risk of total pit collapse.										

IGSL TP LOG 25758A.GPJ IGSL_GDT 13/5/25

		TRIAL PIT RECORD						REPORT NUMBER 25758		
CONTRACT Mt. Avenue							TRIAL PIT NO. TP38			
LOGGED BY Patrick Ryan				CO-ORDINATES 702,878.58 E 807,970.18 N			SHEET Sheet 1 of 1			
CLIENT ENGINEER DBFL Consulting Engineers				GROUND LEVEL (m) 28.13			DATE STARTED 27/11/2024 DATE COMPLETED 27/11/2024			
							EXCAVATION METHOD			
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly sandy gravelly CLAY. Gravels are subangular to subrounded fine to coarse.		0.30	27.83	1 (Moderate)	AA236811	B	0.50-0.60		
1.0	Stiff brown slightly gravelly slightly sandy CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		1.10	27.03						
	Stiff brown slightly gravelly slightly sandy CLAY with medium cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		1.50	26.63						
2.0	Stiff brown slightly sandy very gravelly CLAY with medium cobble content subangular to subrounded and low boulder content subrounded to rounded. Gravels are subangular to subrounded fine to coarse.		2.20	25.93		AA236812	B	2.00-2.10		
	End of Trial Pit at 2.20m									
3.0										
4.0										

Groundwater Conditions

Stability
Poor stability

General Remarks
CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location.

IGSL TP LOG 25758A.GPJ IGSL_GDT 13/5/25

		TRIAL PIT RECORD						REPORT NUMBER 25758	
CONTRACT Mt. Avenue						TRIAL PIT NO. TP39 SHEET Sheet 1 of 1			
LOGGED BY Patrick Ryan			CO-ORDINATES 702,985.39 E 807,942.42 N			DATE STARTED 27/11/2024 DATE COMPLETED 27/11/2024			
CLIENT ENGINEER DBFL Consulting Engineers			GROUND LEVEL (m) 30.79			EXCAVATION METHOD			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Stiff brown slightly sandy gravelly CLAY with high cobble content subangular to subrounded and high boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		0.70	30.09						
	End of Trial Pit at 0.70m									
1.0										
2.0										
3.0										
4.0										

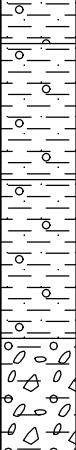
Groundwater Conditions

Stability
 Good stability

General Remarks
 CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated at 0.7m on refusal of limestone rockhead

IGSL TP LOG 25758A.GPJ IGSL_GDT 13/5/25

		TRIAL PIT RECORD						REPORT NUMBER 25758	
CONTRACT Mt. Avenue						TRIAL PIT NO. TP40 SHEET Sheet 1 of 1			
LOGGED BY Patrick Ryan			CO-ORDINATES 702,985.06 E 807,993.76 N			DATE STARTED 27/11/2024 DATE COMPLETED 27/11/2024			
CLIENT ENGINEER DBFL Consulting Engineers			GROUND LEVEL (m) 29.92			EXCAVATION METHOD			

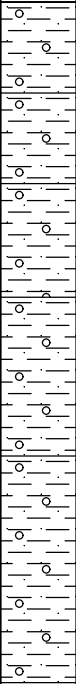
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm brown slightly gravelly slightly sandy CLAY. Gravels are subangular to subrounded fine to coarse.		0.20	29.72						
	Firm brown slightly gravelly slightly sandy CLAY with medium cobble content subangular to subrounded and medium boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.					AA236805	B	0.50-0.60		
	Stiff brown sandy very gravelly CLAY. Gravels are subangular to subrounded fine to coarse.		0.80	29.12						
1.0										
	Sandy clayey GRAVEL with medium cobble content angular to subangular and medium boulder angular to subangular. Gravels are subangular to subrounded fine to coarse.		1.50	28.42		AA236806	B	1.50-1.60		
2.0	End of Trial Pit at 2.00m		2.00	27.92		AA236807	B	2.00-2.00		
3.0										
4.0										

Groundwater Conditions

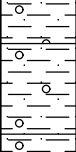
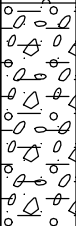
Stability
 Good stability

General Remarks
 CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated at 2.0m on refusal of limestone rockhead

IGSL TP LOG 25758A.GPJ IGSL_GDT 13/5/25

		TRIAL PIT RECORD						REPORT NUMBER 25758		
CONTRACT Mt. Avenue						TRIAL PIT NO. TP41 SHEET Sheet 1 of 1				
LOGGED BY Patrick Ryan		CO-ORDINATES 702,995.18 E 808,048.96 N				DATE STARTED 27/11/2024 DATE COMPLETED 27/11/2024				
CLIENT ENGINEER DBFL Consulting Engineers		GROUND LEVEL (m) 30.81				EXCAVATION METHOD				
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm brown slightly sandy gravelly CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.									
	Stiff brown slightly sandy gravelly CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		0.40	30.41		AA236801	B	0.50-0.60		
	Very stiff brown slightly gravelly very sandy CLAY. Gravels are subangular to subrounded fine to coarse.		0.80	30.01		AA236802	B	1.00-1.10		
1.0	Firm grey mottled brown slightly sandy slightly gravelly CLAY with medium cobble content subangular and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		1.30	29.51						
2.0	Stiff brown sandy gravelly CLAY with medium cobble content subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		2.00	28.81		AA236803	B	2.00-2.10		
3.0	End of Trial Pit at 3.00m		3.00	27.81		AA236804	B	3.00-3.00		
4.0										
Groundwater Conditions										
Stability Moderate instability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location.										

		TRIAL PIT RECORD						REPORT NUMBER 25758	
CONTRACT Mt. Avenue						TRIAL PIT NO. TP42 SHEET Sheet 1 of 1			
LOGGED BY Patrick Ryan			CO-ORDINATES 702,923.40 E 808,087.37 N			DATE STARTED 27/11/2024 DATE COMPLETED 27/11/2024			
CLIENT ENGINEER DBFL Consulting Engineers			GROUND LEVEL (m) 29.19			EXCAVATION METHOD			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm brown slightly sandy gravelly CLAY with medium cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		0.20	28.99						
	Stiff brown slightly sandy gravelly CLAY with medium cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		0.60	28.59		AA236815	B	0.50-0.60		
1.0	Firm brown slightly sandy gravelly CLAY with high cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.					AA236816	B	1.00-1.10		
2.0	Medium dense grey mottled brown slightly clayey slightly sandy GRAVEL with low cobble content subangular and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		2.00	27.19						
						AA236817	B	2.50-2.60		
3.0	End of Trial Pit at 3.00m		3.00	26.19	 (Seepage)					
4.0										

Groundwater Conditions										
Stability Slight instability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location.										



TRIAL PIT RECORD

REPORT NUMBER

25758

CONTRACT Mt. Avenue

TRIAL PIT NO. TP43

SHEET Sheet 1 of 1

LOGGED BY Patrick Ryan

CO-ORDINATES	702,910.53 E 808,000.19 N

DATE STARTED	27/11/2024

DATE COMPLETED 27/11/2024

CLIENT
ENGINEER DBFL Consulting Engineers

GROUND LEVEL (m) 29.05

EXCAVATION METHOD

[illegible]

Groundwater Conditions

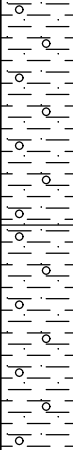
Stability

Stability
Moderate instability

General Remarks	

CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated at 2.0m due to refusal on tightly packed boulders.

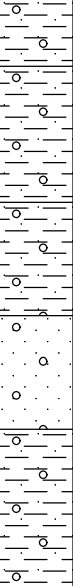
		TRIAL PIT RECORD						REPORT NUMBER 25758	
CONTRACT Mt. Avenue							TRIAL PIT NO. TP44 SHEET Sheet 1 of 1		
LOGGED BY Patrick Ryan		CO-ORDINATES 702,850.32 E 808,004.22 N				DATE STARTED 27/11/2024 DATE COMPLETED 27/11/2024			
CLIENT ENGINEER DBFL Consulting Engineers		GROUND LEVEL (m) 27.33				EXCAVATION METHOD			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Stiff brown slightly gravelly sandy CLAY with low cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.									
1.0	Stiff brown slightly sandy gravelly CLAY with medium cobble content subangular to subrounded and low boulder content subangular. Gravels are subangular to subrounded fine to coarse.		1.00	26.33	 (Moderate)	AA236813	B	0.50-0.60		
2.0	End of Trial Pit at 2.00m		2.00	25.33		AA236814	B	2.00-2.00		
3.0										
4.0										

Groundwater Conditions Incursion at 1.0m										
Stability Moderate instability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated at 2.0m due to moderate GW inflow										

IGSL TP LOG 25758A.GPJ IGSL_GDT 13/5/25

		TRIAL PIT RECORD						REPORT NUMBER 25758	
CONTRACT Mt. Avenue							TRIAL PIT NO. TP45 SHEET Sheet 1 of 1		
LOGGED BY Patrick Ryan		CO-ORDINATES 702,864.29 E 808,055.99 N				DATE STARTED 28/11/2024 DATE COMPLETED 28/11/2024			
CLIENT ENGINEER DBFL Consulting Engineers		GROUND LEVEL (m) 27.00				EXCAVATION METHOD			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm brown slightly gravelly slightly sandy CLAY. Gravels are subangular to subrounded fine to coarse.									
	Stiff brown slightly gravelly sandy CLAY with medium cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		0.30	26.70		AA236818	B	0.50-0.60		
	Firm grey mottled brown slightly gravelly sandy CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		0.90	26.10		AA236819	B	0.90-1.00		
1.0	Medium dense brown gravelly SAND with medium cobble content subrounded with low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		1.40	25.60						
	Stiff brown mottled red slightly sandy slightly gravelly CLAY with medium cobble content sub angular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		1.90	25.10		AA236820	B	1.80-1.90		
2.0	End of Trial Pit at 2.60m		2.60	24.40						
3.0										
4.0										

1

(Moderate)

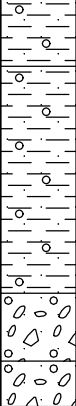
Groundwater Conditions
 Incursion at 2.4m

Stability
 Poor stability

General Remarks
 CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated at 2.6m due to moderate GW strike and poor sidewall stability.

IGSL TP LOG 25758A.GPJ IGSL.GDT 13/5/25

		TRIAL PIT RECORD						REPORT NUMBER 25758	
CONTRACT Mt. Avenue							TRIAL PIT NO. TP46 SHEET Sheet 1 of 1		
LOGGED BY Patrick Ryan		CO-ORDINATES 702,786.02 E 808,108.92 N				DATE STARTED 28/11/2024 DATE COMPLETED 28/11/2024			
CLIENT ENGINEER DBFL Consulting Engineers		GROUND LEVEL (m) 26.75				EXCAVATION METHOD			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm brown slightly gravelly slightly sandy CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		0.30	26.45	1 (Rapid)	AA236821	B	0.60-0.70		
1.0	Stiff brown mottled grey slightly gravelly slightly sandy CLAY. Gravels are subangular to subrounded fine to coarse.									
1.30	Medium dense grey sandy GRAVEL with low cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		1.30	25.45		AA236822	B	1.30-1.40		
1.60			1.60	25.15						
2.0	Medium dense grey sandy GRAVEL with high cobble content subangular to subrounded and medium boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		1.80	24.95						
	End of Trial Pit at 1.80m									
3.0										
4.0										

IGSL TP LOG 25758A.GPJ IGSL_GDT 13/5/25

Groundwater Conditions
 Incursion at 1.4m

Stability
 Moderate instability

General Remarks
 CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated at 1.8m due to refusal on weathered rockhead and rapid ground water strike.

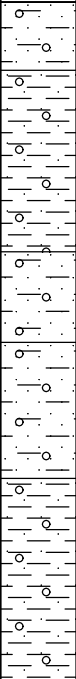
		TRIAL PIT RECORD						REPORT NUMBER 25758	
CONTRACT Mt. Avenue							TRIAL PIT NO. TP47 SHEET Sheet 1 of 1		
LOGGED BY Patrick Ryan		CO-ORDINATES 702,800.05 E 808,173.44 N				DATE STARTED 28/11/2024 DATE COMPLETED 28/11/2024			
CLIENT ENGINEER DBFL Consulting Engineers		GROUND LEVEL (m) 28.23				EXCAVATION METHOD			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)		
						Sample Ref	Type	Depth				
0.0	Firm brown slightly gravelly slightly sandy CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		0.30	27.93	 (Slow)	AA236826	B	0.50-0.60				
	0.70		27.53									
1.0	Firm brown slightly gravelly sandy CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.											
	1.80		26.43									
2.0	Stiff brown sandy gravelly CLAY with medium cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		2.80	25.43								
3.0	Medium dense grey clayey sandy GRAVEL with medium cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse. End of Trial Pit at 3.00m		3.00	25.23								
4.0												

Groundwater Conditions Incursion at 2.8m										
Stability Slight instability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location.										

IGSL TP LOG 25758A.GPJ IGSL_GDT 13/5/25

		TRIAL PIT RECORD						REPORT NUMBER 25758	
CONTRACT Mt. Avenue							TRIAL PIT NO. TP48 SHEET Sheet 1 of 1		
LOGGED BY Patrick Ryan		CO-ORDINATES 702,808.84 E 808,217.03 N				DATE STARTED 28/11/2024 DATE COMPLETED 28/11/2024			
CLIENT ENGINEER DBFL Consulting Engineers		GROUND LEVEL (m) 31.55				EXCAVATION METHOD			

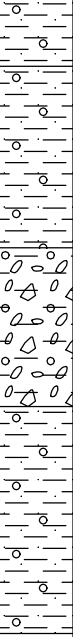
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Medium dense gravelly very clayey SAND. Gravels are subangular to subrounded fine to coarse.									
	Stiff brown slightly gravelly very sandy CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		0.30	31.25		AA236830	B	0.50-0.60		
1.0	Medium dense brown clayey gravelly SAND with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		1.10	30.45						
	Medium dense brown clayey gravelly SAND with medium cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		1.50	30.05						
2.0	Stiff brown slightly sandy gravelly CLAY with low cobble content sub angular to subrounded. Gravels are subangular to subrounded fine to coarse.		2.10	29.45		AA236831	B	1.90-1.80		
3.0	End of Trial Pit at 3.00m		3.00	28.55		AA236832	B	2.90-3.00		
4.0										

Groundwater Conditions

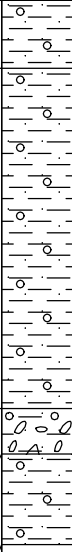
Stability
 Slight instability

General Remarks
 CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location.

IGSL TP LOG 25758A.GPJ IGSL_GDT 13/5/25

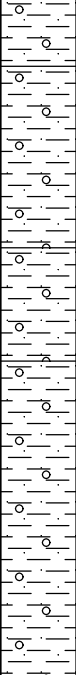
		TRIAL PIT RECORD						REPORT NUMBER 25758		
CONTRACT Mt. Avenue							TRIAL PIT NO. TP49			
LOGGED BY Patrick Ryan				CO-ORDINATES 702,759.30 E 808,222.60 N			SHEET Sheet 1 of 1			
CLIENT ENGINEER DBFL Consulting Engineers				GROUND LEVEL (m) 28.90			DATE STARTED 28/11/2024 DATE COMPLETED 28/11/2024			
							EXCAVATION METHOD			
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm brown slightly gravelly slightly sandy CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		0.30	28.60		AA236833	B	0.50-0.60		
	Stiff brown slightly gravelly sandy CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.									
1.0	Possible MADEGROUND Black clayey GRAVEL with medium cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		1.10	27.80		AA236834	B	1.30-1.40		
	Stiff brown slightly sandy slightly gravelly CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		1.80	27.10						
2.0										
	End of Trial Pit at 2.80m		2.80	26.10		AA236835	B	2.70-2.80		
3.0										
4.0										
Groundwater Conditions										
Stability Poor stability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated at 2.8m due to large sidewall collapse										

		TRIAL PIT RECORD						REPORT NUMBER 25758	
CONTRACT Mt. Avenue							TRIAL PIT NO. TP50 SHEET Sheet 1 of 1		
LOGGED BY Patrick Ryan		CO-ORDINATES 702,701.16 E 808,201.30 N				DATE STARTED 28/11/2024 DATE COMPLETED 28/11/2024			
CLIENT ENGINEER DBFL Consulting Engineers		GROUND LEVEL (m) 26.24				EXCAVATION METHOD			

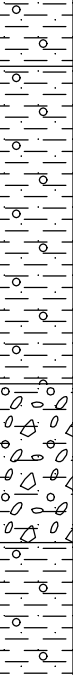
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm brown slightly gravelly slightly sandy CLAY. Gravels are subangular to subrounded fine to coarse.									
	Stiff grey mottled brown slightly sandy slightly gravelly CLAY with medium cobble content subangular to subrounded and low boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		0.30	25.94						
1.0										
	Medium dense grey clayey very sandy GRAVEL with medium cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		1.80	24.44		AA236839	B	0.50-0.60		
2.0	Stiff grey slightly sandy gravelly CLAY with medium cobble content subangular to subrounded and medium boulder content subangular. Gravels are subangular to subrounded fine to coarse.		2.00	24.24		AA236840	B	1.80-1.90		
	End of Trial Pit at 2.40m	2.40	23.84		AA236841	B	2.00-2.10			
3.0										
4.0										

Groundwater Conditions Incursion at 1.8m										
Stability Moderate instability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated at 2.4m due to imminent large sidewall collapse										

IGSL TP LOG 25758A.GPJ IGSL_GDT 13/5/25

		TRIAL PIT RECORD						REPORT NUMBER 25758		
CONTRACT Mt. Avenue							TRIAL PIT NO. TP51			
LOGGED BY Patrick Ryan				CO-ORDINATES 702,724.70 E 808,253.20 N			SHEET Sheet 1 of 1			
CLIENT ENGINEER DBFL Consulting Engineers				GROUND LEVEL (m) 27.72			DATE STARTED 28/11/2024 DATE COMPLETED 28/11/2024			
							EXCAVATION METHOD			
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm brown slightly gravelly slightly sandy CLAY. Gravels are subangular to subrounded fine to coarse.		0.30	27.42		AA236836	B	0.50-0.60		
	Firm brown slightly gravelly slighty sandy CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.									
1.0	Stiff grey slightly sandy gravelly CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		1.10	26.62						
	Stiff grey sandy gravelly CLAY with medium cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		1.60	26.12		AA236837	B	1.70-1.80		
2.0										
3.0	End of Trial Pit at 3.00m		3.00	24.72		AA236838	B	2.90-3.00		
4.0										
Groundwater Conditions										
Stability Poor stability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location.										

		TRIAL PIT RECORD						REPORT NUMBER 25758	
CONTRACT Mt. Avenue							TRIAL PIT NO. TP52 SHEET Sheet 1 of 1		
LOGGED BY Patrick Ryan		CO-ORDINATES 702,661.94 E 808,242.47 N				DATE STARTED 29/11/2024 DATE COMPLETED 29/11/2024			
CLIENT ENGINEER DBFL Consulting Engineers		GROUND LEVEL (m) 25.79				EXCAVATION METHOD			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm brown slightly gravelly slightly sandy CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		0.30	25.49		AA236842	B	0.50-1.60		
1.0	Stiff grey mottled brown slightly sandy slightly gravelly CLAY with medium cobble content subangular to subrounded and low boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.									
2.0	Medium dense grey clayey sandy GRAVEL with medium cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		1.70	24.09		AA236843	B	1.70-1.80		
2.40	Stiff grey mottled brown slightly gravelly sandy CLAY with low cobble content subangular to rounded and low boulder content rounded. Gravels are subangular to subrounded fine to coarse.		2.40	23.39		AA236844	B	2.40-2.50		
3.0	End of Trial Pit at 3.00m		3.00	22.79						
4.0										

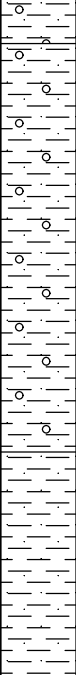
Groundwater Conditions
 Incursion at 2.8m

Stability
 Poor stability

General Remarks
 CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location.

IGSL TP LOG 25758A.GPJ IGSL_GDT 13/5/25

		TRIAL PIT RECORD						REPORT NUMBER 25758	
CONTRACT Mt. Avenue						TRIAL PIT NO. TP53 SHEET Sheet 1 of 1			
LOGGED BY Patrick Ryan			CO-ORDINATES 702,713.86 E 808,327.72 N			DATE STARTED 29/11/2024 DATE COMPLETED 29/11/2024			
CLIENT ENGINEER DBFL Consulting Engineers			GROUND LEVEL (m) 39.26			EXCAVATION METHOD			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm brown slightly gravelly slightly sandy CLAY. Gravels are subangular to subrounded fine to coarse.		0.20	39.06		AA236845	B	0.50-0.60		
1.0	Stiff brown mottled grey slightly sandy slightly gravelly CLAY with low cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.									
2.0	Very stiff brown mottled grey slightly sandy gravelly CLAY with medium cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		2.00	37.26		AA236846	B	2.00-2.10		
3.0	End of Trial Pit at 3.00m		3.00	36.26		AA236847	B	2.90-3.00		
4.0										

Groundwater Conditions

Stability
 Slight instability

General Remarks
 CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location.

IGSL TP LOG 25758A.GPJ IGSL_GDT 13/5/25

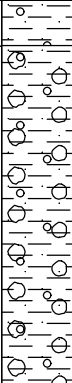
		TRIAL PIT RECORD						REPORT NUMBER 25758	
CONTRACT Mt. Avenue							TRIAL PIT NO. TP54 SHEET Sheet 1 of 1		
LOGGED BY Patrick Ryan				CO-ORDINATES 702,666.98 E 808,319.91 N		DATE STARTED 29/11/2024 DATE COMPLETED 29/11/2024			
CLIENT ENGINEER DBFL Consulting Engineers				GROUND LEVEL (m) 25.52		EXCAVATION METHOD			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	MADEGROUND Firm browb slightly sandy slightly gravelly CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		0.30	25.22						
1.0	Stiff brown mottled red slightly sandy slightly gravelly CLAY with low cobble content sub angular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.					AA236848	B	1.00-1.10		
2.0	Medium dense grey clayey/silty very sandy GRAVEL with medium cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		1.80	23.72		AA236849	B	1.80-1.90		
3.0	Medium dense grey clayey sandy GRAVEL with medium cobble content subangular to subrounded and medium boulder content subangular. Gravels are subangular to subrounded fine to coarse.		2.70	22.82						
	End of Trial Pit at 3.00m		3.00	22.52		AA236850	B	2.90-3.00		
4.0										

Groundwater Conditions	
Stability Moderate instability	
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location.	

IGSL TP LOG 25758A.GPJ IGSL_GDT 13/5/25

		TRIAL PIT RECORD						REPORT NUMBER 25758	
CONTRACT Mt. Avenue							TRIAL PIT NO. TP55		
LOGGED BY Patrick Ryan							CO-ORDINATES 702,609.01 E 808,285.41 N		
CLIENT ENGINEER DBFL Consulting Engineers							GROUND LEVEL (m) 25.58		
							SHEET Sheet 1 of 1		
							DATE STARTED 29/11/2024 DATE COMPLETED 29/11/2024		
							EXCAVATION METHOD		

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm brown slightly gravelly slightly sandy CLAY. Gravels are subangular to subrounded fine to coarse.		0.20	25.38						
	Stiff brown slightly sandy gravelly CLAY with low cobbles subangular to subrounded. Gravels are subangular to subrounded fine to coarse.					AA246801	B	0.40-0.50		
1.0										
	Stiff brown mottled red slightly gravelly slightly sandy CLAY with low cobble content subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		1.70	23.88		AA246802	B	1.90-2.00		
2.0										
	Medium dense grey clayey sandy GRAVEL with low cobble content sub angular to subrounded. Gravels are subangular to subrounded fine to coarse.		2.40	23.18		AA246803	B	2.50-2.60		
3.0	End of Trial Pit at 3.00m		3.00	22.58						
4.0										

Groundwater Conditions	
Stability Slight to moderate instability	
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location.	



TRIAL PIT RECORD

REPORT NUMBER

25758

CONTRACT Mt. Avenue

TRIAL PIT NO.	TP56

SHEET Sheet 1 of 1

LOGGED BY Patrick Ryan

CO-ORDINATES	702,553.34 E 808,321.10 N

DATE STARTED	29/11/2024

DATE COMPLETED 29/11/2024

CLIENT
ENGINEER DBFL Consulting Engineers

GROUND LEVEL (m) 25.46

EXCAVATION METHOD

[illegible]

Groundwater Conditions

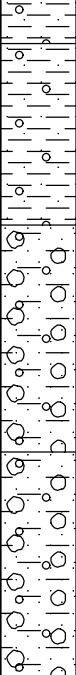
Stability

Stability
Slight instability

General Remarks	

General Remarks
CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location.

		TRIAL PIT RECORD						REPORT NUMBER 25758	
CONTRACT Mt. Avenue							TRIAL PIT NO. TP57 SHEET Sheet 1 of 1		
LOGGED BY Patrick Ryan		CO-ORDINATES 702,630.13 E 808,347.49 N				DATE STARTED 29/11/2024 DATE COMPLETED 29/11/2024			
CLIENT ENGINEER DBFL Consulting Engineers		GROUND LEVEL (m) 24.85				EXCAVATION METHOD			

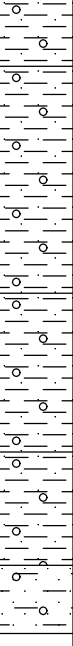
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm brown slightly gravelly slightly sandy CLAY. Gravels are subangular to subrounded fine to coarse.		0.20	24.65						
	Stiff brown slightly gravelly slightly sandy CLAY with medium cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.					AA246807	B	0.50-0.60		
1.0	Medium dense brown slightly clayey gravelly SAND with low cobble content subangular to subrounded and low boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		1.00	23.85		AA246808	B	1.00-1.10		
2.0	Medium dense brown slightly clayey gravelly SAND with medium cobble content subangular to subrounded and low boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		2.00	22.85		AA246809	B	2.00-2.10		
3.0	End of Trial Pit at 3.00m		3.00	21.85						
4.0										

Groundwater Conditions

Stability
 Slight to moderate instability

General Remarks
 CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location.

		TRIAL PIT RECORD						REPORT NUMBER 25758	
CONTRACT Mt. Avenue							TRIAL PIT NO. TP58 SHEET Sheet 1 of 1		
LOGGED BY Patrick Ryan		CO-ORDINATES 702,601.46 E 808,396.78 N				DATE STARTED 02/12/2024 DATE COMPLETED 02/12/2024			
CLIENT ENGINEER DBFL Consulting Engineers		GROUND LEVEL (m) 24.66				EXCAVATION METHOD			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly gravelly slightly sandy CLAY. Gravels are subangular to subrounded fine to coarse.									
	Stiff brown slightly gravelly slightly sandy CLAY with medium cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		0.30	24.36		AA246815	B	0.50-0.60		
1.0										
	Firm grey slightly sandy gravelly CLAY with low cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		1.30	23.36		AA246815	B	1.50-1.60		
2.0										
	Firm grey slightly sandy gravelly CLAY with low cobble content subangular to subrounded and medium boulder content subangular. Gravels are subangular to subrounded fine to coarse.		2.00	22.66						
	Medium dense grey slightly clayey gravelly SAND with medium cobble content subangular to subrounded and medium boulder content subangular. Gravels are subangular to subrounded fine to coarse.		2.50	22.16		AA246815	B	2.40-2.50		
			2.80	21.86						
3.0	End of Trial Pit at 2.80m									
4.0										

Groundwater Conditions	
Stability Slight to moderate instability	
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated at 2.8m due to refusal on weathered Greywacke rockhead	

IGSL TP LOG 25758A.GPJ IGSL_GDT 13/5/25



TRIAL PIT RECORD

REPORT NUMBER

25758

CONTRACT Mt. Avenue

TRIAL PIT NO. TP59

SHEET Sheet 1 of 1

LOGGED BY Patrick Ryan

CO-ORDINATES 702,664.03 E
808,416.98 N

DATE STARTED 29/11/2024

DATE COMPLETED 29/11/2024

CLIENT
ENGINEER DBFL Consulting Engineers

GROUND LEVEL (m) 26.99

EXCAVATION
METHOD

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly gravelly slightly sandy CLAY. Gravels are subangular to subrounded fine to coarse.		0.20	26.79		AA246811	B	0.50-0.60		
	Stiff brown slightly gravelly sandy CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.									
1.0										
	Stiff grey multicoloured black and red slightly gravelly slightly sandy CLAY with low cobble content subangular to rounded. Gravels are subangular to subrounded fine to coarse.		1.30	25.69		AA246812	B	1.30-1.40		
2.0	Medium dense grey slightly clayey gravelly SAND with medium cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		2.10	24.89		AA246813	B	2.10-2.20		
	Firm brown mottled red slightly sandy slightly gravelly CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse. End of Trial Pit at 2.40m		2.30 2.40	24.69 24.59		AA246814	B	2.40-2.40		
3.0										
4.0										

Groundwater Conditions

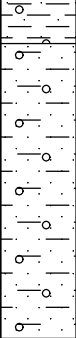
Stability

Moderate instability

General Remarks

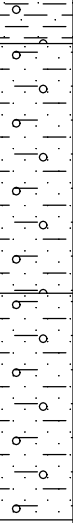
CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated at 2.4m due to refusal on weathered Greywacke rockhead

		TRIAL PIT RECORD						REPORT NUMBER 25758	
CONTRACT Mt. Avenue						TRIAL PIT NO. TP61 SHEET Sheet 1 of 1			
LOGGED BY Patrick Ryan		CO-ORDINATES 702,684.76 E 808,474.21 N				DATE STARTED 04/12/2024 DATE COMPLETED 04/12/2024			
CLIENT ENGINEER DBFL Consulting Engineers		GROUND LEVEL (m) 29.31				EXCAVATION METHOD			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly gravelly slightly sandy CLAY. Gravels are subangular to subrounded fine to coarse.		0.20	29.11						
	Medium dense clayey gravelly SAND with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.					AA235771	B	0.50-0.60		
1.0										
	Stiff grey slightly sandy gravelly CLAY with medium cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		1.50	27.81		AA235772	B	1.80-1.90		
2.0										
	Stiff grey slightly sandy gravelly CLAY with medium cobble content subangular to subrounded and medium boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		2.60	26.71						
3.0	End of Trial Pit at 3.00m		3.00	26.31						
4.0										

Groundwater Conditions										
Stability Good stability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location.										

		TRIAL PIT RECORD						REPORT NUMBER 25758	
CONTRACT Mt. Avenue						TRIAL PIT NO. TP62 SHEET Sheet 1 of 1			
LOGGED BY Patrick Ryan		CO-ORDINATES 702,631.03 E 808,489.69 N				DATE STARTED 05/12/2024 DATE COMPLETED 05/12/2024			
CLIENT ENGINEER DBFL Consulting Engineers		GROUND LEVEL (m) 29.70				EXCAVATION METHOD			

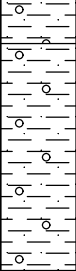
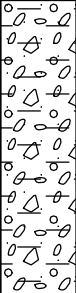
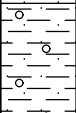
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly gravelly slightly sandy CLAY. Gravels are subangular to subrounded fine to coarse.		0.20	29.50		AA235779	B	0.50-0.60		
	Medium dense brown clayey gravelly SAND with low cobble content subangular to subrounded and low boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.									
1.0										
	Medium dense grey slightly clayey gravelly CLAY with low cobble content subangular to subrounded and low boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		1.30	28.40		AA235780	B	1.50-1.50		
2.0										
	End of Trial Pit at 2.30m		2.30	27.40		AA235781	B	2.20-2.20		
3.0										
4.0										

Groundwater Conditions

Stability
 Slight to moderate instability

General Remarks
 CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated at 2.3m on refusal of either tightly packed Greywacke boulders or weathered Greywacke rockhead

		TRIAL PIT RECORD						REPORT NUMBER 25758	
CONTRACT Mt. Avenue							TRIAL PIT NO. TP63 SHEET Sheet 1 of 1		
LOGGED BY Patrick Ryan		CO-ORDINATES 702,753.75 E 808,499.56 N				DATE STARTED 04/12/2024 DATE COMPLETED 04/12/2024			
CLIENT ENGINEER DBFL Consulting Engineers		GROUND LEVEL (m) 31.33				EXCAVATION METHOD			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly gravelly slightly sandy CLAY. Gravels are subangular to subrounded fine to coarse.		0.20	31.13		AA235768	B	0.50-0.60		
	Stiff brown slightly gravelly sandy CLAY with low cobble content subangular to rounded. Gravels are subangular to subrounded fine to coarse.									
1.0										
	Medium dense grey clayey sandy GRAVEL with medium cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		1.20	30.13		AA235769	B	1.30-1.40		
2.0										
	Stiff grey slightly sandy slightly gravelly CLAY with medium cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		2.50	28.83		AA235770	B	2.70-2.80		
3.0										
	End of Trial Pit at 3.00m		3.00	28.33						
4.0										

Groundwater Conditions

Stability
 Good stability

General Remarks
 CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location.

IGSL TP LOG 25758A.GPJ IGSL_GDT 13/5/25

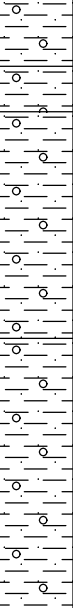
		TRIAL PIT RECORD						REPORT NUMBER 25758	
CONTRACT Mt. Avenue						TRIAL PIT NO. TP64 SHEET Sheet 1 of 1			
LOGGED BY Patrick Ryan			CO-ORDINATES 702,858.39 E 808,467.50 N			DATE STARTED 04/12/2024 DATE COMPLETED 04/12/2024			
CLIENT ENGINEER DBFL Consulting Engineers			GROUND LEVEL (m) 34.42			EXCAVATION METHOD			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly gravelly slightly sandy CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		0.30	34.12		AA235761	B	0.50-0.60		
	Medium dense grey mottled brown clayey sandy GRAVEL with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.									
1.0	Stiff brown slightly gravelly sandy CLAY with medium cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		0.90	33.52		AA235762	B	1.00-1.10		
2.0	Medium dense brown slightly sandy clayey GRAVEL medium cobble content subangular to subrounded and medium boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		2.10	32.32		AA235763	B	2.20-2.30		
3.0	Stiff brown slightly sandy gravelly CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		2.70	31.72		AA235764	B	2.80-2.90		
3.0	End of Trial Pit at 3.00m		3.00	31.42						
4.0										

Groundwater Conditions										
Stability Good stability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location.										

IGSL TP LOG 25758A.GPJ IGSL_GDT 13/5/25

		TRIAL PIT RECORD						REPORT NUMBER 25758	
CONTRACT Mt. Avenue							TRIAL PIT NO. TP65 SHEET Sheet 1 of 1		
LOGGED BY Patrick Ryan		CO-ORDINATES 702,909.50 E 808,506.58 N				DATE STARTED 04/12/2024 DATE COMPLETED 04/12/2024			
CLIENT ENGINEER DBFL Consulting Engineers		GROUND LEVEL (m) 30.02				EXCAVATION METHOD			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly gravelly slightly sandy CLAY. Gravels are subangular to subrounded fine to coarse.									
	Stiff brown slightly sandy slightly gravelly CLAY with low cobble content subangular to subrounded and low boulder content subangular. Gravels are subangular to subrounded fine to coarse.		0.30	29.72						
	Stiff brown slightly sandy slightly gravelly CLAY with medium cobble content subangular to subrounded and medium boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		0.50	29.52	AA235758	B	0.40-0.50			
1.0										
	Firm brown sandy gravelly CLAY with low cobble content subangular to subrounded and low boulder content subangular. Gravels are subangular to subrounded fine to coarse.		1.50	28.52	AA235759	B	1.50-1.60			
2.0										
	End of Trial Pit at 2.70m		2.70	27.32		AA235760	B	2.60-2.70		
3.0										
4.0										

Groundwater Conditions										
Stability Good stability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated at 2.7m on refusal of tightly packed Greywacke boulders.										

IGSL TP LOG 25758A.GPJ IGSL_GDT 13/5/25



TRIAL PIT RECORD

REPORT NUMBER

25758

CONTRACT Mt. Avenue

TRIAL PIT NO.	TP66

SHEET Sheet 1 of 1

LOGGED BY Patrick Ryan

CO-ORDINATES	702,813.38 E 808,519.98 N

DATE STARTED	04/12/2024

DATE COMPLETED 04/12/2024

CLIENT
ENGINEER DBFL Consulting Engineers

GROUND LEVEL (m) 29.98

EXCAVATION METHOD

[illegible][illegible]

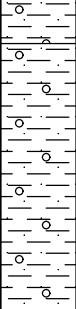
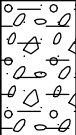
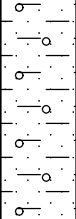
Stability

Stability
Moderate instability

General Remarks	

General Remarks
CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location.

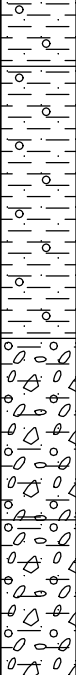
		TRIAL PIT RECORD						REPORT NUMBER 25758	
CONTRACT Mt. Avenue							TRIAL PIT NO. TP67 SHEET Sheet 1 of 1		
LOGGED BY Patrick Ryan		CO-ORDINATES 702,705.36 E 808,545.78 N				DATE STARTED 04/12/2024 DATE COMPLETED 04/12/2024			
CLIENT ENGINEER DBFL Consulting Engineers		GROUND LEVEL (m) 31.13				EXCAVATION METHOD			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly gravelly slightly sandy CLAY. Gravels are subangular to subrounded fine to coarse.		0.20	30.93		AA235773	B	0.50-0.60		
	Stiff brown slightly gravelly sandy CLAY with low cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.									
1.0										
	Medium dense slightly clayey sandy GRAVEL with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		1.40	29.73		AA235774	B	1.60-1.70		
2.0										
	Medium dense brown slightly clayey gravelly SAND with medium cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		2.00	29.13		AA235775	B	2.10-2.20		
3.0										
	End of Trial Pit at 3.00m		3.00	28.13						
4.0										

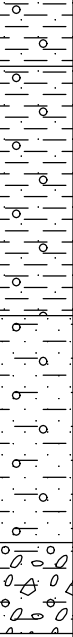
Groundwater Conditions

Stability
 Slight to moderate instability

General Remarks
 CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location.

		TRIAL PIT RECORD						REPORT NUMBER 25758		
CONTRACT Mt. Avenue						TRIAL PIT NO. TP68 SHEET Sheet 1 of 1				
LOGGED BY Patrick Ryan		CO-ORDINATES 702,647.52 E 808,520.52 N				DATE STARTED 04/12/2024 DATE COMPLETED 04/12/2024				
CLIENT ENGINEER DBFL Consulting Engineers		GROUND LEVEL (m) 30.49				EXCAVATION METHOD				
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly gravelly slightly sandy CLAY. Gravels are subangular to subrounded fine to coarse.		0.30	30.19		AA235776	B	0.50-0.60		
1.0	Stiff brown slightly gravelly sandy CLAY with medium cobble content subangular to subrounded and low boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.									
2.0	Medium dense grey slightly clayey sandy GRAVEL with low cobble content subangular to subrounded and low boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		1.50	28.99		AA235777	B	1.80-1.90		
3.0	Medium dense grey slightly clayey sandy GRAVEL with medium cobble content subangular to subrounded and low boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		2.30	28.19		AA235778	B	2.80-3.00		
4.0	End of Trial Pit at 3.00m		3.00	27.49						
Groundwater Conditions										
Stability Good stability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location.										

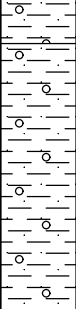
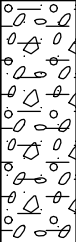
		TRIAL PIT RECORD						REPORT NUMBER 25758	
CONTRACT Mt. Avenue							TRIAL PIT NO. TP69 SHEET Sheet 1 of 1		
LOGGED BY Patrick Ryan		CO-ORDINATES 702,658.77 E 808,556.37 N				DATE STARTED 05/12/2024 DATE COMPLETED 05/12/2024			
CLIENT ENGINEER DBFL Consulting Engineers		GROUND LEVEL (m) 30.75				EXCAVATION METHOD			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly gravelly slightly sandy CLAY. Gravels are subangular to subrounded fine to coarse.		0.30	30.45		AA235782	B	0.50-0.60		
	Stiff brown sandy gravelly CLAY with low cobble content subangular and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.									
1.0										
	Medium dense brown slighty clayey gravelly SAND with low cobble content subangular to subrounded and low boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		1.40	29.35						
2.0										
	Medium dense brown slightly clayey sandy GRAVEL with medium cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.	2.40	28.35		AA235784	B	2.50-2.60			
	End of Trial Pit at 2.80m	2.80	27.95							
3.0										
4.0										

Groundwater Conditions										
Stability Slight instability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated at 2.8m on refusal of tightly packed Greywacke boulders										

IGSL TP LOG 25758A.GPJ IGSL_GDT 13/5/25

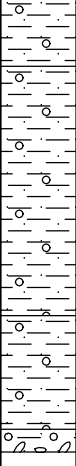
		TRIAL PIT RECORD						REPORT NUMBER 25758	
CONTRACT Mt. Avenue							TRIAL PIT NO. TP70 SHEET Sheet 1 of 1		
LOGGED BY Patrick Ryan		CO-ORDINATES 702,647.59 E 808,595.20 N				DATE STARTED 05/12/2024 DATE COMPLETED 05/12/2024			
CLIENT ENGINEER DBFL Consulting Engineers		GROUND LEVEL (m) 29.16				EXCAVATION METHOD			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly gravelly slightly sandy CLAY. Gravels are subangular to subrounded fine to coarse.		0.20	28.96		AA235785	B	0.50-0.60		
	Stiff brown sandy gravelly CLAY with medium cobble content subangular to subrounded and low boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.									
1.0										
	Medium dense slightly clayey sandy GRAVEL with medium cobble content subangular to subrounded and low boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		1.40	27.76		AA235786	B	1.50-1.60		
2.0										
	Medium dense grey slightly clayey gravelly SAND with medium cobble content subangular to subrounded and low boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		2.50	26.66			AA235787	B		
2.80	End of Trial Pit at 2.80m			26.36						
3.0										
4.0										

Groundwater Conditions										
Stability Slight instability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated at 2.8m on refusal of tightly packed Greywacke boulders										

IGSL TP LOG 25758A.GPJ IGSL_GDT 13/5/25

		TRIAL PIT RECORD						REPORT NUMBER 25758	
CONTRACT Mt. Avenue							TRIAL PIT NO. TP72 SHEET Sheet 1 of 1		
LOGGED BY Patrick Ryan		CO-ORDINATES 702,612.66 E 808,607.01 N				DATE STARTED 05/12/2024 DATE COMPLETED 05/12/2024			
CLIENT ENGINEER DBFL Consulting Engineers		GROUND LEVEL (m) 28.63				EXCAVATION METHOD			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly gravelly slightly sandy CLAY. Gravels are subangular to subrounded fine to coarse.		0.30	28.33		AA235790	B	0.50-0.60		
	Firm brown slightly sandy gravelly CLAY with low cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.									
1.0			1.40	27.23		AA235791	B	1.50-1.60		
	Stiff brown slightly gravelly slightly sandy CLAY with medium cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.									
2.0	Medium dense grey slightly clayey sandy GRAVEL with medium cobble content subangular to subrounded and medium boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse. End of Trial Pit at 2.00m		1.90 2.00	26.73 26.63	AA235792	B	1.90-2.00			
3.0										
4.0										

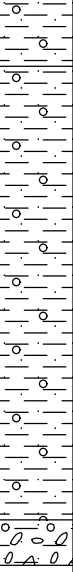
Groundwater Conditions

Stability
 Poor stability

General Remarks
 CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated at 2.0m on refusal of Greywacke boulders

IGSL TP LOG 25758A.GPJ IGSL.GDT 13/5/25

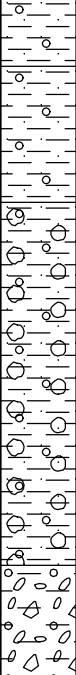
		TRIAL PIT RECORD						REPORT NUMBER 25758	
CONTRACT Mt. Avenue							TRIAL PIT NO. TP73 SHEET Sheet 1 of 1		
LOGGED BY Patrick Ryan		CO-ORDINATES 702,550.70 E 808,568.18 N				DATE STARTED 03/12/2024 DATE COMPLETED 03/12/2024			
CLIENT ENGINEER DBFL Consulting Engineers		GROUND LEVEL (m) 25.22				EXCAVATION METHOD			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly gravelly slightly sandy CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		0.30	24.92						
	Stiff brown slightly sandy gravelly CLAY with medium cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.					AA246848	B	0.50-0.60		
1.0										
							AA246849	B	1.50-1.60	
2.0										
	Medium desne grey slightly clayey sandy GRAVEL with medium cobble content angular to subangular and medium boulder content angular to subangular. Gravels are subangular to subrounded fine to coarse.		2.30	22.92						
	End of Trial Pit at 2.50m		2.50	22.72		AA246850	B	2.40-2.50		
3.0										
4.0										

Groundwater Conditions										
Stability Moderate instability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated at 2.3m on refusal of weathered Greywacke rockhead										

IGSL TP LOG 25758A.GPJ IGSL_GDT 13/5/25

		TRIAL PIT RECORD						REPORT NUMBER 25758	
CONTRACT Mt. Avenue							TRIAL PIT NO. TP74 SHEET Sheet 1 of 1		
LOGGED BY Patrick Ryan		CO-ORDINATES 702,571.73 E 808,506.71 N				DATE STARTED 03/12/2024 DATE COMPLETED 03/12/2024			
CLIENT ENGINEER DBFL Consulting Engineers		GROUND LEVEL (m) 26.39				EXCAVATION METHOD			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly gravelly slightly sandy CLAY. Gravels are subangular to subrounded fine to coarse.									
	Stiff brown slightly gravelly sandy CLAY with low cobble content angular to subangular. Gravels are subangular to subrounded fine to coarse.		0.30	26.09		AA235755	B	0.50-0.60		
1.0	Stiff brown mottled black slightly sandy gravelly CLAY with medium cobbles angular to subangular and low boulder content angular to subangular. Gravels are subangular to subrounded fine to coarse.		0.90	25.49		AA235756	B	1.20-1.30		
2.0										
	Medium dense grey slightly clayey GRAVEL with medium cobble content subangular to subrounded and medium boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		2.50	23.89		AA235757	B	2.60-2.70		
3.0	End of Trial Pit at 3.00m		3.00	23.39						
4.0										

Groundwater Conditions

Stability
 Poor stability

General Remarks
 CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location.

IGSL TP LOG 25758A.GPJ IGSL.GDT 13/5/25

		TRIAL PIT RECORD						REPORT NUMBER 25758	
CONTRACT Mt. Avenue							TRIAL PIT NO. TP75		
LOGGED BY Patrick Ryan							SHEET Sheet 1 of 1		
CO-ORDINATES 702,514.97 E 808,502.77 N							DATE STARTED 03/12/2024 DATE COMPLETED 03/12/2024		
GROUND LEVEL (m) 23.97							EXCAVATION METHOD		
CLIENT ENGINEER DBFL Consulting Engineers									

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly gravelly slightly sandy CLAY. Gravels are subangular to subrounded fine to coarse.									
	Firm brown mottled grey slightly gravelly slightly sandy SILT with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		0.30	23.67		AA235751	B	0.50-0.60		
1.0										
	Stiff grey slightly sandy gravelly CLAY with medium cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		1.70	22.27		AA235752	B	1.80-1.90		
2.0	Medium dense grey clayey gravelly SAND with medium cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		2.00	21.97		AA235753	B	2.10-2.20		
	Medium dense grey slightly clayey sandy GRAVEL with medium cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		2.80	21.17		AA235754	B	2.80-2.90		
3.0	End of Trial Pit at 3.00m		3.00	20.97						
4.0										

Groundwater Conditions	
Stability Good stability	
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location.	

IGSL TP LOG 25758A.GPJ IGSL_GDT 13/5/25

		TRIAL PIT RECORD						REPORT NUMBER 25758	
CONTRACT Mt. Avenue						TRIAL PIT NO. TP76 SHEET Sheet 1 of 1			
LOGGED BY Patrick Ryan		CO-ORDINATES 702,553.25 E 808,470.59 N				DATE STARTED 02/12/2024 DATE COMPLETED 02/12/2024			
CLIENT ENGINEER DBFL Consulting Engineers		GROUND LEVEL (m) 25.15				EXCAVATION METHOD			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly gravelly slightly sandy CLAY. Gravels are subangular to subrounded fine to coarse.		0.30	24.85		AA246821	B	0.50-0.60		
	Stiff brown slightly gravelly slightly sandy CLAY with low cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.									
1.0			1.50	23.65		AA246822	B	1.50-1.60		
	Medium dense brown slightly gravelly SAND with medium cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.									
2.0	Medium dense grey slightly clayey sandy GRAVEL with medium cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		2.10	23.05		AA246823	B	2.10-2.20		
	End of Trial Pit at 2.30m									
2.30				22.85						
3.0										
4.0										

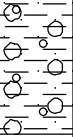
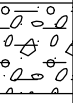
Groundwater Conditions

Stability
 Slight instability

General Remarks
 CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated at 2.3m on refusal of weathered Greywacke rockhead

IGSL TP LOG 25758A.GPJ IGSL_GDT 13/5/25

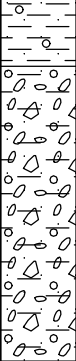
		TRIAL PIT RECORD						REPORT NUMBER 25758	
CONTRACT Mt. Avenue							TRIAL PIT NO. TP77 SHEET Sheet 1 of 1		
LOGGED BY Patrick Ryan		CO-ORDINATES 702,535.53 E 808,376.63 N				DATE STARTED 02/12/2024 DATE COMPLETED 02/12/2024			
CLIENT ENGINEER DBFL Consulting Engineers		GROUND LEVEL (m) 23.61				EXCAVATION METHOD			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	MADEGROUND Firm brown slightly gravelly slightly sandy CLAY with low cobble content cobbles subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		0.60	23.01		AA246824	B	0.40-0.50		
	Stiff grey slightly sandy CLAY. Gravels are subangular to subrounded fine to coarse.					AA246825	B	0.70-0.80		
1.0			2.00	21.61	 (Rapid)	AA246826	B	2.20-2.30		
2.0	Firm grey slightly sandy slightly clayey GRAVEL with medium cobble content angular to subangular and low boulder content subangular. Gravels are subangular to subrounded fine to coarse.									
	End of Trial Pit at 2.40m		2.40	21.21						
3.0										
4.0										

Groundwater Conditions Incursion at 2.2m										
Stability Moderate instability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated at 2.2m due to rapid ground water strike										

IGSL TP LOG 25758A.GPJ IGSL_GDT 13/5/25

		TRIAL PIT RECORD						REPORT NUMBER 25758	
CONTRACT Mt. Avenue							TRIAL PIT NO. TP78 SHEET Sheet 1 of 1		
LOGGED BY Patrick Ryan		CO-ORDINATES 702,493.06 E 808,345.78 N				DATE STARTED 02/12/2024 DATE COMPLETED 02/12/2024			
CLIENT ENGINEER DBFL Consulting Engineers		GROUND LEVEL (m) 25.69				EXCAVATION METHOD			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly gravelly slightly sandy CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		0.30	25.39						
	Medium dense grey slightly clayey slightly sandy GRAVEL with medium cobble content angular to subangular and medium boulder content angular to subangular. Gravels are subangular to subrounded fine to coarse.					AA246827	B	0.50-0.60		
1.0										
	End of Trial Pit at 1.60m		1.60	24.09		AA246828	B	1.50-1.60		
2.0										
3.0										
4.0										

Groundwater Conditions

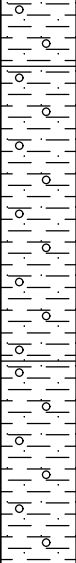
Stability
 Slight instability

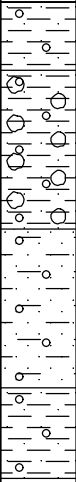
General Remarks
 CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated at 1.6m on refusal of weathered Greywacke rockhead

IGSL TP LOG 25758A.GPJ IGSL_GDT 13/5/25

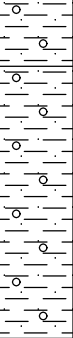
	TRIAL PIT RECORD							REPORT NUMBER 25758		
CONTRACT Mt. Avenue						TRIAL PIT NO. TP79				
LOGGED BY Patrick Ryan						SHEET Sheet 1 of 1				
						DATE STARTED 02/12/2024 DATE COMPLETED 02/12/2024				
CLIENT ENGINEER DBFL Consulting Engineers						CO-ORDINATES 702,494.05 E 808,406.78 N				
						GROUND LEVEL (m) 23.43				
						EXCAVATION METHOD				
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Sample Ref	Type	Depth	Vane Test (KPa)	Hand Penetrometer (KPa)
0.0	Firm grey slightly gravelly slightly sandy CLAY. Gravels are subangular to subrounded fine to coarse.									
	Stiff brown slightly gravelly sandy CLAY with low cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		0.50	22.93		AA246829	B	0.60-0.70		
1.0										
	Firm grey sandy gravelly CLAY with low cobble content subangular to subrounded and low boulder content subangular. Gravels are subangular to subrounded fine to coarse.		1.60	21.83		AA246830	B	1.70-1.80		
2.0	End of Trial Pit at 2.40m		2.40	21.03						
3.0										
4.0										
Groundwater Conditions Incursion at 2.3m										
Stability Slight to moderate instability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated at 2.3m due to rapid ground water strike										

IGSL TP LOG 25758A.GPJ IGSL_GDT 13/5/25

		TRIAL PIT RECORD						REPORT NUMBER 25758		
CONTRACT Mt. Avenue							TRIAL PIT NO. TP80			
LOGGED BY Patrick Ryan				CO-ORDINATES 702,459.88 E 808,403.99 N			SHEET Sheet 1 of 1			
CLIENT ENGINEER DBFL Consulting Engineers				GROUND LEVEL (m) 23.79			DATE STARTED 02/12/2024 DATE COMPLETED 02/12/2024			
							EXCAVATION METHOD			
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly gravelly slightly sandy CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		0.30	23.49		AA246831	B	0.50-0.60		
1.0	Stiff brown slightly gravelly sandy CLAY with low cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.									
1.60	Stiff light grey mottled yellow slightly sandy gravelly CLAY.		1.60	22.19		AA246832	B	1.60-1.70		
2.0			2.50	21.29	 (Rapid)					
2.50	End of Trial Pit at 2.50m									
3.0										
4.0										
Groundwater Conditions Incursion at 2.5m										
Stability Slight to moderate instability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated at 2.5m due to rapid ground water strike										

 TRIAL PIT RECORD REPORT NUMBER 25758										
CONTRACT Mt. Avenue						TRIAL PIT NO. TP81				
LOGGED BY Patrick Ryan				CO-ORDINATES 702,383.42 E 808,402.89 N		SHEET Sheet 1 of 1				
CLIENT ENGINEER DBFL Consulting Engineers				GROUND LEVEL (m) 25.34		DATE STARTED 02/12/2024 DATE COMPLETED 02/12/2024				
EXCAVATION METHOD										
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly gravelly slightly sandy CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		0.30	25.04						
	Stiff brown slightly gravelly sandy CLAY with low cobbles subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		1.00	24.34						
1.0	Medium dense grey slightly clayey gravelly SAND with medium cobble content subangular subrounded and low boulder content angular to subangular. Gravels are subangular to subrounded fine to coarse.		1.70	23.64						
2.0	Firm brown slightly sandy gravelly CLAY with high cobble content subangular subrounded and medium boulder content angular to subangular. Gravels are subangular to subrounded fine to coarse.		2.10	23.24						
	End of Trial Pit at 2.10m									
3.0										
4.0										
Groundwater Conditions										
Stability Moderate instability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated at 2.1m on refusal of weathered Greywacke rockhead										

		TRIAL PIT RECORD						REPORT NUMBER 25758	
CONTRACT Mt. Avenue							TRIAL PIT NO. TP82 SHEET Sheet 1 of 1		
LOGGED BY Patrick Ryan		CO-ORDINATES 702,393.85 E 808,435.78 N				DATE STARTED 03/12/2024 DATE COMPLETED 03/12/2024			
CLIENT ENGINEER DBFL Consulting Engineers		GROUND LEVEL (m) 24.55				EXCAVATION METHOD			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly gravelly slightly sandy CLAY. Gravels are subangular to subrounded fine to coarse.		0.30	24.25		AA246836	B	0.50-0.60		
	Firm brown slightly gravelly slightly sandy CLAY with low cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.									
1.0			1.50	23.05		AA246837	B	1.70-1.80		
	Firm grey mottled yellow slightly sandy slightly clayey SILT.									
2.0	Medium dense multicoloured grey yellow black slightly gravelly slightly clayey SAND with low cobble content subangular to subrounded and low boulder content subangular. Gravels are subangular to subrounded fine to coarse.		2.00	22.55	AA246838	B	2.10-2.20			
3.0	End of Trial Pit at 3.00m		3.00	21.55						
4.0										

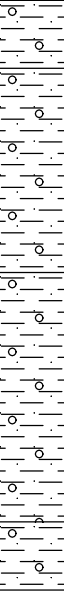
Groundwater Conditions

Stability
 Poor stability

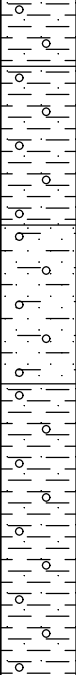
General Remarks
 CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location.

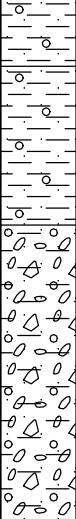
IGSL TP LOG 25758A.GPJ IGSL_GDT 13/5/25

		TRIAL PIT RECORD						REPORT NUMBER 25758	
CONTRACT Mt. Avenue							TRIAL PIT NO. TP83 SHEET Sheet 1 of 1		
LOGGED BY Patrick Ryan		CO-ORDINATES 702,431.39 E 808,460.88 N				DATE STARTED 03/12/2024 DATE COMPLETED 03/12/2024			
CLIENT ENGINEER DBFL Consulting Engineers		GROUND LEVEL (m) 23.51				EXCAVATION METHOD			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly gravelly slightly sandy CLAY. Gravels are subangular to subrounded fine to coarse.		0.30	23.21	 (Rapid)	AA246842	B	0.50-0.60		
1.0	Firm brown slightly gravelly slightly sandy CLAY with low cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		1.20	22.31						
2.0	Firm grey slightly gravelly sandy CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		2.30	21.21						
2.60	Firm grey slightly gravelly sandy CLAY with low cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		2.60	20.91						
End of Trial Pit at 2.60m										
Groundwater Conditions Incursion at 2.3m										
Stability Slight to moderate instability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated at 2.6m due to rapid ground water strike										

IGSL TP LOG 25758A.GPJ IGSL_GDT 13/5/25

		TRIAL PIT RECORD						REPORT NUMBER 25758		
CONTRACT Mt. Avenue							TRIAL PIT NO. TP84			
LOGGED BY Patrick Ryan				CO-ORDINATES 702,388.76 E 808,479.78 N			SHEET Sheet 1 of 1			
CLIENT ENGINEER DBFL Consulting Engineers				GROUND LEVEL (m) 23.84			DATE STARTED 03/12/2024 DATE COMPLETED 03/12/2024			
							EXCAVATION METHOD			
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly gravelly slightly sandy CLAY. Gravels are subangular to subrounded fine to coarse.									
	Firm brown slightly sandy gravelly CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		0.30	23.54		AA246839	B	0.50-0.60		
1.0	Medium dense grey slightly clayey gravelly SAND with low cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		1.00	22.84		AA246840	B	1.20-1.30		
	Stif grey slightly sandy gravelly CLAY with low cobble content subangular to subrounded and low boulder content rounded to subrounded. Gravels are subangular to subrounded fine to coarse.		1.70	22.14		AA246841	B	1.80-1.90		
2.0										
3.0	End of Trial Pit at 3.00m		3.00	20.84	 (Slow)					
4.0										
Groundwater Conditions Incursion at 3.0m										
Stability Poor stability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location.										

		TRIAL PIT RECORD						REPORT NUMBER 25758		
CONTRACT Mt. Avenue							TRIAL PIT NO. TP85			
LOGGED BY Patrick Ryan				CO-ORDINATES 702,479.89 E 808,529.16 N			SHEET Sheet 1 of 1			
CLIENT ENGINEER DBFL Consulting Engineers				GROUND LEVEL (m) 23.24			DATE STARTED 03/12/2024 DATE COMPLETED 03/12/2024			
							EXCAVATION METHOD			
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly gravelly slightly sandy CLAY. Gravels are subangular to subrounded fine to medium.		0.30	22.94	 (Moderate)	AA246844	B	0.50-0.60		
	Stiff brown gravelly slightly sandy CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		1.00	22.24						
1.0	Medium dense grey clayey sandy GRAVEL with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.					AA246845	B	1.50-1.60		
2.0	End of Trial Pit at 2.30m		2.30	20.94						
3.0										
4.0										

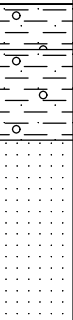
Groundwater Conditions
 Incursion at 2.0m

Stability
 Poor stability

General Remarks
 CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated at 2.3m due to rapid ground water strike and refusal on weathered Greywacke rockhead

IGSL TP LOG 25758A.GPJ IGSL_GDT 13/5/25

		TRIAL PIT RECORD						REPORT NUMBER 25758	
CONTRACT Mt. Avenue						TRIAL PIT NO. TP86 SHEET Sheet 1 of 1			
LOGGED BY Patrick Ryan			CO-ORDINATES 702,503.91 E 808,590.22 N			DATE STARTED 03/12/2024 DATE COMPLETED 03/12/2024			
CLIENT ENGINEER DBFL Consulting Engineers			GROUND LEVEL (m) 23.85			EXCAVATION METHOD			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly gravelly slightly sandy CLAY. Gravels are subangular to subrounded fine to medium. Stiff brown slightly sandy gravelly CLAY wih high cobble content angular to subangular and medium boulder content angular to subangular. Gravels are subangular to subrounded fine to coarse. Weathered greywacke rockhead.		0.20	23.65						
			0.60	23.25		AA246846	B	0.30-0.40		
1.0										
	End of Trial Pit at 1.40m		1.40	22.45		AA246847	B	1.40-1.50		
2.0										
3.0										
4.0										

Groundwater Conditions										
Stability Slight instability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location.										

Project Number: 25758



TP01

Photo 1/2



Photo 2/2



Project Number: 25758



TP02

Photo 1/2



Photo 2/2



Project Number: 25758



TP03

Photo 1/2



Photo 2/2



Project Number: 25758



TP04

Photo 1/2



Photo 2/2



Project Number: 25758



TP05

Photo 1/2



Photo 2/2



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TP06

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TP07

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TP08

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TP09

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TP10

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TP12

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TP23

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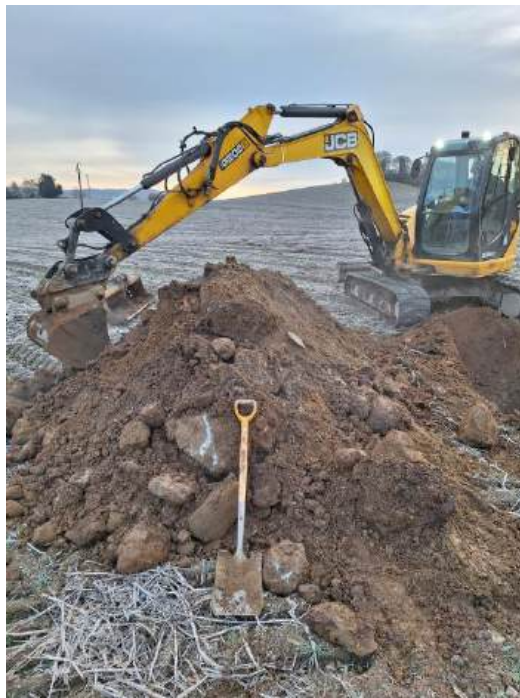


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Appendix 2

Borehole Logs and Groundwater Monitoring Data



GEOTECHNICAL BORING RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth				BOREHOLE NO. BH01	
CO-ORDINATES 702,784.34 E 807,820.73 N		RIG TYPE Dando 2000		SHEET Sheet 1 of 1	
GROUND LEVEL (m AOD) 26.73		BOREHOLE DIAMETER (mm)		DATE COMMENCED 15/01/2025	
		BOREHOLE DEPTH (m) 2.80		DATE COMPLETED 15/01/2025	
CLIENT Adwood Ltd		SPT HAMMER REF. NO.		BORED BY P.Allan	
ENGINEER DBFL		ENERGY RATIO (%)		PROCESSED BY F.C	

Depth (m)	Description	Legend	Elevation	Depth (m)	Samples				Field Test Results	Standpipe Details
					Ref. Number	Sample Type	Depth (m)	Recovery		
0	TOPSOIL		26.53	0.20						
	Stiff to very stiff brown slightly sandy SILT/CLAY with some gravel				AA255611	B	0.50			
1					AA255612	B	1.00		N = 33 (6, 8, 8, 9, 6, 10)	
2					AA255613	B	2.00		N = 50 (11, 11, 18, 15, 12, 5)	
			23.93	2.80					N = 50/75 mm (25, 50)	
3	Obstruction End of Borehole at 2.80 m									
4										
5										
6										
7										
8										
9										

HARD STRATA BORING/CHISELLING				WATER STRIKE DETAILS					
From (m)	To (m)	Time (h)	Comments	Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
0.6	0.8	1							
2.6	2.8	1.5							No water strike
INSTALLATION DETAILS				GROUNDWATER PROGRESS					
Date	Tip Depth	RZ Top	RZ Base	Type	Date	Hole Depth	Casing Depth	Depth to Water	Comments
REMARKS CAT scanned location and hand dug inspection pit was carried out .				Sample Legend D - Small Disturbed (tub) B - Bulk Disturbed LB - Large Bulk Disturbed Env - Environmental Sample (Jar + Vial + Tub) UT - Undisturbed 100mm Diameter Sample P - Undisturbed Piston Sample W - Water Sample					

IGSL BH LOG 25758B.GPJ IGSL.GDT 13/5/25

		GEOTECHNICAL BORING RECORD						REPORT NUMBER 25758	
CONTRACT Mount Avenue , Dundalk Co.Louth							BOREHOLE NO. BH02		
CO-ORDINATES 702,842.75 E 807,930.23 N				RIG TYPE Dando 2000			SHEET Sheet 1 of 1		
GROUND LEVEL (m AOD) 26.24				BOREHOLE DIAMETER (mm) BOREHOLE DEPTH (m) 2.80			DATE COMMENCED 15/01/2025 DATE COMPLETED 15/01/2025		
CLIENT Adwood Ltd ENGINEER DBFL				SPT HAMMER REF. NO. ENERGY RATIO (%)			BORED BY P.Allan PROCESSED BY F.C		

Depth (m)	Description	Legend	Elevation	Depth (m)	Samples				Field Test Results	Standpipe Details
					Ref. Number	Sample Type	Depth (m)	Recovery		
0	TOPSOIL		26.04	0.20						
	Brown sandy SILT/CLAY		25.44	0.80	AA233609	B	0.50		N = 25 (2, 2, 3, 6, 8, 8)	
1	Medium dense to dense brown clayey, sandy, GRAVEL with some cobbles.				AA233610	B	1.00			
2					AA233611	B	2.00			
3	Obstruction End of Borehole at 2.80 m		23.44	2.80					N = 27 (3, 7, 5, 5, 8, 9)	
4										
5										
6										
7										
8										
9										

HARD STRATA BORING/CHISELLING				WATER STRIKE DETAILS					
From (m)	To (m)	Time (h)	Comments	Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
2.6	2.8	1.5							No water strike

INSTALLATION DETAILS					GROUNDWATER PROGRESS				
Date	Tip Depth	RZ Top	RZ Base	Type	Date	Hole Depth	Casing Depth	Depth to Water	Comments

REMARKS CAT scanned location and hand dug inspection pit was carried out .					Sample Legend D - Small Disturbed (tub) B - Bulk Disturbed LB - Large Bulk Disturbed Env - Environmental Sample (Jar + Vial + Tub)					UT - Undisturbed 100mm Diameter Sample P - Undisturbed Piston Sample W - Water Sample				

IGSL BH LOG 25758B.GPJ IGSL.GDT 13/5/25

		GEOTECHNICAL BORING RECORD						REPORT NUMBER 25758	
CONTRACT Mount Avenue , Dundalk Co.Louth							BOREHOLE NO. BH03		
CO-ORDINATES 702,889.32 E 808,029.86 N GROUND LEVEL (m AOD) 28.00				RIG TYPE Dando 2000 BOREHOLE DIAMETER (mm) BOREHOLE DEPTH (m) 2.90			SHEET Sheet 1 of 1 DATE COMMENCED 07/01/2025 DATE COMPLETED 07/01/2025		
CLIENT Adwood Ltd ENGINEER DBFL				SPT HAMMER REF. NO. ENERGY RATIO (%)			BORED BY P.Allan PROCESSED BY F.C		

Depth (m)	Description	Legend	Elevation	Depth (m)	Samples				Field Test Results	Standpipe Details
					Ref. Number	Sample Type	Depth (m)	Recovery		
0	TOPSOIL		27.70	0.30						
	Stiff brown sandy SILT/CLAY with occasional gravel				AA241990	B	0.50			
1	Stiff to very stiff brown slightly sandy gravelly CLAY with occasional cobbles		27.00	1.00	AA241991	B	1.00		N = 22 (2, 3, 6, 6, 4, 6)	
2					AA241992	B	2.00		N = 26 (4, 5, 6, 4, 6, 10)	
3	Obstruction End of Borehole at 2.90 m		25.10	2.90					N = 50/225 mm (13, 13, 16, 20, 14)	
4										
5										
6										
7										
8										
9										

HARD STRATA BORING/CHISELLING				WATER STRIKE DETAILS					
From (m)	To (m)	Time (h)	Comments	Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
1.7	1.8	1		2.50	2.50	No	1.80	20	Slow
2.6	2.9	1.5							

INSTALLATION DETAILS					GROUNDWATER PROGRESS				
Date	Tip Depth	RZ Top	RZ Base	Type	Date	Hole Depth	Casing Depth	Depth to Water	Comments

REMARKS CAT scanned location and hand dug inspection pit was carried out .					Sample Legend D - Small Disturbed (tub) B - Bulk Disturbed LB - Large Bulk Disturbed Env - Environmental Sample (Jar + Vial + Tub) UT - Undisturbed 100mm Diameter Sample P - Undisturbed Piston Sample W - Water Sample				

IGSL BH LOG 25758B.GPJ IGSL.GDT 13/5/25



GEOTECHNICAL BORING RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

BOREHOLE NO. BH04

SHEET Sheet 1 of 1

CO-ORDINATES 702,840.72 E
808,124.67 N
GROUND LEVEL (m AOD) 27.03

RIG TYPE Dando 2000
BOREHOLE DIAMETER (mm)
BOREHOLE DEPTH (m) 3.70

DATE COMMENCED 07/01/2025
DATE COMPLETED 08/01/2025

CLIENT Adwood Ltd
ENGINEER DBFL

SPT HAMMER REF. NO.
ENERGY RATIO (%)

BORED BY P.Allan
PROCESSED BY F.C

Depth (m)	Description	Legend	Elevation	Depth (m)	Samples				Field Test Results	Standpipe Details
					Ref. Number	Sample Type	Depth (m)	Recovery		
0	TOPSOIL		26.73	0.30	AA241993	B	0.50			
	Soft brown sandy SILT with occasional gravel									
1	Stiff to very stiff brown sandy gravelly CLAY with occasional cobbles		26.03	1.00	AA241994	B	1.00		N = 10 (2, 2, 3, 2, 2, 3) N = 26 (2, 3, 5, 5, 8, 8) N = 50/150 mm (10, 15, 25, 25) N = 50/75 mm (25, 50)	
2					AA241995	U	2.00			
						B	2.00			
3	Obstruction End of Borehole at 3.70 m		23.33	3.70						
4										
5										
6										
7										
8										
9										

HARD STRATA BORING/CHISELLING

WATER STRIKE DETAILS

From (m)	To (m)	Time (h)	Comments	Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
2.8	3	1		3.70	3.70	No	3.50	20	Slow
3.5	3.7	1.5							

GROUNDWATER PROGRESS

INSTALLATION DETAILS					Date	Hole Depth	Casing Depth	Depth to Water	Comments
Date	Tip Depth	RZ Top	RZ Base	Type					

REMARKS CAT scanned location and hand dug inspection pit was carried out .

Sample Legend

D - Small Disturbed (tub)
B - Bulk Disturbed
LB - Large Bulk Disturbed
Env - Environmental Sample (Jar + Vial + Tub)

UT - Undisturbed 100mm Diameter Sample
P - Undisturbed Piston Sample
W - Water Sample

IGSL BH LOG 25758B.GPJ IGSL.GDT 13/5/25



GEOTECHNICAL BORING RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth				BOREHOLE NO. BH06	
CO-ORDINATES 702,536.08 E 807,989.06 N		RIG TYPE Dando 2000		SHEET Sheet 1 of 1	
GROUND LEVEL (m AOD) 29.67		BOREHOLE DIAMETER (mm)		DATE COMMENCED 16/01/2025	
		BOREHOLE DEPTH (m) 1.20		DATE COMPLETED 16/01/2025	
CLIENT Adwood Ltd		SPT HAMMER REF. NO.		BORED BY P.Allan	
ENGINEER DBFL		ENERGY RATIO (%)		PROCESSED BY F.C	

Depth (m)	Description	Legend	Elevation	Depth (m)	Samples				Field Test Results	Standpipe Details
					Ref. Number	Sample Type	Depth (m)	Recovery		
0	TOPSOIL		29.37	0.30	AA233614	B	1.00		N = 50/75 mm (25, 25, 50) N = 50/75 mm (25, 50)	
	Dense brown clayey very sandy GRAVEL with frequent cobbles									
1	Obstruction End of Borehole at 1.20 m		28.47	1.20						
2										
3										
4										
5										
6										
7										
8										
9										

HARD STRATA BORING/CHISELLING				WATER STRIKE DETAILS					
From (m)	To (m)	Time (h)	Comments	Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
1	1.2	1							No water strike
INSTALLATION DETAILS				GROUNDWATER PROGRESS					
Date	Tip Depth	RZ Top	RZ Base	Type	Date	Hole Depth	Casing Depth	Depth to Water	Comments
REMARKS CAT scanned location and hand dug inspection pit was carried out . Obstruction encountered . Moved to BH06A and attempted rebore.				Sample Legend D - Small Disturbed (tub) B - Bulk Disturbed LB - Large Bulk Disturbed Env - Environmental Sample (Jar + Vial + Tub) UT - Undisturbed 100mm Diameter Sample P - Undisturbed Piston Sample W - Water Sample					

IGSL BH LOG 25758B.GPJ IGSL.GDT 13/5/25



GEOTECHNICAL BORING RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth				BOREHOLE NO. BH06A	
CO-ORDINATES		RIG TYPE Dando 2000		SHEET Sheet 1 of 1	
GROUND LEVEL (m AOD)		BOREHOLE DIAMETER (mm)		DATE COMMENCED 16/01/2025	
		BOREHOLE DEPTH (m) 1.50		DATE COMPLETED 16/01/2025	
CLIENT Adwood Ltd		SPT HAMMER REF. NO.		BORED BY P.Allan	
ENGINEER DBFL		ENERGY RATIO (%)		PROCESSED BY F.C	

Depth (m)	Description	Legend	Elevation	Depth (m)	Samples				Field Test Results	Standpipe Details
					Ref. Number	Sample Type	Depth (m)	Recovery		
0	TOPSOIL			0.30	AA233615	B	1.00		N = 50/75 mm (25, 50)	
	Very stiff brown sandy SILT/CLAY with gravel and occasional cobbles									
1				1.50						
	Obstruction End of Borehole at 1.50 m									
2										
3										
4										
5										
6										
7										
8										
9										

HARD STRATA BORING/CHISELLING				WATER STRIKE DETAILS					
From (m)	To (m)	Time (h)	Comments	Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
1.3	1.5	1							No water strike
INSTALLATION DETAILS				GROUNDWATER PROGRESS					
Date	Tip Depth	RZ Top	RZ Base	Type	Date	Hole Depth	Casing Depth	Depth to Water	Comments
REMARKS CAT scanned location and hand dug inspection pit was carried out .				Sample Legend D - Small Disturbed (tub) B - Bulk Disturbed LB - Large Bulk Disturbed Env - Environmental Sample (Jar + Vial + Tub) UT - Undisturbed 100mm Diameter Sample P - Undisturbed Piston Sample W - Water Sample					

IGSL BH LOG 25758B.GPJ IGSL.GDT 13/5/25



GEOTECHNICAL BORING RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

BOREHOLE NO. BH07

SHEET Sheet 1 of 1

CO-ORDINATES 702,736.21 E
808,232.43 N
GROUND LEVEL (m AOD) 27.29RIG TYPE Dando 2000
BOREHOLE DIAMETER (mm)
BOREHOLE DEPTH (m) 3.70DATE COMMENCED 08/01/2025
DATE COMPLETED 08/01/2025CLIENT Adwood Ltd
ENGINEER DBFLSPT HAMMER REF. NO.
ENERGY RATIO (%)BORED BY P.Allan
PROCESSED BY F.C

Depth (m)	Description	Legend	Elevation	Depth (m)	Samples				Field Test Results	Standpipe Details
					Ref. Number	Sample Type	Depth (m)	Recovery		
0	TOPSOIL		26.99	0.30						
	Soft to firm brown sandy CLAY with occasional gravel				AA244190	B	0.50			
1			26.09	1.20	AA244191 Fail	B U	1.00 1.00		N = 10 (1, 2, 1, 5, 2, 2)	
2	Stiff to very stiff brown slightly sandy gravelly CLAY with occasional cobbles				AA244192	B	2.00		N = 25 (2, 3, 3, 6, 8, 8)	
3									N = 50/150 mm (7, 10, 22, 28)	
4	Obstruction End of Borehole at 3.70 m		23.59	3.70					N = 50/75 mm (25, 50)	
5										
6										
7										
8										
9										

HARD STRATA BORING/CHISELLING

WATER STRIKE DETAILS

From (m)	To (m)	Time (h)	Comments	Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
2.7	2.9	0.75							
3.5	3.7	1.5							No water strike

GROUNDWATER PROGRESS

INSTALLATION DETAILS

Date	Tip Depth	RZ Top	RZ Base	Type	Date	Hole Depth	Casing Depth	Depth to Water	Comments

REMARKS CAT scanned location and hand dug inspection pit was carried out .

Sample Legend

D - Small Disturbed (tub)
B - Bulk Disturbed
LB - Large Bulk Disturbed
Env - Environmental Sample (Jar + Vial + Tub)UT - Undisturbed 100mm Diameter Sample
P - Undisturbed Piston Sample
W - Water Sample



GEOTECHNICAL BORING RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

BOREHOLE NO. BH08

SHEET Sheet 1 of 1

CO-ORDINATES 702,680.95 E
808,273.60 N
GROUND LEVEL (m AOD) 34.89RIG TYPE Dando 2000
BOREHOLE DIAMETER (mm)
BOREHOLE DEPTH (m) 3.20DATE COMMENCED 08/01/2025
DATE COMPLETED 09/01/2025CLIENT Adwood Ltd
ENGINEER DBFLSPT HAMMER REF. NO.
ENERGY RATIO (%)BORED BY P.Allan
PROCESSED BY F.C

Depth (m)	Description	Legend	Elevation	Depth (m)	Samples				Field Test Results	Standpipe Details
					Ref. Number	Sample Type	Depth (m)	Recovery		
0	TOPSOIL		34.59	0.30						
	Soft to firm brown sandy CLAY with occasional gravel				AA244193	B	0.50		N = 22 (3, 6, 5, 4, 6, 7)	
1					AA244194	B	1.00			
	Dense grey clayey sandy GRAVEL with frequent cobbles		33.59	1.30						
2					AA244195	B	2.00		N = 33 (5, 7, 8, 10, 7, 8)	
3									N = 50/150 mm (20, 5, 40, 10) N = 50/75 mm (25, 50)	
	Obstruction End of Borehole at 3.20 m		31.69	3.20						
4										
5										
6										
7										
8										
9										

HARD STRATA BORING/CHISELLING

WATER STRIKE DETAILS

From (m)	To (m)	Time (h)	Comments	Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
3	3.2	1.5		2.00	2.00	No	1.00	20	Moderate

GROUNDWATER PROGRESS

INSTALLATION DETAILS					Date	Hole Depth	Casing Depth	Depth to Water	Comments
Date	Tip Depth	RZ Top	RZ Base	Type					
09-01-25	3.20	1.00	3.20	50mm SP					

REMARKS CAT scanned location and hand dug inspection pit was carried out .

Sample Legend

D - Small Disturbed (tub)
B - Bulk Disturbed
LB - Large Bulk Disturbed
Env - Environmental Sample (Jar + Vial + Tub)UT - Undisturbed 100mm Diameter Sample
P - Undisturbed Piston Sample
W - Water Sample

		GEOTECHNICAL BORING RECORD						REPORT NUMBER 25758	
CONTRACT Mount Avenue , Dundalk Co.Louth							BOREHOLE NO. BH09 SHEET Sheet 1 of 1		
CO-ORDINATES 702,563.03 E 808,338.62 N			RIG TYPE Dando 2000 BOREHOLE DIAMETER (mm) BOREHOLE DEPTH (m) 4.70			DATE COMMENCED 09/01/2025 DATE COMPLETED 09/01/2025			
GROUND LEVEL (m AOD) 24.45									
CLIENT Adwood Ltd ENGINEER DBFL			SPT HAMMER REF. NO. ENERGY RATIO (%)			BORED BY P.Allan PROCESSED BY F.C			

Depth (m)	Description	Legend	Elevation	Depth (m)	Samples				Field Test Results	Standpipe Details
					Ref. Number	Sample Type	Depth (m)	Recovery		
0	TOPSOIL		24.25	0.20						
	Stiff brown sandy SILT/CLAY				AA244196	B	0.50			
1			23.25	1.20	AA244197	B	1.00		N = 7 (1, 1, 2, 1, 2, 2)	
	Medium dense brown clayey very sandy GRAVEL				AA244198	B	2.00		N = 4 (1, 0, 1, 1, 0, 2)	
2					AA244199	B	3.00		N = 20 (3, 2, 1, 1, 8, 10)	
3			21.15	3.30						
	Stiff to very stiff brown sandy gravelly CLAY with occasional cobbles				AA244200	B	4.00		N = 50/225 mm (8, 12, 15, 20, 15)	
4			19.75	4.70					N = 50/75 mm (25, 50)	
5	Obstruction End of Borehole at 4.70 m									
6										
7										
8										
9										

HARD STRATA BORING/CHISELLING				WATER STRIKE DETAILS					
From (m)	To (m)	Time (h)	Comments	Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
3.5	3.8	1		3.70	3.70	No	3.40	20	Slow
4.5	4.7	1.5							

INSTALLATION DETAILS					GROUNDWATER PROGRESS				
Date	Tip Depth	RZ Top	RZ Base	Type	Date	Hole Depth	Casing Depth	Depth to Water	Comments

REMARKS CAT scanned location and hand dug inspection pit was carried out .					Sample Legend D - Small Disturbed (tub) B - Bulk Disturbed LB - Large Bulk Disturbed Env - Environmental Sample (Jar + Vial + Tub) UT - Undisturbed 100mm Diameter Sample P - Undisturbed Piston Sample W - Water Sample				

IGSL BH LOG 25758B.GPJ IGSL.GDT 13/5/25



GEOTECHNICAL BORING RECORD

REPORT NUMBER

25758

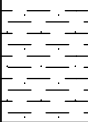
CONTRACT Mount Avenue , Dundalk Co.Louth				BOREHOLE NO. BH12	
CO-ORDINATES 702,728.86 E 808,523.10 N		RIG TYPE Dando 2000		SHEET Sheet 1 of 1	
GROUND LEVEL (m AOD) 30.90		BOREHOLE DIAMETER (mm)		DATE COMMENCED 14/01/2025	
		BOREHOLE DEPTH (m) 3.80		DATE COMPLETED 14/01/2025	
CLIENT Adwood Ltd		SPT HAMMER REF. NO.		BORED BY P.Allan	
ENGINEER DBFL		ENERGY RATIO (%)		PROCESSED BY F.C	

Depth (m)	Description	Legend	Elevation	Depth (m)	Samples				Field Test Results	Standpipe Details
					Ref. Number	Sample Type	Depth (m)	Recovery		
0	TOPSOIL		30.70	0.20						
	Soft brown sandy CLAY				AA233604	B	0.50			
1			29.70	1.20	AA233605	B	1.00		N = 6 (1, 0, 1, 1, 2, 2)	
2	Stiff to very stiff brown slightly sandy gravelly SILT with occasional cobbles				AA233606	U B	2.00 2.00	100%rec	N = 31 (2, 3, 10, 11, 4, 6)	
3					AA233607	B	3.00		N = 49 (6, 8, 9, 10, 15, 15)	
4	Obstruction End of Borehole at 3.80 m		27.10	3.80					N = 50/75 mm (25, 50)	
5										
6										
7										
8										
9										

HARD STRATA BORING/CHISELLING				WATER STRIKE DETAILS					
From (m)	To (m)	Time (h)	Comments	Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
3.6	3.8	1.5							No water strike
INSTALLATION DETAILS				GROUNDWATER PROGRESS					
Date	Tip Depth	RZ Top	RZ Base	Type	Date	Hole Depth	Casing Depth	Depth to Water	Comments
REMARKS CAT scanned location and hand dug inspection pit was carried out .				Sample Legend D - Small Disturbed (tub) B - Bulk Disturbed LB - Large Bulk Disturbed Env - Environmental Sample (Jar + Vial + Tub) UT - Undisturbed 100mm Diameter Sample P - Undisturbed Piston Sample W - Water Sample					

IGSL BH LOG 25758B.GPJ IGSL.GDT 13/5/25

 GEOTECHNICAL BORING RECORD										REPORT NUMBER 25758	
CONTRACT Mount Avenue , Dundalk Co.Louth								BOREHOLE NO. BH14			
CO-ORDINATES 702,440.69 E 808,382.72 N GROUND LEVEL (m AOD) 24.40				RIG TYPE Dando 2000 BOREHOLE DIAMETER (mm) BOREHOLE DEPTH (m) 3.80		SHEET Sheet 1 of 1 DATE COMMENCED 09/01/2025 DATE COMPLETED 10/01/2025					
CLIENT Adwood Ltd ENGINEER DBFL				SPT HAMMER REF. NO. ENERGY RATIO (%)		BORED BY P.Allan PROCESSED BY F.C					

Depth (m)	Description	Legend	Elevation	Depth (m)	Samples				Field Test Results	Standpipe Details
					Ref. Number	Sample Type	Depth (m)	Recovery		
0	TOPSOIL		24.10	0.30						
	Soft brown sandy gravelly CLAY				AA244196	B	0.50		N = 6 (1, 0, 1, 1, 2, 2) N = 28 (3, 6, 8, 10, 4, 6) N = 23 (2, 3, 5, 6, 6, 6) N = 50/75 mm (25, 50)	
1					AA244197	B	1.00			
	Medium dense brown clayey very sandy GRAVEL		23.00	1.40						
2					AA244198	B	2.00			
3					AA244199	B	3.00			
4	Obstruction End of Borehole at 3.80 m		20.60	3.80						
5										
6										
7										
8										
9										

HARD STRATA BORING/CHISELLING				WATER STRIKE DETAILS					
From (m)	To (m)	Time (h)	Comments	Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
2.9	3	0.75		3.40	3.40	No	2.50	20	Moderate
3.6	3.8	1.5							

INSTALLATION DETAILS					GROUNDWATER PROGRESS				
Date	Tip Depth	RZ Top	RZ Base	Type	Date	Hole Depth	Casing Depth	Depth to Water	Comments
					10-01-24	3.80	Nil	2.50	End of BH

REMARKS CAT scanned location and hand dug inspection pit was carried out .					Sample Legend D - Small Disturbed (tub) B - Bulk Disturbed LB - Large Bulk Disturbed Env - Environmental Sample (Jar + Vial + Tub) UT - Undisturbed 100mm Diameter Sample P - Undisturbed Piston Sample W - Water Sample				

IGSL BH LOG 25758B.GPJ IGSL.GDT 13/5/25



GEOTECHNICAL BORING RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth				BOREHOLE NO. BH15	
CO-ORDINATES 702,409.54 E 808,549.84 N		RIG TYPE Dando 2000		SHEET Sheet 1 of 1	
GROUND LEVEL (m AOD) 23.25		BOREHOLE DIAMETER (mm)		DATE COMMENCED 10/01/2025	
		BOREHOLE DEPTH (m) 0.80		DATE COMPLETED 10/01/2025	
CLIENT Adwood Ltd		SPT HAMMER REF. NO.		BORED BY P.Allan	
ENGINEER DBFL		ENERGY RATIO (%)		PROCESSED BY F.C	

Depth (m)	Description	Legend	Elevation	Depth (m)	Samples				Field Test Results	Standpipe Details
					Ref. Number	Sample Type	Depth (m)	Recovery		
0	TOPSOIL		22.95	0.30	AA241709	B	0.50		N = 50/75 mm (25, 50)	
	Very stiff brown sandy gravelly SILT/CLAY with occasional cobbles		22.45	0.80						
1	Obstruction End of Borehole at 0.80 m									
2										
3										
4										
5										
6										
7										
8										
9										

HARD STRATA BORING/CHISELLING				WATER STRIKE DETAILS					
From (m)	To (m)	Time (h)	Comments	Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
0.8	0.8	1							No water strike
INSTALLATION DETAILS				GROUNDWATER PROGRESS					
Date	Tip Depth	RZ Top	RZ Base	Type	Date	Hole Depth	Casing Depth	Depth to Water	Comments
REMARKS CAT scanned location and hand dug inspection pit was carried out . Obstruction encountered . Moved to BH15A and attempted rebore.				Sample Legend D - Small Disturbed (tub) B - Bulk Disturbed LB - Large Bulk Disturbed Env - Environmental Sample (Jar + Vial + Tub) UT - Undisturbed 100mm Diameter Sample P - Undisturbed Piston Sample W - Water Sample					

IGSL BH LOG 25758B.GPJ IGSL.GDT 13/5/25



GEOTECHNICAL BORING RECORD

REPORT NUMBER

25758

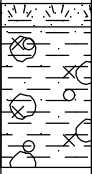
CONTRACT Mount Avenue , Dundalk Co.Louth				BOREHOLE NO. BH15A	
CO-ORDINATES		RIG TYPE Dando 2000		SHEET Sheet 1 of 1	
GROUND LEVEL (m AOD)		BOREHOLE DIAMETER (mm)		DATE COMMENCED 13/01/2025	
		BOREHOLE DEPTH (m) 3.30		DATE COMPLETED 13/01/2025	
CLIENT Adwood Ltd		SPT HAMMER REF. NO.		BORED BY P.Allan	
ENGINEER DBFL		ENERGY RATIO (%)		PROCESSED BY F.C	

Depth (m)	Description	Legend	Elevation	Depth (m)	Samples				Field Test Results	Standpipe Details
					Ref. Number	Sample Type	Depth (m)	Recovery		
0	TOPSOIL			0.30						
	Stiff to very stiff brown sandy gravelly SILT with occasional cobbles				AA233601	B	0.50		N = 50/150 mm (6, 8, 20, 30)	
1					AA233602	B	1.00			
2					AA233603	B	2.00			
	Dense brown clayey very sandy GRAVEL			2.50					N = 26 (2, 3, 4, 6, 8, 8)	
3					AA233604	B	3.00			
	Obstruction End of Borehole at 3.30 m			3.50					N = 50/150 mm (8, 12, 20, 30) N = 50/75 mm (25, 50)	
4										
5										
6										
7										
8										
9										

HARD STRATA BORING/CHISELLING					WATER STRIKE DETAILS					
From (m)	To (m)	Time (h)	Comments		Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
1.2 3	1.4 3.3	1 1.5								No water strike
					GROUNDWATER PROGRESS					
INSTALLATION DETAILS					Date	Hole Depth	Casing Depth	Depth to Water	Comments	
Date	Tip Depth	RZ Top	RZ Base	Type						
REMARKS						CAT scanned location and hand dug inspection pit was carried out .				
						Sample Legend D - Small Disturbed (tub) B - Bulk Disturbed LB - Large Bulk Disturbed Env - Environmental Sample (Jar + Vial + Tub) UT - Undisturbed 100mm Diameter Sample P - Undisturbed Piston Sample W - Water Sample				

IGSL BH LOG 25758B.GPJ IGSL.GDT 13/5/25

		GEOTECHNICAL BORING RECORD						REPORT NUMBER 25758	
CONTRACT Mount Avenue , Dundalk Co.Louth							BOREHOLE NO. BH16		
CO-ORDINATES				RIG TYPE Dando 2000			SHEET Sheet 1 of 1		
GROUND LEVEL (m AOD)				BOREHOLE DIAMETER (mm)			DATE COMMENCED 13/01/2025		
BOREHOLE DEPTH (m) 1.40				DATE COMPLETED 13/01/2025					
CLIENT Adwood Ltd ENGINEER DBFL				SPT HAMMER REF. NO. ENERGY RATIO (%)			BORED BY P.Allan PROCESSED BY F.C		

Depth (m)	Description	Legend	Elevation	Depth (m)	Samples				Field Test Results	Standpipe Details
					Ref. Number	Sample Type	Depth (m)	Recovery		
0	TOPSOIL			0.20						
	Very stiff brown slightly sandy gravelly CLAY with occaional cobbles				AA233605	B	0.50		N = 50/75 mm (25, 50)	
1					AA233606	B	1.00			
1.40	Obstruction End of Borehole at 1.40 m									
2										
3										
4										
5										
6										
7										
8										
9										

HARD STRATA BORING/CHISELLING				WATER STRIKE DETAILS					
From (m)	To (m)	Time (h)	Comments	Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
1.2	1.4	1							No water strike

INSTALLATION DETAILS					GROUNDWATER PROGRESS				
Date	Tip Depth	RZ Top	RZ Base	Type	Date	Hole Depth	Casing Depth	Depth to Water	Comments

REMARKS CAT scanned location and hand dug inspection pit was carried out .					Sample Legend D - Small Disturbed (tub) B - Bulk Disturbed LB - Large Bulk Disturbed Env - Environmental Sample (Jar + Vial + Tub)					UT - Undisturbed 100mm Diameter Sample P - Undisturbed Piston Sample W - Water Sample				

IGSL BH LOG 25758B.GPJ IGSL.GDT 13/5/25

Project No. 25758	GROUNDWATER MONITORING DATA SHEET									
Project: Mount Avenue, Dundalk Co. Louth										
Engineer: DBFL										
Exploratory Hole No.	Ground Elevation (m OD)	29/01/2025		04/02/2025		18/03/2025		29/04/2025		
		m bgl	m OD	m bgl	m OD	m bgl	m OD	m bgl	m OD	
BH 05	32.74	3.39	29.35	3.32	29.42	3.80	28.94	3.26	29.48	
BH 08	34.89	0.83	34.06	0.94	33.95	1.07	33.82	0.96	33.93	
BH 10	30.90	5.00	25.90	5.44	25.46	5.81	25.09	4.95	25.95	
BH 11	31.17	7.14	24.03	7.00	24.17	7.61	23.56	5.86	25.31	
BH 13	27.65	4.26	23.39	4.33	23.32	4.38	23.27	4.37	23.28	
Remarks: Water levels measured using electric dipmeter Sheet 1 of 1										

Appendix 3

Rotary Core Logs & Photographs

 GEOTECHNICAL CORE LOG RECORD REPORT NUMBER 25758												
CONTRACT Mount Avenue, Dundalk							DRILLHOLE NO RC03 SHEET Sheet 1 of 1					
CO-ORDINATES					GROUND LEVEL (mOD) CLIENT Adwood Ltd ENGINEER DBFL		RIG TYPE GEO-405 FLUSH Air/Mist INCLINATION (deg) -90 CORE DIAMETER (mm) 78					
					DATE DRILLED 17/01/2025 DATE LOGGED 17/01/2025		DRILLED BY IGSL - AK LOGGED BY D. O'Shea					
Downhole Depth (m)	Core Run Depth (m)	T.C.R.%	S.C.R.%	R.Q.D.%	Fracture Spacing Log (mm)	Non-intact Zone	Legend	Description	Depth (m)	Elevation	Standpipe Details	SPT (N Value)
0					0 250 500			SYMMETRIX DRILLING: No recovery, observed by driller as returns of TOPSOIL	0.30			
								SYMMETRIX DRILLING: No recovery, observed by driller as returns of brown sandy SILT/CLAY with occasional gravel	1.00			
1								SYMMETRIX DRILLING: No recovery, observed by driller as returns of brown sandy gravelly CLAY with occasional cobbles				
2												
2.80									2.80			
3	100	0	0					Stiff brown sandy gravelly CLAY with occasional cobbles. Sand is fine to coarse. Gravel is subrounded to rounded, fine to coarse of sandstone and limestone. Cobbles are of sandstone.				
3.80									3.80			
4								SYMMETRIX DRILLING: No recovery, observed by driller as returns of brown sandy gravelly CLAY with occasional cobbles				
5	0	0	0									
6.00									6.00			
6	100	51	34					Moderatly weak to strong, medium to thinly bedded, light to dark greenish grey, fine-grained SANDSTONE (with occasional thin mudstone layers at 6.49-6.66m & 8.42-8.56m) fresh to locally moderately weathered (at mudstone layers).				
7								Discontinuities are medium to closely spaced, smooth to locally rough, fractures are planar to curviplanar. Apertures are tight to moderately open, locally clay smeared, locally quartz-veined (1-10mm thick), slightly iron oxide stained. Dips are 40-60° & locally 70°.				
7.50												
8	100	51	39									
9.00									9.00			
9								End of Borehole at 9.00 m				

REMARKS

Hole cased from 0.00-6.00m

WATER STRIKE DETAILS

Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
					No water strike recorded

GROUNDWATER DETAILS

Date	Hole Depth	Casing Depth	Depth to Water	Comments
17-01-25	9.00	6.00	7.40	Water levels recorded 5 mins after end of drilling

INSTALLATION DETAILS

Date	Tip Depth	RZ Top	RZ Base	Type

 GEOTECHNICAL CORE LOG RECORD REPORT NUMBER 25758													
CONTRACT Mount Avenue, Dundalk							DRILLHOLE NO RC05 SHEET Sheet 1 of 1						
CO-ORDINATES					RIG TYPE GEO-405 FLUSH Air/Mist		DATE DRILLED 23/01/2025 DATE LOGGED 23/01/2025						
GROUND LEVEL (mOD)					INCLINATION (deg) -90 CORE DIAMETER (mm) 78		DRILLED BY IGSL - AK LOGGED BY D. O'Shea						
CLIENT Adwood Ltd ENGINEER DBFL													
Downhole Depth (m)	Core Run Depth (m)	T.C.R.%	S.C.R.%	R.Q.D.%	Fracture Spacing Log (mm)	Non-intact Zone	Legend	Description	Depth (m)	Elevation	Standpipe Details	SPT (N Value)	
0					0 250 500			SYMMETRIX DRILLING: No recovery, observed by driller as returns of brown sandy gravelly CLAY with occasional cobbles					
1													
2	2.50								2.50				
3		100	77	70				Medium strong to very strong, thickly to thinly bedded, light to dark greenish grey, fine-grained SANDSTONE, fresh to locally slightly weathered.					
4	4.00							Discontinuities are widely to closely spaced, smooth to very locally rough, fractures are planar. Apertures are tight to moderately open, locally clay smeared, locally quartz veined (1-20mm thick), slightly iron oxide stained. Dips are 40-60° & locally 70°.					
5		100	47	43									
5.50								End of Borehole at 5.50 m	5.50				
6													
7													
8													
9													
REMARKS								WATER STRIKE DETAILS					
Hole cased from 0.00-2.50m								Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
													No water strike recorded
INSTALLATION DETAILS								GROUNDWATER DETAILS					
Date	Tip Depth	RZ Top	RZ Base	Type	Date	Hole Depth	Casing Depth	Depth to Water	Comments				
23-01-25	5.50	1.00	5.50	50mm SP	23-01-25	5.50	2.50	4.70	Water levels recorded 5 mins after end of drilling				



GEOTECHNICAL CORE LOG RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue, Dundalk

DRILLHOLE NO RC10

SHEET Sheet 1 of 1

CO-ORDINATES

GROUND LEVEL (mOD)

RIG TYPE

GEO-405

FLUSH

Air/Mist

DATE DRILLED 22/01/2025

DATE LOGGED 22/01/2025

CLIENT Adwood Ltd

INCLINATION (deg)

-90

ENGINEER DBFL

CORE DIAMETER (mm)

78

DRILLED BY IGSL - AK

LOGGED BY D. O'Shea

Downhole Depth (m)	Core Run Depth (m)	T.C.R.%	S.C.R.%	R.Q.D.%	Fracture Spacing Log (mm)	Non-intact Zone	Legend	Description	Depth (m)	Elevation	Standpipe Details	SPT (N Value)
0					0 250 500			SYMMETRIX DRILLING: No recovery, observed by driller as returns of CLAY				
1									1.50			
2								SYMMETRIX DRILLING: No recovery, observed by driller as returns of gravelly CLAY				N = 18 (1, 1, 3, 4, 7, 4)
3												N = 18 (1, 2, 5, 4, 4, 5)
4												
5	5.30								5.30			N = 18 (3, 3, 4, 4, 5, 5)
6		100	61	41				Moderately weak to very strong, thickly to thinly bedded, light to dark greenish grey, fine-grained SANDSTONE (with occasional thin mudstone layers at 5.38-5.53m & 5.61-5.71m) fresh to locally moderately weathered (at mudstone layers).				
7	6.80							Discontinuities are widely to closely spaced, smooth to very locally rough, fractures are planar. Apertures are tight to moderately open, locally clay smeared, locally quartz veined (1-20mm thick), slightly iron oxide stained. Dips are 40-60° & locally 70°.				
8	8.30	100	78	37		700			8.30			
9								End of Borehole at 8.30 m				

REMARKS

Hole cased from 0.00-5.30m

WATER STRIKE DETAILS

Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
					No water strike recorded

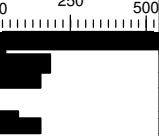
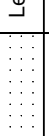
GROUNDWATER DETAILS

INSTALLATION DETAILS

Date	Tip Depth	RZ Top	RZ Base	Type	Date	Hole Depth	Casing Depth	Depth to Water	Comments
22-01-25	8.30	1.00	8.30	50mm SP	22-01-25	8.30	5.30	4.00	Water levels recorded 5 mins after end of drilling

										GEOTECHNICAL CORE LOG RECORD										REPORT NUMBER 25758																																																						
CONTRACT Mount Avenue, Dundalk															DRILLHOLE NO RC11																																																											
CO-ORDINATES															SHEET Sheet 1 of 2																																																											
GROUND LEVEL (mOD)															RIG TYPE GEO-405																																																											
CLIENT Adwood Ltd															FLUSH Air/Mist																																																											
ENGINEER DBFL															INCLINATION (deg) -90																																																											
															DATE DRILLED 21/01/2025																																																											
															DATE LOGGED 21/01/2025																																																											
															DRILLED BY IGSL - AK																																																											
															LOGGED BY D. O'Shea																																																											
Core Data															Log Data																																																											
Downhole Depth (m)					Core Run Depth (m)					T.C.R.%					S.C.R.%					R.Q.D.%					Fracture Spacing Log (mm)					Non-intact Zone					Legend					Description										Depth (m)					Elevation					Standpipe Details					SPT (N Value)									
0																				0 250 500															SYMMETRIX DRILLING: No recovery, observed by driller as returns of CLAY																																							
1																																																																										
2																																																																										
3																														SYMMETRIX DRILLING: No recovery, observed by driller as returns of gravelly CLAY										3.00																																		
4																																																																										
5																																																																										
6																																																																										
7																																																																										
8					8.00																									SYMMETRIX DRILLING: No recovery, observed by driller as returns of gravelly cobbly CLAY										7.50																																		
9										100					62					37										Moderately weak to strong, medium to thinly bedded, light to dark greenish grey, fine-grained SANDSTONE, fresh to locally slightly weathered.										8.00																																		
9.50																														Discontinuities are medium to closely spaced, smooth to locally rough, fractures are planar to curvilinear. Apertures are tight to moderately open, locally clay smeared and clay/gravel-filled (at 8.46-8.51m), locally quartz-veined (1-8mm thick), slightly iron oxide stained. Dips are 40-60° & locally 70°.																																												
530.00000000000001																																																																										
REMARKS																														WATER STRIKE DETAILS																																												
Hole cased from 0.00-8.00m																														Water Strike					Casing Depth					Sealed At					Rise To					Time (min)					Comments																			
																																																							No water strike recorded																			
INSTALLATION DETAILS																														GROUNDWATER DETAILS																																												
Date					Tip Depth					RZ Top					RZ Base					Type					Date					Hole Depth					Casing Depth					Depth to Water					Comments																													
21-01-25					11.00					1.00					11.00					50mm SP					21-01-25					11.00					8.00					4.90					Water levels recorded 5 mins after end of drilling																													

IGSL RC Fl 10M 25758.GPJ IGSL.GDT 5/3/25

		GEOTECHNICAL CORE LOG RECORD					REPORT NUMBER 25758						
CONTRACT Mount Avenue, Dundalk							DRILLHOLE NO RC11						
CO-ORDINATES							SHEET Sheet 2 of 2						
GROUND LEVEL (mOD)				RIG TYPE GEO-405		DATE DRILLED 21/01/2025							
				FLUSH Air/Mist		DATE LOGGED 21/01/2025							
CLIENT Adwood Ltd				INCLINATION (deg) -90		DRILLED BY IGSL - AK							
ENGINEER DBFL				CORE DIAMETER (mm) 78		LOGGED BY D. O'Shea							
Downhole Depth (m)	Core Run Depth (m)	T.C.R.%	S.C.R.%	R.Q.D.%	Fracture Spacing Log (mm)	Non-intact Zone	Legend	Description	Depth (m)	Elevation	Standpipe Details	SPT (N Value)	
10		100	69	41									
11.00								End of Borehole at 11.00 m	11.00				
11													
12													
13													
14													
15													
16													
17													
18													
19													
REMARKS								WATER STRIKE DETAILS					
Hole cased from 0.00-8.00m								Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
													No water strike recorded
INSTALLATION DETAILS								GROUNDWATER DETAILS					
Date	Tip Depth	RZ Top	RZ Base	Type	Date	Hole Depth	Casing Depth	Depth to Water	Comments				
21-01-25	11.00	1.00	11.00	50mm SP	21-01-25	11.00	8.00	4.90	Water levels recorded 5 mins after end of drilling				

IGSL RC Fl 10M 25758.GPJ IGSL.GDT 5/3/25

										GEOTECHNICAL CORE LOG RECORD										REPORT NUMBER 25758																																																																																				
CONTRACT Mount Avenue, Dundalk															DRILLHOLE NO RC13																																																																																									
CO-ORDINATES															SHEET Sheet 1 of 2																																																																																									
GROUND LEVEL (mOD)										RIG TYPE GEO-405					DATE DRILLED 20/01/2025																																																																																									
										FLUSH Air/Mist					DATE LOGGED 20/01/2025																																																																																									
CLIENT Adwood Ltd										INCLINATION (deg) -90					DRILLED BY IGSL - AK																																																																																									
ENGINEER DBFL										CORE DIAMETER (mm) 78					LOGGED BY D. O'Shea																																																																																									
Downhole Depth (m) Core Run Depth (m) T.C.R.% S.C.R.% R.Q.D.% Fracture Spacing Log (mm) Non-intact Zone Legend															Description Depth (m) Elevation Standpipe Details SPT (N Value)																																																																																									
0															SYMMETRIX DRILLING: No recovery, observed by driller as returns of gravelly cobbly CLAY															1.50															N = 27 (6, 3, 5, 9, 7, 6)																																																											
1															SYMMETRIX DRILLING: No recovery, observed by driller as returns of gravelly CLAY															4.50															N = 16 (2, 2, 3, 5, 4, 4)																																																											
2															SYMMETRIX DRILLING: No recovery, observed by driller as returns of gravelly cobbly CLAY															5.80															N = 23 (4, 6, 5, 5, 7, 6)																																																											
3															Moderately weak to very strong, thickly to thinly bedded, light to dark greenish grey, fine-grained SANDSTONE (with occasional thin mudstone layers at 5.80-6.11m, & 6.68-6.84m) fresh to locally moderately weathered (at mudstone layers).																																																																																									
4															Discontinuities are medium to closely spaced, smooth to locally rough, fractures are planar to curvilinear. Apertures are tight to moderately open, locally clay smeared, locally quartz-veined (1-40mm thick), slightly iron oxide stained. Dips are 40-60° & locally 70°.																																																																																									
5																																																																																																								
5.80															100 19 0																																																																																									
6																																																																																																								
7															100 81 63																																																																																									
7.30																																																																																																								
8															100 77 30																																																																																									
8.80																																																																																																								
9																																																																																																								
10.00																																																																																																								
REMARKS															WATER STRIKE DETAILS																																																																																									
Hole cased from 0.00-5.80m															Water Strike															Casing Depth															Sealed At															Rise To															Time (min)															Comments														
																																																																																										No water strike recorded														
INSTALLATION DETAILS															GROUNDWATER DETAILS																																																																																									
Date															Hole Depth															Casing Depth															Depth to Water															Comments																																												
20-01-25															10.00															5.80															5.70															Water levels recorded 5 mins after end of drilling																																												

 GEOTECHNICAL CORE LOG RECORD REPORT NUMBER 25758													
CONTRACT Mount Avenue, Dundalk								DRILLHOLE NO RC13 SHEET Sheet 2 of 2					
CO-ORDINATES GROUND LEVEL (mOD)						RIG TYPE GEO-405 FLUSH Air/Mist INCLINATION (deg) -90 CORE DIAMETER (mm) 78		DATE DRILLED 20/01/2025 DATE LOGGED 20/01/2025					
CLIENT Adwood Ltd ENGINEER DBFL						DRILLED BY IGSL - AK LOGGED BY D. O'Shea							
Downhole Depth (m)	Core Run Depth (m)	T.C.R.%	S.C.R.%	R.Q.D.%	Fracture Spacing Log (mm)	Non-intact Zone	Legend	Description	Depth (m)	Elevation	Standpipe Details	SPT (N Value)	
10					0 250 500			End of Borehole at 10.00 m	10.20				
11													
12													
13													
14													
15													
16													
17													
18													
19													
REMARKS								WATER STRIKE DETAILS					
Hole cased from 0.00-5.80m								Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
													No water strike recorded
								GROUNDWATER DETAILS					
INSTALLATION DETAILS								Date	Hole Depth	Casing Depth	Depth to Water	Comments	
Date	Tip Depth	RZ Top	RZ Base	Type				20-01-25	10.20	5.80	5.70	Water levels recorded 5 mins after end of drilling	
20-01-25	10.00	1.00	10.00	50mm SP									

RC03 – Box 1 of 2 – 2.80-8.00m



RC03 – Box 2 of 2 – 8.00-9.00m



RC05 – Box 1 of 1 – 2.50-5.50m



RC10 – Box 1 of 1 – 5.30-8.30m



RC11 – Box 1 of 1 – 8.00-11.00m



RC13 – Box 1 of 2 – 5.80-8.80m



RC13 – Box 2 of 2 – 8.80-10.00m



Appendix 4

Dynamic Probing Logs



DYNAMIC PROBE RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

PROBE NO. DP01

SHEET Sheet 1 of 1

CO-ORDINATES

GROUND LEVEL (mOD)

HAMMER MASS (kg) 50

DATE DRILLED 21/01/2025

DATE LOGGED 23/01/2025

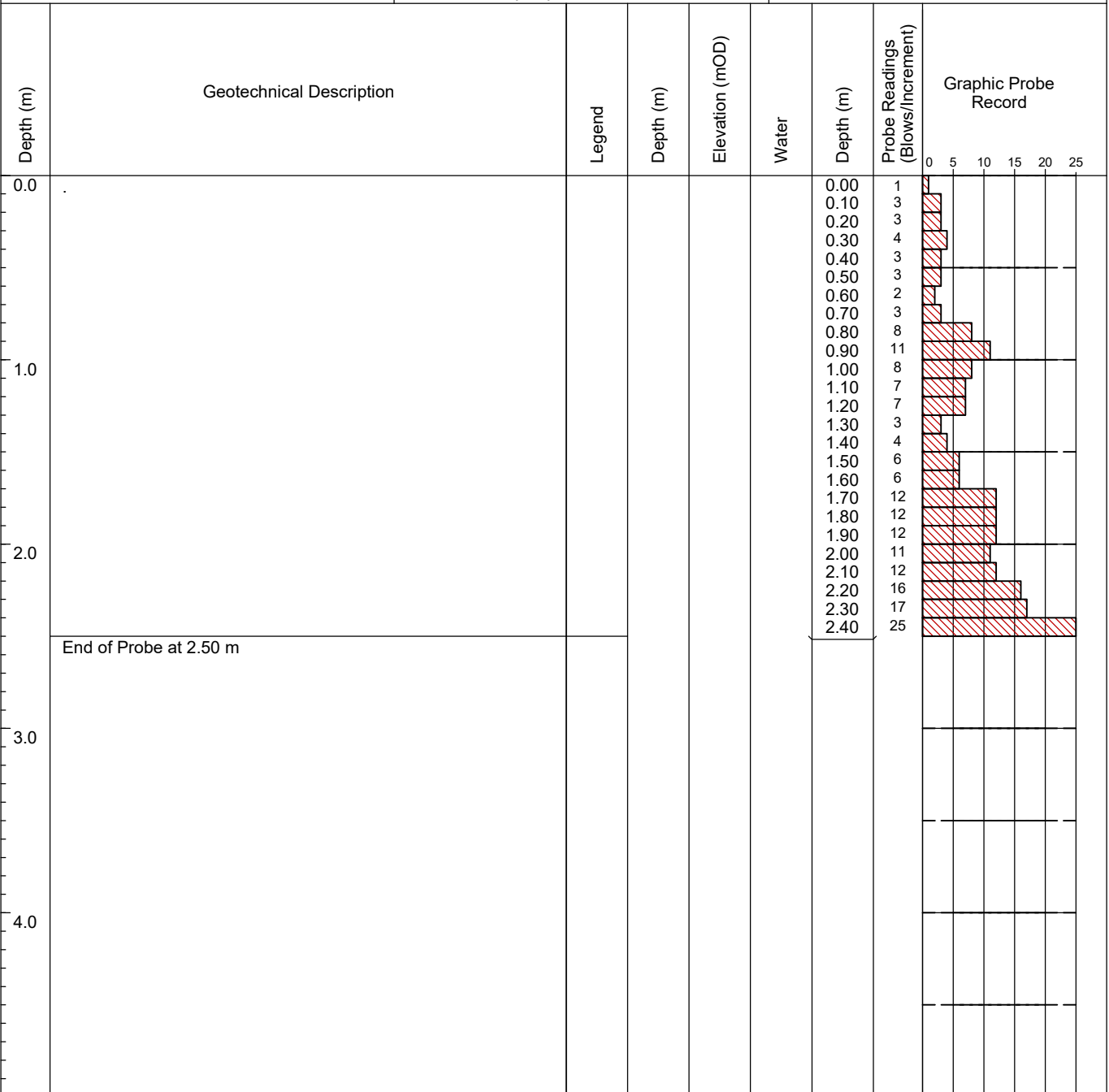
CLIENT Adwood Ltd

INCREMENT SIZE (mm) 100

ENGINEER DBFL

FALL HEIGHT (mm) 500

PROBE TYPE DPH



GROUNDWATER OBSERVATIONS

REMARKS



DYNAMIC PROBE RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

PROBE NO. DP02

SHEET Sheet 1 of 1

CO-ORDINATES

GROUND LEVEL (mOD)

HAMMER MASS (kg) 50

DATE DRILLED 21/01/2025

DATE LOGGED 23/01/2025

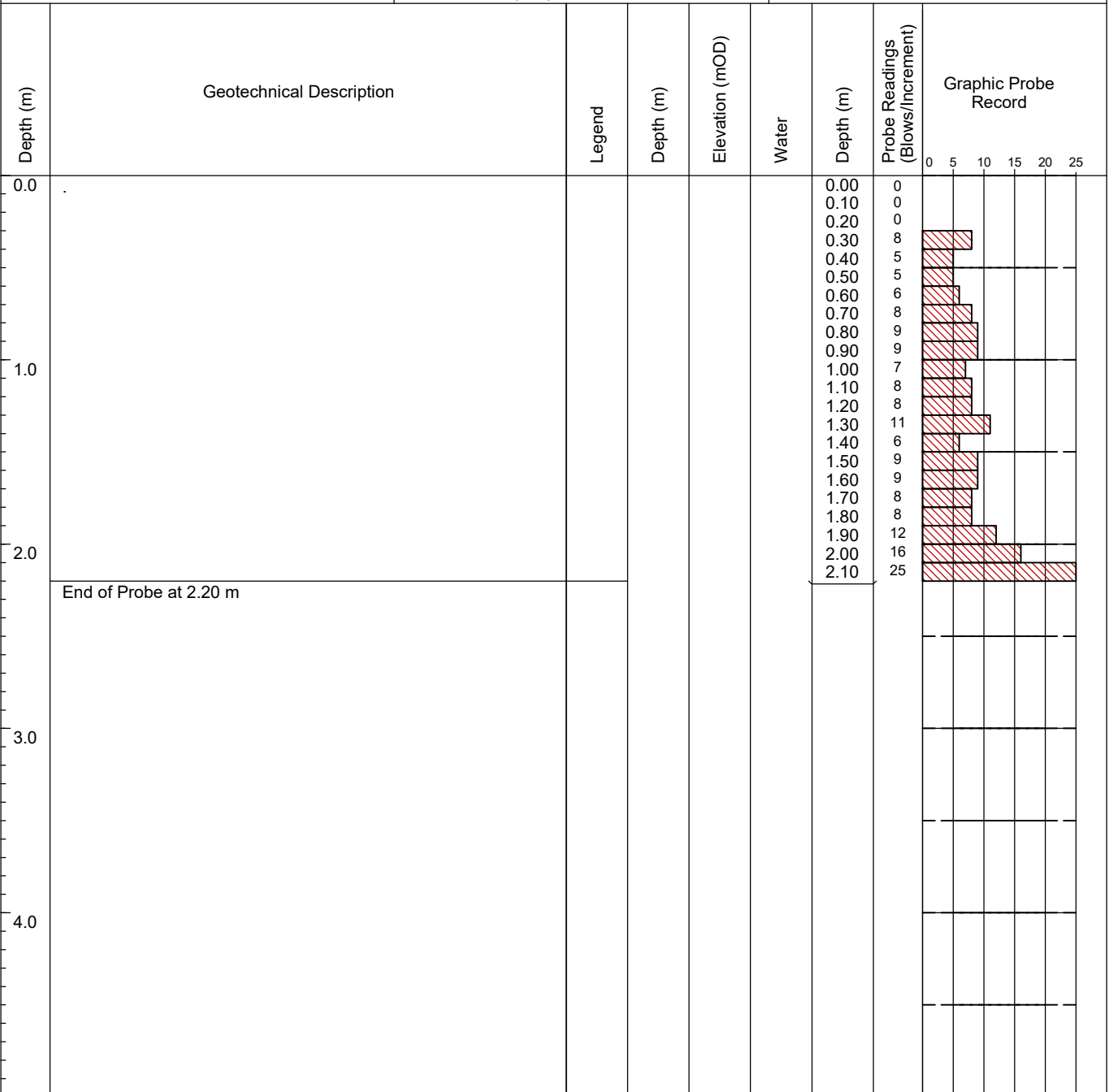
CLIENT Adwood Ltd

INCREMENT SIZE (mm) 100

ENGINEER DBFL

FALL HEIGHT (mm) 500

PROBE TYPE DPH



GROUNDWATER OBSERVATIONS

REMARKS



DYNAMIC PROBE RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

PROBE NO. DP03

SHEET Sheet 1 of 1

CO-ORDINATES

GROUND LEVEL (mOD)

HAMMER MASS (kg) 50

DATE DRILLED 21/01/2025

DATE LOGGED 23/01/2025

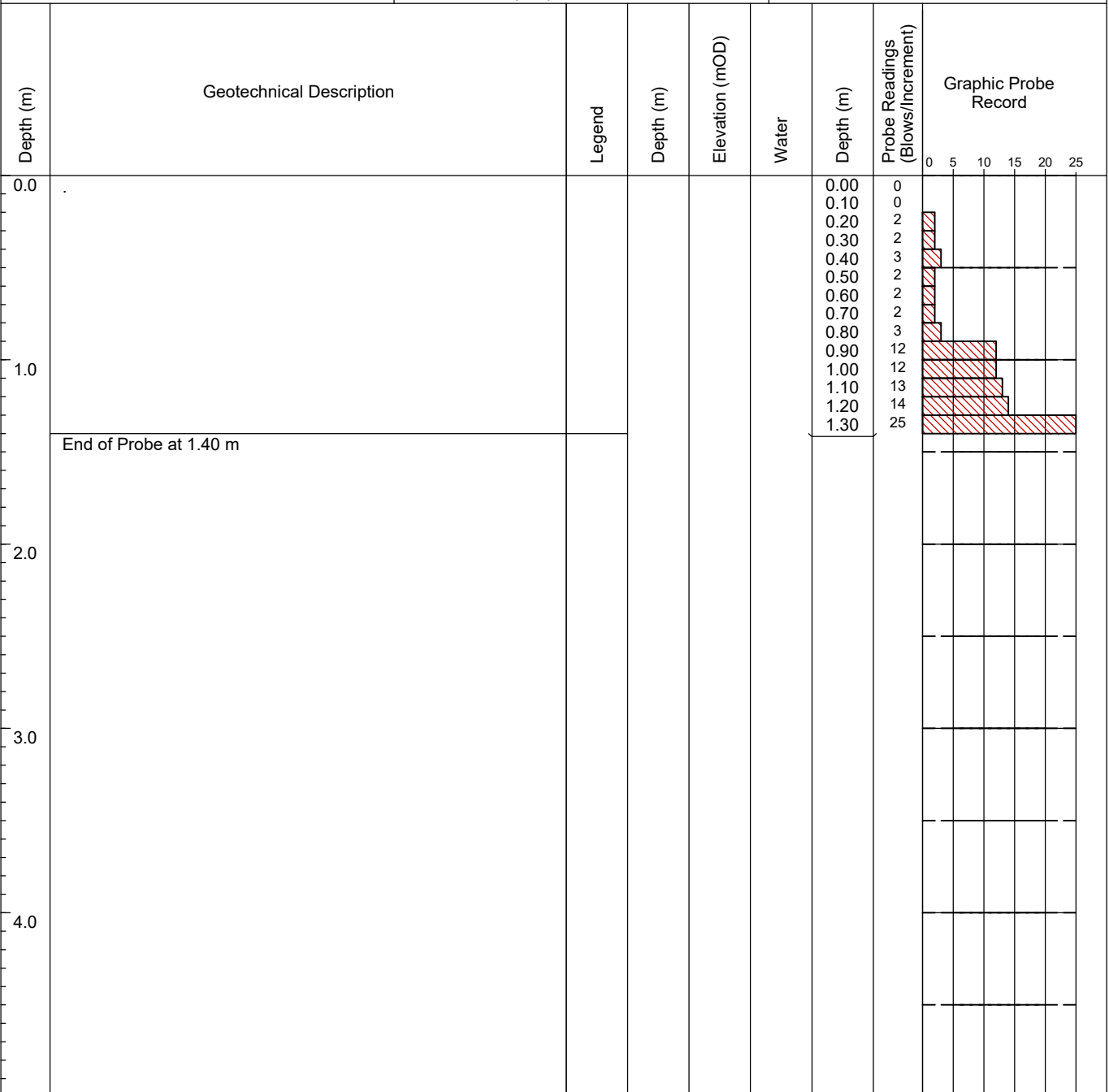
CLIENT Adwood Ltd

INCREMENT SIZE (mm) 100

ENGINEER DBFL

FALL HEIGHT (mm) 500

PROBE TYPE DPH



GROUNDWATER OBSERVATIONS

REMARKS



DYNAMIC PROBE RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

PROBE NO. DP04

SHEET Sheet 1 of 1

CO-ORDINATES

GROUND LEVEL (mOD)

HAMMER MASS (kg) 50

DATE DRILLED 21/01/2025

DATE LOGGED 23/01/2025

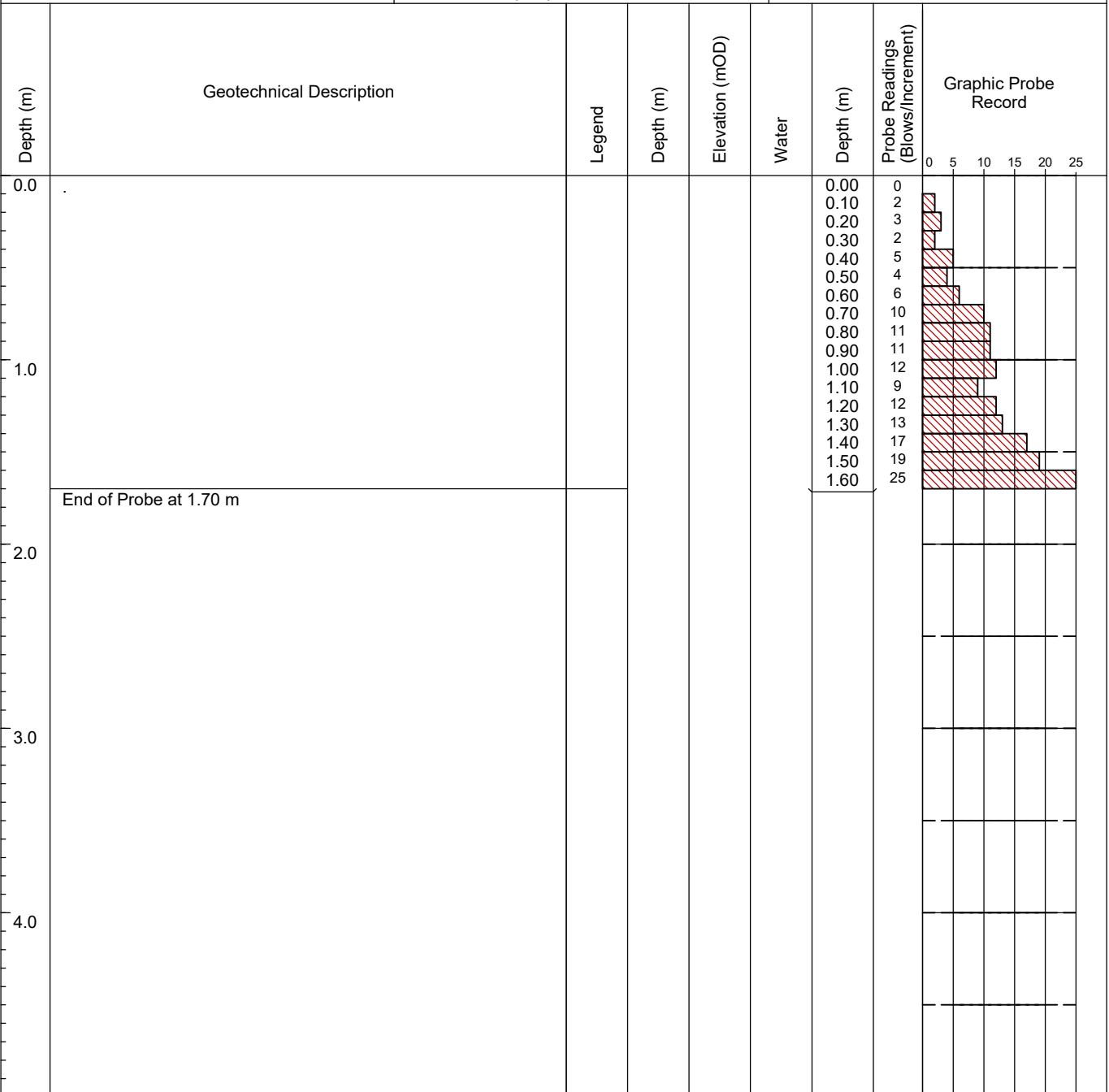
CLIENT Adwood Ltd

INCREMENT SIZE (mm) 100

ENGINEER DBFL

FALL HEIGHT (mm) 500

PROBE TYPE DPH



GROUNDWATER OBSERVATIONS

REMARKS



DYNAMIC PROBE RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

PROBE NO. DP05

SHEET Sheet 1 of 1

CO-ORDINATES

GROUND LEVEL (mOD)

HAMMER MASS (kg) 50

DATE DRILLED 21/01/2025

DATE LOGGED 23/01/2025

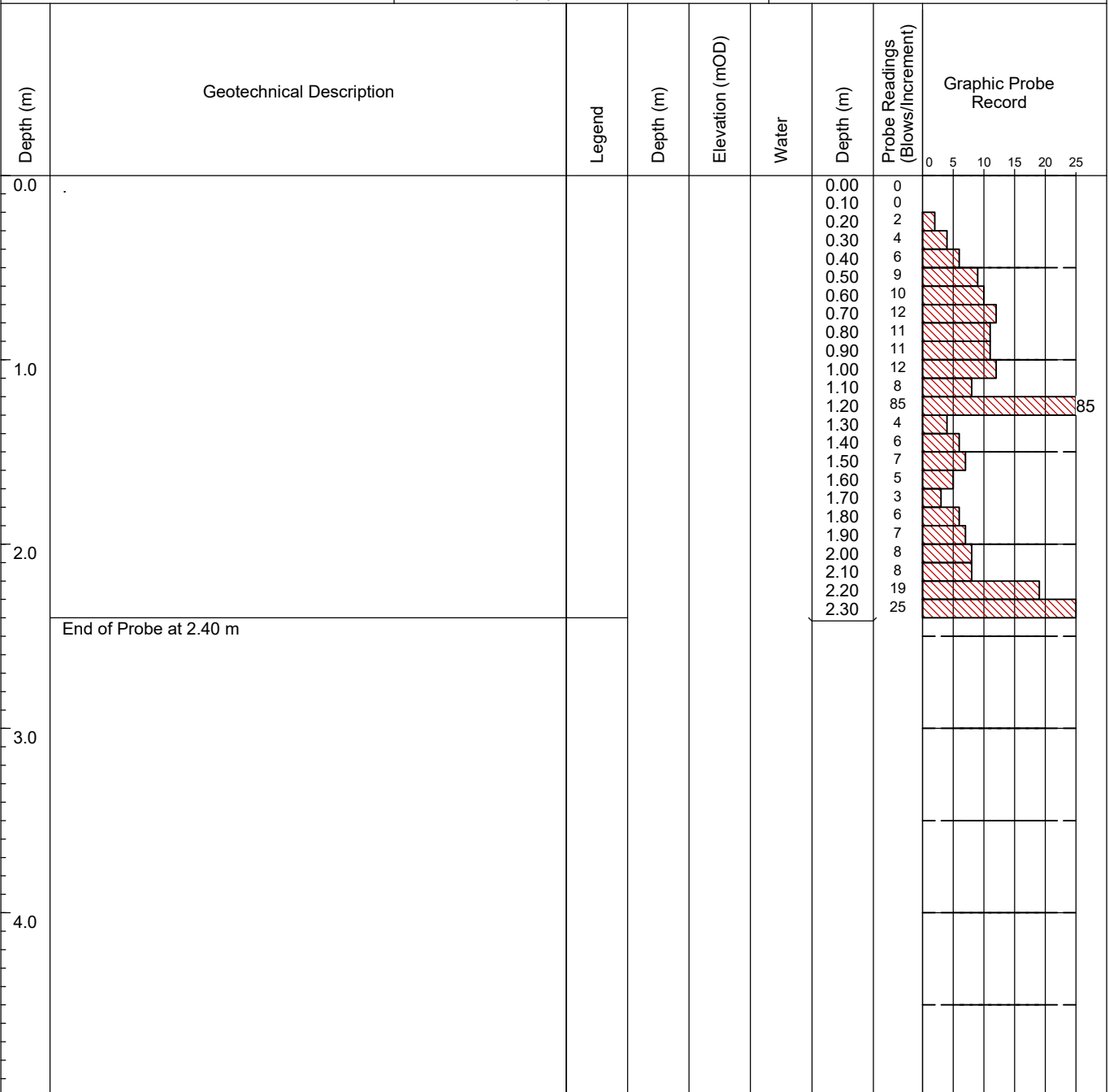
CLIENT Adwood Ltd

INCREMENT SIZE (mm) 100

ENGINEER DBFL

FALL HEIGHT (mm) 500

PROBE TYPE DPH



GROUNDWATER OBSERVATIONS

REMARKS



DYNAMIC PROBE RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

PROBE NO. DP06

SHEET Sheet 1 of 1

CO-ORDINATES

GROUND LEVEL (mOD)

HAMMER MASS (kg) 50

DATE DRILLED 21/01/2025

DATE LOGGED 23/01/2025

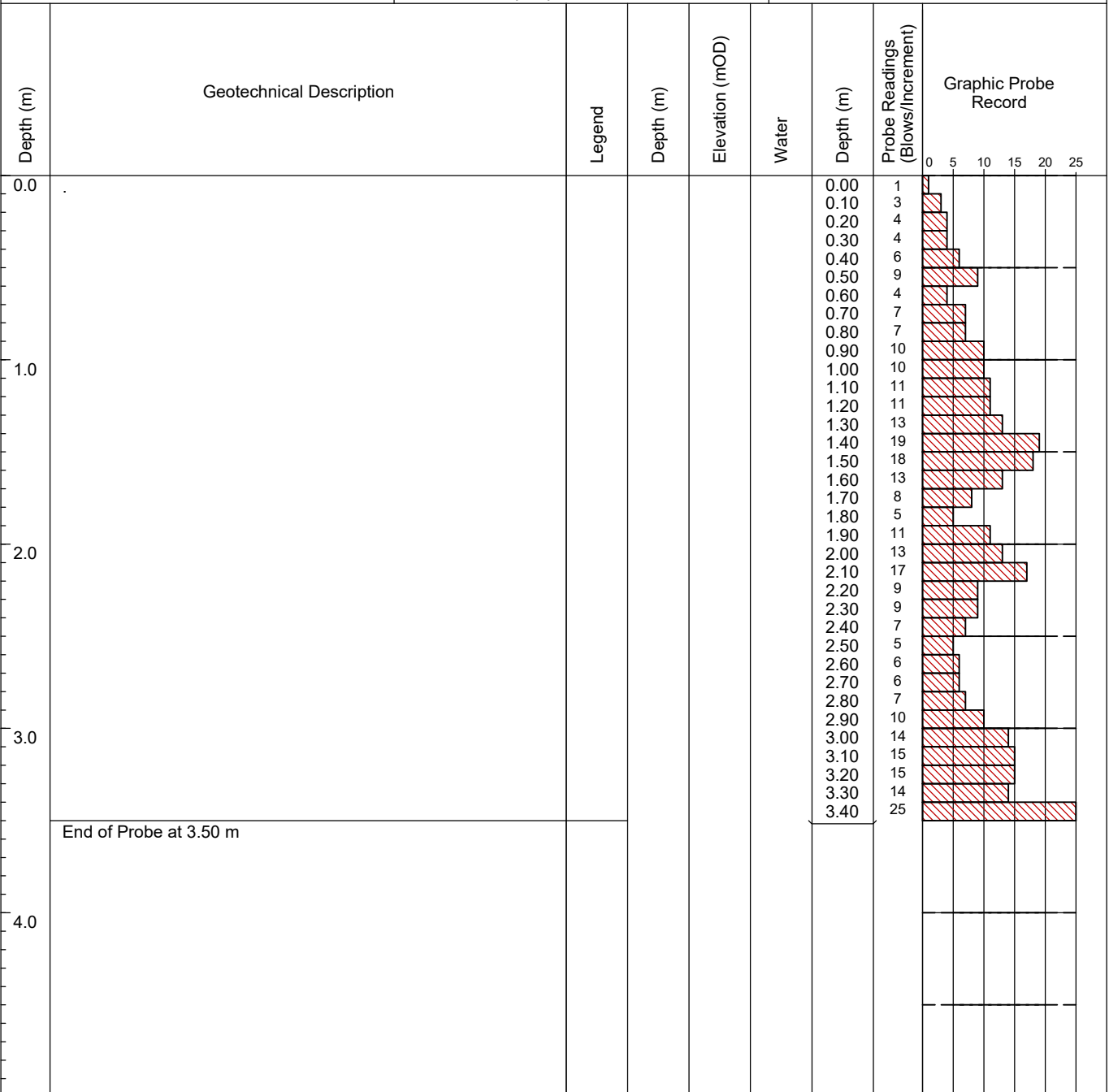
CLIENT Adwood Ltd

INCREMENT SIZE (mm) 100

ENGINEER DBFL

FALL HEIGHT (mm) 500

PROBE TYPE DPH



GROUNDWATER OBSERVATIONS

REMARKS



DYNAMIC PROBE RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

PROBE NO. DP07

SHEET Sheet 1 of 1

CO-ORDINATES

GROUND LEVEL (mOD)

HAMMER MASS (kg) 50

DATE DRILLED 21/01/2025

DATE LOGGED 23/01/2025

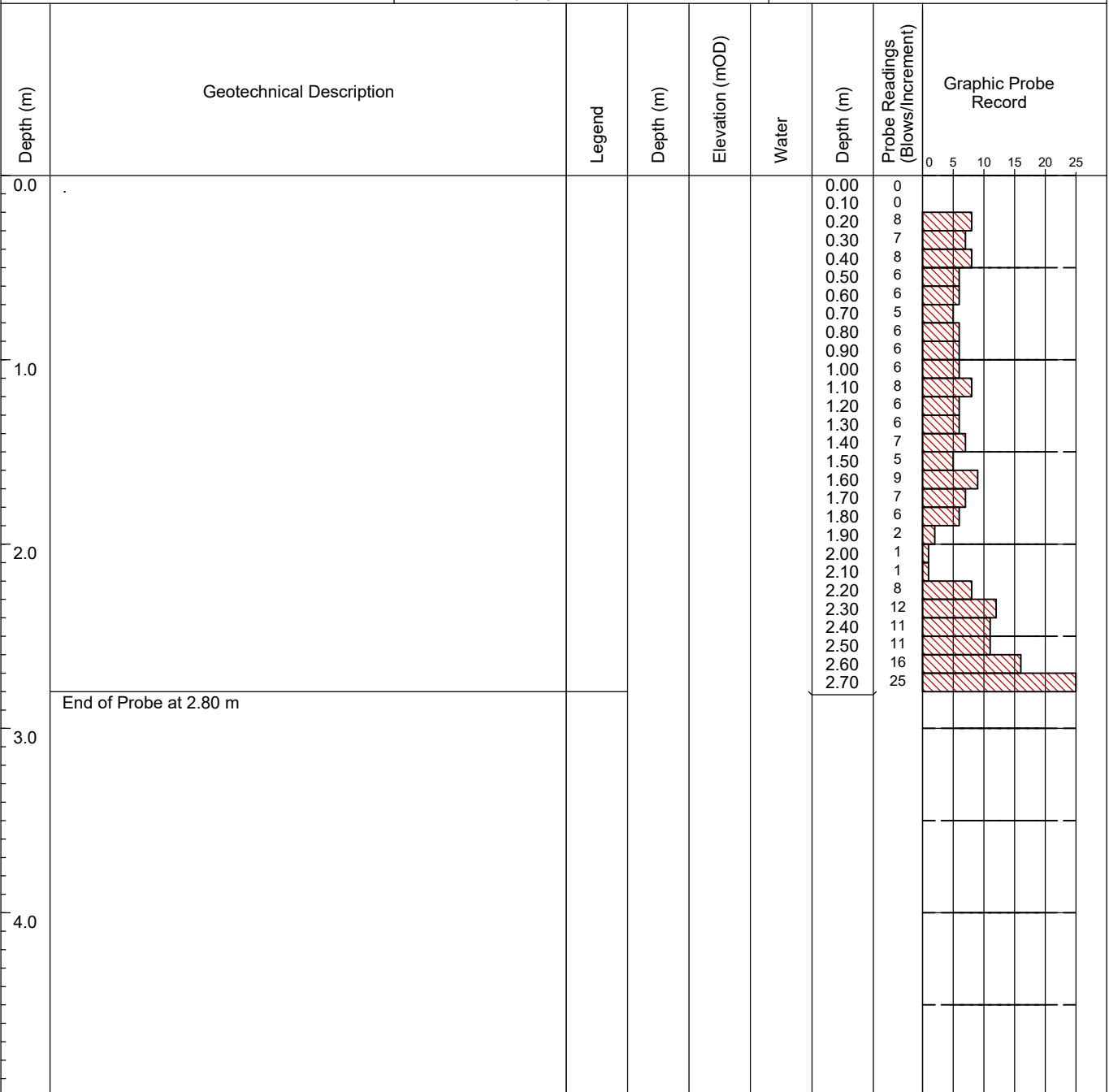
CLIENT Adwood Ltd

INCREMENT SIZE (mm) 100

ENGINEER DBFL

FALL HEIGHT (mm) 500

PROBE TYPE DPH



GROUNDWATER OBSERVATIONS

REMARKS



DYNAMIC PROBE RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

PROBE NO. DP08

SHEET Sheet 1 of 1

CO-ORDINATES

GROUND LEVEL (mOD)

HAMMER MASS (kg) 50

DATE DRILLED 21/01/2025

DATE LOGGED 23/01/2025

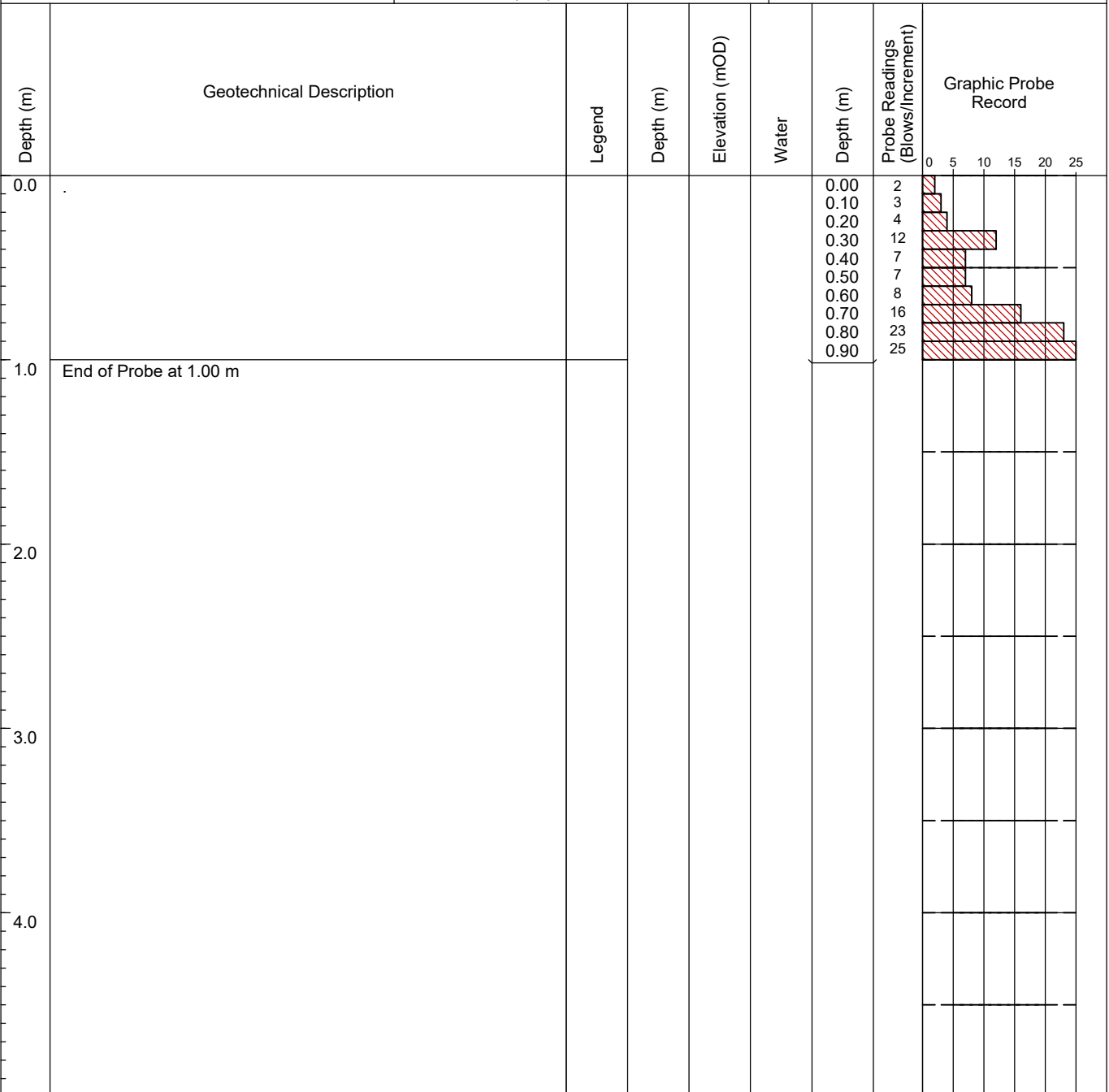
CLIENT Adwood Ltd

INCREMENT SIZE (mm) 100

ENGINEER DBFL

FALL HEIGHT (mm) 500

PROBE TYPE DPH



GROUNDWATER OBSERVATIONS

REMARKS



DYNAMIC PROBE RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

PROBE NO. DP09

SHEET Sheet 1 of 1

CO-ORDINATES

GROUND LEVEL (mOD)

HAMMER MASS (kg) 50

DATE DRILLED 21/01/2025

DATE LOGGED 23/01/2025

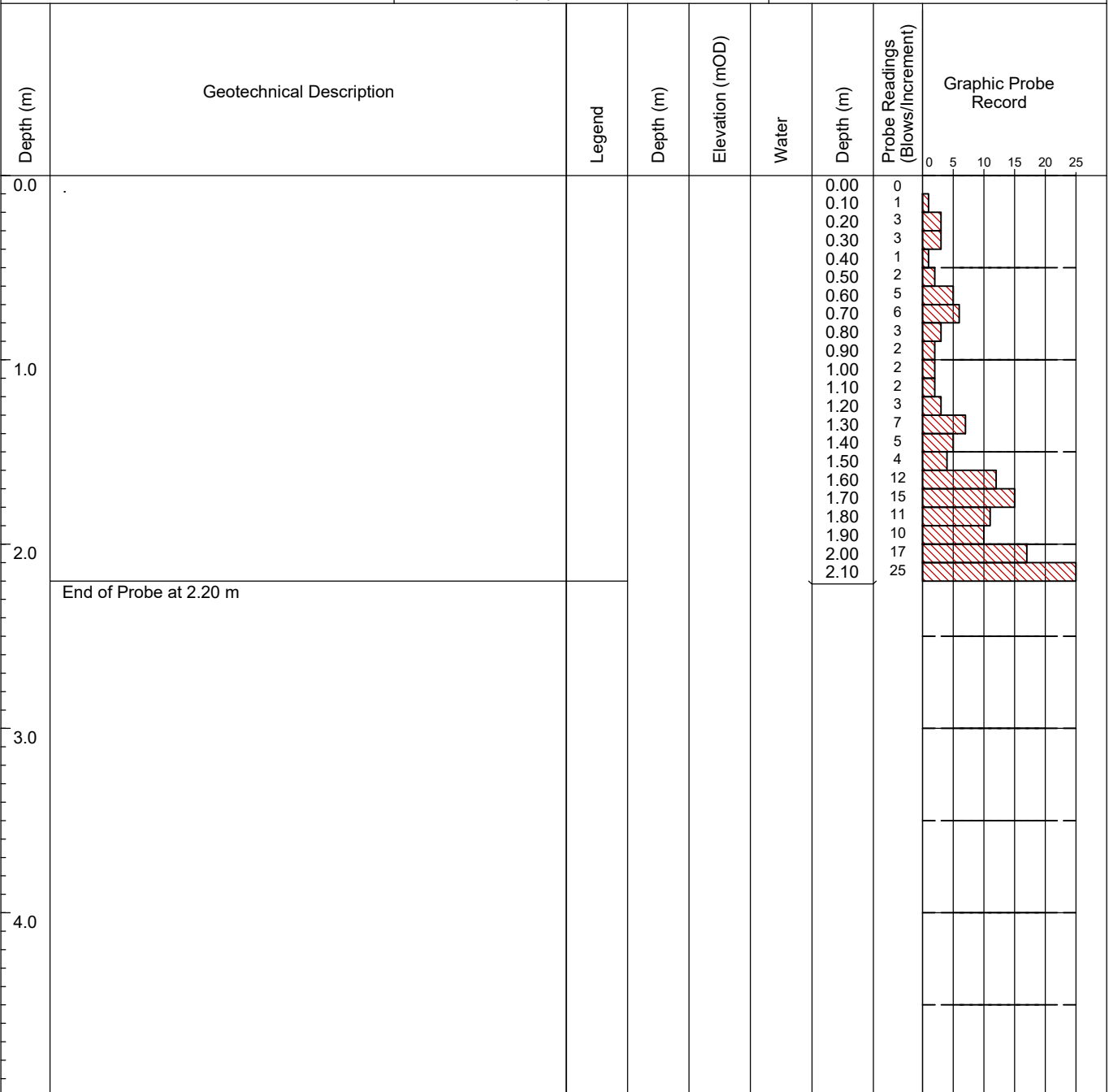
CLIENT Adwood Ltd

INCREMENT SIZE (mm) 100

ENGINEER DBFL

FALL HEIGHT (mm) 500

PROBE TYPE DPH



GROUNDWATER OBSERVATIONS

REMARKS



DYNAMIC PROBE RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

PROBE NO. DP11

SHEET Sheet 1 of 1

CO-ORDINATES

GROUND LEVEL (mOD)

HAMMER MASS (kg) 50

DATE DRILLED 21/01/2025

DATE LOGGED 23/01/2025

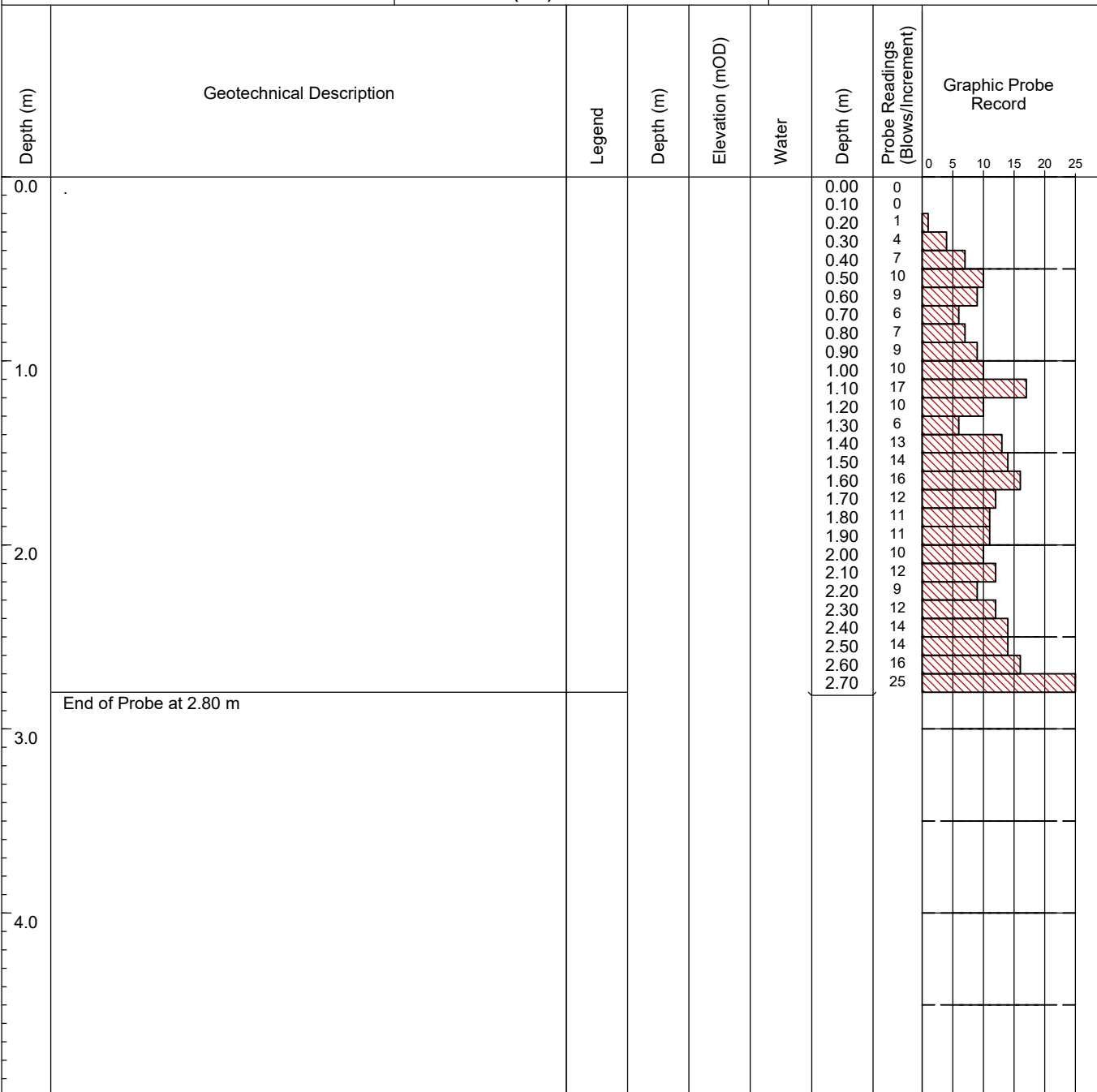
CLIENT Adwood Ltd

INCREMENT SIZE (mm) 100

ENGINEER DBFL

FALL HEIGHT (mm) 500

PROBE TYPE DPH



GROUNDWATER OBSERVATIONS

REMARKS



DYNAMIC PROBE RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

PROBE NO. DP12

SHEET Sheet 1 of 1

CO-ORDINATES

GROUND LEVEL (mOD)

HAMMER MASS (kg) 50

DATE DRILLED 21/01/2025

DATE LOGGED 23/01/2025

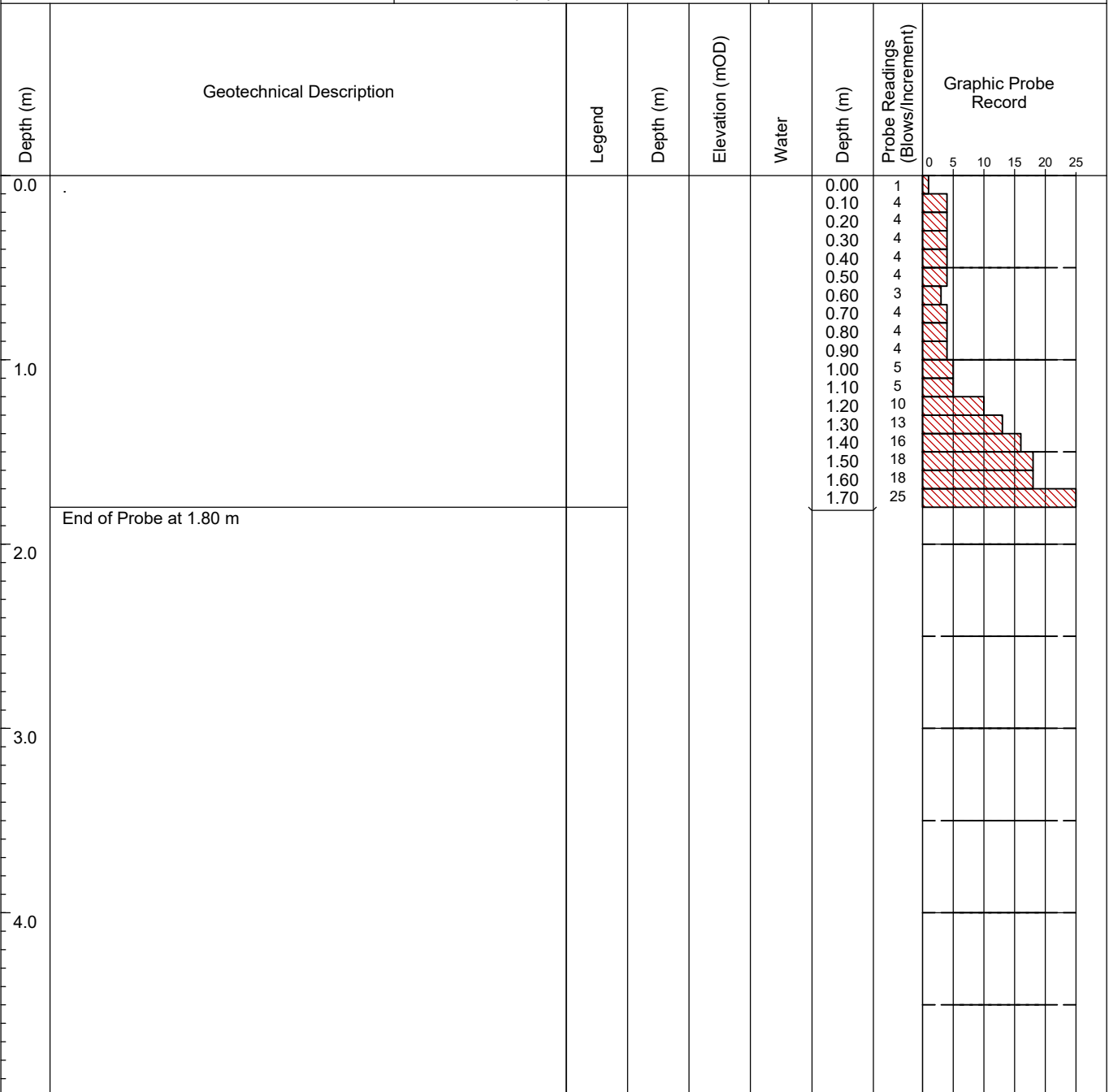
CLIENT Adwood Ltd

INCREMENT SIZE (mm) 100

ENGINEER DBFL

FALL HEIGHT (mm) 500

PROBE TYPE DPH



GROUNDWATER OBSERVATIONS

REMARKS



DYNAMIC PROBE RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

PROBE NO. DP13

SHEET Sheet 1 of 1

CO-ORDINATES

GROUND LEVEL (mOD)

HAMMER MASS (kg) 50

DATE DRILLED 21/01/2025

DATE LOGGED 23/01/2025

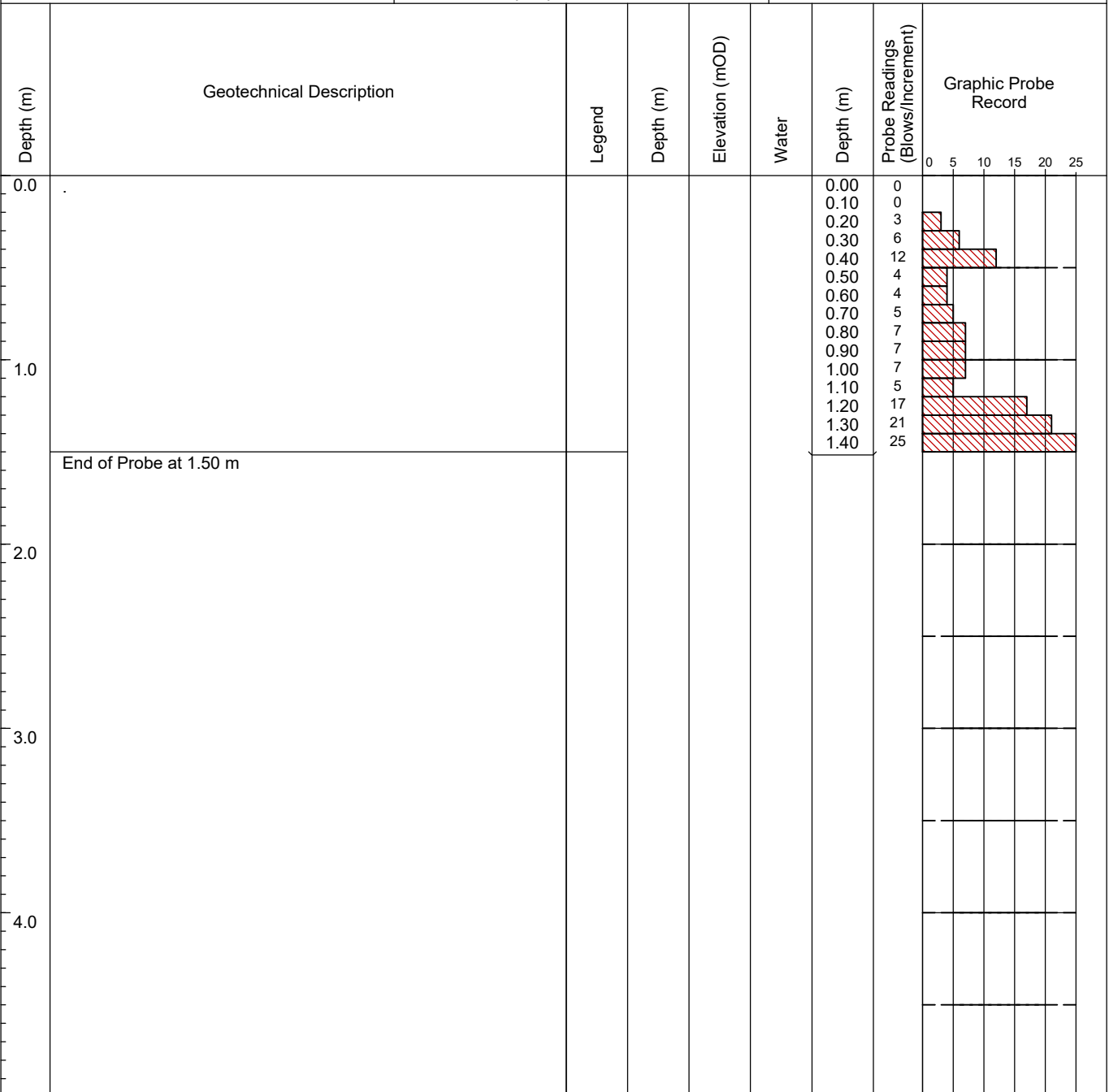
CLIENT Adwood Ltd

INCREMENT SIZE (mm) 100

ENGINEER DBFL

FALL HEIGHT (mm) 500

PROBE TYPE DPH



GROUNDWATER OBSERVATIONS

REMARKS



DYNAMIC PROBE RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

PROBE NO. DP14

SHEET Sheet 1 of 1

CO-ORDINATES

GROUND LEVEL (mOD)

HAMMER MASS (kg) 50

DATE DRILLED 21/01/2025

DATE LOGGED 23/01/2025

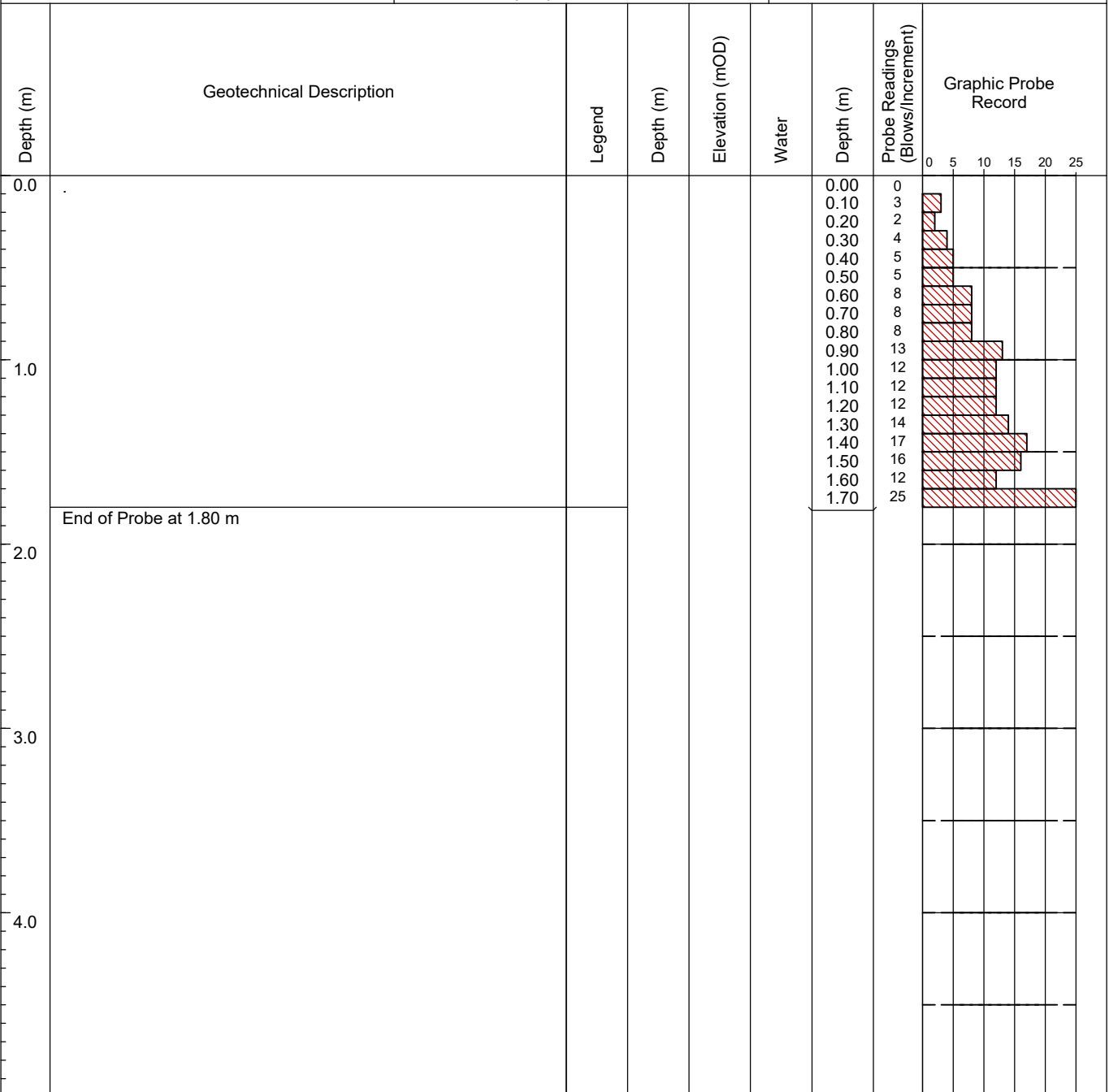
CLIENT Adwood Ltd

INCREMENT SIZE (mm) 100

ENGINEER DBFL

FALL HEIGHT (mm) 500

PROBE TYPE DPH



GROUNDWATER OBSERVATIONS

REMARKS



DYNAMIC PROBE RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

PROBE NO. DP15

SHEET Sheet 1 of 1

CO-ORDINATES

GROUND LEVEL (mOD)

HAMMER MASS (kg) 50

DATE DRILLED 21/01/2025

DATE LOGGED 23/01/2025

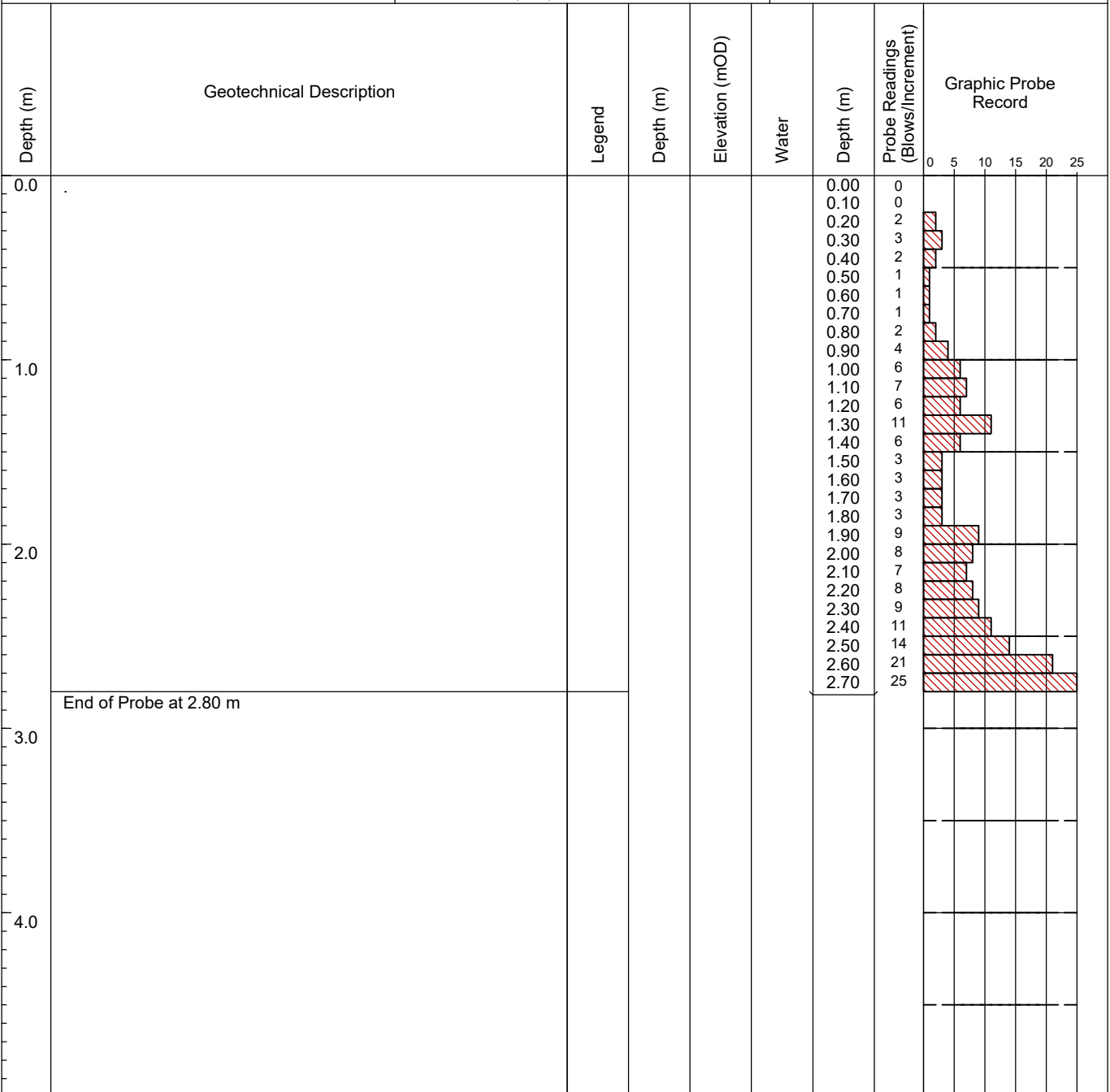
CLIENT Adwood Ltd

INCREMENT SIZE (mm) 100

ENGINEER DBFL

FALL HEIGHT (mm) 500

PROBE TYPE DPH



GROUNDWATER OBSERVATIONS

REMARKS



DYNAMIC PROBE RECORD

REPORT NUMBER

25758

CONTRACT	Mount Avenue , Dundalk Co.Louth

PROBE NO.	DP16

SHEET Sheet 1 of 1

CO-ORDINATES

GROUND LEVEL (mOD)

HAMMER MASS (kg)	50

INCREMENT SIZE (mm)	100

FALL HEIGHT (mm)	500

DATE DRILLED	21/01/2025

DATE LOGGED 23/01/2025

PROBE TYPE	DPH

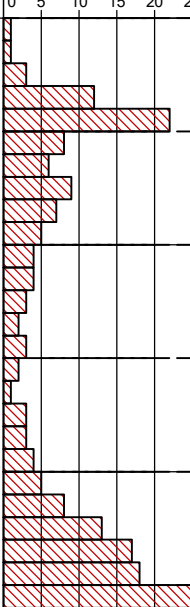
CLIENT	Adwood Ltd

ENGINEER DBFL

INCREMENT SIZE (mm)

FALL HEIGHT (mm)

PROBE TYPE	DPH

Depth (m)	Geotechnical Description	Legend	Depth (m)	Elevation (mOD)	Water	Depth (m)	Probe Readings (Blows/Increment)	Graphic Probe Record
0.0						0.00	1	
0.10						1		
0.20						3		
0.30						12		
0.40						22		
0.50						8		
0.60						6		
0.70						9		
0.80						7		
0.90						5		
1.00						4		
1.10						4		
1.20						3		
1.30						2		
1.40						3		
1.50						2		
1.60						1		
1.70						3		
1.80						3		
1.90						4		
2.00						5		
2.10						8		
2.20						13		
2.30						17		
2.40						18		
2.50	25							
End of Probe at 2.60 m								
3.0								
4.0								

GROUNDWATER OBSERVATIONS

REMARKS



DYNAMIC PROBE RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

PROBE NO. DP17

SHEET Sheet 1 of 1

CO-ORDINATES

GROUND LEVEL (mOD)

HAMMER MASS (kg) 50

DATE DRILLED 21/01/2025

DATE LOGGED 23/01/2025

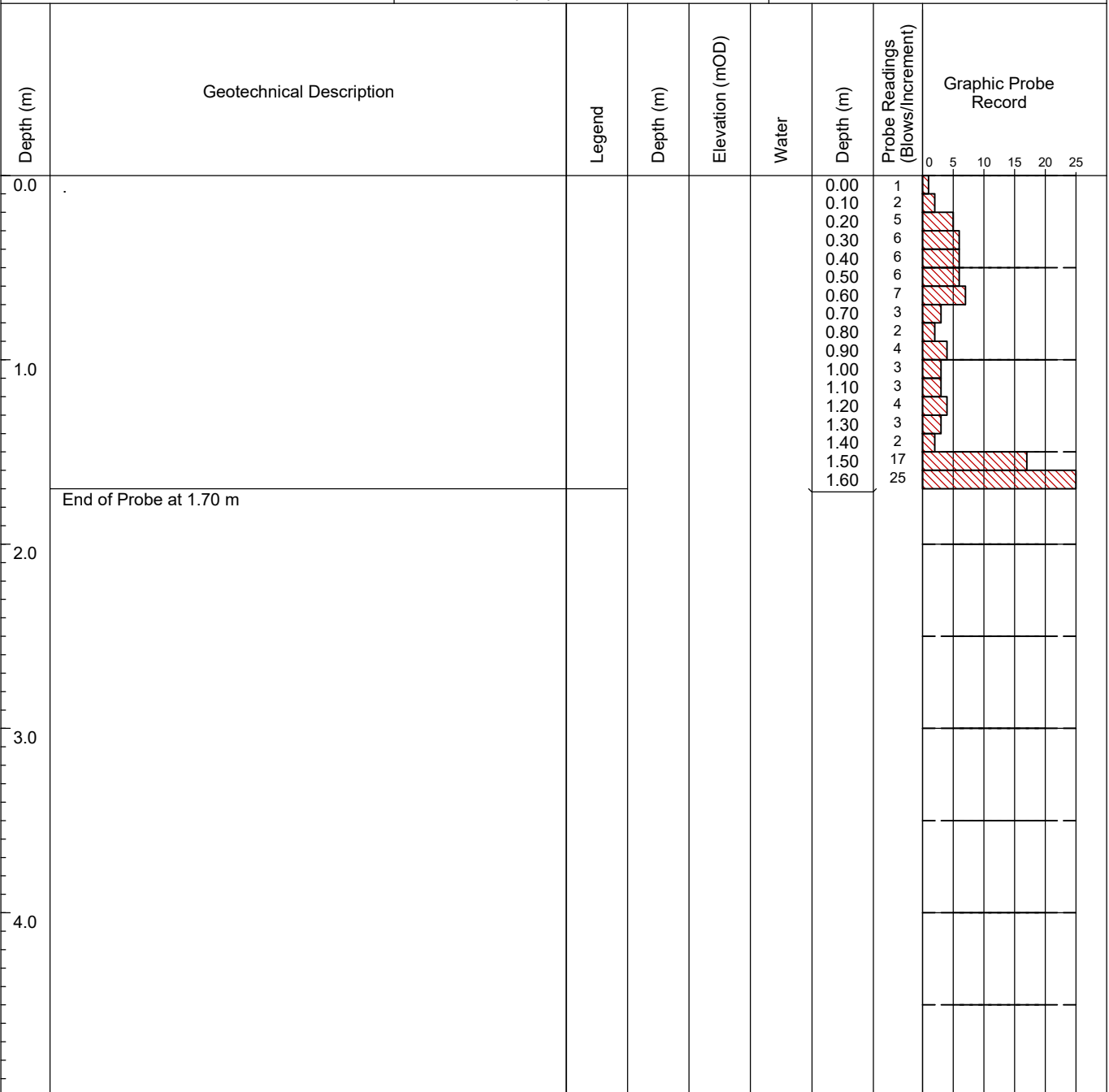
CLIENT Adwood Ltd

INCREMENT SIZE (mm) 100

ENGINEER DBFL

FALL HEIGHT (mm) 500

PROBE TYPE DPH



GROUNDWATER OBSERVATIONS

REMARKS



DYNAMIC PROBE RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

PROBE NO. DP18

SHEET Sheet 1 of 1

CO-ORDINATES

GROUND LEVEL (mOD)

HAMMER MASS (kg) 50

DATE DRILLED 21/01/2025

DATE LOGGED 23/01/2025

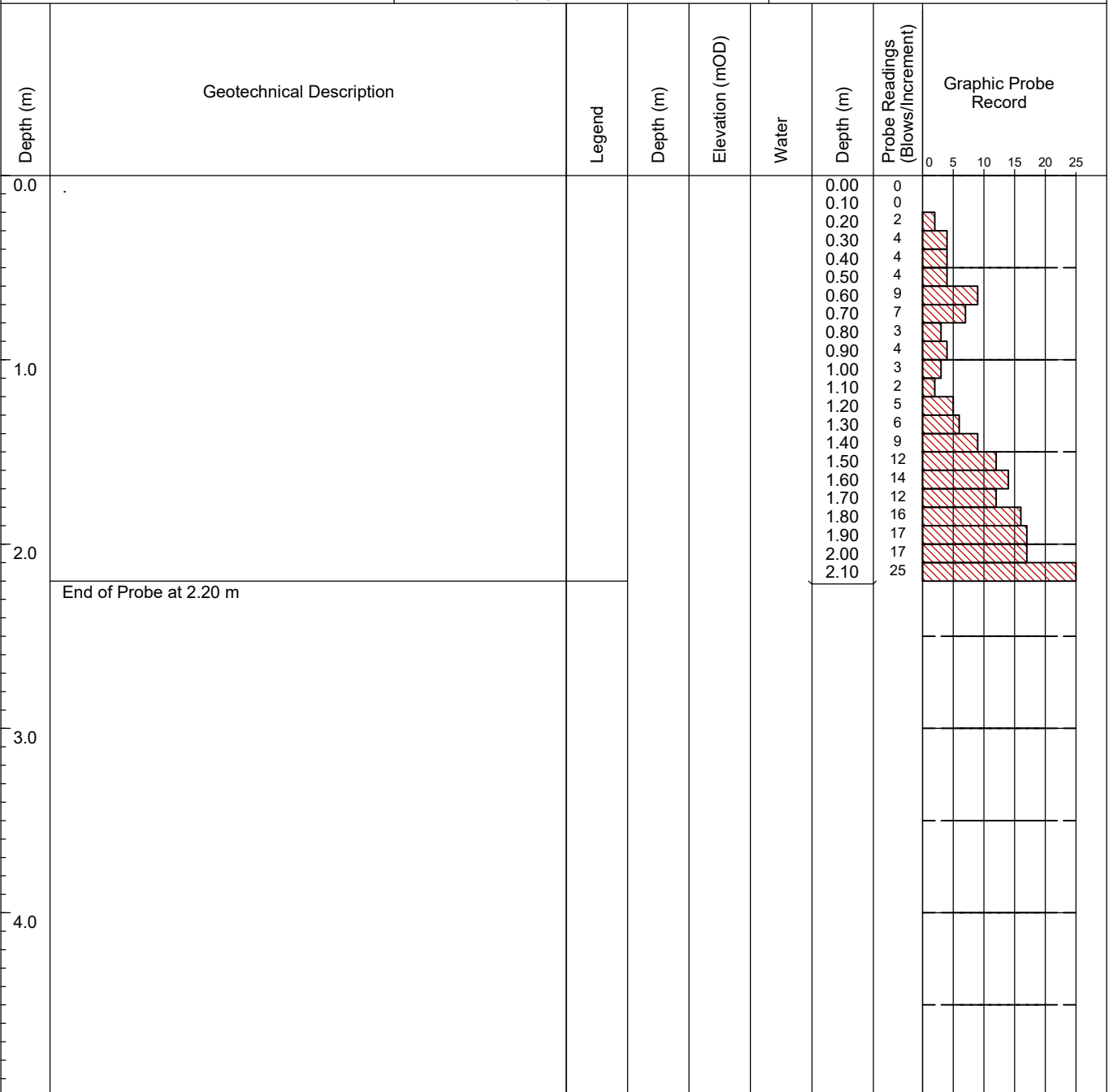
CLIENT Adwood Ltd

INCREMENT SIZE (mm) 100

ENGINEER DBFL

FALL HEIGHT (mm) 500

PROBE TYPE DPH



GROUNDWATER OBSERVATIONS

REMARKS



DYNAMIC PROBE RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

PROBE NO. DP19

SHEET Sheet 1 of 1

CO-ORDINATES

GROUND LEVEL (mOD)

HAMMER MASS (kg) 50

DATE DRILLED 21/01/2025

DATE LOGGED 23/01/2025

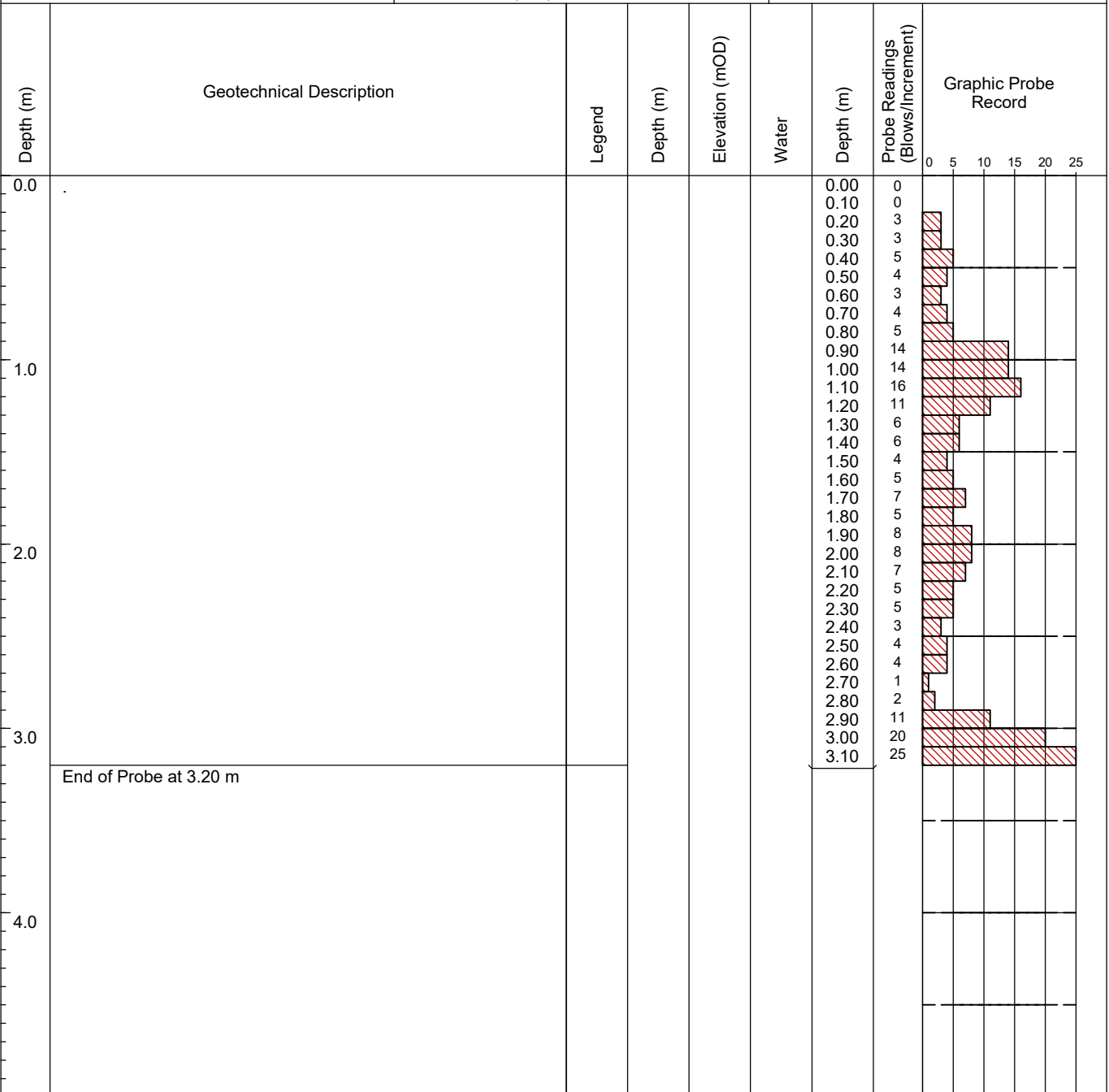
CLIENT Adwood Ltd

INCREMENT SIZE (mm) 100

ENGINEER DBFL

FALL HEIGHT (mm) 500

PROBE TYPE DPH



GROUNDWATER OBSERVATIONS

REMARKS



DYNAMIC PROBE RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

PROBE NO. DP20

SHEET Sheet 1 of 1

CO-ORDINATES

GROUND LEVEL (mOD)

HAMMER MASS (kg) 50

DATE DRILLED 21/01/2025

DATE LOGGED 23/01/2025

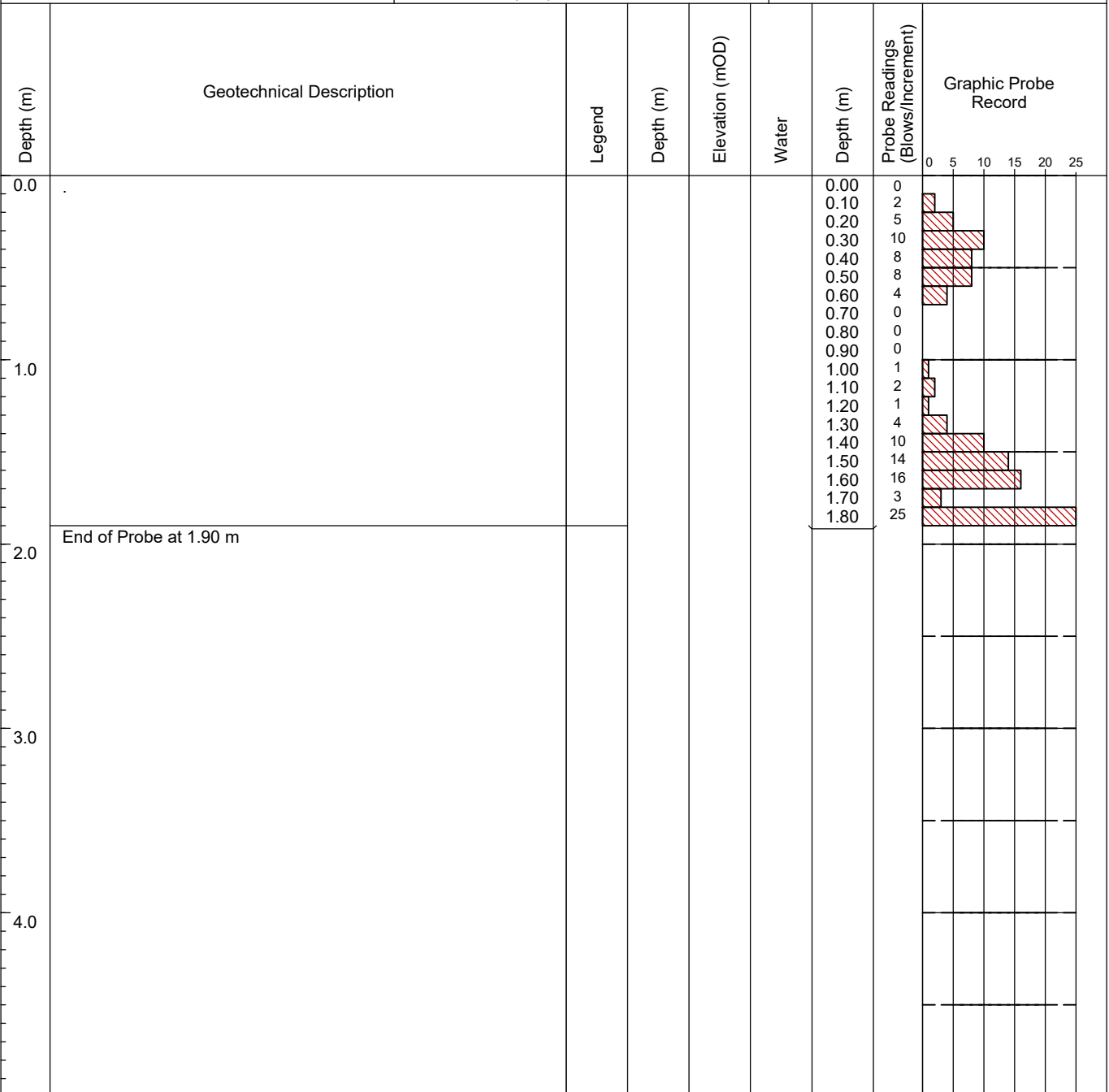
CLIENT Adwood Ltd

INCREMENT SIZE (mm) 100

ENGINEER DBFL

FALL HEIGHT (mm) 500

PROBE TYPE DPH



GROUNDWATER OBSERVATIONS

REMARKS



DYNAMIC PROBE RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

PROBE NO. DP21

SHEET Sheet 1 of 1

CO-ORDINATES

GROUND LEVEL (mOD)

HAMMER MASS (kg) 50

DATE DRILLED 21/01/2025

DATE LOGGED 23/01/2025

CLIENT Adwood Ltd

INCREMENT SIZE (mm) 100

ENGINEER DBFL

FALL HEIGHT (mm) 500

PROBE TYPE DPH

Depth (m)

Geotechnical Description

Legend

Depth (m)

Elevation (mOD)

Water

Depth (m)

Probe Readings
(Blows/Increment)

Graphic Probe Record

0 5 10 15 20 25

0.0

0.00

0

0.10

0.10

1

0.20

0.20

3

0.30

0.30

5

0.40

0.40

5

0.50

0.50

4

0.60

0.60

5

0.70

0.70

4

0.80

0.80

3

0.90

0.90

5

1.00

1.00

5

1.10

1.10

14

1.20

1.20

5

1.30

1.30

14

1.40

1.40

21

1.50

1.50

25

End of Probe at 1.60 m

1.0

3.0

4.0

GROUNDWATER OBSERVATIONS

REMARKS



DYNAMIC PROBE RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

PROBE NO. DP22

SHEET Sheet 1 of 1

CO-ORDINATES

GROUND LEVEL (mOD)

HAMMER MASS (kg) 50

DATE DRILLED 21/01/2025

DATE LOGGED 23/01/2025

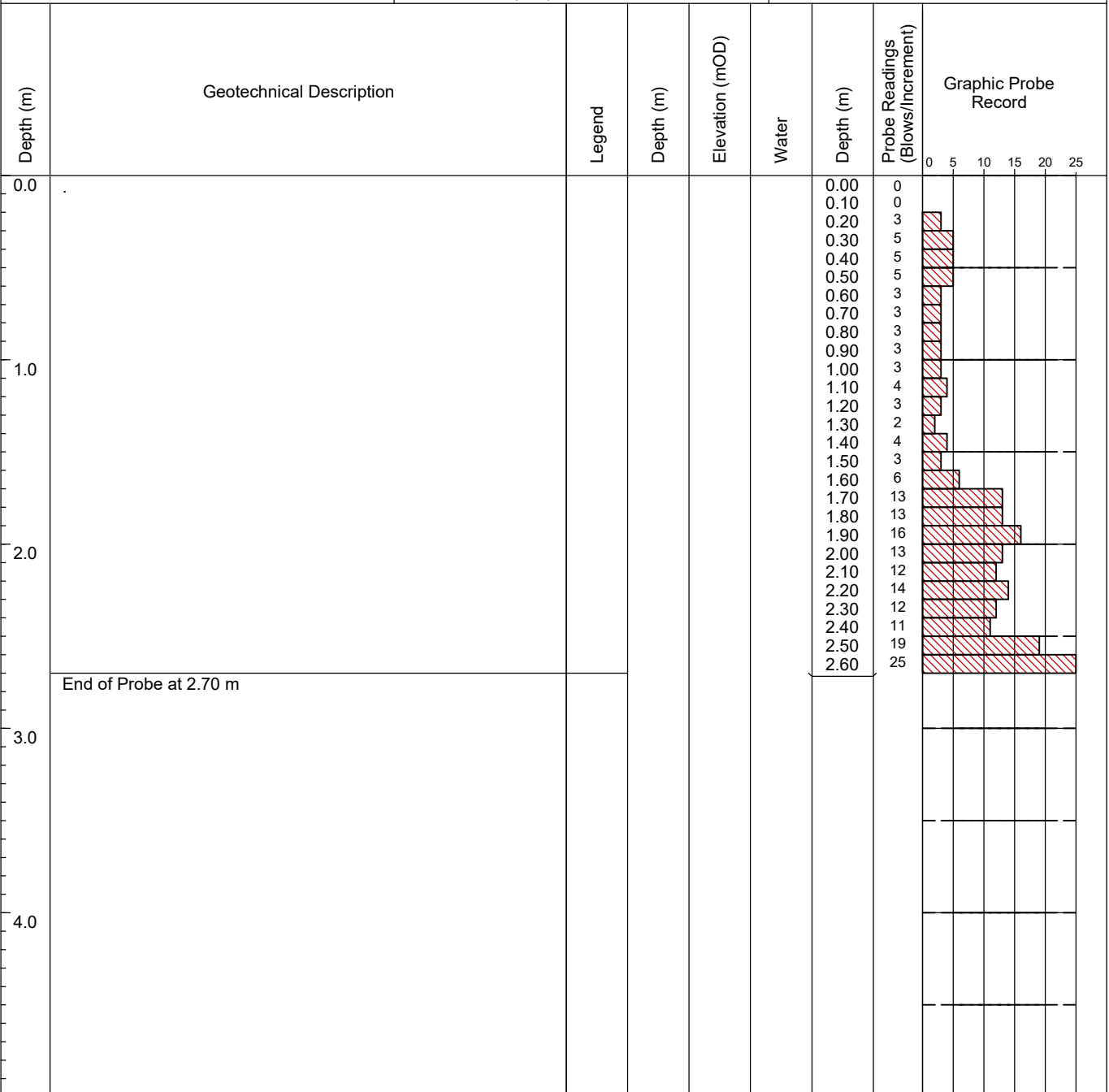
CLIENT Adwood Ltd

INCREMENT SIZE (mm) 100

ENGINEER DBFL

FALL HEIGHT (mm) 500

PROBE TYPE DPH



GROUNDWATER OBSERVATIONS

REMARKS



DYNAMIC PROBE RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

PROBE NO. DP23

SHEET Sheet 1 of 1

CO-ORDINATES

GROUND LEVEL (mOD)

HAMMER MASS (kg) 50

DATE DRILLED 21/01/2025

DATE LOGGED 23/01/2025

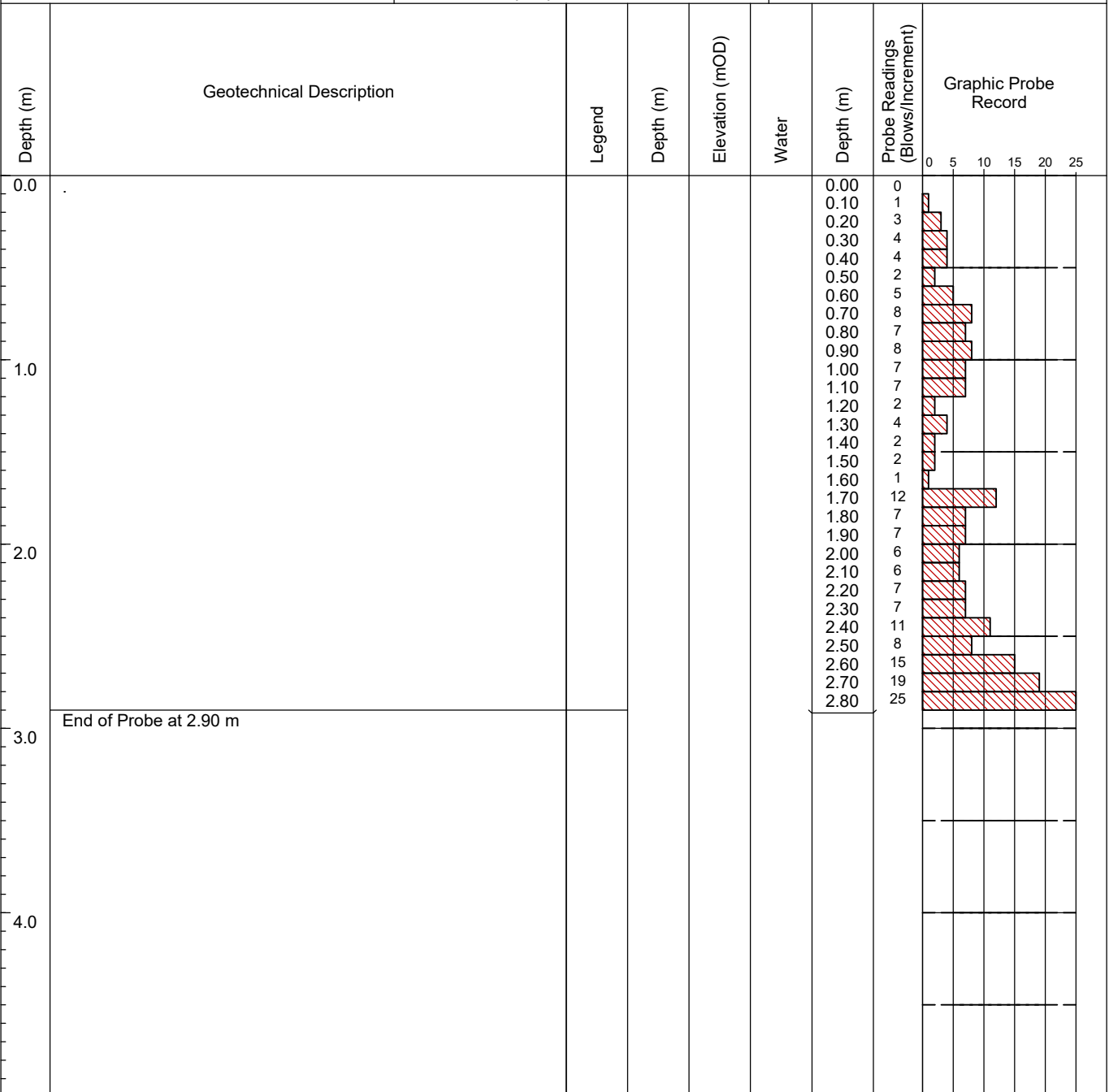
CLIENT Adwood Ltd

INCREMENT SIZE (mm) 100

ENGINEER DBFL

FALL HEIGHT (mm) 500

PROBE TYPE DPH



GROUNDWATER OBSERVATIONS

REMARKS



DYNAMIC PROBE RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

PROBE NO. DP24

SHEET Sheet 1 of 1

CO-ORDINATES

GROUND LEVEL (mOD)

HAMMER MASS (kg) 50

DATE DRILLED 21/01/2025

DATE LOGGED 23/01/2025

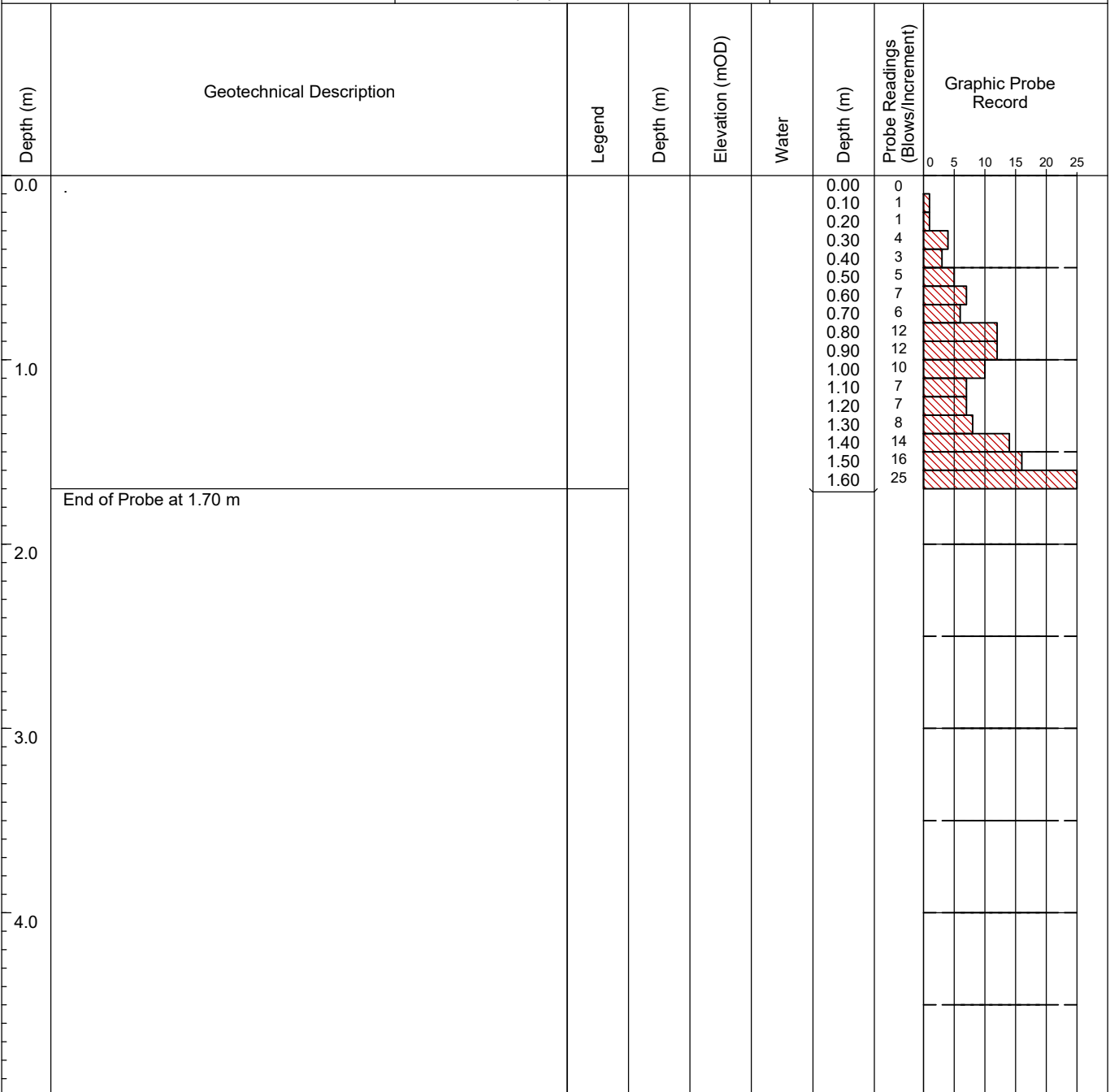
CLIENT Adwood Ltd

INCREMENT SIZE (mm) 100

ENGINEER DBFL

FALL HEIGHT (mm) 500

PROBE TYPE DPH



GROUNDWATER OBSERVATIONS

REMARKS



DYNAMIC PROBE RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

PROBE NO. DP25

SHEET Sheet 1 of 1

CO-ORDINATES

GROUND LEVEL (mOD)

HAMMER MASS (kg) 50

DATE DRILLED 21/01/2025

DATE LOGGED 23/01/2025

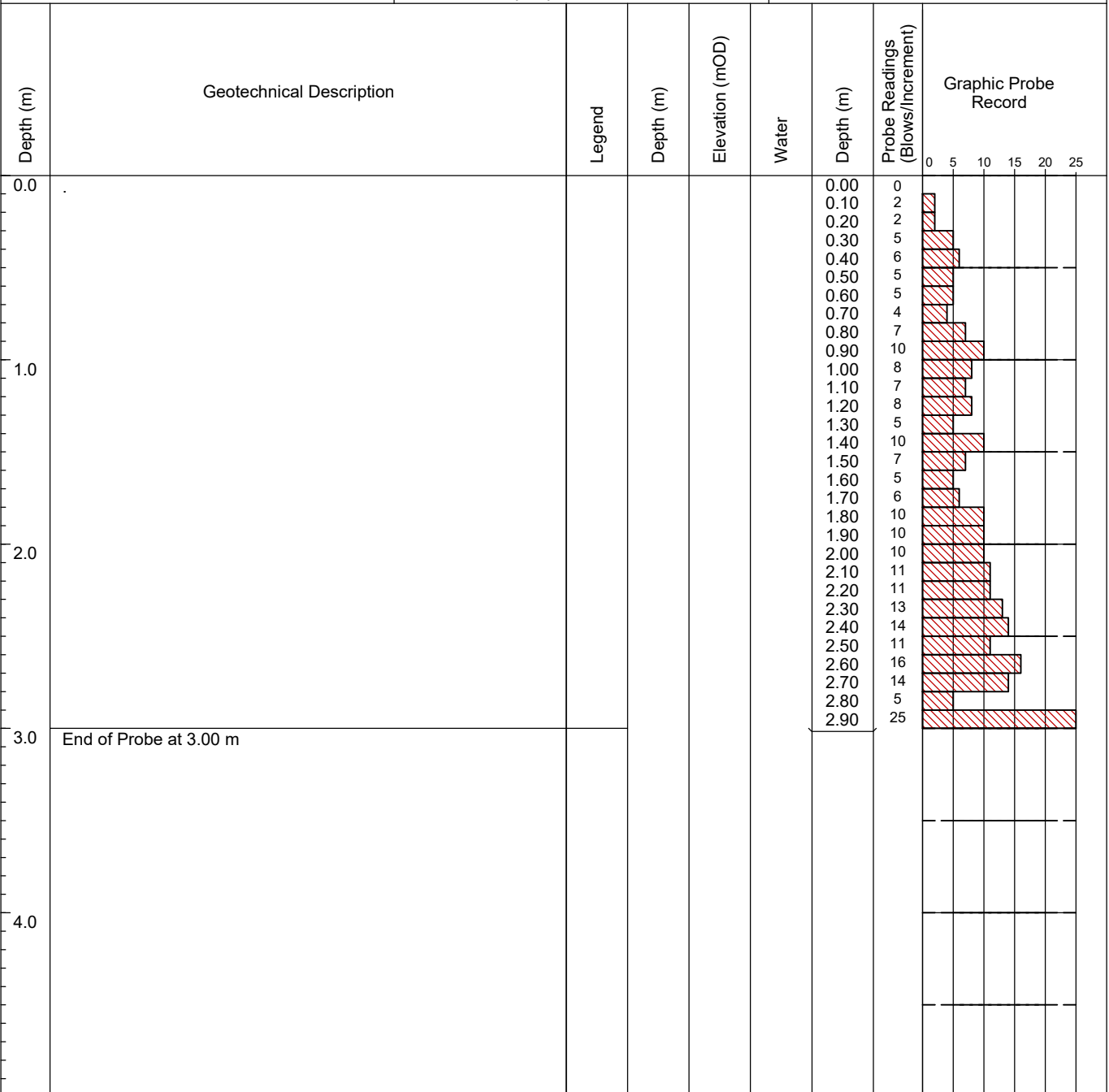
CLIENT Adwood Ltd

INCREMENT SIZE (mm) 100

ENGINEER DBFL

FALL HEIGHT (mm) 500

PROBE TYPE DPH



GROUNDWATER OBSERVATIONS

REMARKS



DYNAMIC PROBE RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

PROBE NO. DP26

SHEET Sheet 1 of 1

CO-ORDINATES

GROUND LEVEL (mOD)

HAMMER MASS (kg) 50

DATE DRILLED 21/01/2025

DATE LOGGED 23/01/2025

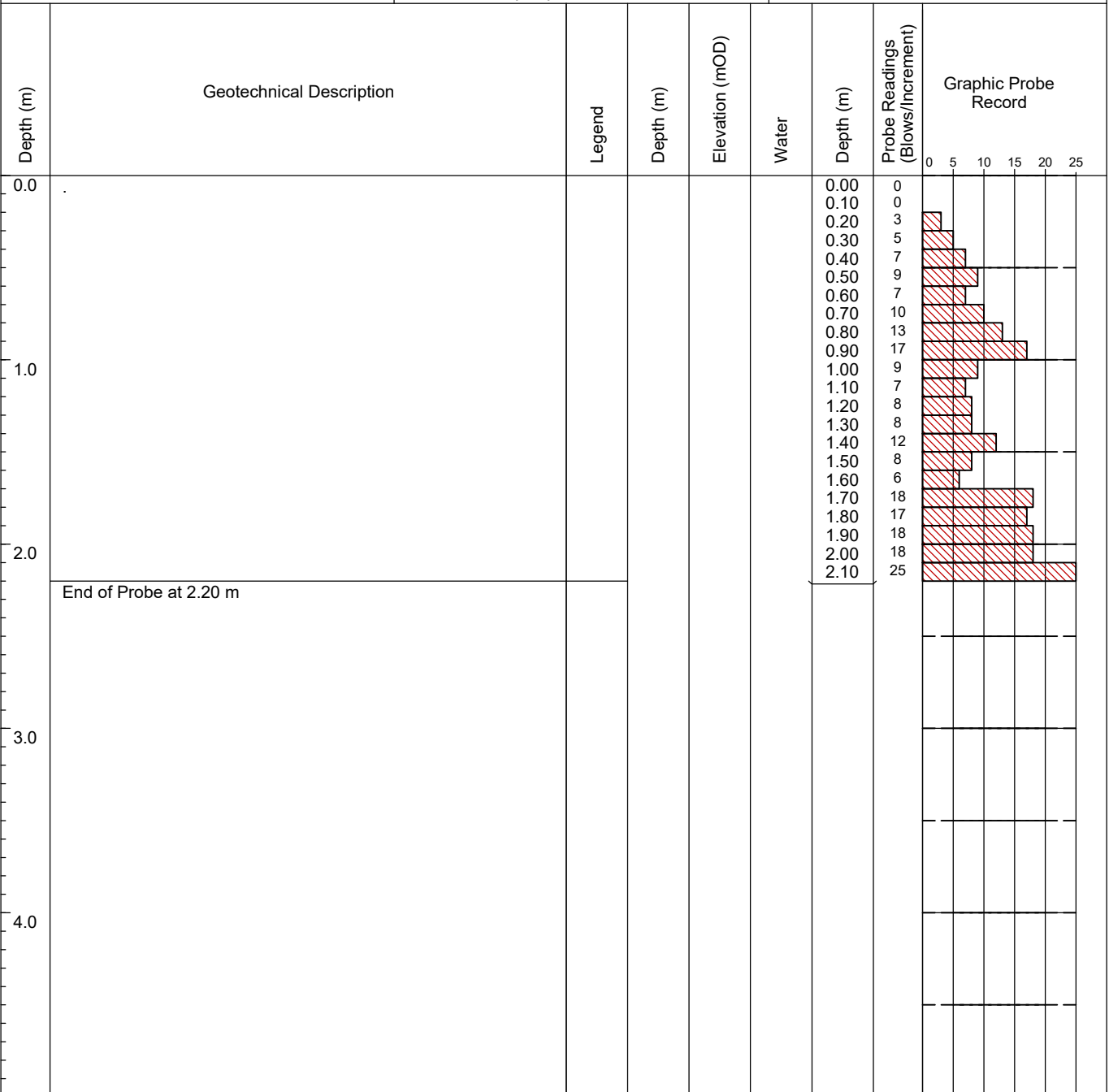
CLIENT Adwood Ltd

INCREMENT SIZE (mm) 100

ENGINEER DBFL

FALL HEIGHT (mm) 500

PROBE TYPE DPH



GROUNDWATER OBSERVATIONS

REMARKS



DYNAMIC PROBE RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

PROBE NO. DP27

SHEET Sheet 1 of 1

CO-ORDINATES

GROUND LEVEL (mOD)

HAMMER MASS (kg) 50

DATE DRILLED 21/01/2025

DATE LOGGED 23/01/2025

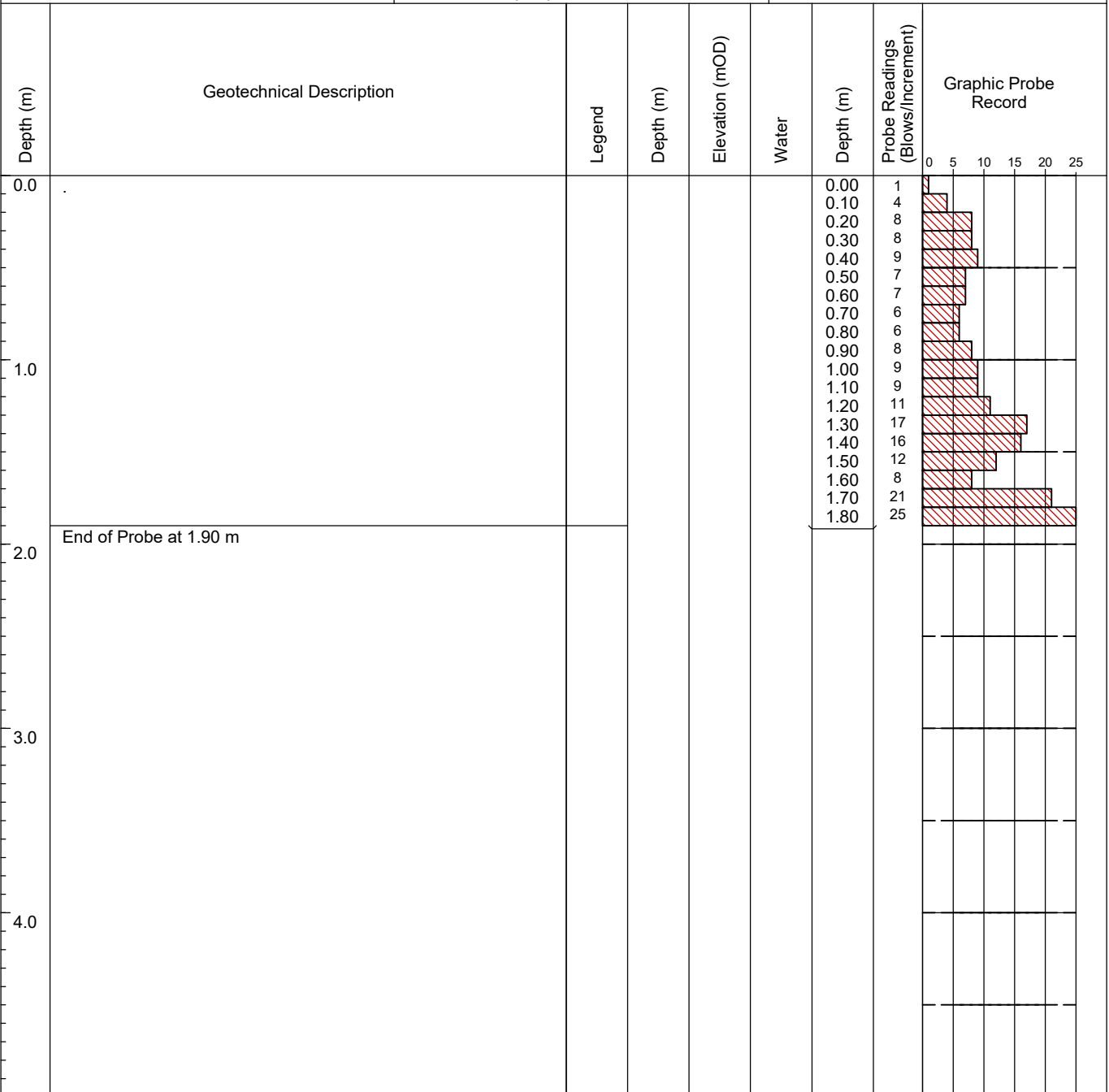
CLIENT Adwood Ltd

INCREMENT SIZE (mm) 100

ENGINEER DBFL

FALL HEIGHT (mm) 500

PROBE TYPE DPH



GROUNDWATER OBSERVATIONS

REMARKS



DYNAMIC PROBE RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

PROBE NO. DP28

SHEET Sheet 1 of 1

CO-ORDINATES

GROUND LEVEL (mOD)

HAMMER MASS (kg) 50

DATE DRILLED 21/01/2025

DATE LOGGED 23/01/2025

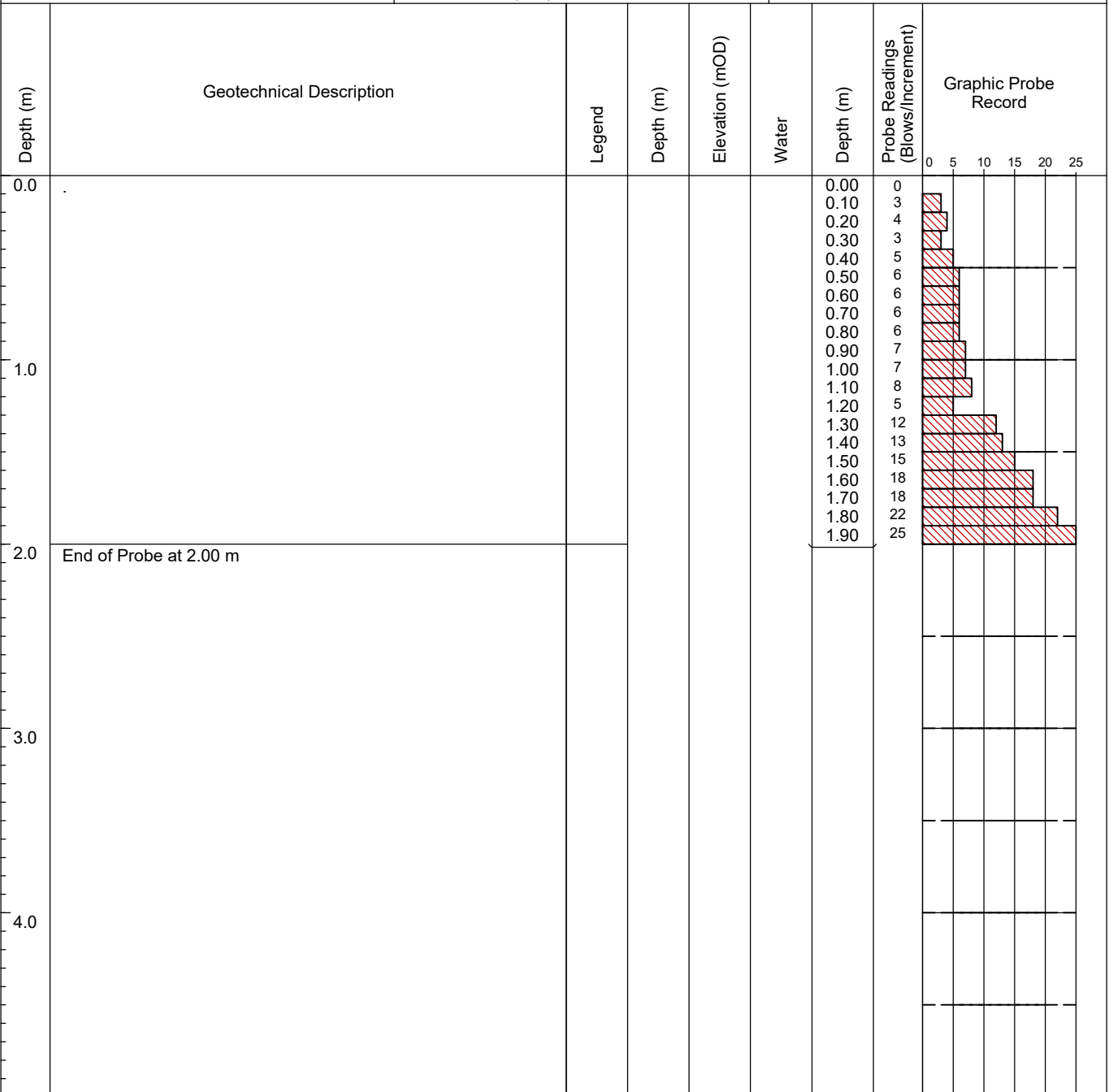
CLIENT Adwood Ltd

INCREMENT SIZE (mm) 100

ENGINEER DBFL

FALL HEIGHT (mm) 500

PROBE TYPE DPH



GROUNDWATER OBSERVATIONS

REMARKS



DYNAMIC PROBE RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

PROBE NO. DP29

SHEET Sheet 1 of 1

CO-ORDINATES

GROUND LEVEL (mOD)

HAMMER MASS (kg) 50

DATE DRILLED 21/01/2025

DATE LOGGED 23/01/2025

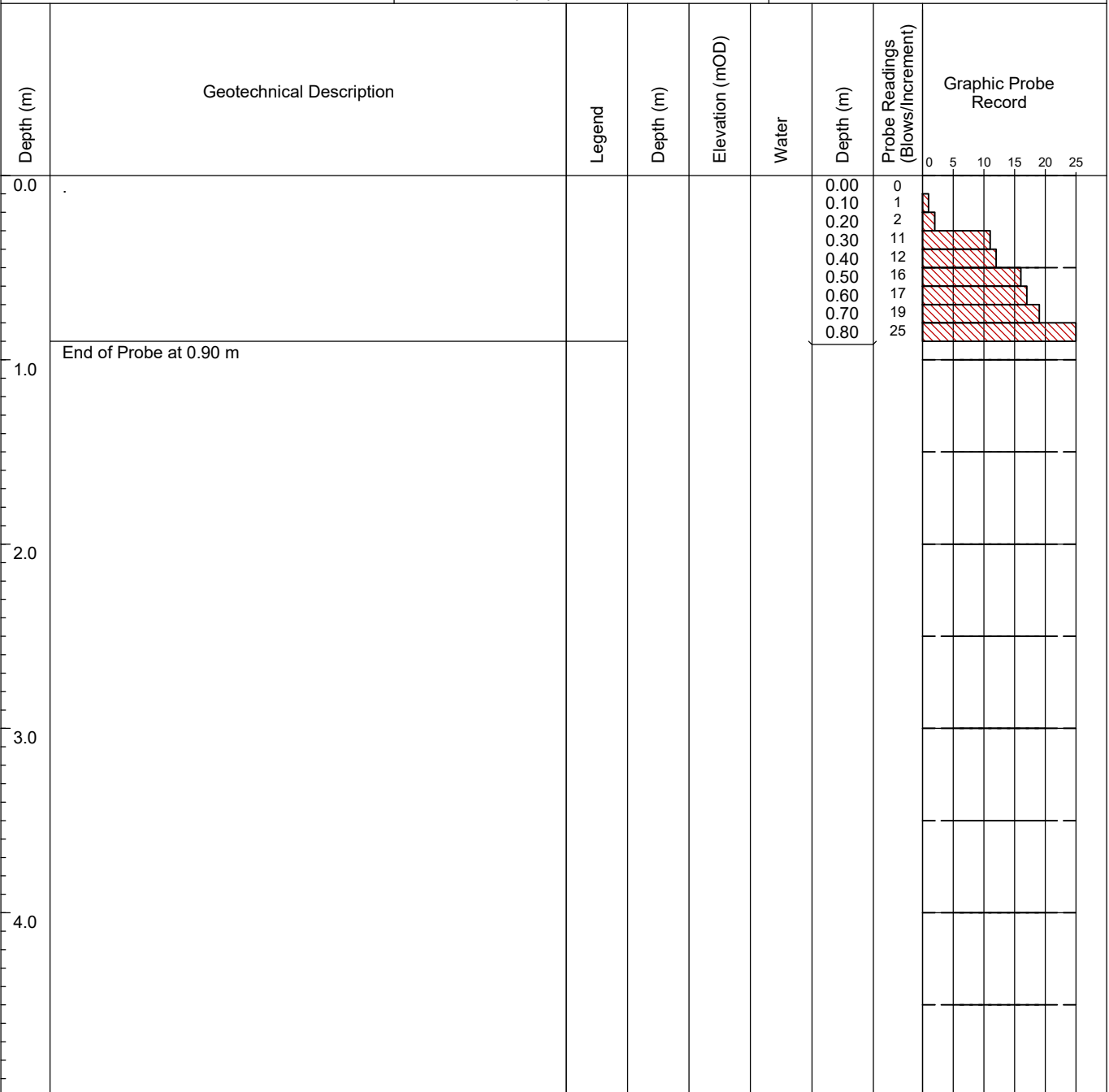
CLIENT Adwood Ltd

INCREMENT SIZE (mm) 100

ENGINEER DBFL

FALL HEIGHT (mm) 500

PROBE TYPE DPH



GROUNDWATER OBSERVATIONS

REMARKS



DYNAMIC PROBE RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

PROBE NO. DP30

SHEET Sheet 1 of 1

CO-ORDINATES

GROUND LEVEL (mOD)

HAMMER MASS (kg) 50

DATE DRILLED 21/01/2025

DATE LOGGED 23/01/2025

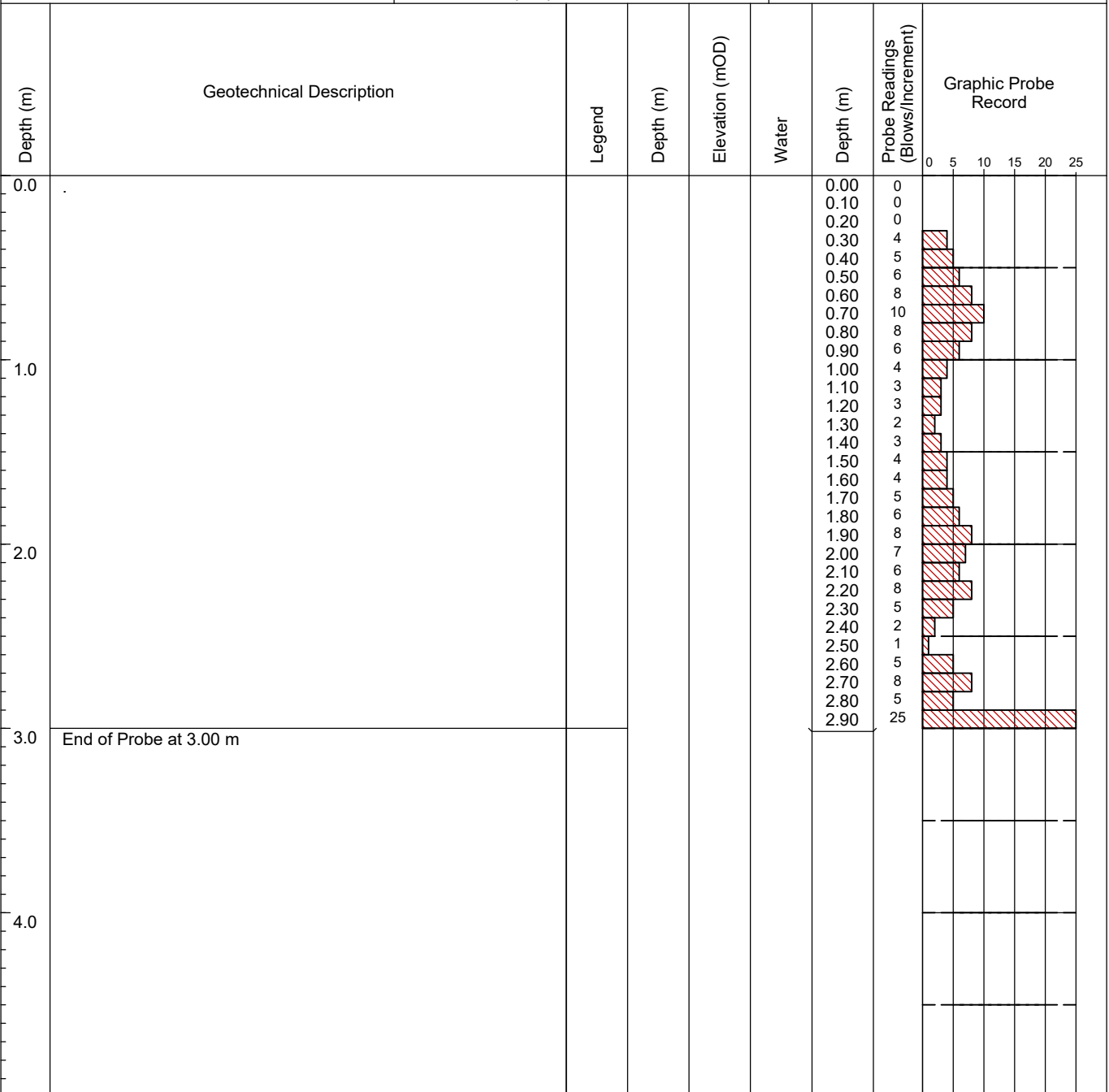
CLIENT Adwood Ltd

INCREMENT SIZE (mm) 100

ENGINEER DBFL

FALL HEIGHT (mm) 500

PROBE TYPE DPH



GROUNDWATER OBSERVATIONS

REMARKS



DYNAMIC PROBE RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

PROBE NO. DP31

SHEET Sheet 1 of 1

CO-ORDINATES

GROUND LEVEL (mOD)

HAMMER MASS (kg) 50

DATE DRILLED 21/01/2025

DATE LOGGED 23/01/2025

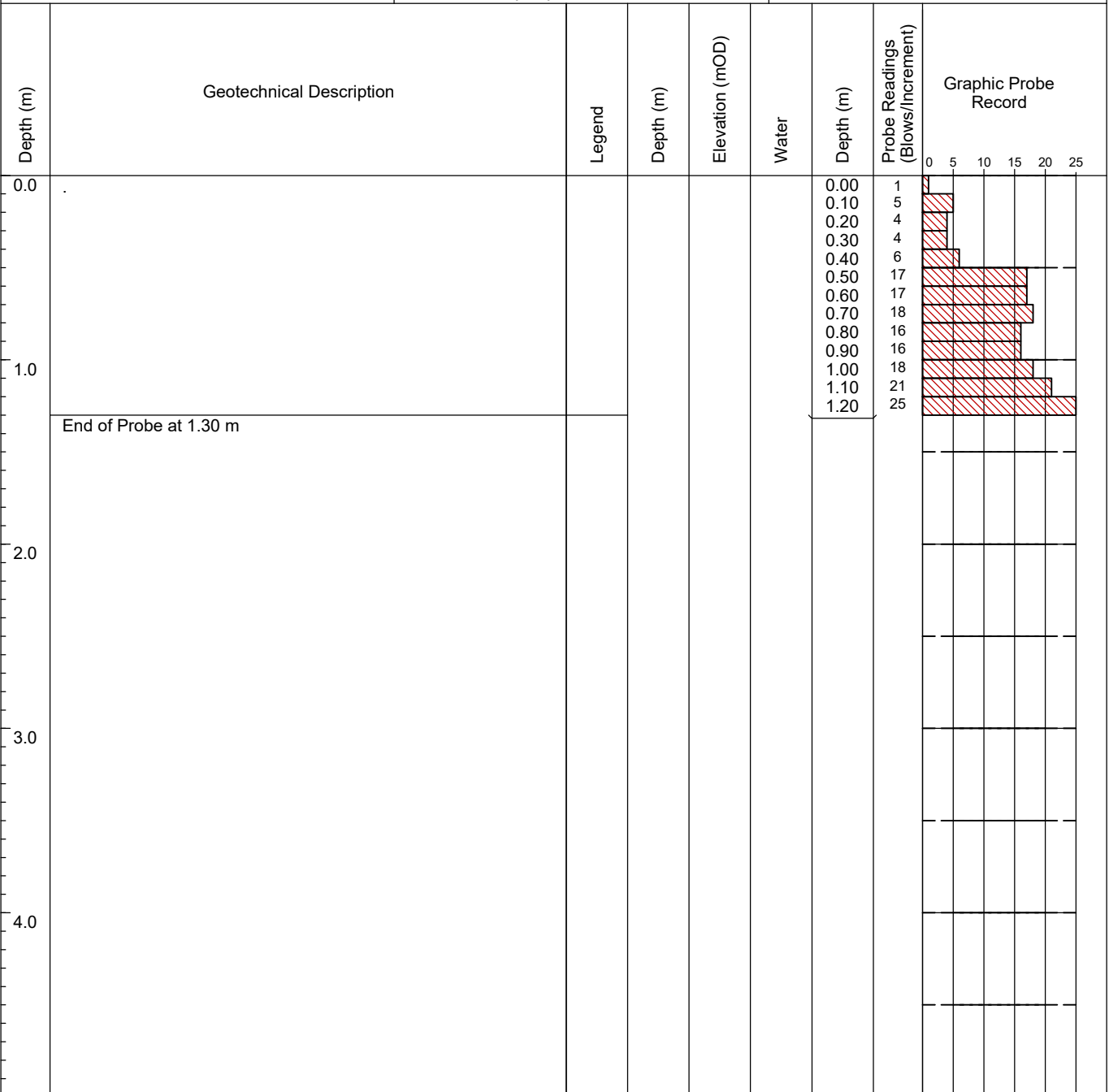
CLIENT Adwood Ltd

INCREMENT SIZE (mm) 100

ENGINEER DBFL

FALL HEIGHT (mm) 500

PROBE TYPE DPH



GROUNDWATER OBSERVATIONS

REMARKS



DYNAMIC PROBE RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

PROBE NO. DP32

SHEET Sheet 1 of 1

CO-ORDINATES

GROUND LEVEL (mOD)

HAMMER MASS (kg) 50

DATE DRILLED 21/01/2025

DATE LOGGED 23/01/2025

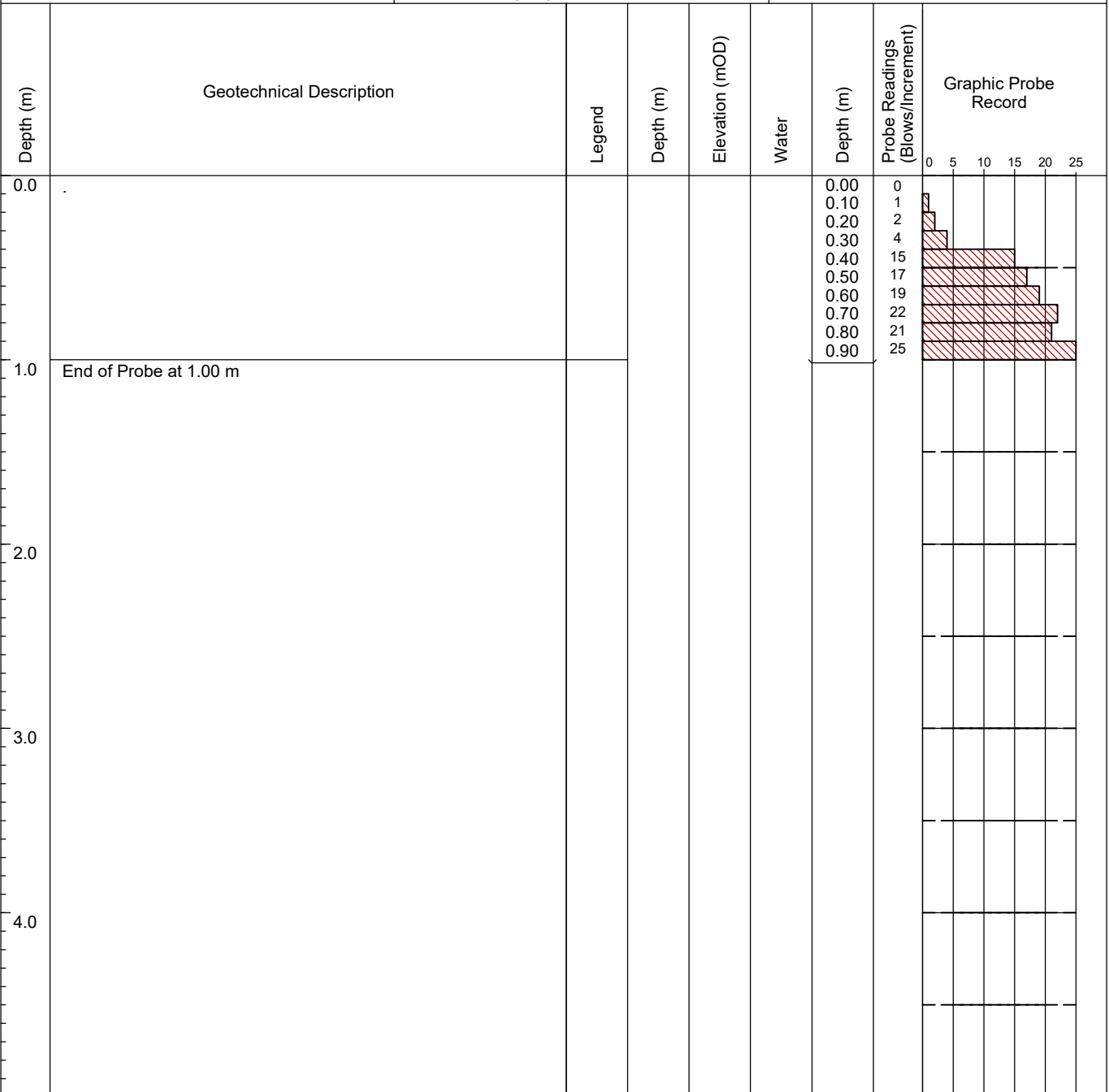
CLIENT Adwood Ltd

INCREMENT SIZE (mm) 100

ENGINEER DBFL

FALL HEIGHT (mm) 500

PROBE TYPE DPH



GROUNDWATER OBSERVATIONS

REMARKS



DYNAMIC PROBE RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

PROBE NO. DP33

SHEET Sheet 1 of 1

CO-ORDINATES

GROUND LEVEL (mOD)

HAMMER MASS (kg) 50

DATE DRILLED 21/01/2025

DATE LOGGED 23/01/2025

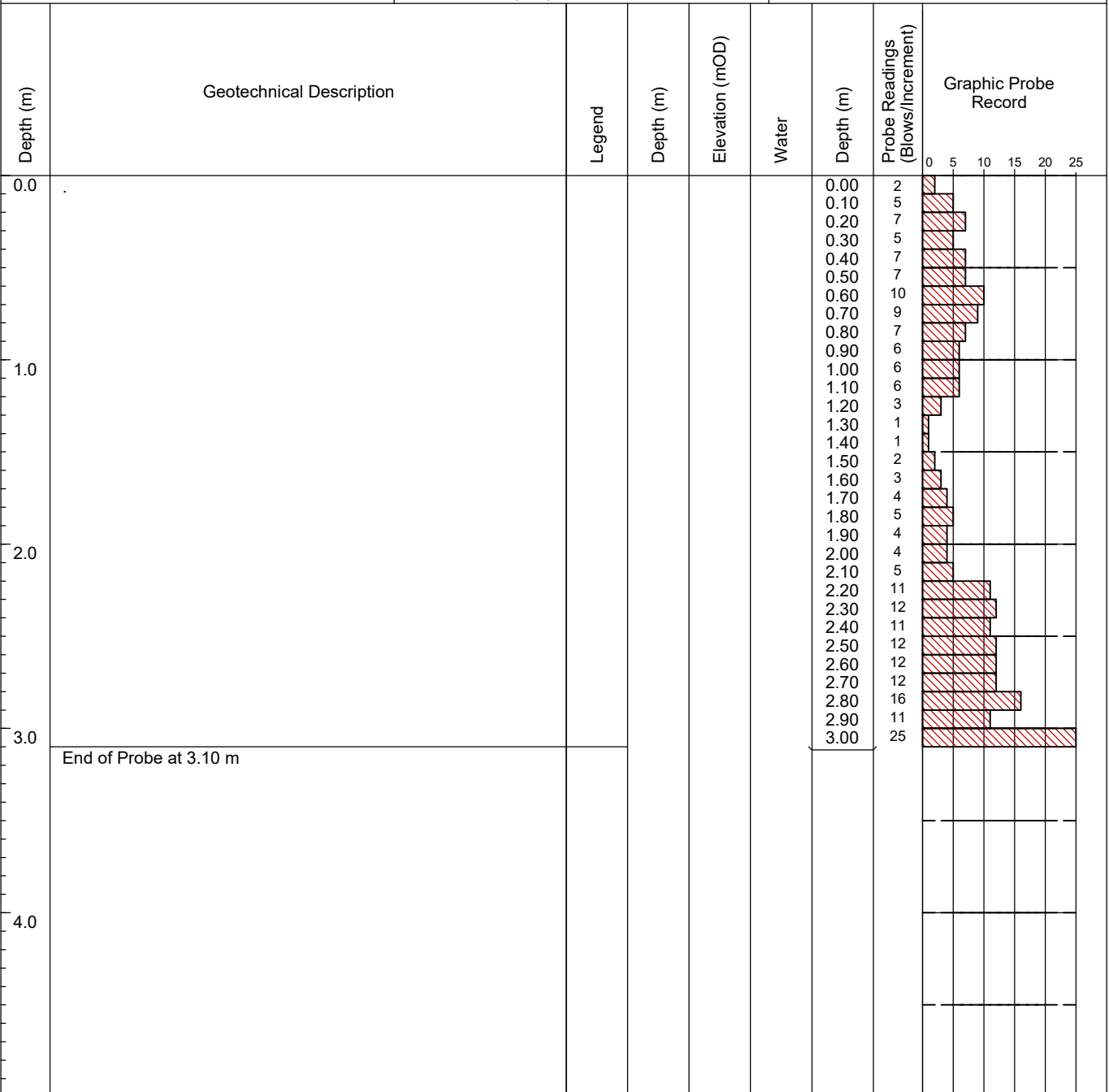
CLIENT Adwood Ltd

INCREMENT SIZE (mm) 100

ENGINEER DBFL

FALL HEIGHT (mm) 500

PROBE TYPE DPH



GROUNDWATER OBSERVATIONS

REMARKS



DYNAMIC PROBE RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

PROBE NO. DP34

SHEET Sheet 1 of 1

CO-ORDINATES

GROUND LEVEL (mOD)

HAMMER MASS (kg) 50

DATE DRILLED 21/01/2025

DATE LOGGED 23/01/2025

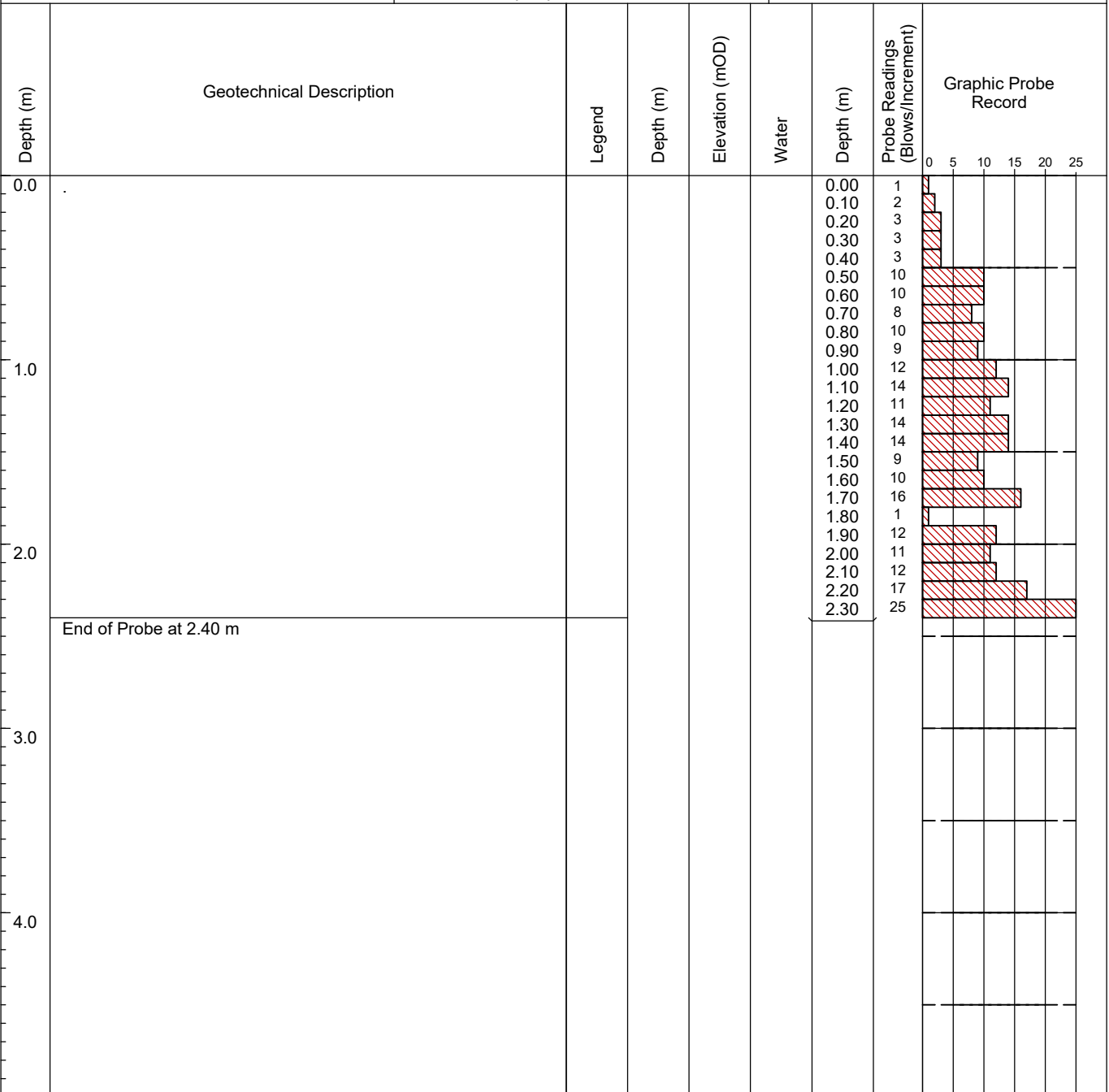
CLIENT Adwood Ltd

INCREMENT SIZE (mm) 100

ENGINEER DBFL

FALL HEIGHT (mm) 500

PROBE TYPE DPH



GROUNDWATER OBSERVATIONS

REMARKS



DYNAMIC PROBE RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

PROBE NO. DP35

SHEET Sheet 1 of 1

CO-ORDINATES

GROUND LEVEL (mOD)

HAMMER MASS (kg) 50

DATE DRILLED 21/01/2025

DATE LOGGED 23/01/2025

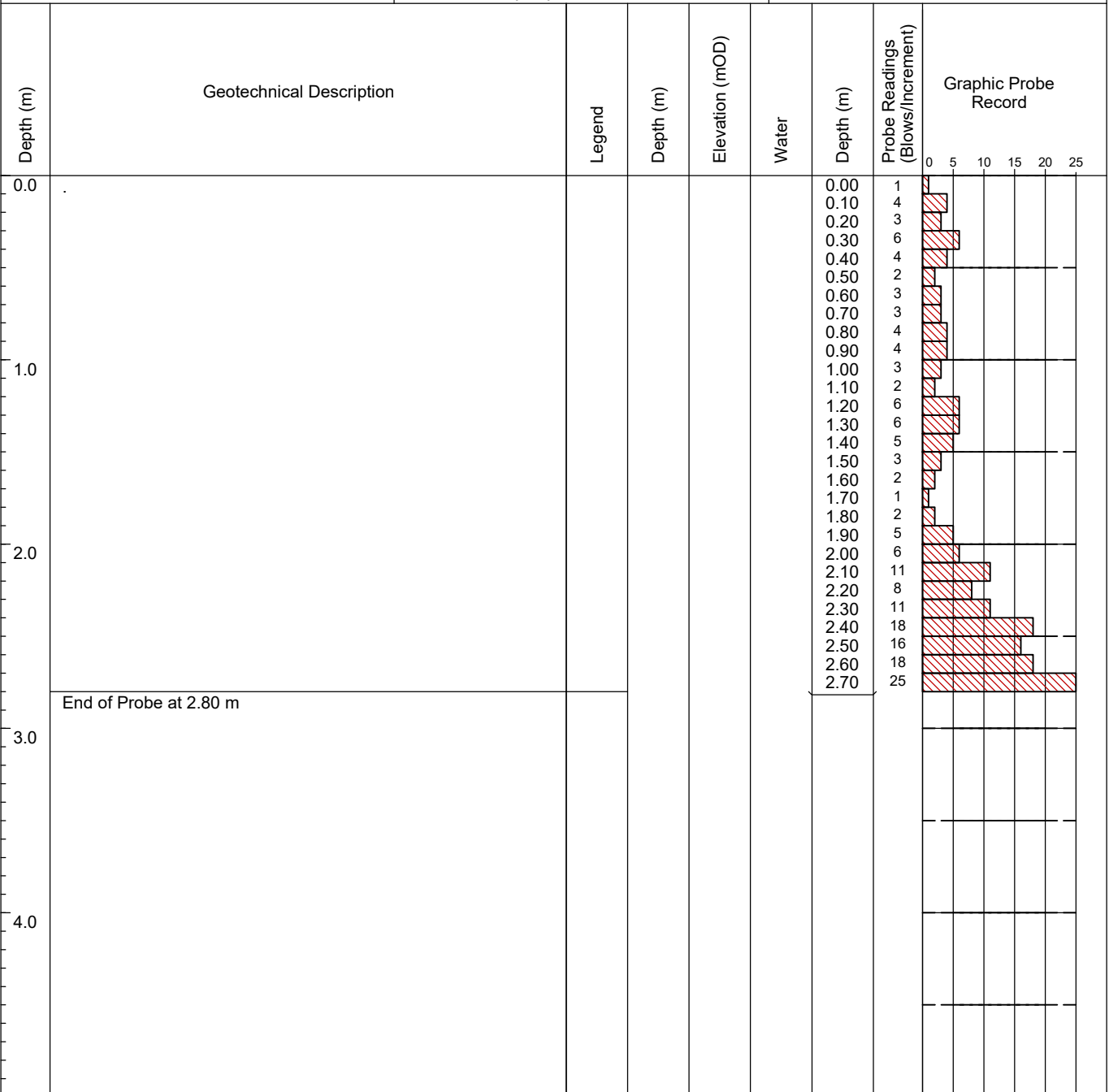
CLIENT Adwood Ltd

INCREMENT SIZE (mm) 100

ENGINEER DBFL

FALL HEIGHT (mm) 500

PROBE TYPE DPH



GROUNDWATER OBSERVATIONS

REMARKS



DYNAMIC PROBE RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

PROBE NO. DP38

SHEET Sheet 1 of 1

CO-ORDINATES

GROUND LEVEL (mOD)

HAMMER MASS (kg) 50

DATE DRILLED 07/01/2025

DATE LOGGED 10/01/2025

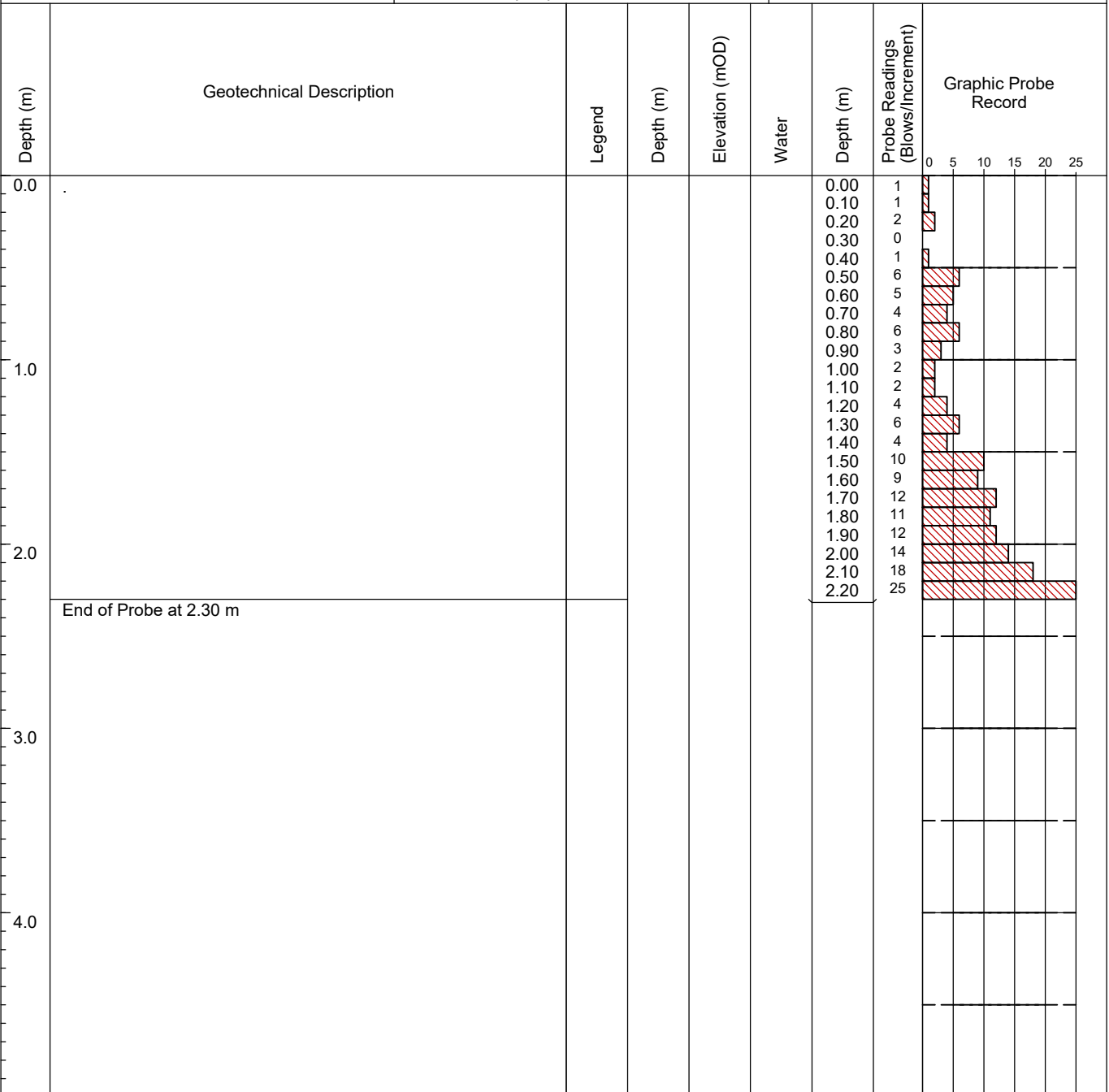
CLIENT Adwood Ltd

INCREMENT SIZE (mm) 100

ENGINEER DBFL

FALL HEIGHT (mm) 500

PROBE TYPE DPH



GROUNDWATER OBSERVATIONS

REMARKS



DYNAMIC PROBE RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

PROBE NO. DP39

SHEET Sheet 1 of 1

CO-ORDINATES

GROUND LEVEL (mOD)

HAMMER MASS (kg) 50

DATE DRILLED 07/01/2025

DATE LOGGED 10/01/2025

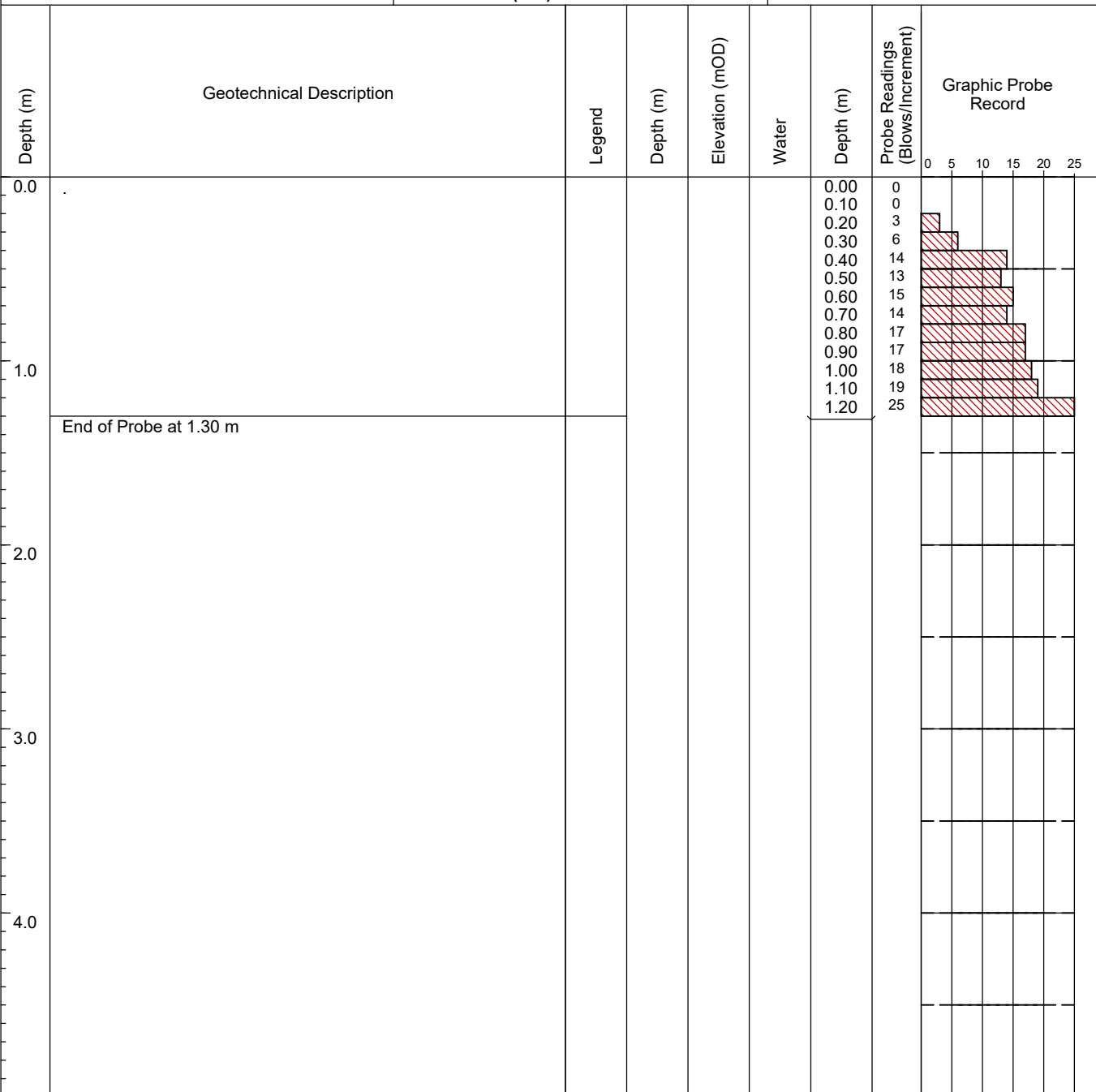
CLIENT Adwood Ltd

INCREMENT SIZE (mm) 100

ENGINEER DBFL

FALL HEIGHT (mm) 500

PROBE TYPE DPH



GROUNDWATER OBSERVATIONS

REMARKS



DYNAMIC PROBE RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

PROBE NO. DP40

SHEET Sheet 1 of 1

CO-ORDINATES

GROUND LEVEL (mOD)

HAMMER MASS (kg) 50

DATE DRILLED 07/01/2025

DATE LOGGED 10/01/2025

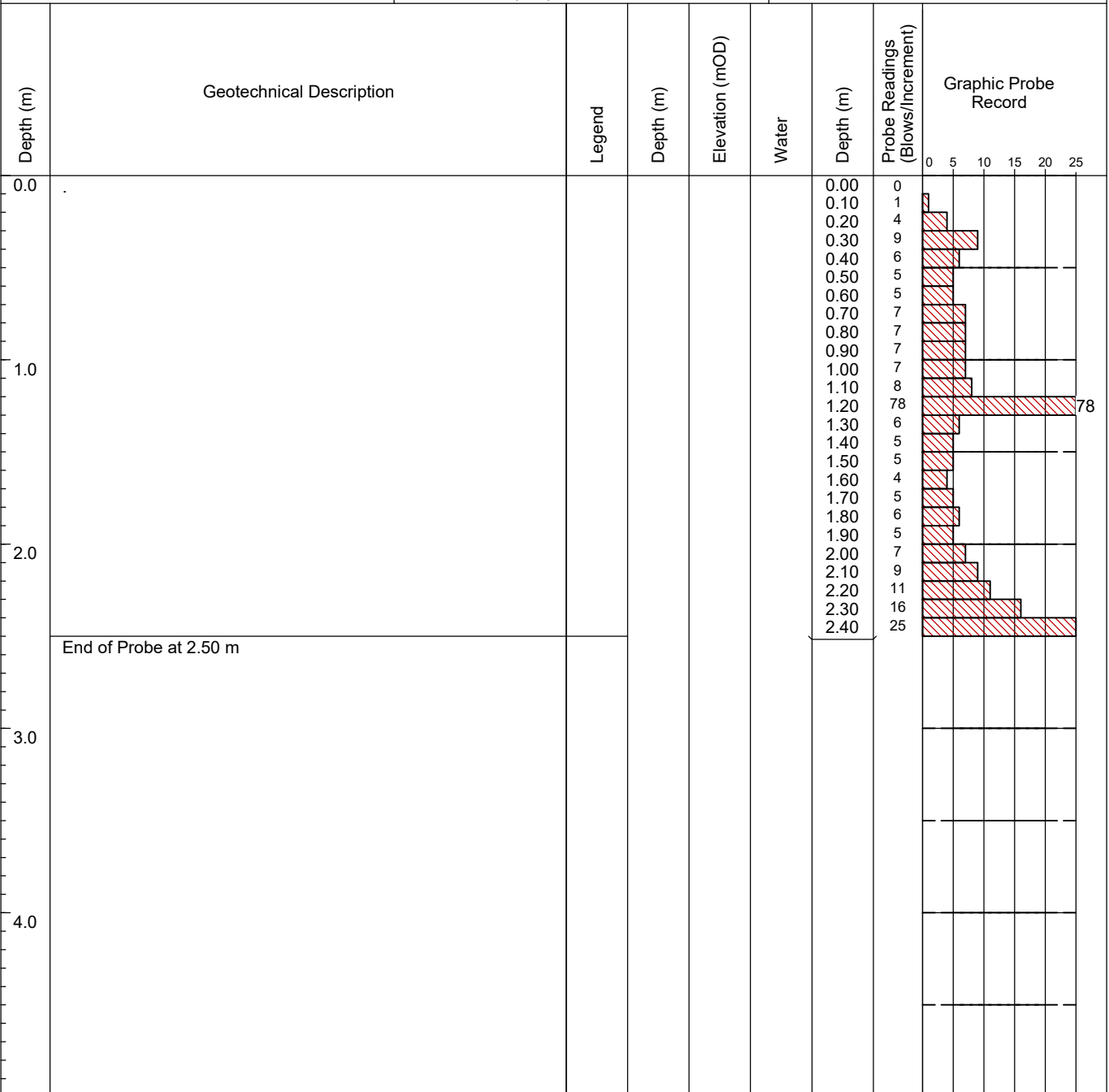
CLIENT Adwood Ltd

INCREMENT SIZE (mm) 100

ENGINEER DBFL

FALL HEIGHT (mm) 500

PROBE TYPE DPH



GROUNDWATER OBSERVATIONS

REMARKS



DYNAMIC PROBE RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

PROBE NO. DP41

SHEET Sheet 1 of 1

CO-ORDINATES

GROUND LEVEL (mOD)

HAMMER MASS (kg) 50

DATE DRILLED 07/01/2025

DATE LOGGED 10/01/2025

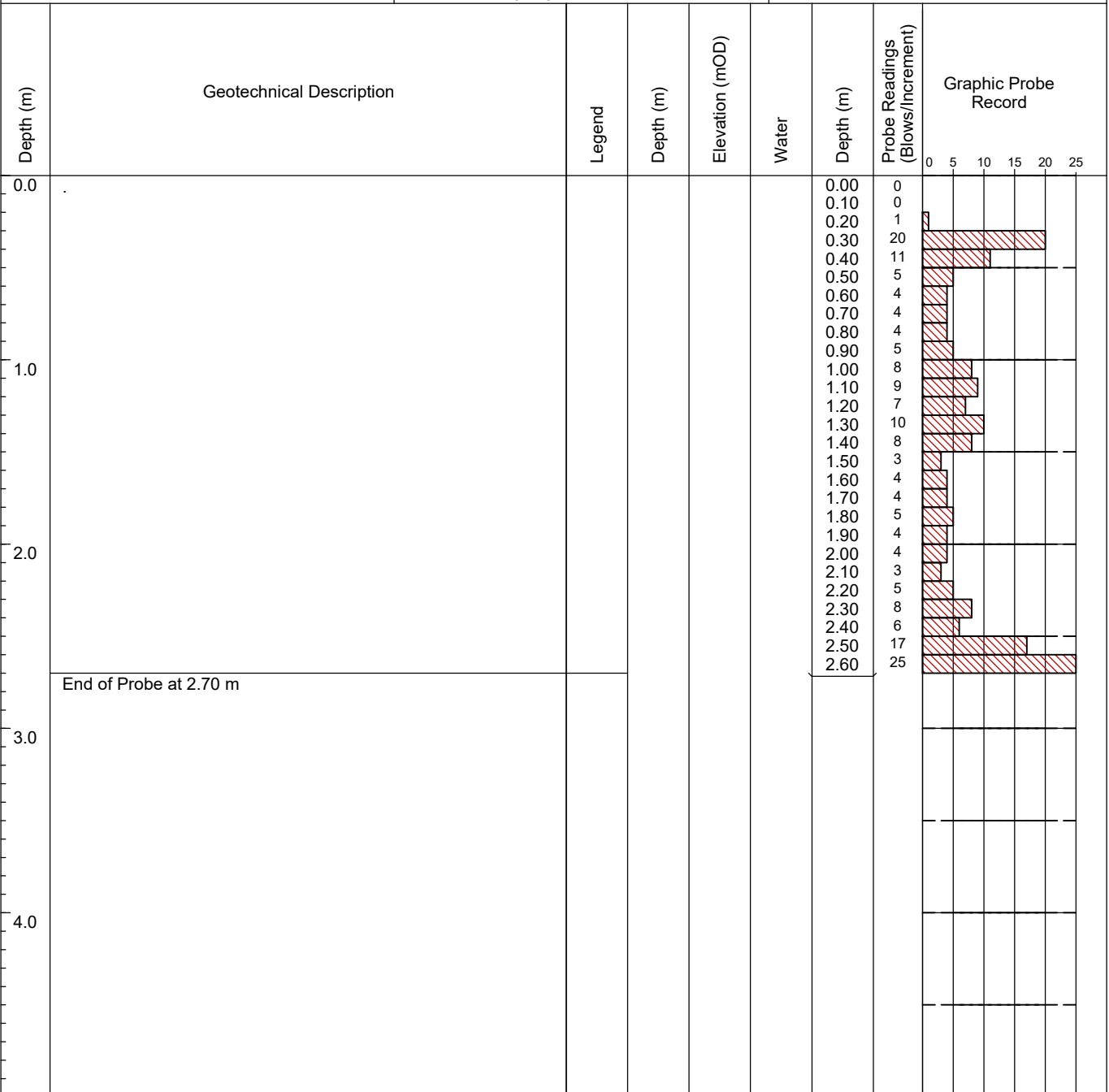
CLIENT Adwood Ltd

INCREMENT SIZE (mm) 100

ENGINEER DBFL

FALL HEIGHT (mm) 500

PROBE TYPE DPH



GROUNDWATER OBSERVATIONS

REMARKS



DYNAMIC PROBE RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

PROBE NO. DP42

SHEET Sheet 1 of 1

CO-ORDINATES

GROUND LEVEL (mOD)

HAMMER MASS (kg) 50

DATE DRILLED 07/01/2025

DATE LOGGED 10/01/2025

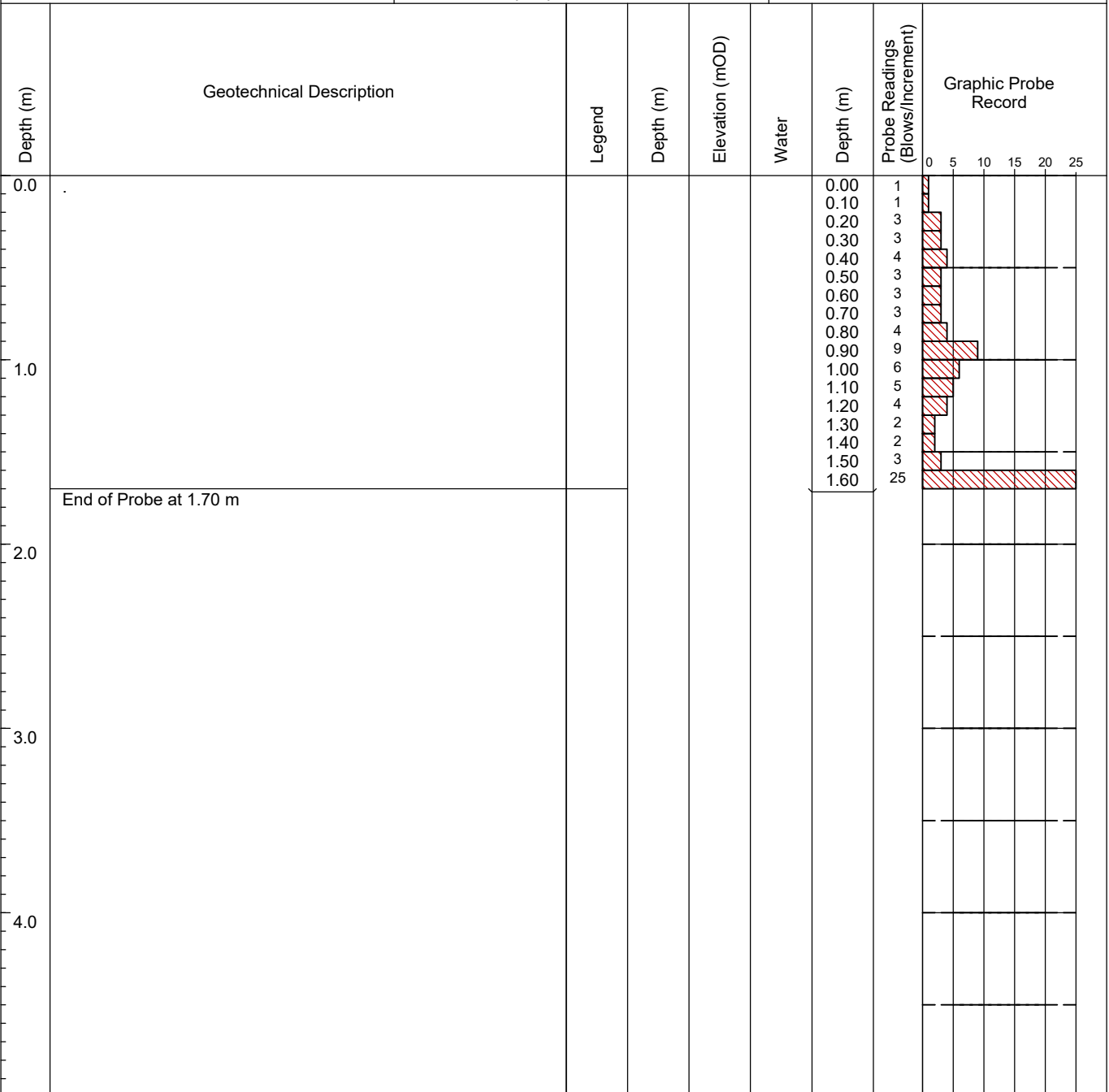
CLIENT Adwood Ltd

INCREMENT SIZE (mm) 100

ENGINEER DBFL

FALL HEIGHT (mm) 500

PROBE TYPE DPH



GROUNDWATER OBSERVATIONS

REMARKS



DYNAMIC PROBE RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

PROBE NO. DP43

SHEET Sheet 1 of 1

CO-ORDINATES

GROUND LEVEL (mOD)

HAMMER MASS (kg) 50

DATE DRILLED 07/01/2025

DATE LOGGED 10/01/2025

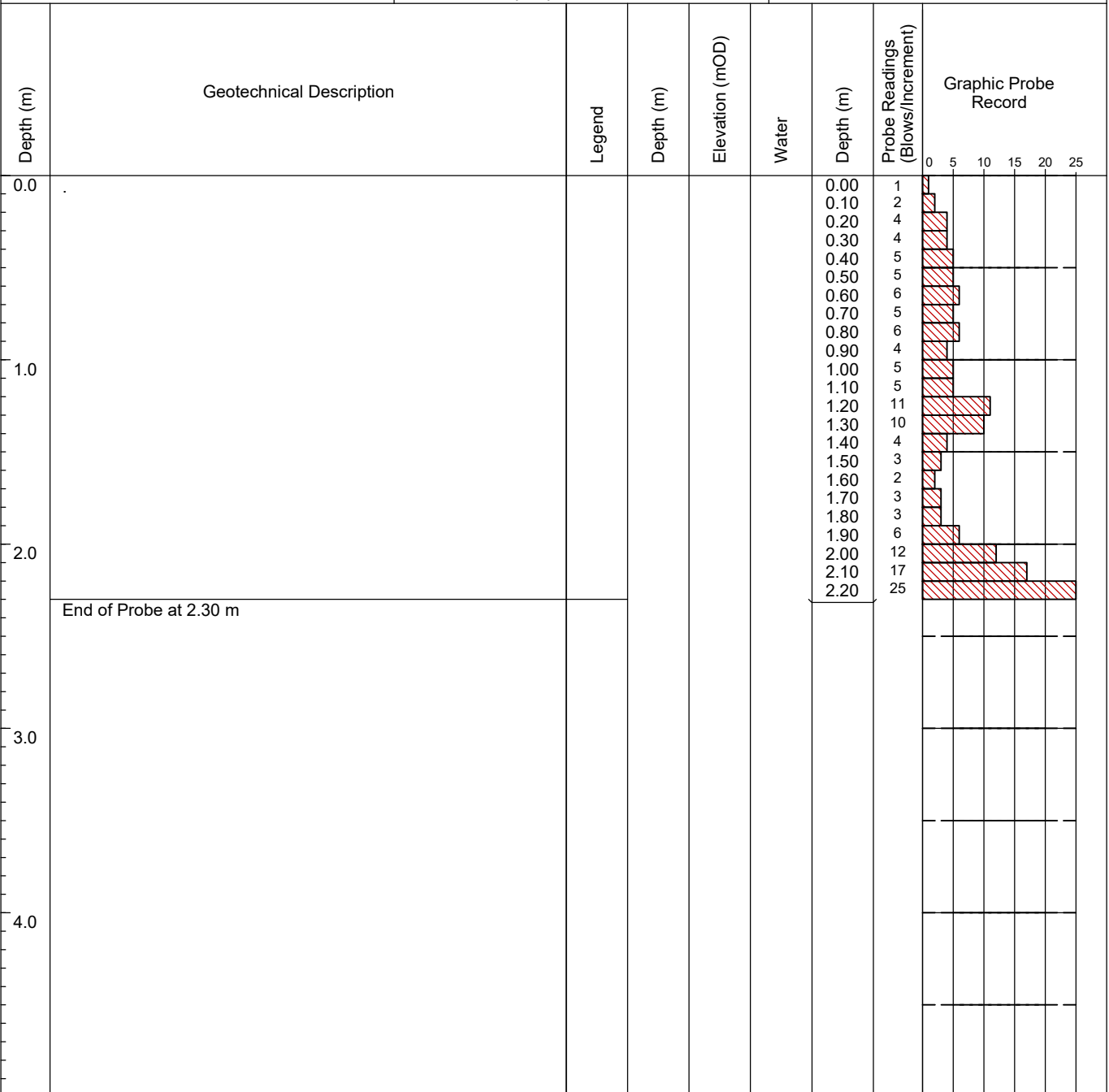
CLIENT Adwood Ltd

INCREMENT SIZE (mm) 100

ENGINEER DBFL

FALL HEIGHT (mm) 500

PROBE TYPE DPH



GROUNDWATER OBSERVATIONS

REMARKS



DYNAMIC PROBE RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

PROBE NO. DP44

SHEET Sheet 1 of 1

CO-ORDINATES

GROUND LEVEL (mOD)

HAMMER MASS (kg) 50

DATE DRILLED 07/01/2025

DATE LOGGED 10/01/2025

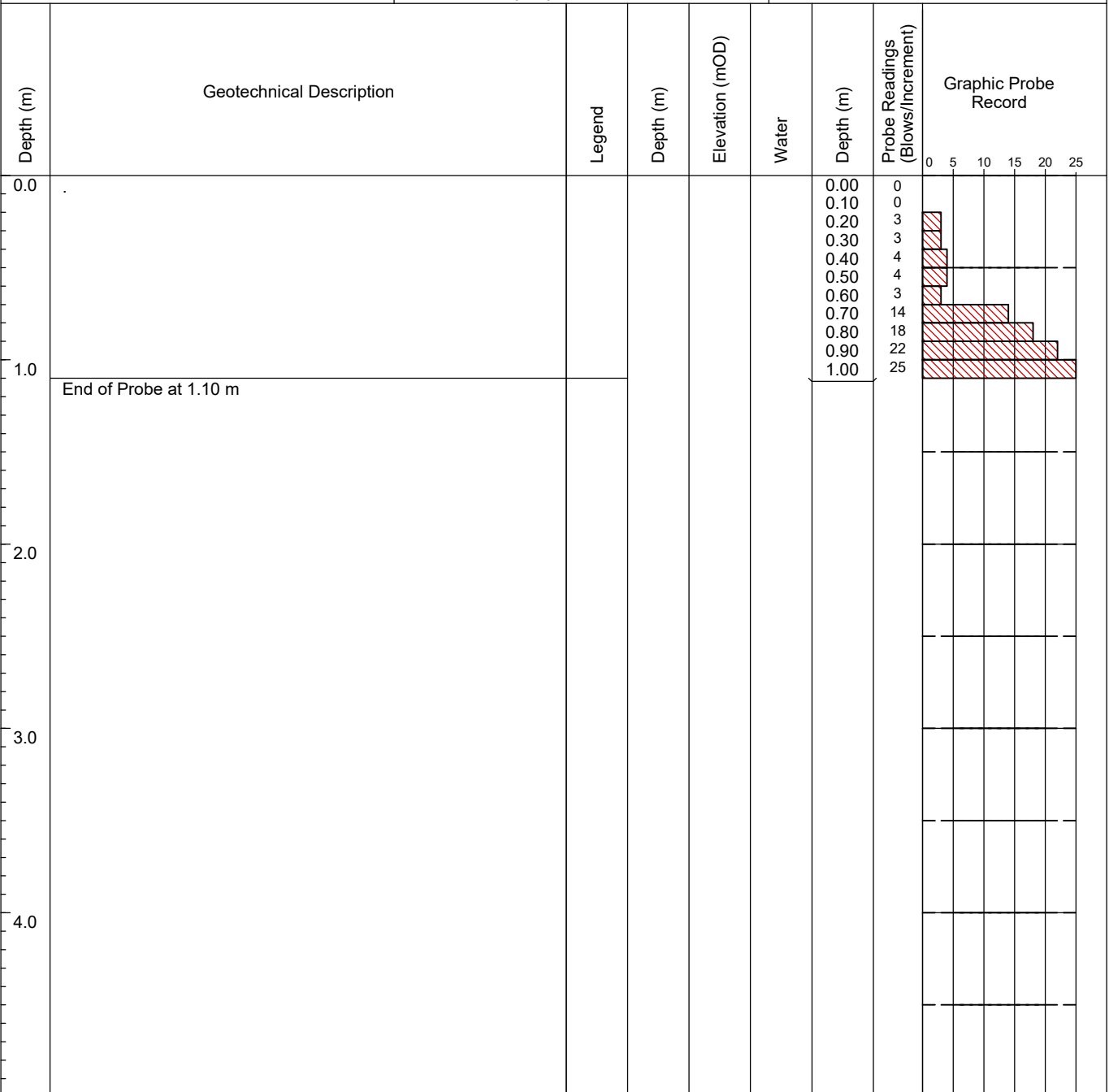
CLIENT Adwood Ltd

INCREMENT SIZE (mm) 100

ENGINEER DBFL

FALL HEIGHT (mm) 500

PROBE TYPE DPH



GROUNDWATER OBSERVATIONS

REMARKS



DYNAMIC PROBE RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

PROBE NO. DP45

SHEET Sheet 1 of 1

CO-ORDINATES

GROUND LEVEL (mOD)

HAMMER MASS (kg) 50

DATE DRILLED 07/01/2025

DATE LOGGED 10/01/2025

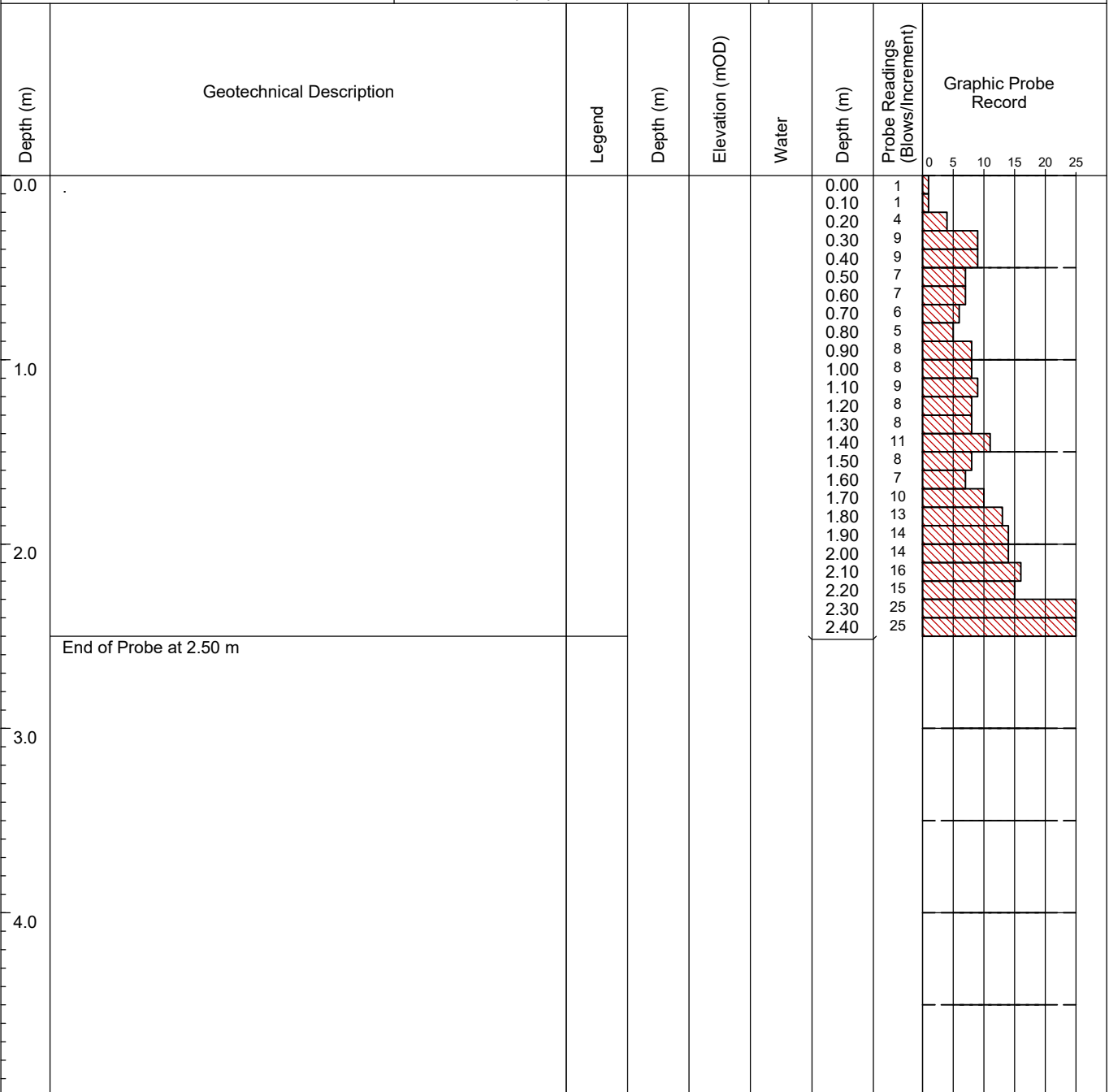
CLIENT Adwood Ltd

INCREMENT SIZE (mm) 100

ENGINEER DBFL

FALL HEIGHT (mm) 500

PROBE TYPE DPH



GROUNDWATER OBSERVATIONS

REMARKS



DYNAMIC PROBE RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

PROBE NO. DP46

SHEET Sheet 1 of 1

CO-ORDINATES

GROUND LEVEL (mOD)

HAMMER MASS (kg) 50

DATE DRILLED 07/01/2025

DATE LOGGED 10/01/2025

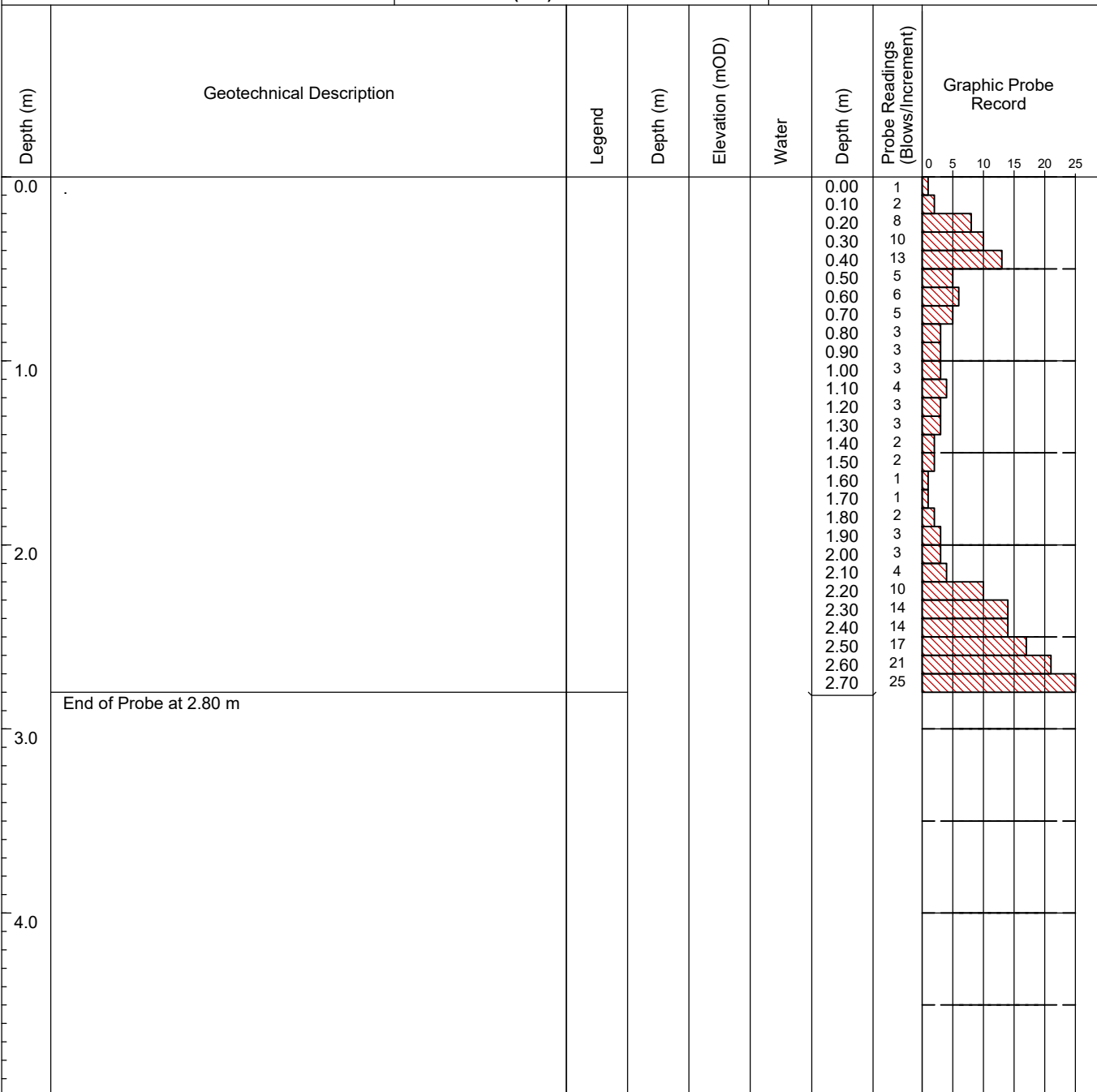
CLIENT Adwood Ltd

INCREMENT SIZE (mm) 100

ENGINEER DBFL

FALL HEIGHT (mm) 500

PROBE TYPE DPH



GROUNDWATER OBSERVATIONS

REMARKS



DYNAMIC PROBE RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

PROBE NO. DP47

SHEET Sheet 1 of 1

CO-ORDINATES

GROUND LEVEL (mOD)

HAMMER MASS (kg) 50

DATE DRILLED 07/01/2025

DATE LOGGED 10/01/2025

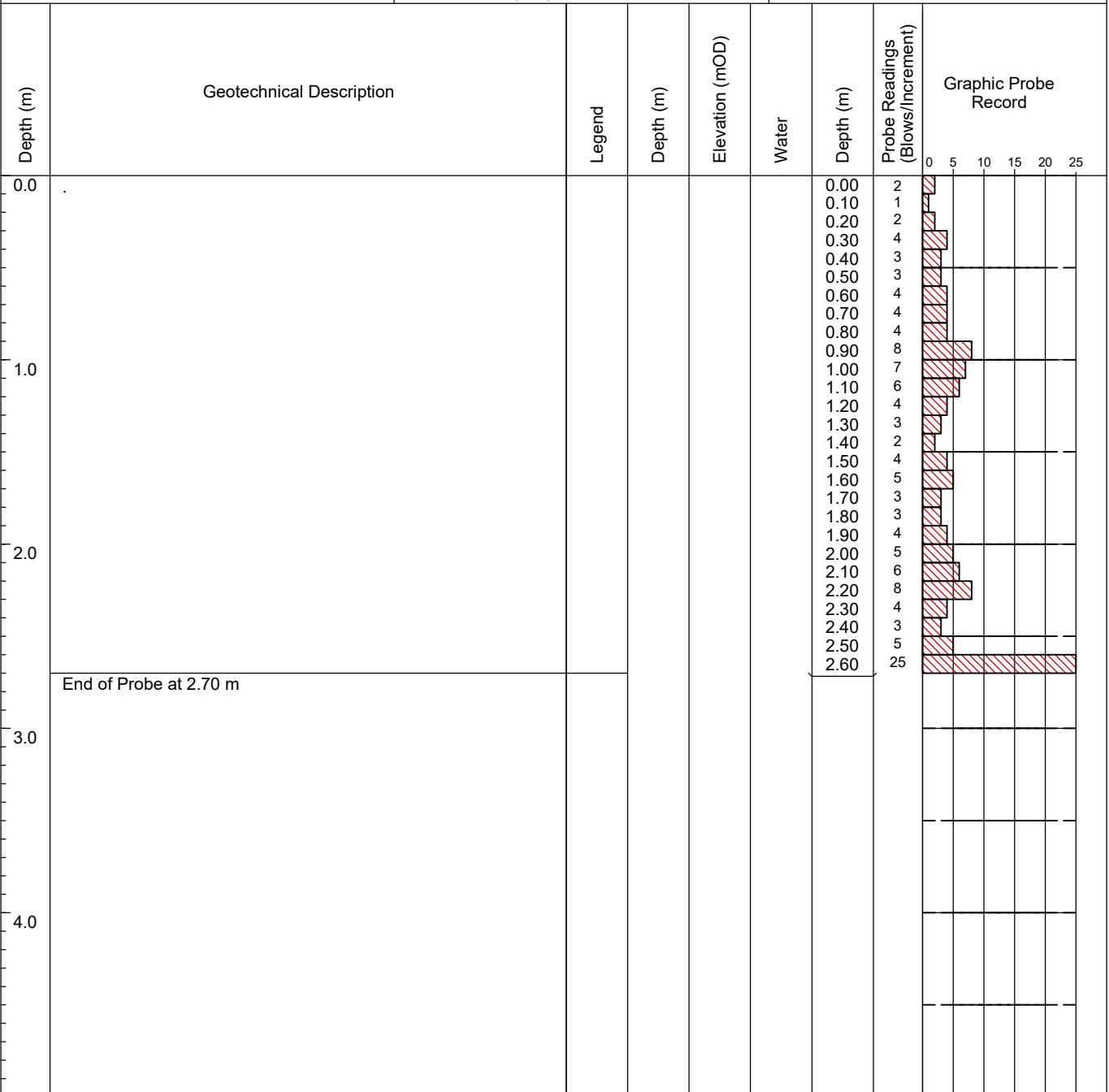
CLIENT Adwood Ltd

INCREMENT SIZE (mm) 100

ENGINEER DBFL

FALL HEIGHT (mm) 500

PROBE TYPE DPH



GROUNDWATER OBSERVATIONS

REMARKS



DYNAMIC PROBE RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

PROBE NO. DP48

SHEET Sheet 1 of 1

CO-ORDINATES

GROUND LEVEL (mOD)

HAMMER MASS (kg) 50

DATE DRILLED 07/01/2025

DATE LOGGED 10/01/2025

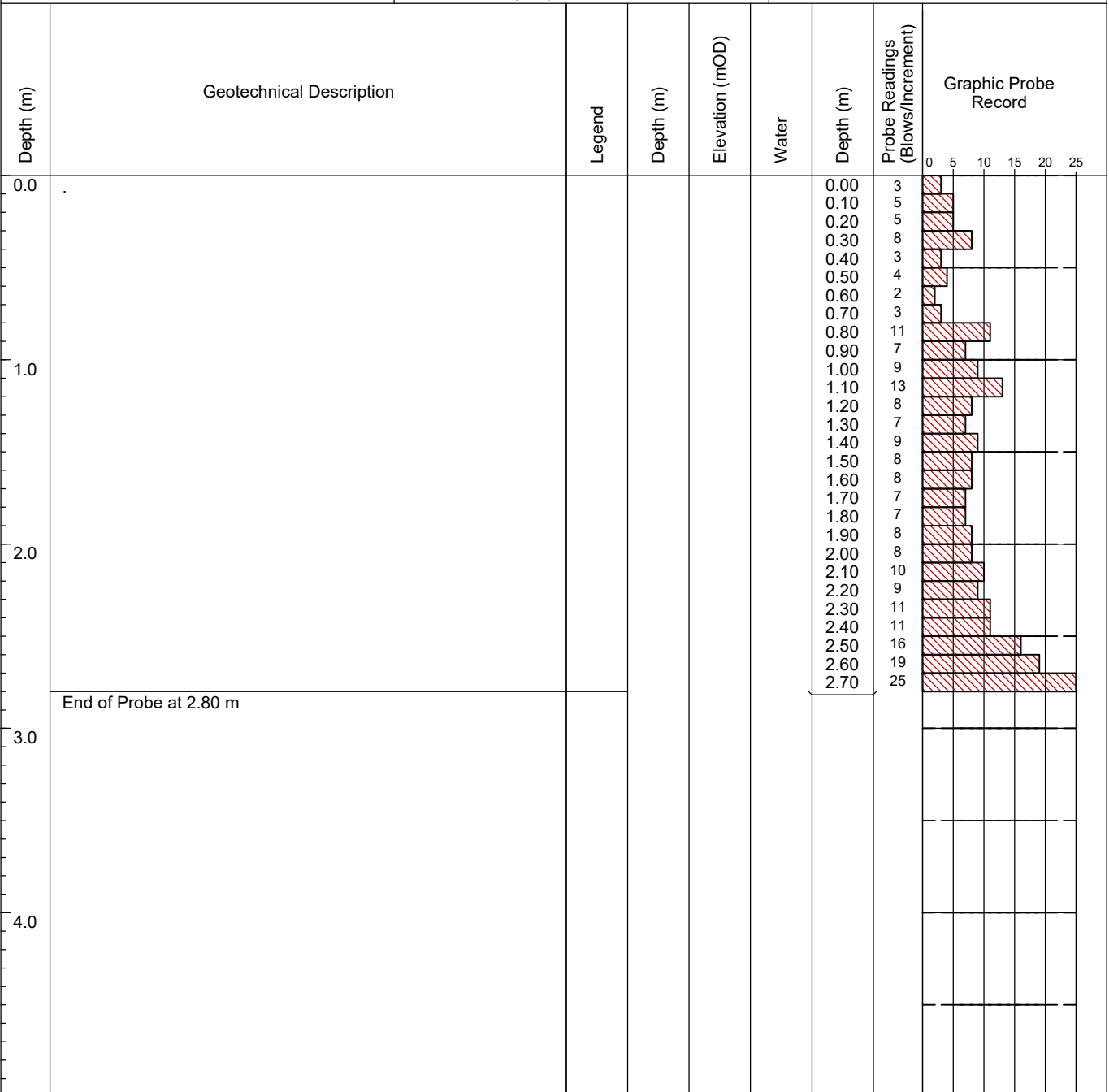
CLIENT Adwood Ltd

INCREMENT SIZE (mm) 100

ENGINEER DBFL

FALL HEIGHT (mm) 500

PROBE TYPE DPH



GROUNDWATER OBSERVATIONS

REMARKS



DYNAMIC PROBE RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

PROBE NO. DP49

SHEET Sheet 1 of 1

CO-ORDINATES

GROUND LEVEL (mOD)

HAMMER MASS (kg) 50

DATE DRILLED 07/01/2025

DATE LOGGED 10/01/2025

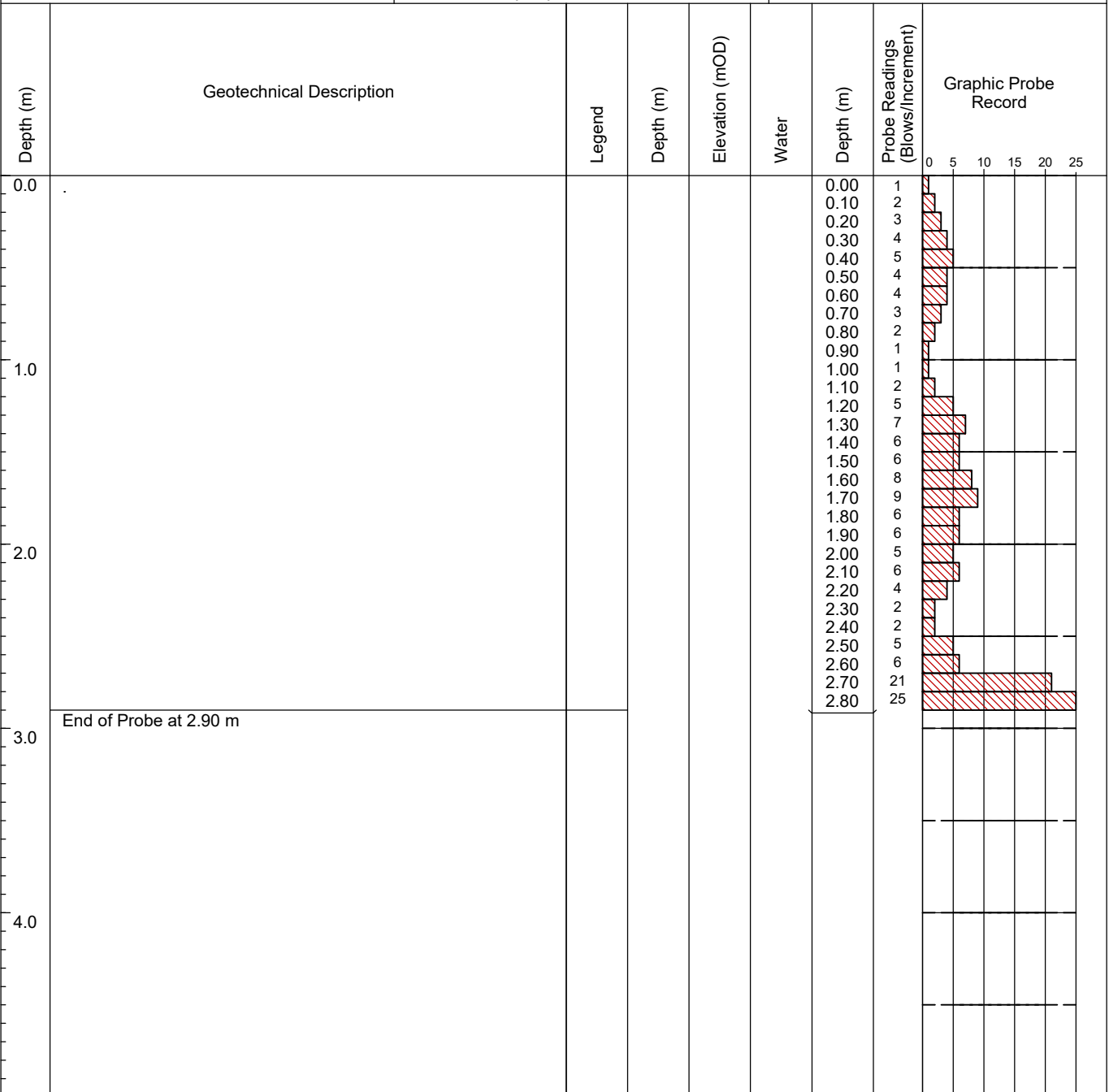
CLIENT Adwood Ltd

INCREMENT SIZE (mm) 100

ENGINEER DBFL

FALL HEIGHT (mm) 500

PROBE TYPE DPH



GROUNDWATER OBSERVATIONS

REMARKS



DYNAMIC PROBE RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

PROBE NO. DP50

SHEET Sheet 1 of 1

CO-ORDINATES

GROUND LEVEL (mOD)

HAMMER MASS (kg) 50

DATE DRILLED 07/01/2025

DATE LOGGED 10/01/2025

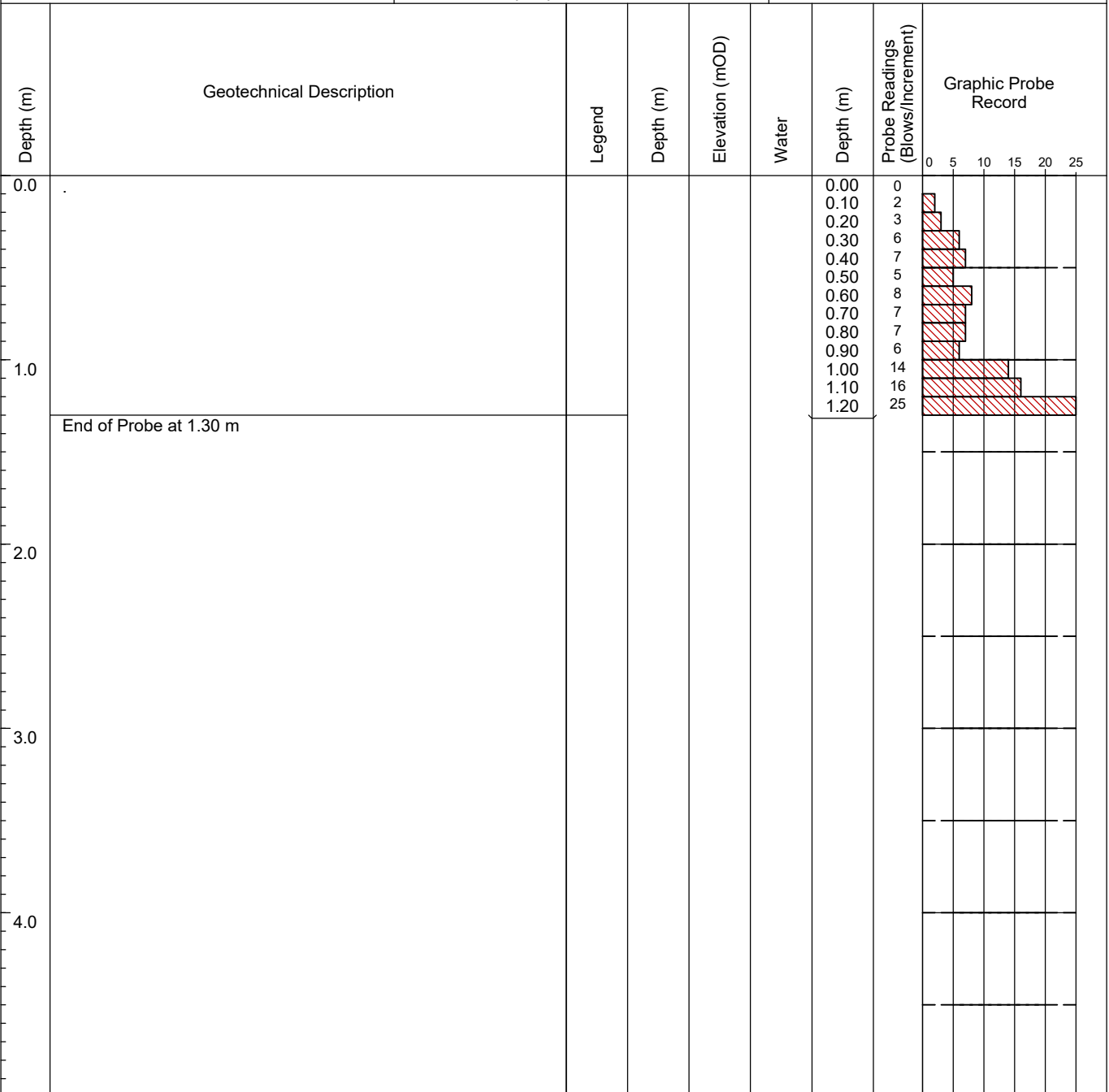
CLIENT Adwood Ltd

INCREMENT SIZE (mm) 100

ENGINEER DBFL

FALL HEIGHT (mm) 500

PROBE TYPE DPH



GROUNDWATER OBSERVATIONS

REMARKS



DYNAMIC PROBE RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

PROBE NO. DP51

SHEET Sheet 1 of 1

CO-ORDINATES

GROUND LEVEL (mOD)

HAMMER MASS (kg) 50

DATE DRILLED 07/01/2025

DATE LOGGED 10/01/2025

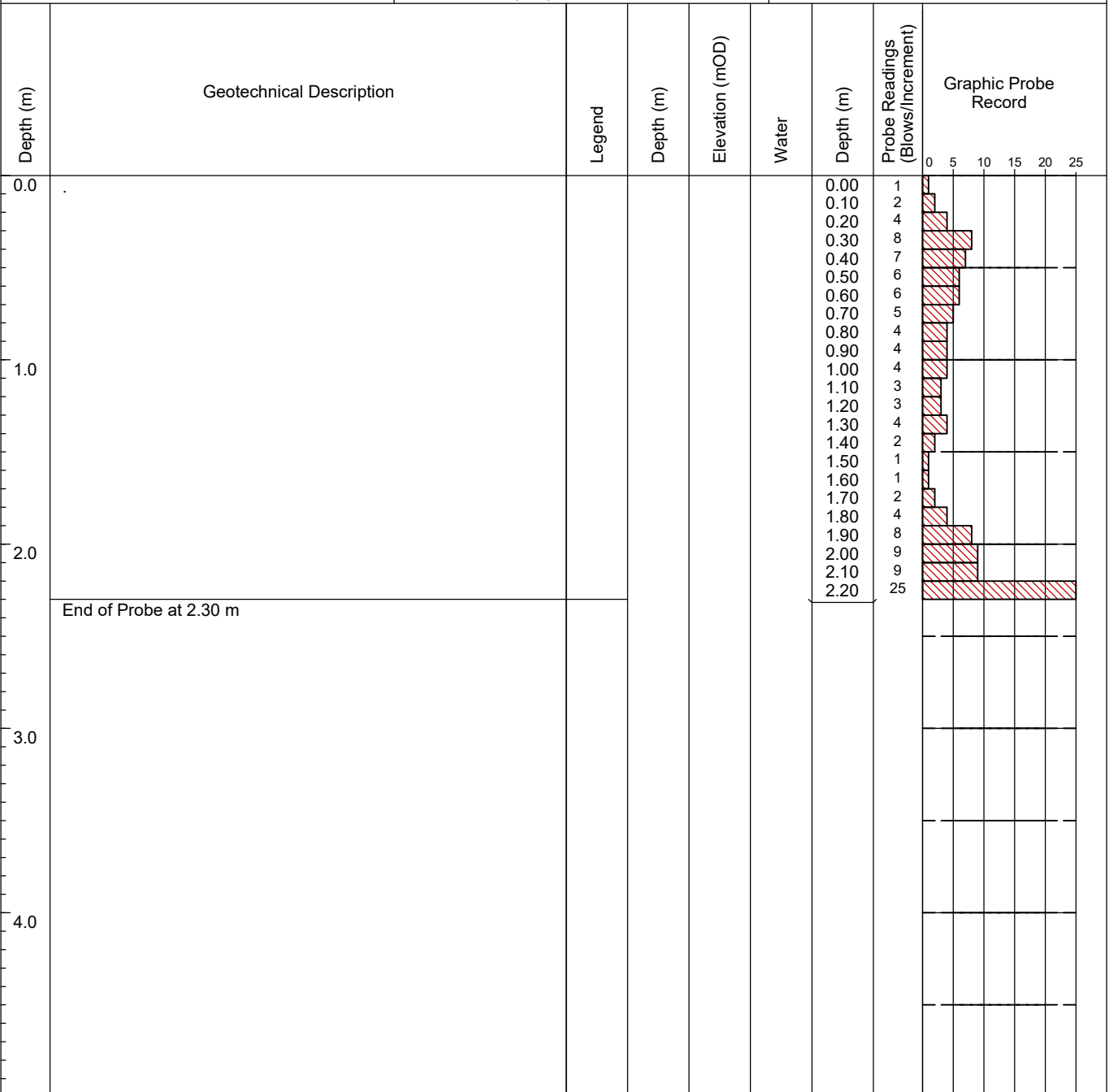
CLIENT Adwood Ltd

INCREMENT SIZE (mm) 100

ENGINEER DBFL

FALL HEIGHT (mm) 500

PROBE TYPE DPH



GROUNDWATER OBSERVATIONS

REMARKS



DYNAMIC PROBE RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

PROBE NO. DP52

SHEET Sheet 1 of 1

CO-ORDINATES

GROUND LEVEL (mOD)

HAMMER MASS (kg) 50

DATE DRILLED 07/01/2025

DATE LOGGED 10/01/2025

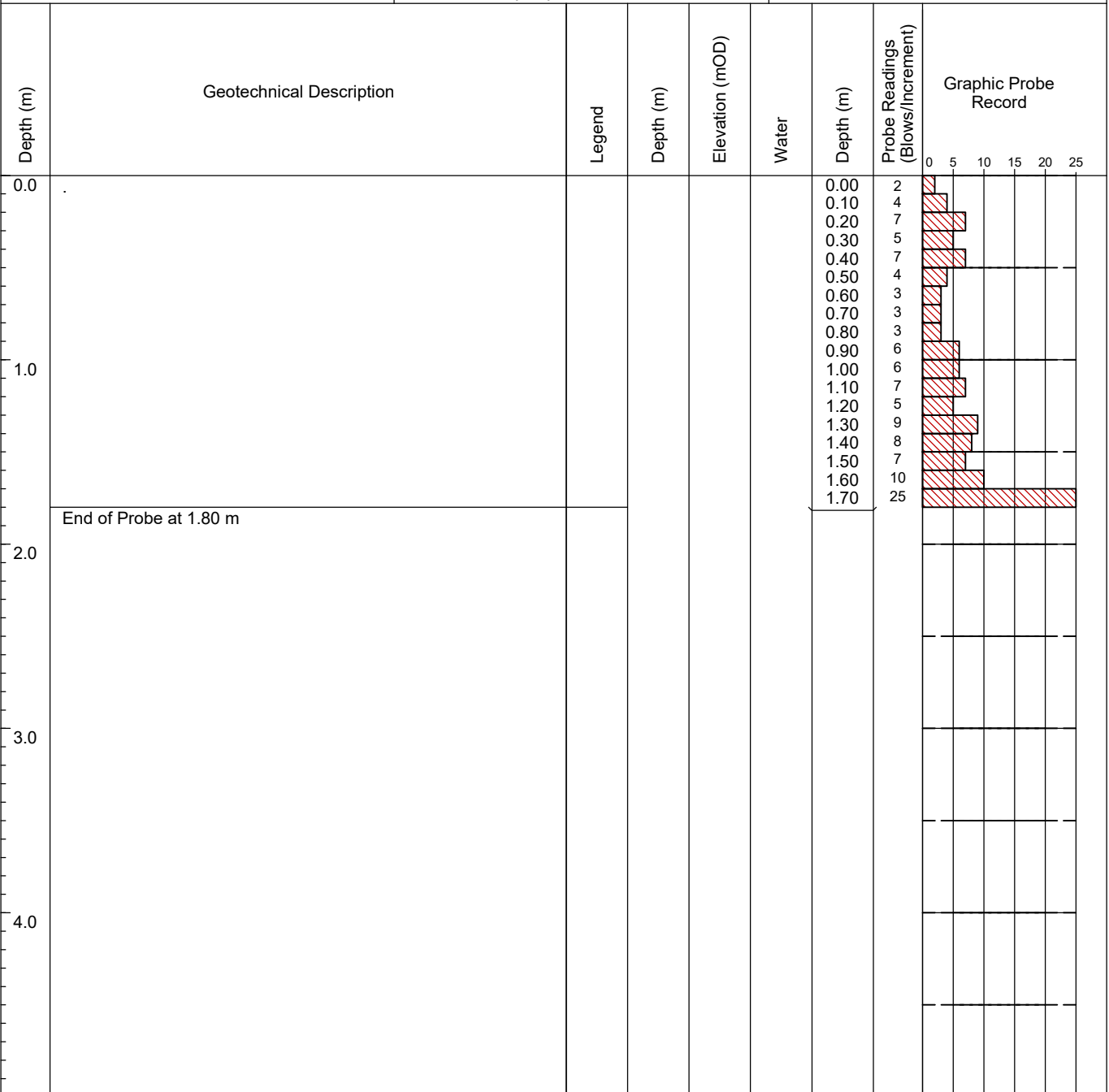
CLIENT Adwood Ltd

INCREMENT SIZE (mm) 100

ENGINEER DBFL

FALL HEIGHT (mm) 500

PROBE TYPE DPH



GROUNDWATER OBSERVATIONS

REMARKS



DYNAMIC PROBE RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

PROBE NO. DP53

SHEET Sheet 1 of 1

CO-ORDINATES

GROUND LEVEL (mOD)

HAMMER MASS (kg) 50

DATE DRILLED 07/01/2025

DATE LOGGED 10/01/2025

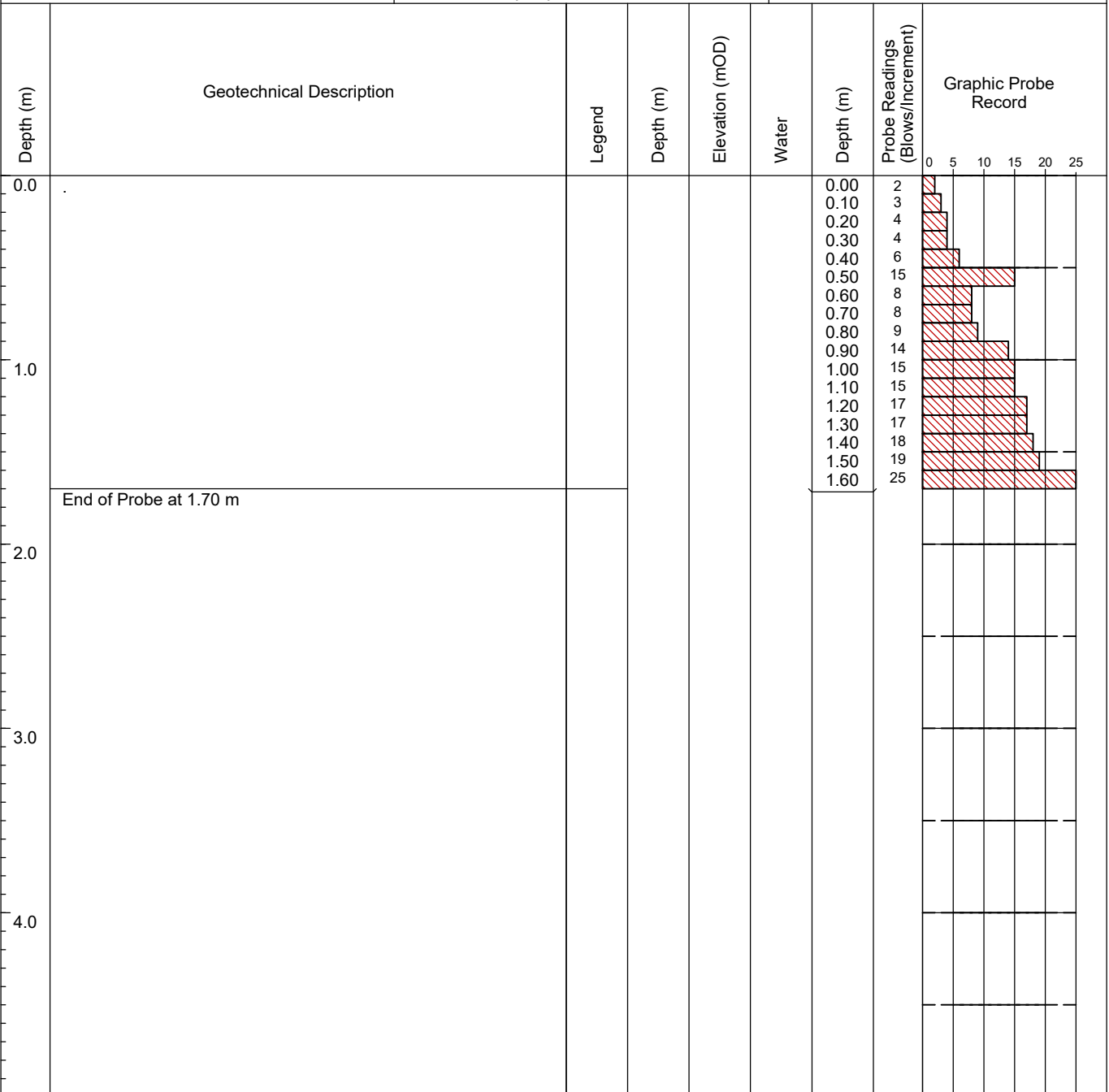
CLIENT Adwood Ltd

INCREMENT SIZE (mm) 100

ENGINEER DBFL

FALL HEIGHT (mm) 500

PROBE TYPE DPH



GROUNDWATER OBSERVATIONS

REMARKS



DYNAMIC PROBE RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

PROBE NO. DP54

SHEET Sheet 1 of 1

CO-ORDINATES

GROUND LEVEL (mOD)

HAMMER MASS (kg) 50

DATE DRILLED 07/01/2025

DATE LOGGED 10/01/2025

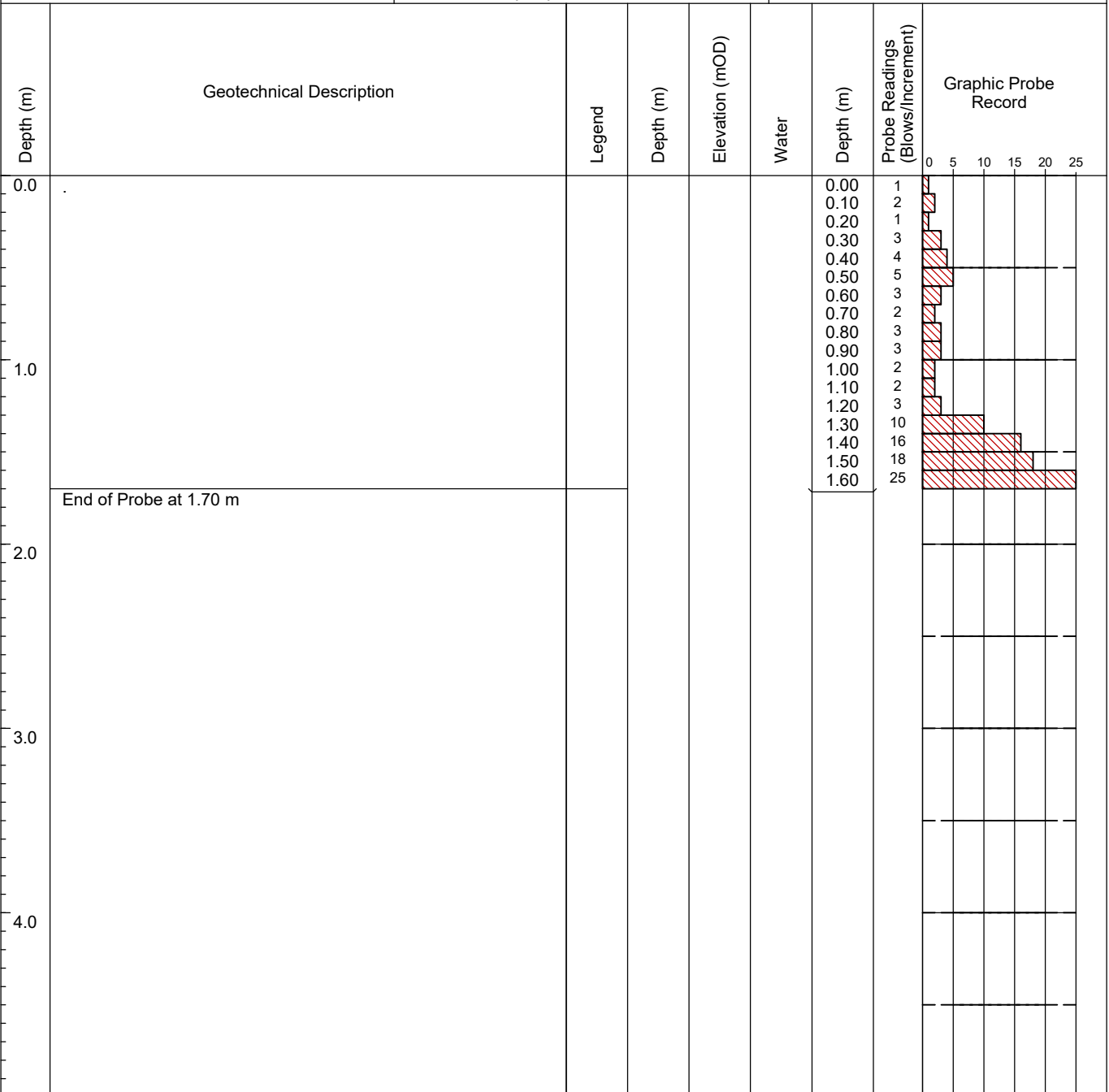
CLIENT Adwood Ltd

INCREMENT SIZE (mm) 100

ENGINEER DBFL

FALL HEIGHT (mm) 500

PROBE TYPE DPH



GROUNDWATER OBSERVATIONS

REMARKS



DYNAMIC PROBE RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

PROBE NO. DP55

SHEET Sheet 1 of 1

CO-ORDINATES

GROUND LEVEL (mOD)

HAMMER MASS (kg) 50

DATE DRILLED 07/01/2025

DATE LOGGED 10/01/2025

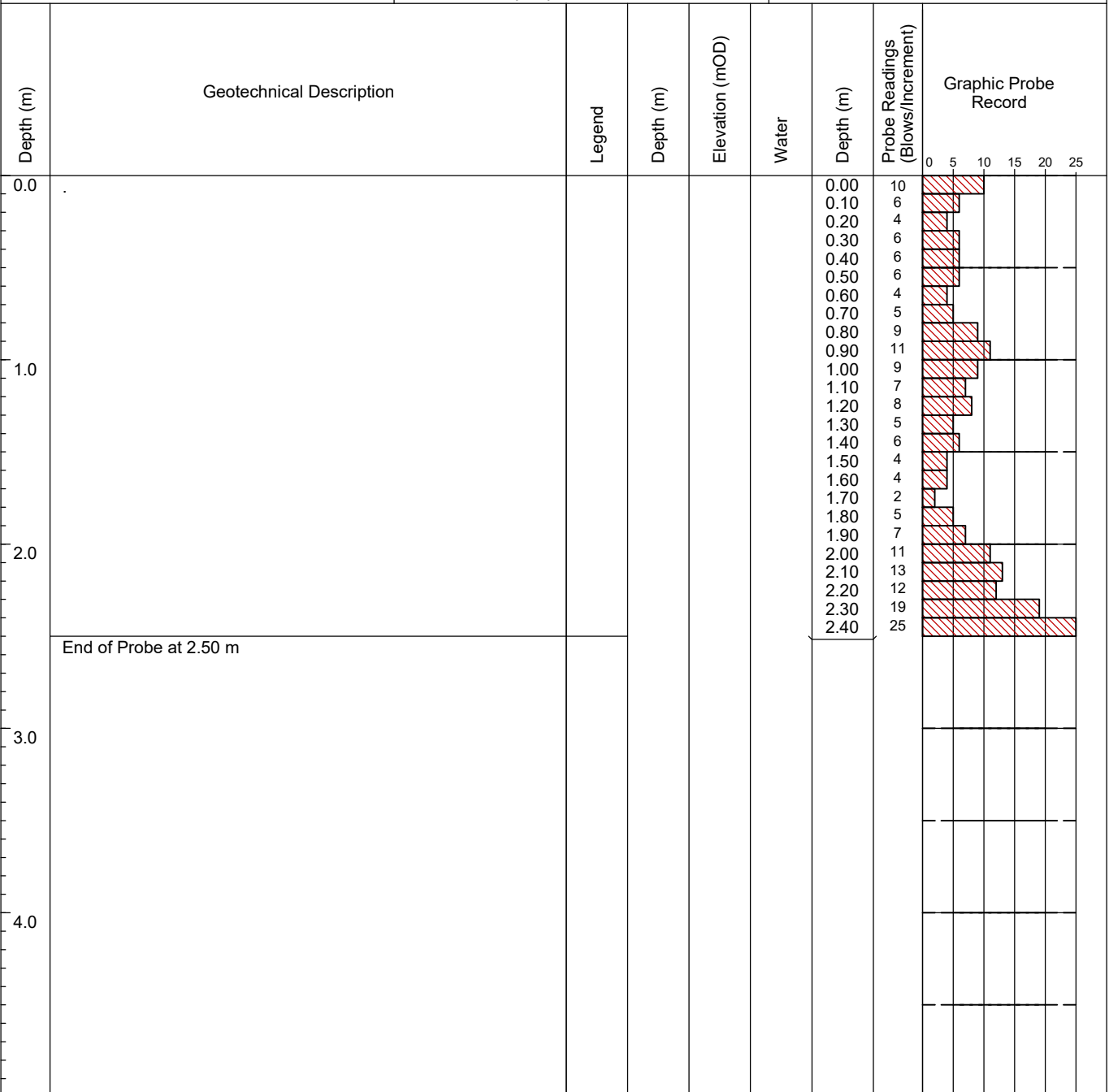
CLIENT Adwood Ltd

INCREMENT SIZE (mm) 100

ENGINEER DBFL

FALL HEIGHT (mm) 500

PROBE TYPE DPH



GROUNDWATER OBSERVATIONS

REMARKS



DYNAMIC PROBE RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

PROBE NO. DP57

SHEET Sheet 1 of 1

CO-ORDINATES

GROUND LEVEL (mOD)

HAMMER MASS (kg) 50

DATE DRILLED 07/01/2025

DATE LOGGED 10/01/2025

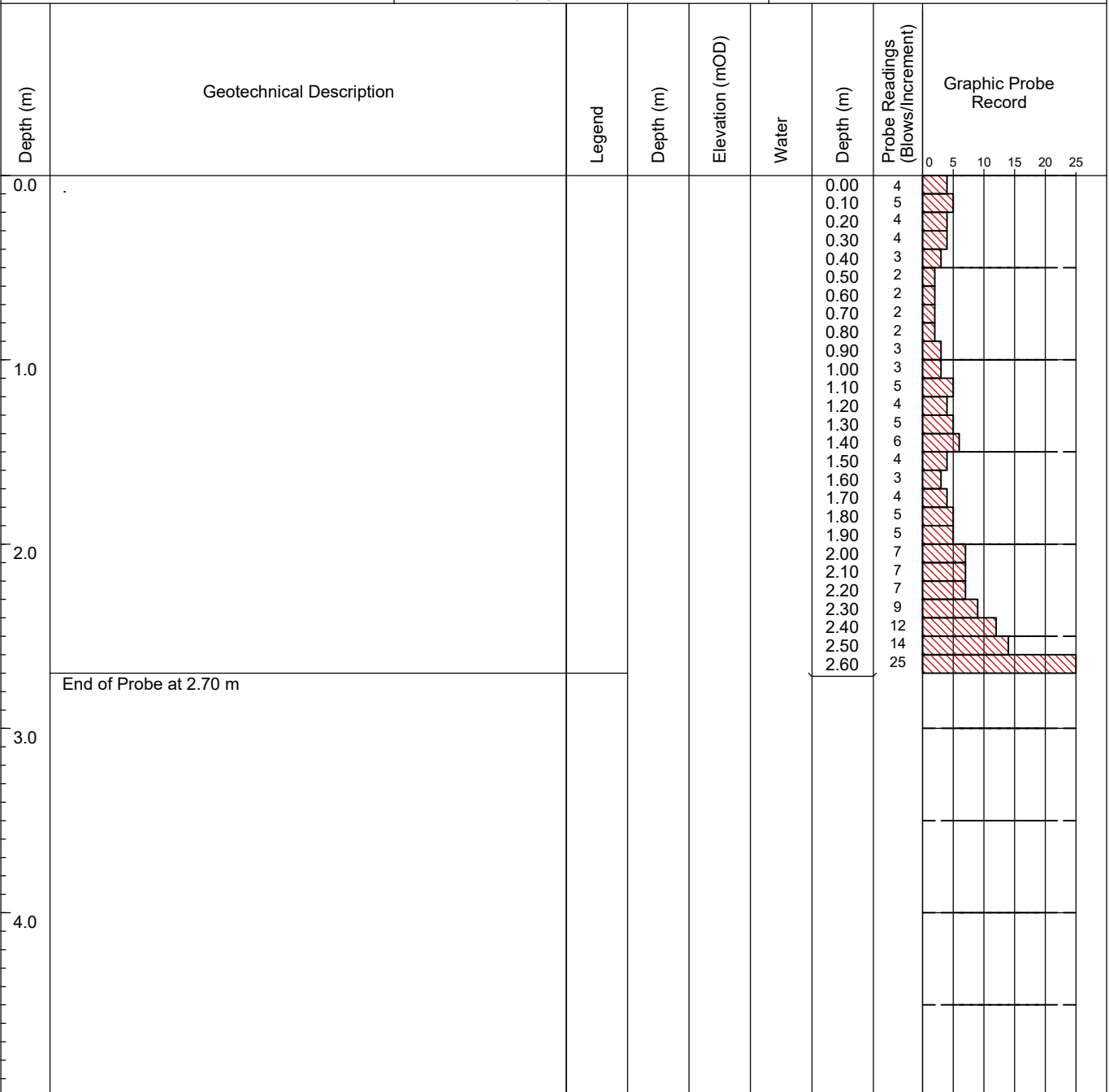
CLIENT Adwood Ltd

INCREMENT SIZE (mm) 100

ENGINEER DBFL

FALL HEIGHT (mm) 500

PROBE TYPE DPH



GROUNDWATER OBSERVATIONS

REMARKS



DYNAMIC PROBE RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

PROBE NO. DP58

SHEET Sheet 1 of 1

CO-ORDINATES

GROUND LEVEL (mOD)

HAMMER MASS (kg) 50

DATE DRILLED 07/01/2025

DATE LOGGED 10/01/2025

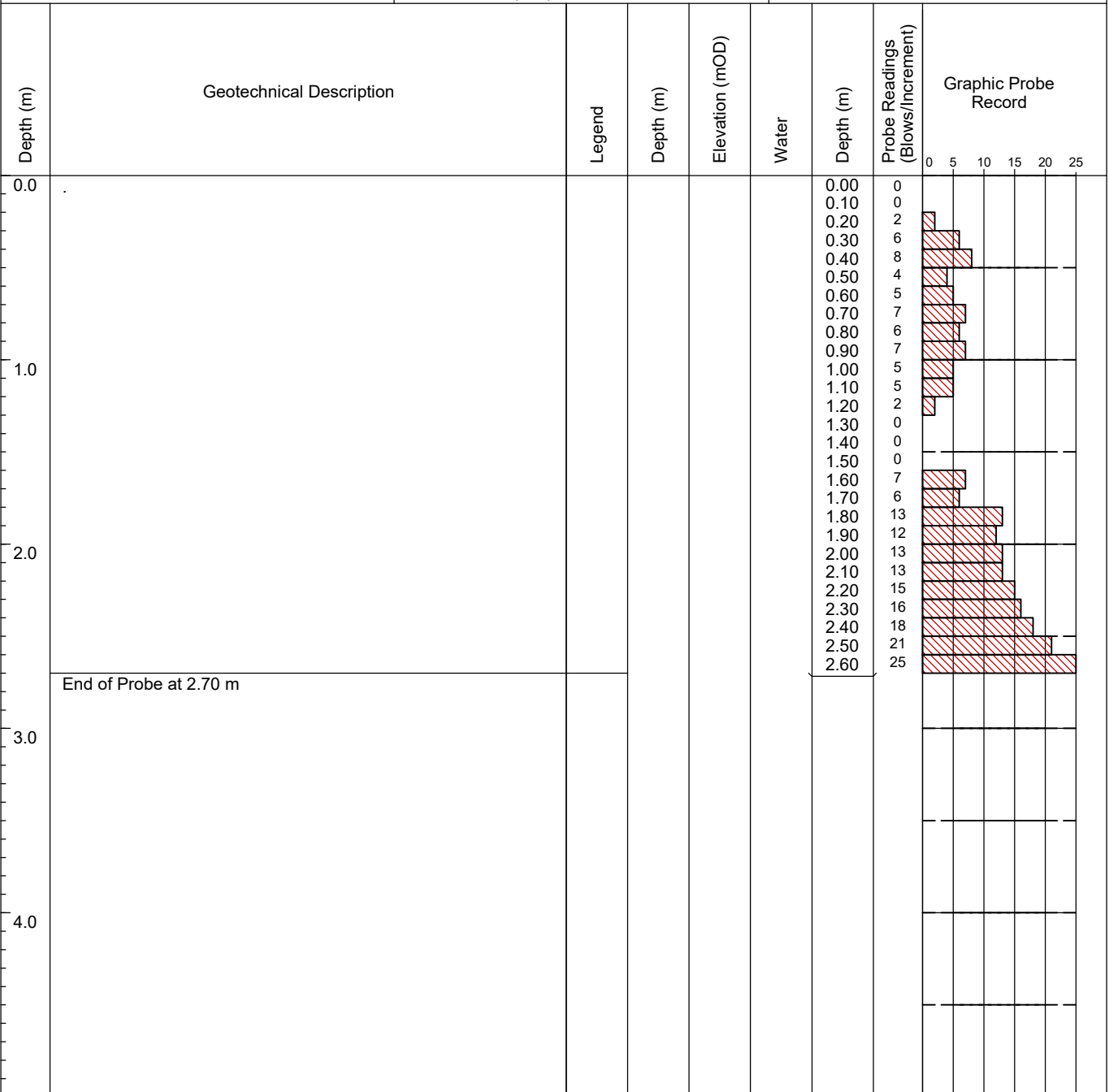
CLIENT Adwood Ltd

INCREMENT SIZE (mm) 100

ENGINEER DBFL

FALL HEIGHT (mm) 500

PROBE TYPE DPH



GROUNDWATER OBSERVATIONS

REMARKS



DYNAMIC PROBE RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

PROBE NO. DP59

SHEET Sheet 1 of 1

CO-ORDINATES

GROUND LEVEL (mOD)

HAMMER MASS (kg) 50

DATE DRILLED 07/01/2025

DATE LOGGED 10/01/2025

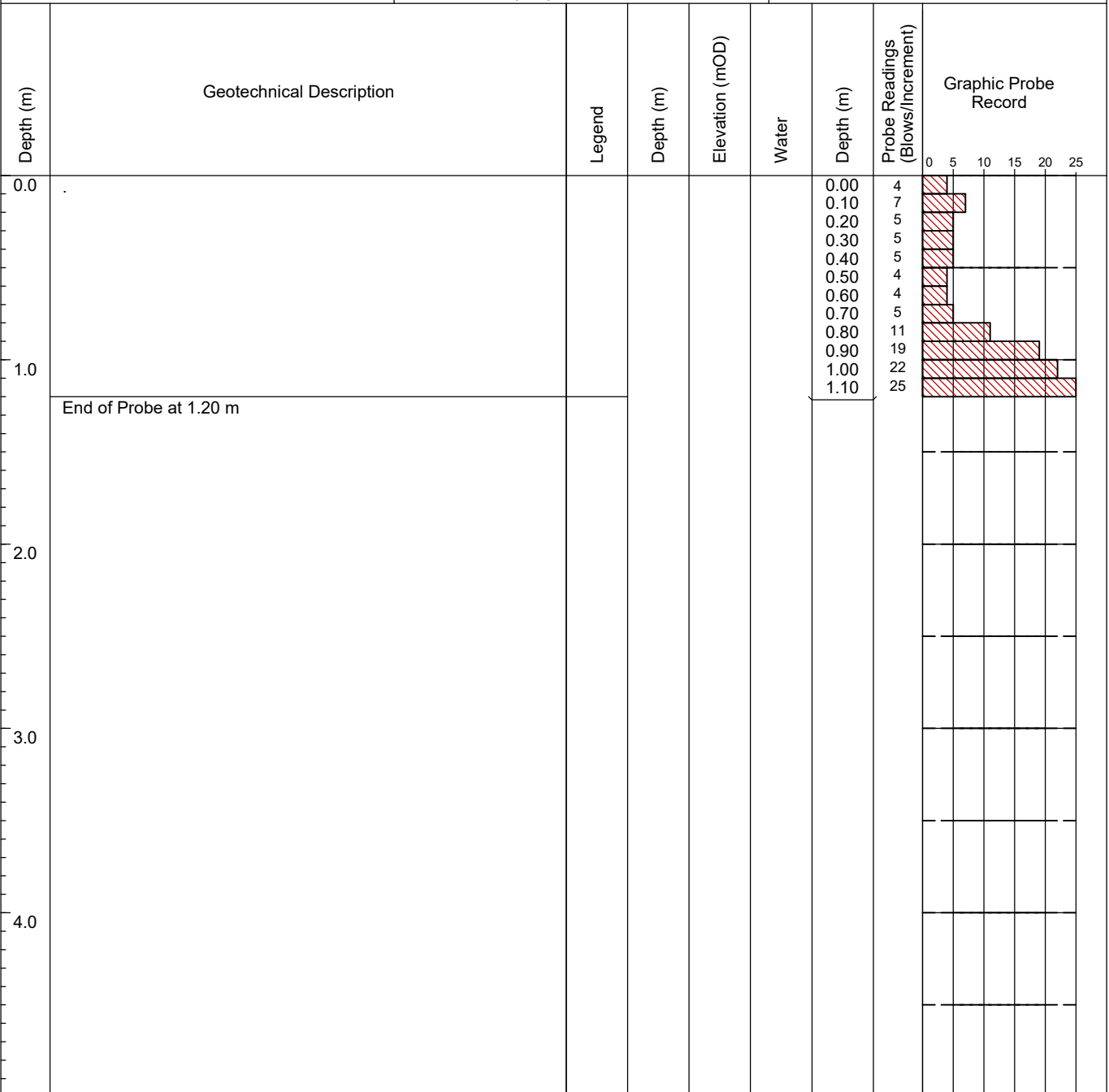
CLIENT Adwood Ltd

INCREMENT SIZE (mm) 100

ENGINEER DBFL

FALL HEIGHT (mm) 500

PROBE TYPE DPH



GROUNDWATER OBSERVATIONS

REMARKS



DYNAMIC PROBE RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

PROBE NO. DP60

SHEET Sheet 1 of 1

CO-ORDINATES

GROUND LEVEL (mOD)

HAMMER MASS (kg) 50

DATE DRILLED 07/01/2025

DATE LOGGED 10/01/2025

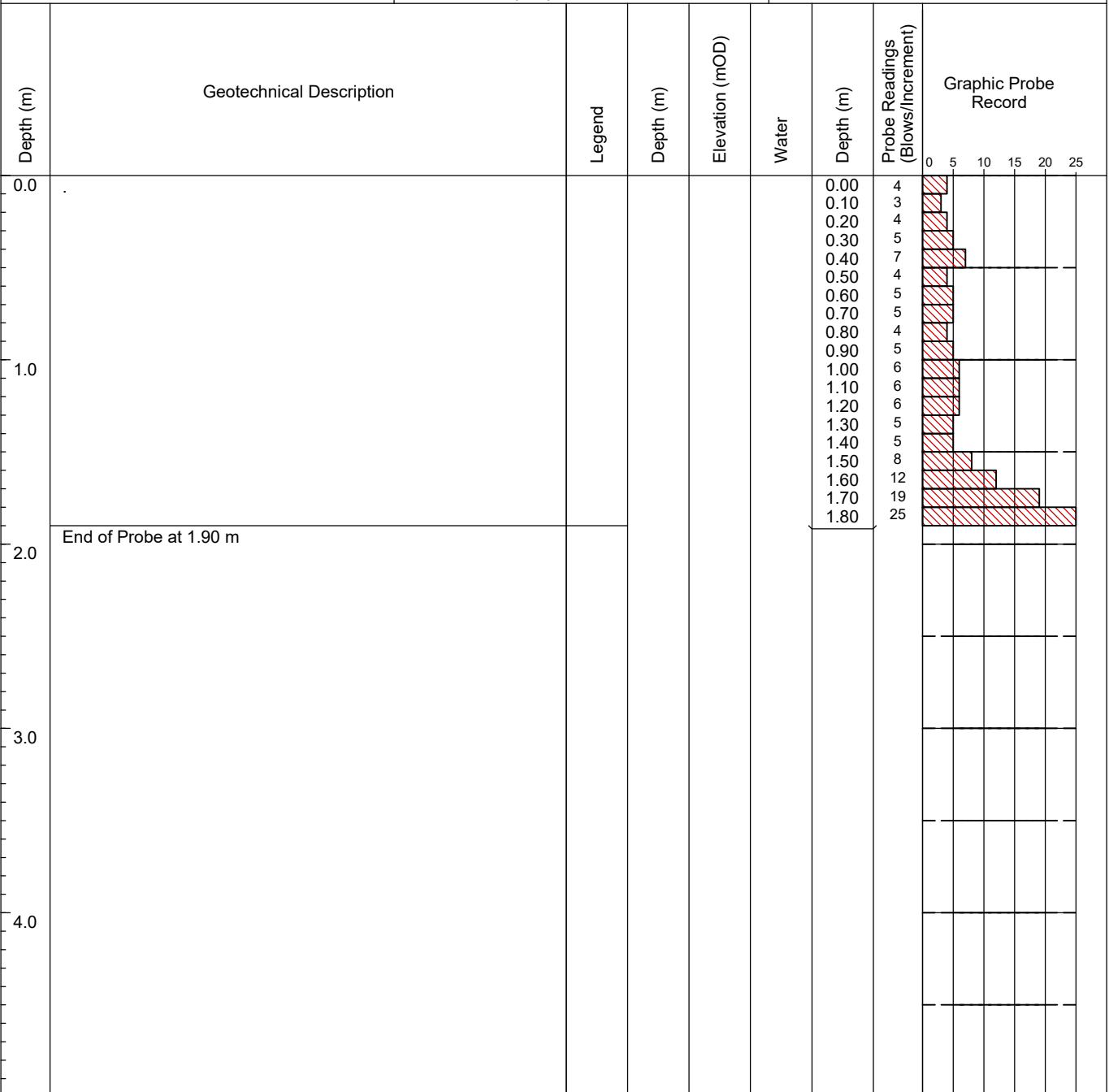
CLIENT Adwood Ltd

INCREMENT SIZE (mm) 100

ENGINEER DBFL

FALL HEIGHT (mm) 500

PROBE TYPE DPH



GROUNDWATER OBSERVATIONS

REMARKS



DYNAMIC PROBE RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

PROBE NO. DP61

SHEET Sheet 1 of 1

CO-ORDINATES

GROUND LEVEL (mOD)

HAMMER MASS (kg) 50

DATE DRILLED 21/01/2025

DATE LOGGED 23/01/2025

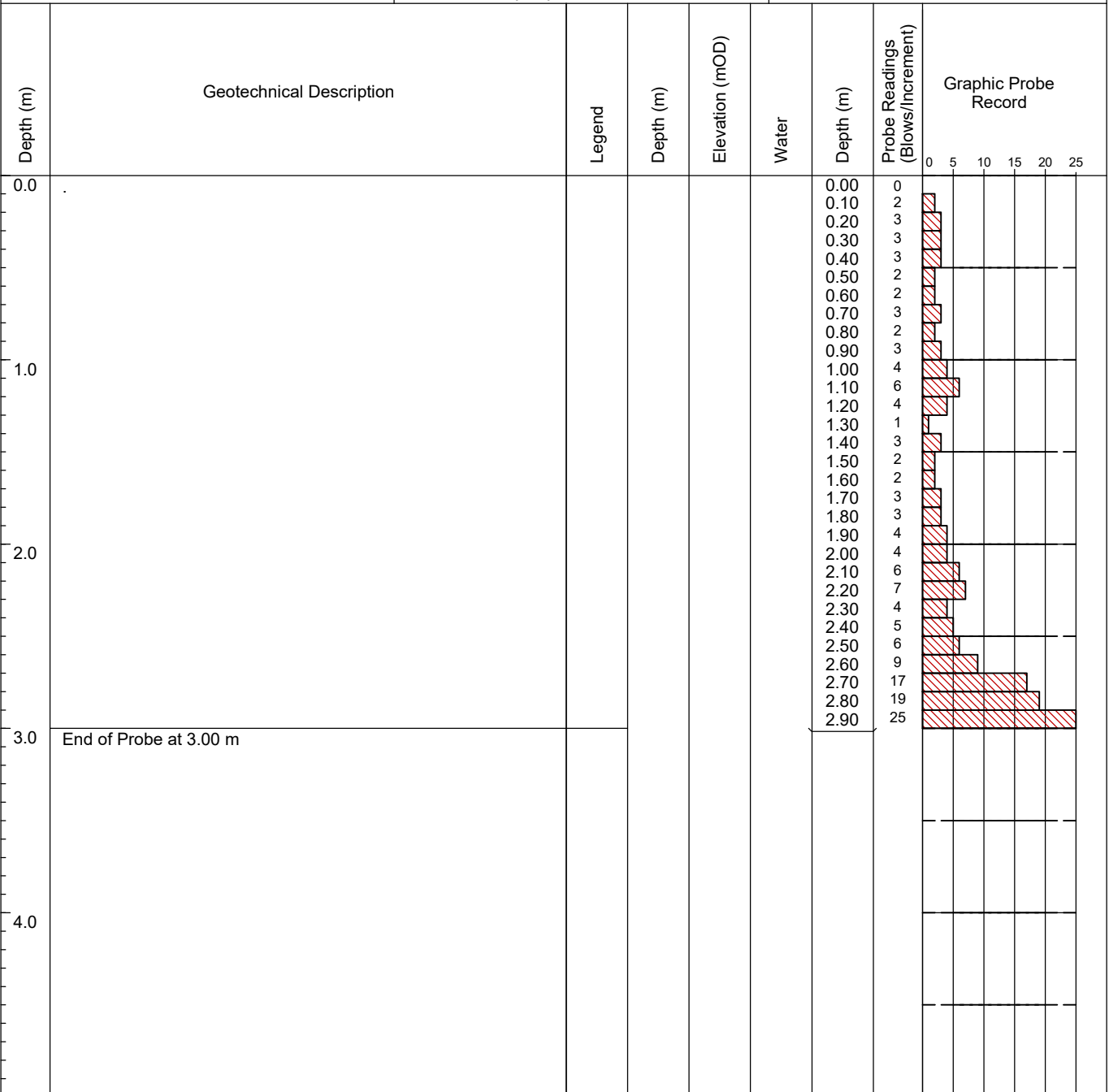
CLIENT Adwood Ltd

INCREMENT SIZE (mm) 100

ENGINEER DBFL

FALL HEIGHT (mm) 500

PROBE TYPE DPH



GROUNDWATER OBSERVATIONS

REMARKS



DYNAMIC PROBE RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

PROBE NO. DP62

SHEET Sheet 1 of 1

CO-ORDINATES

GROUND LEVEL (mOD)

HAMMER MASS (kg) 50

DATE DRILLED 21/01/2025

DATE LOGGED 23/01/2025

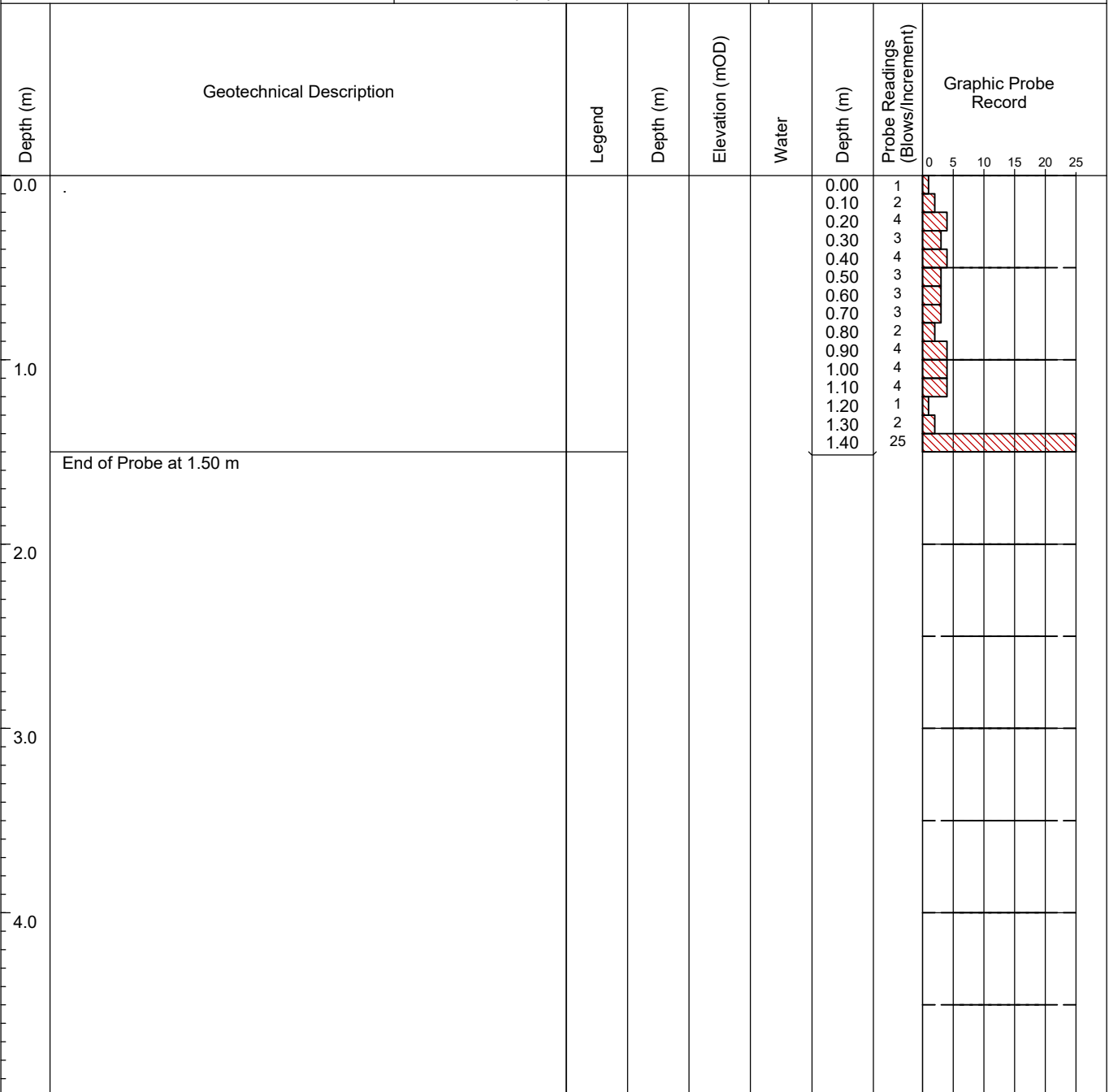
CLIENT Adwood Ltd

INCREMENT SIZE (mm) 100

ENGINEER DBFL

FALL HEIGHT (mm) 500

PROBE TYPE DPH



GROUNDWATER OBSERVATIONS

REMARKS



DYNAMIC PROBE RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

PROBE NO. DP63

SHEET Sheet 1 of 1

CO-ORDINATES

GROUND LEVEL (mOD)

HAMMER MASS (kg) 50

DATE DRILLED 21/01/2025

DATE LOGGED 23/01/2025

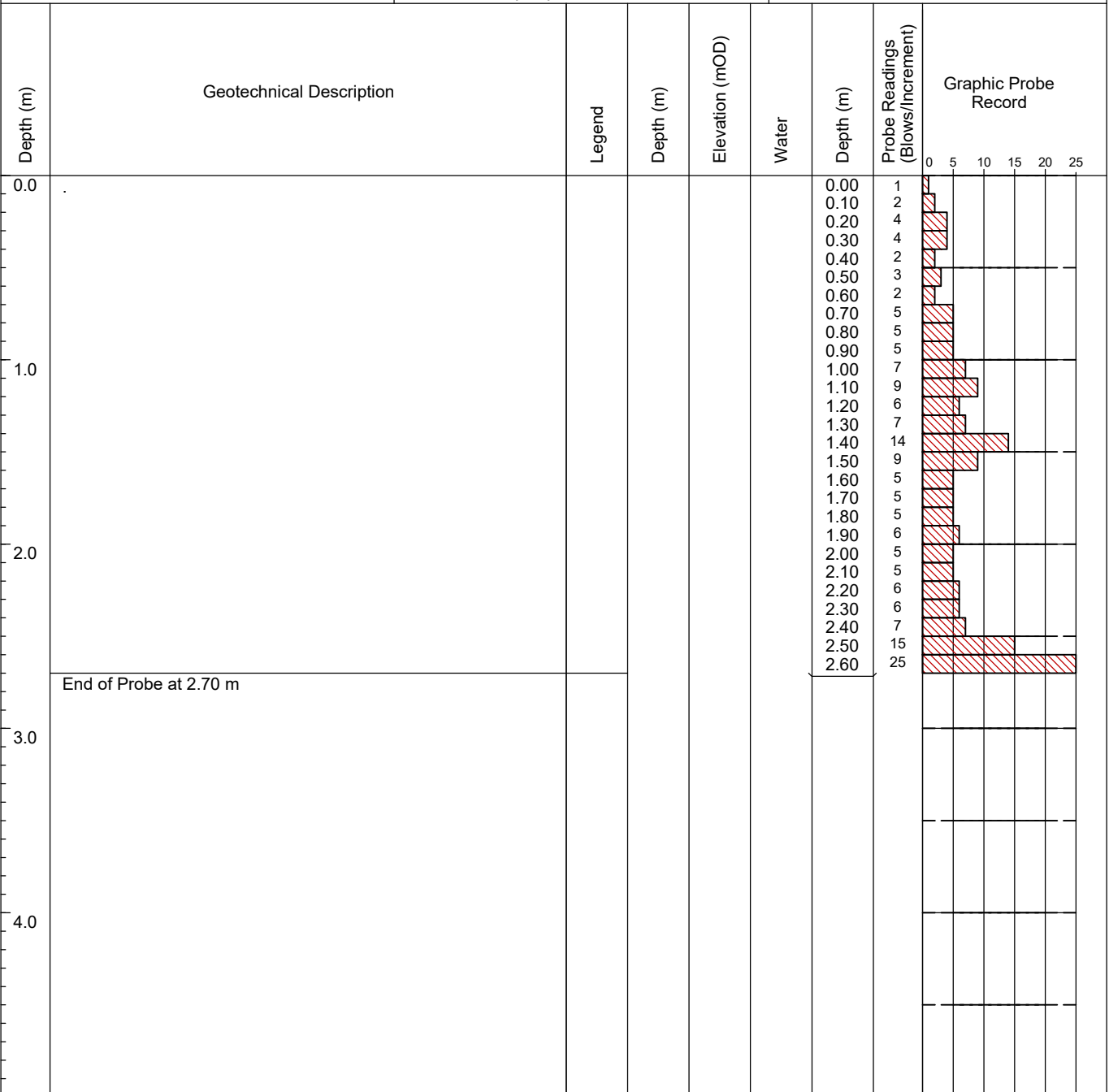
CLIENT Adwood Ltd

INCREMENT SIZE (mm) 100

ENGINEER DBFL

FALL HEIGHT (mm) 500

PROBE TYPE DPH



GROUNDWATER OBSERVATIONS

REMARKS



DYNAMIC PROBE RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

PROBE NO. DP64

SHEET Sheet 1 of 1

CO-ORDINATES

GROUND LEVEL (mOD)

HAMMER MASS (kg) 50

DATE DRILLED 21/01/2025

DATE LOGGED 23/01/2025

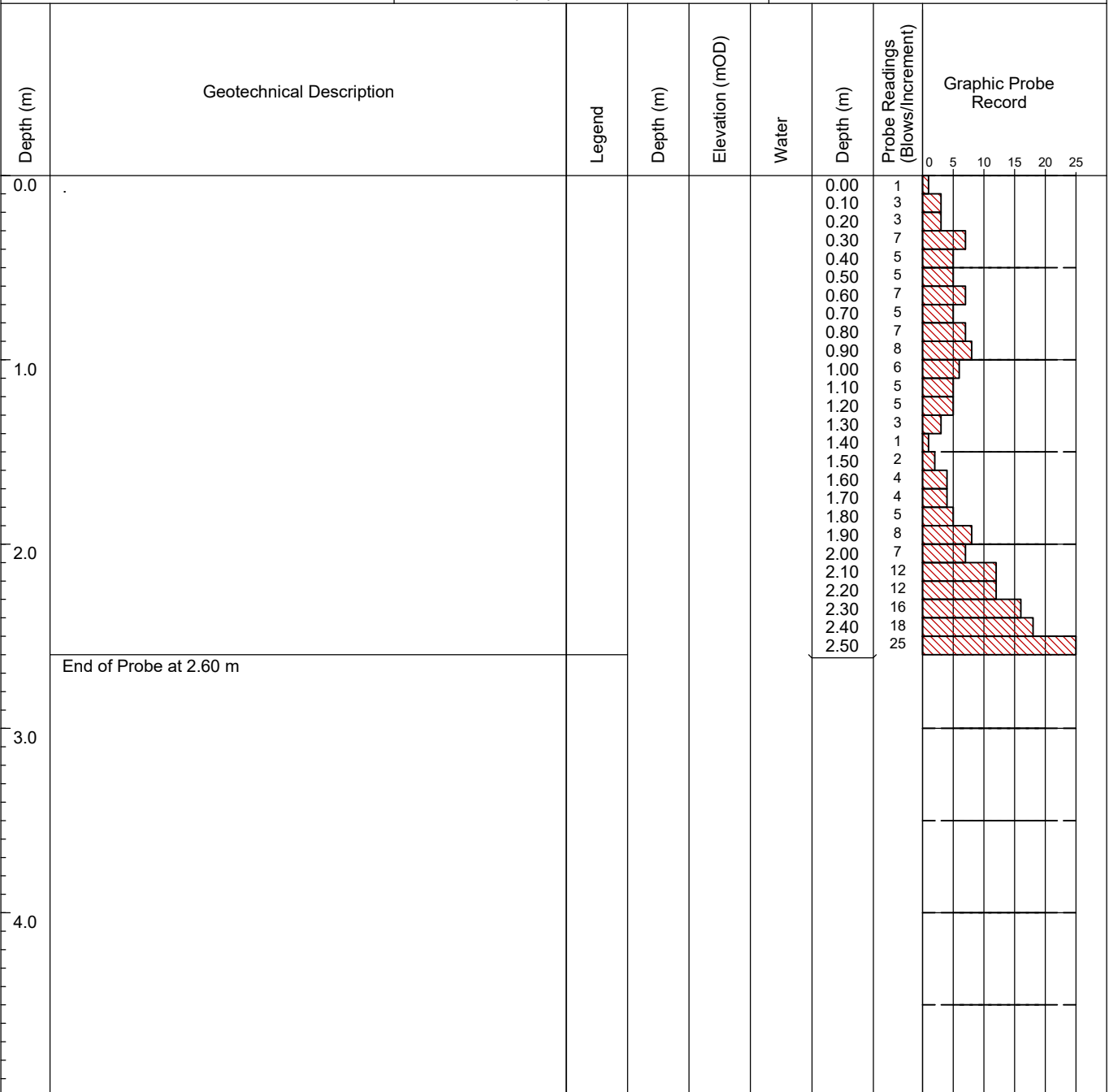
CLIENT Adwood Ltd

INCREMENT SIZE (mm) 100

ENGINEER DBFL

FALL HEIGHT (mm) 500

PROBE TYPE DPH



GROUNDWATER OBSERVATIONS

REMARKS



DYNAMIC PROBE RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

PROBE NO. DP65

SHEET Sheet 1 of 1

CO-ORDINATES

GROUND LEVEL (mOD)

HAMMER MASS (kg) 50

DATE DRILLED 21/01/2025

DATE LOGGED 23/01/2025

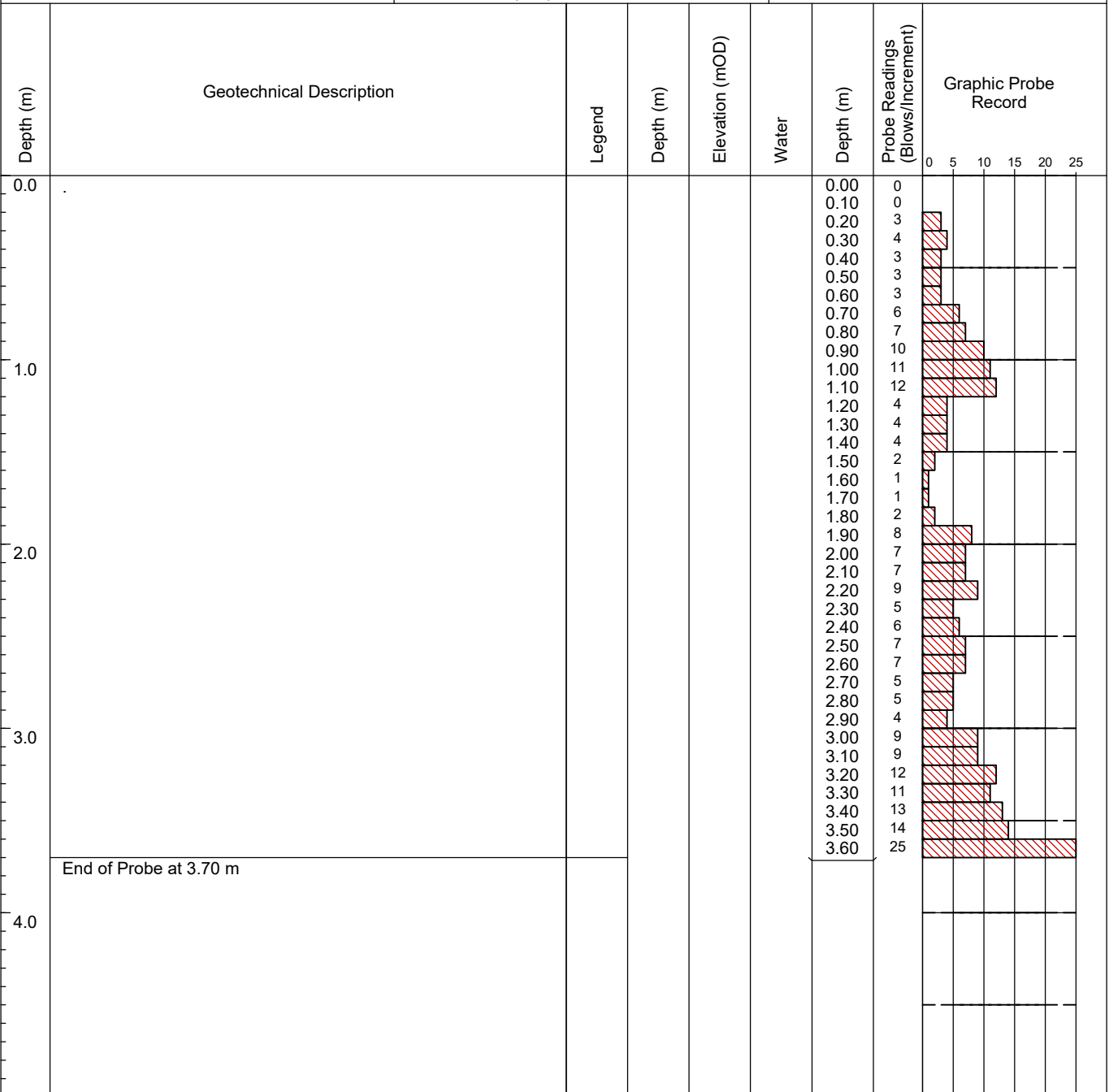
CLIENT Adwood Ltd

INCREMENT SIZE (mm) 100

ENGINEER DBFL

FALL HEIGHT (mm) 500

PROBE TYPE DPH



GROUNDWATER OBSERVATIONS

REMARKS



DYNAMIC PROBE RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

PROBE NO. DP66

SHEET Sheet 1 of 1

CO-ORDINATES

GROUND LEVEL (mOD)

HAMMER MASS (kg) 50

DATE DRILLED 21/01/2025

DATE LOGGED 23/01/2025

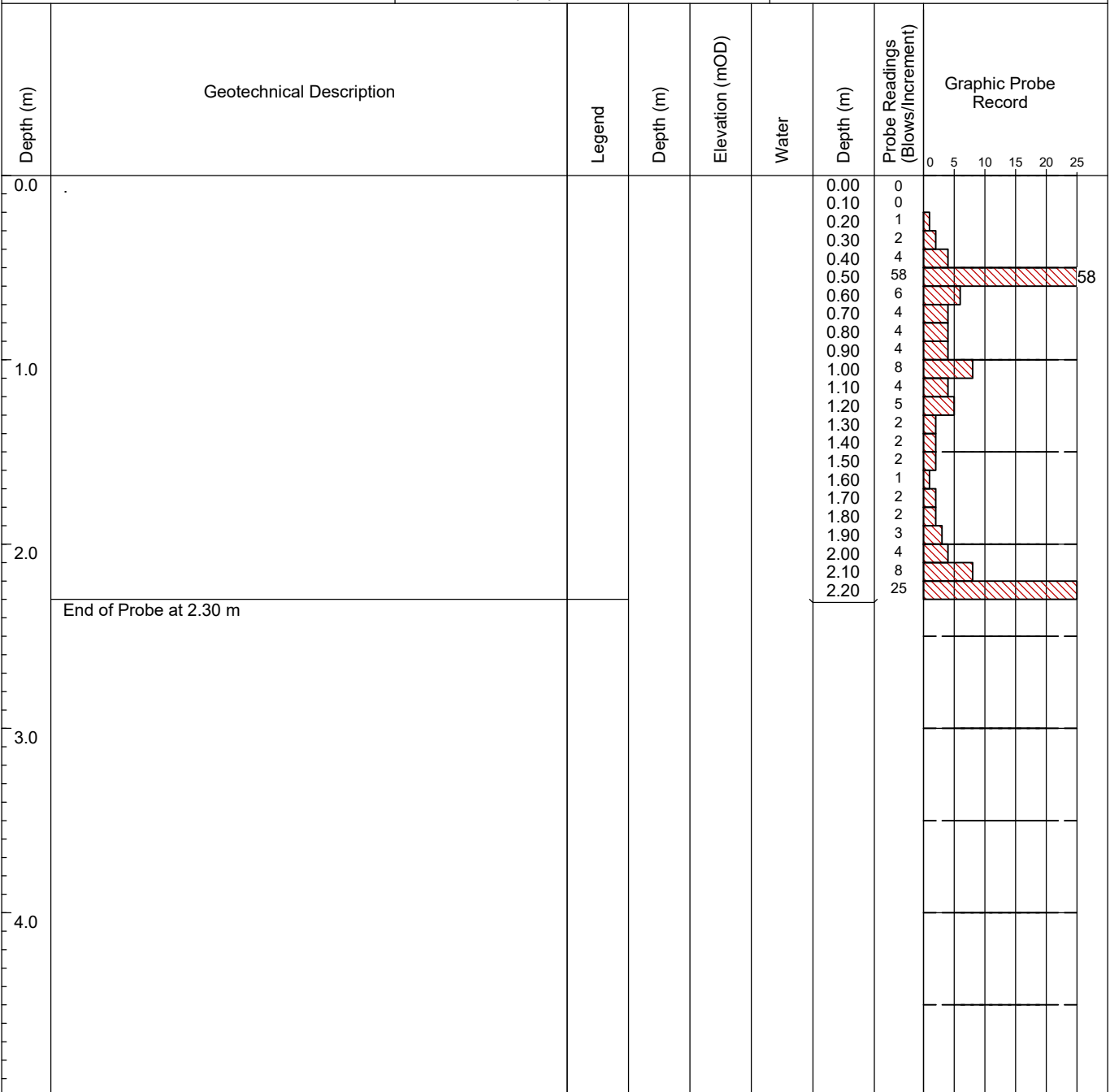
CLIENT Adwood Ltd

INCREMENT SIZE (mm) 100

ENGINEER DBFL

FALL HEIGHT (mm) 500

PROBE TYPE DPH



GROUNDWATER OBSERVATIONS

REMARKS



DYNAMIC PROBE RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

PROBE NO. DP67

SHEET Sheet 1 of 1

CO-ORDINATES

GROUND LEVEL (mOD)

HAMMER MASS (kg) 50

DATE DRILLED 21/01/2025

DATE LOGGED 23/01/2025

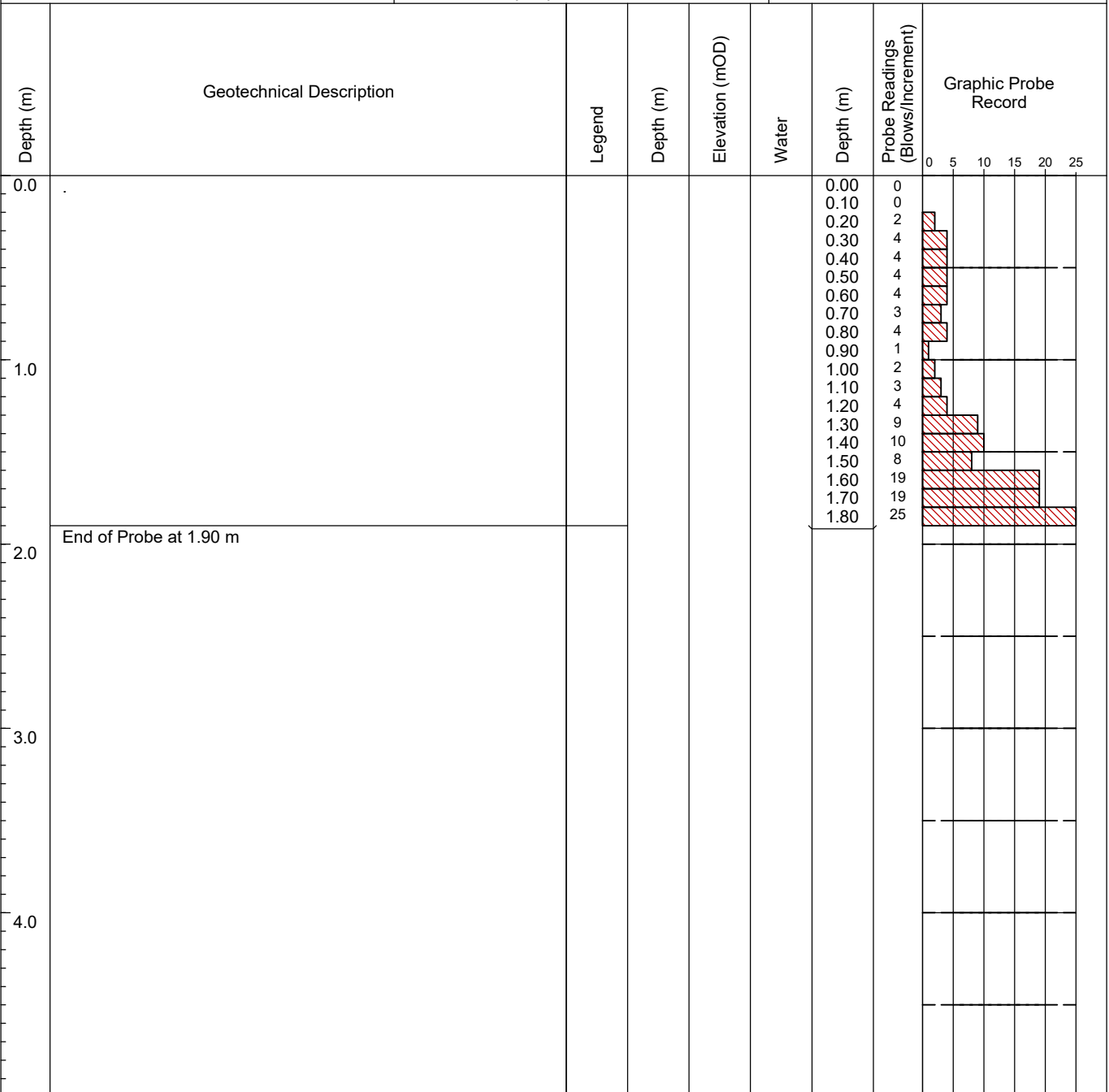
CLIENT Adwood Ltd

INCREMENT SIZE (mm) 100

ENGINEER DBFL

FALL HEIGHT (mm) 500

PROBE TYPE DPH



GROUNDWATER OBSERVATIONS

REMARKS



DYNAMIC PROBE RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

PROBE NO. DP68

SHEET Sheet 1 of 1

CO-ORDINATES

GROUND LEVEL (mOD)

HAMMER MASS (kg) 50

DATE DRILLED 21/01/2025

DATE LOGGED 23/01/2025

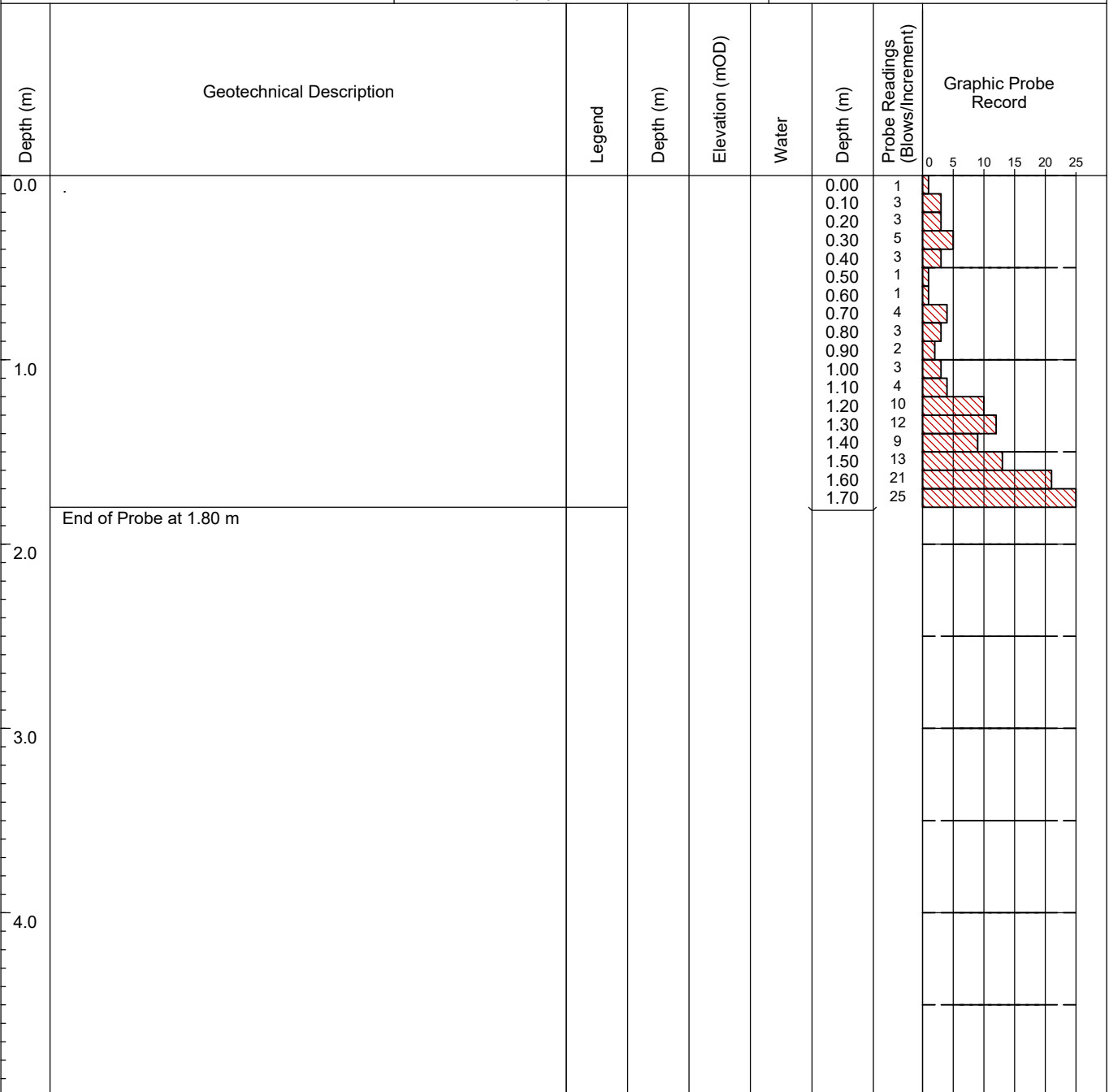
CLIENT Adwood Ltd

INCREMENT SIZE (mm) 100

ENGINEER DBFL

FALL HEIGHT (mm) 500

PROBE TYPE DPH



GROUNDWATER OBSERVATIONS

REMARKS



DYNAMIC PROBE RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

PROBE NO. DP69

SHEET Sheet 1 of 1

CO-ORDINATES

GROUND LEVEL (mOD)

HAMMER MASS (kg) 50

DATE DRILLED 21/01/2025

DATE LOGGED 23/01/2025

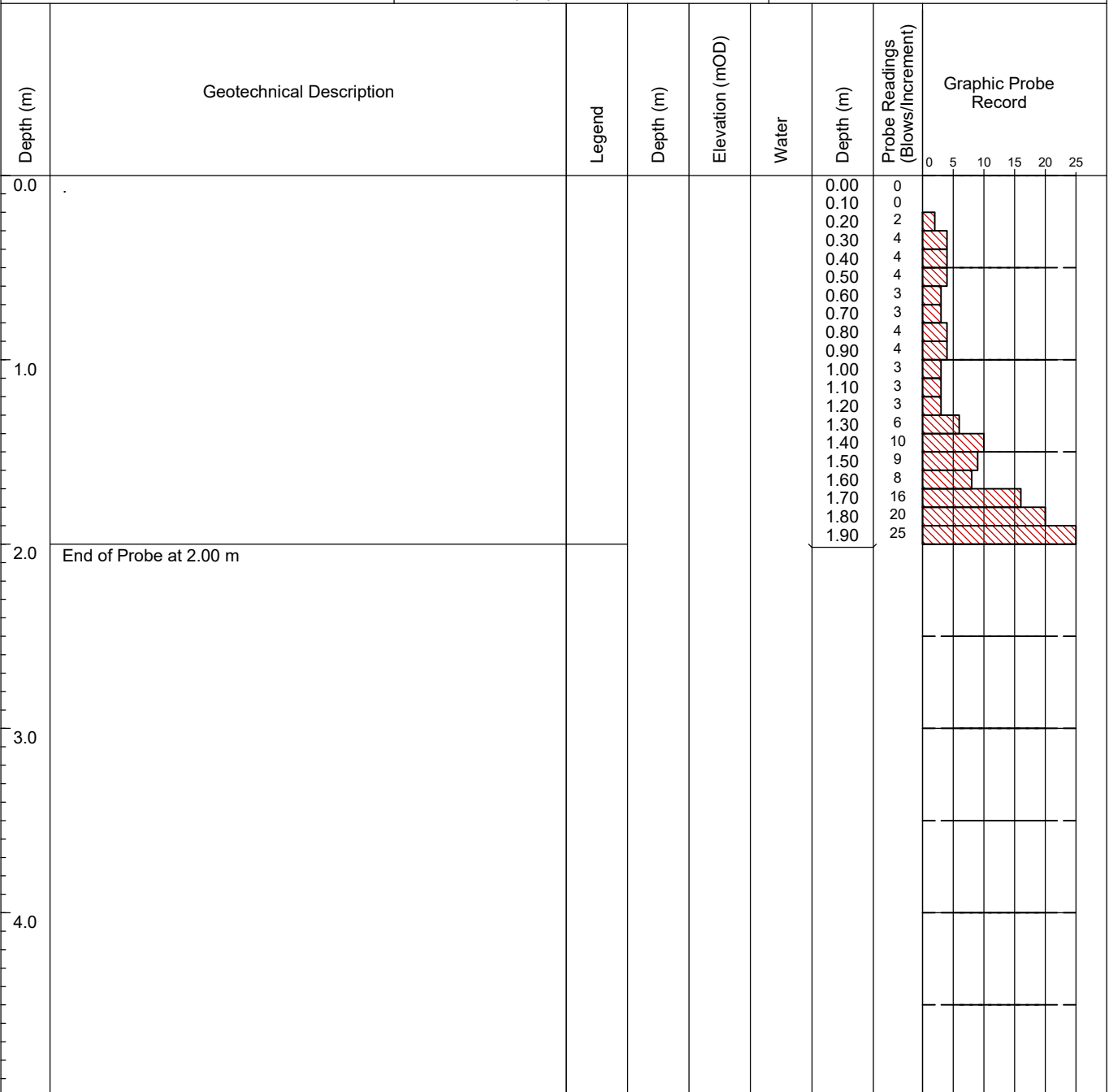
CLIENT Adwood Ltd

INCREMENT SIZE (mm) 100

ENGINEER DBFL

FALL HEIGHT (mm) 500

PROBE TYPE DPH



GROUNDWATER OBSERVATIONS

REMARKS



DYNAMIC PROBE RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

PROBE NO. DP70

SHEET Sheet 1 of 1

CO-ORDINATES

GROUND LEVEL (mOD)

HAMMER MASS (kg) 50

DATE DRILLED 21/01/2025

DATE LOGGED 23/01/2025

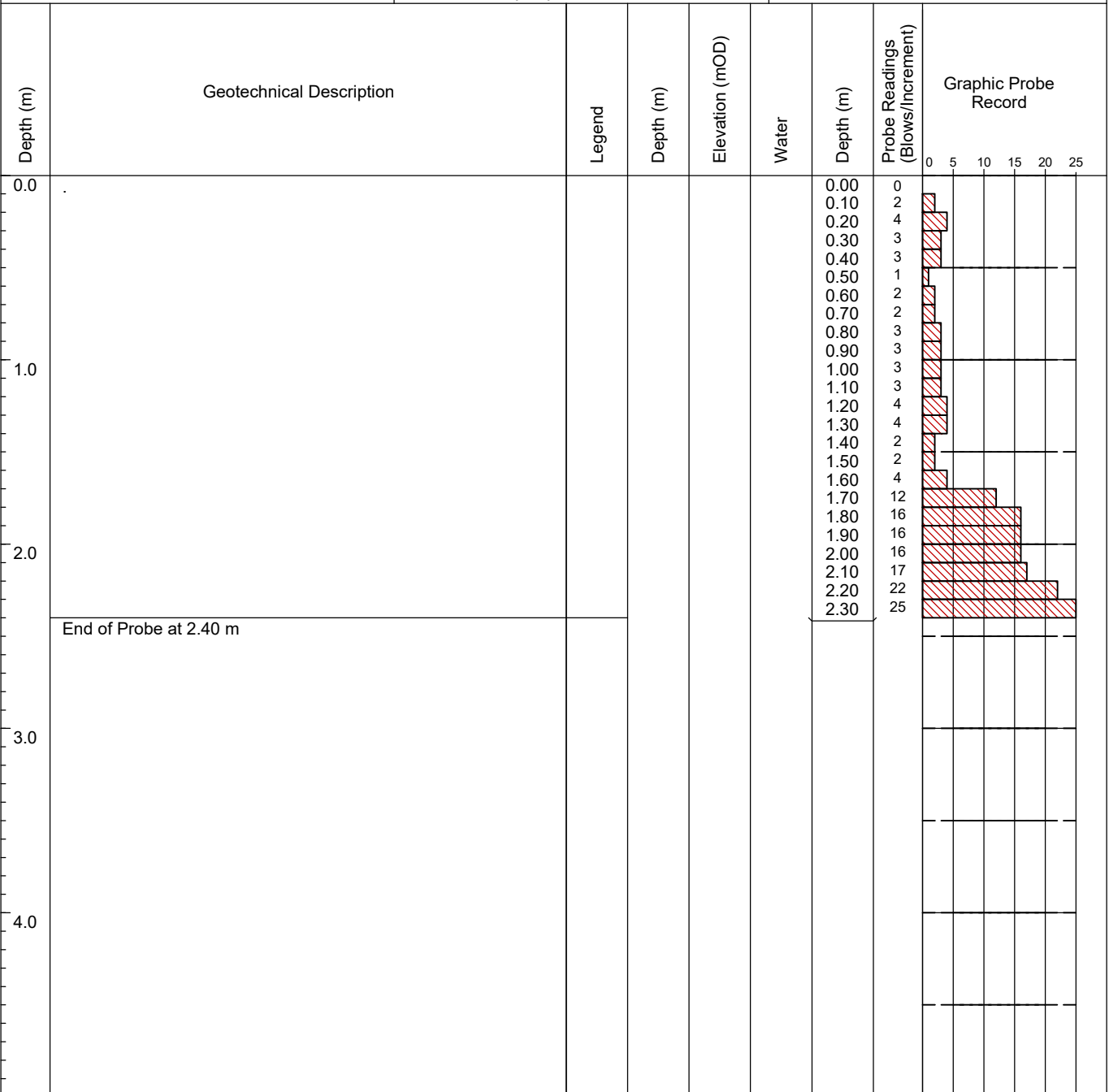
CLIENT Adwood Ltd

INCREMENT SIZE (mm) 100

ENGINEER DBFL

FALL HEIGHT (mm) 500

PROBE TYPE DPH



GROUNDWATER OBSERVATIONS

REMARKS



DYNAMIC PROBE RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

PROBE NO. DP71

SHEET Sheet 1 of 1

CO-ORDINATES

GROUND LEVEL (mOD)

HAMMER MASS (kg) 50

DATE DRILLED 21/01/2025

DATE LOGGED 23/01/2025

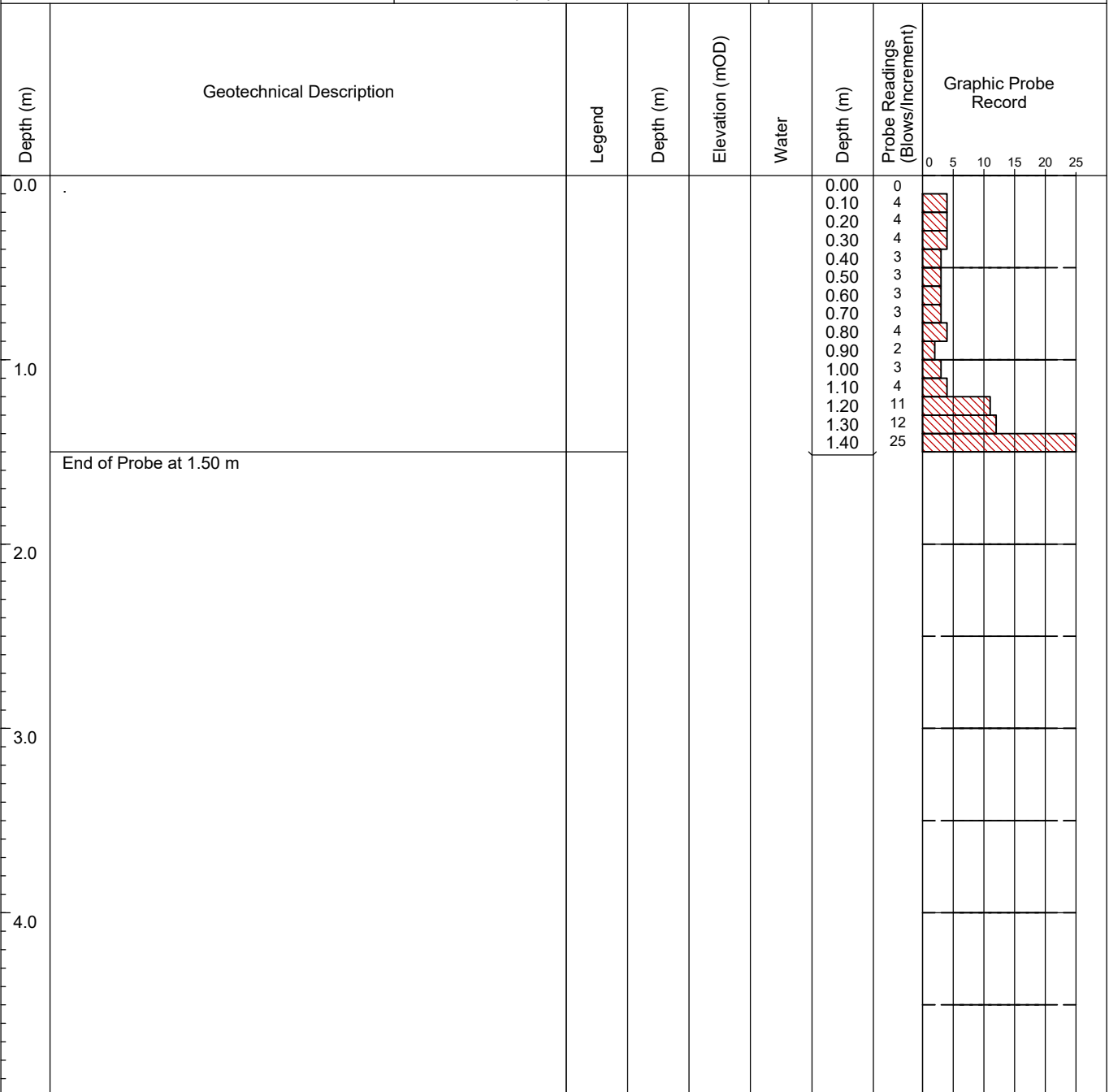
CLIENT Adwood Ltd

INCREMENT SIZE (mm) 100

ENGINEER DBFL

FALL HEIGHT (mm) 500

PROBE TYPE DPH



GROUNDWATER OBSERVATIONS

REMARKS



DYNAMIC PROBE RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

PROBE NO. DP72

SHEET Sheet 1 of 1

CO-ORDINATES

GROUND LEVEL (mOD)

HAMMER MASS (kg) 50

DATE DRILLED 21/01/2025

DATE LOGGED 23/01/2025

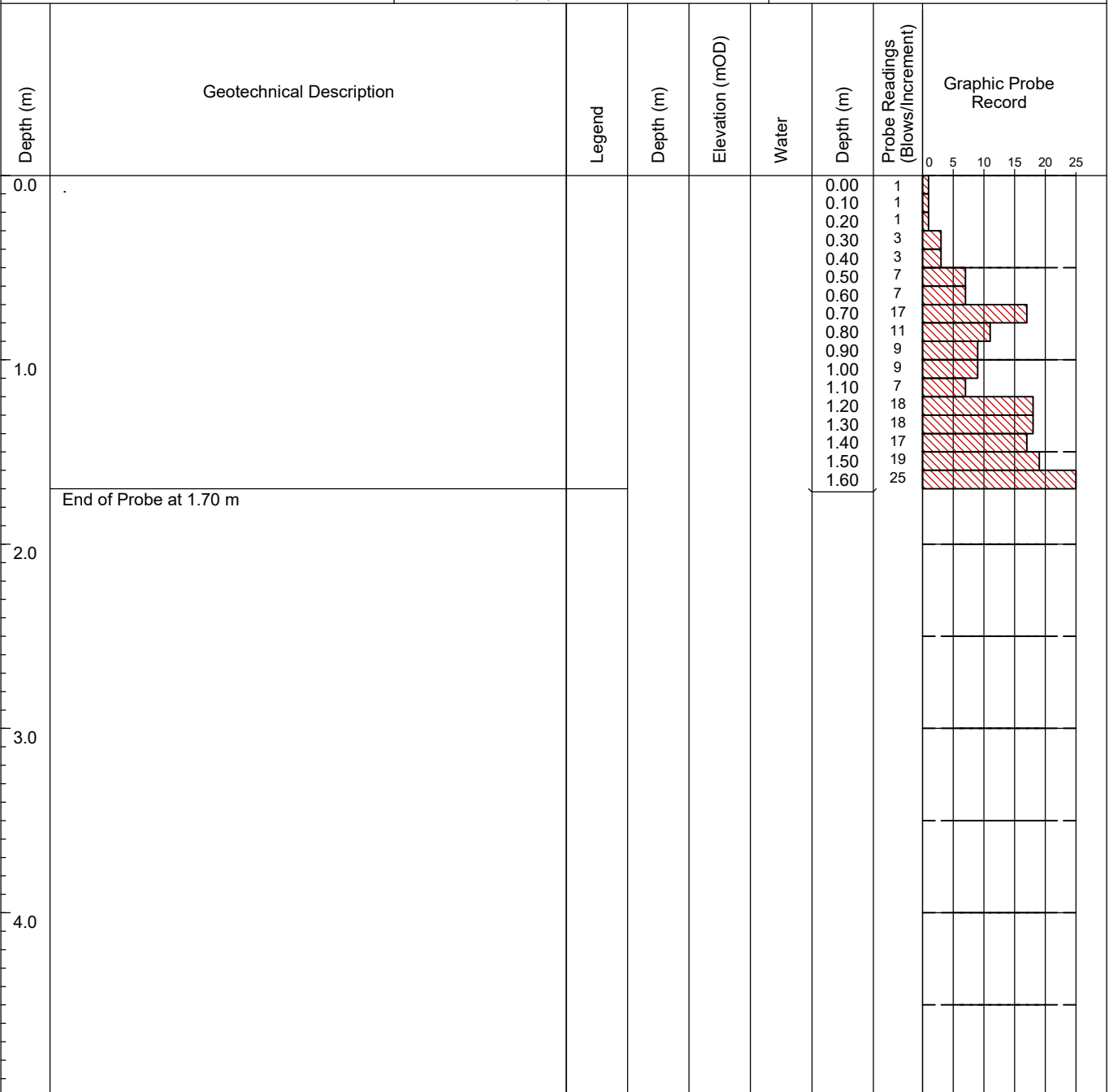
CLIENT Adwood Ltd

INCREMENT SIZE (mm) 100

ENGINEER DBFL

FALL HEIGHT (mm) 500

PROBE TYPE DPH



GROUNDWATER OBSERVATIONS

REMARKS



DYNAMIC PROBE RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

PROBE NO. DP73

SHEET Sheet 1 of 1

CO-ORDINATES

GROUND LEVEL (mOD)

HAMMER MASS (kg) 50

DATE DRILLED 21/01/2025

DATE LOGGED 23/01/2025

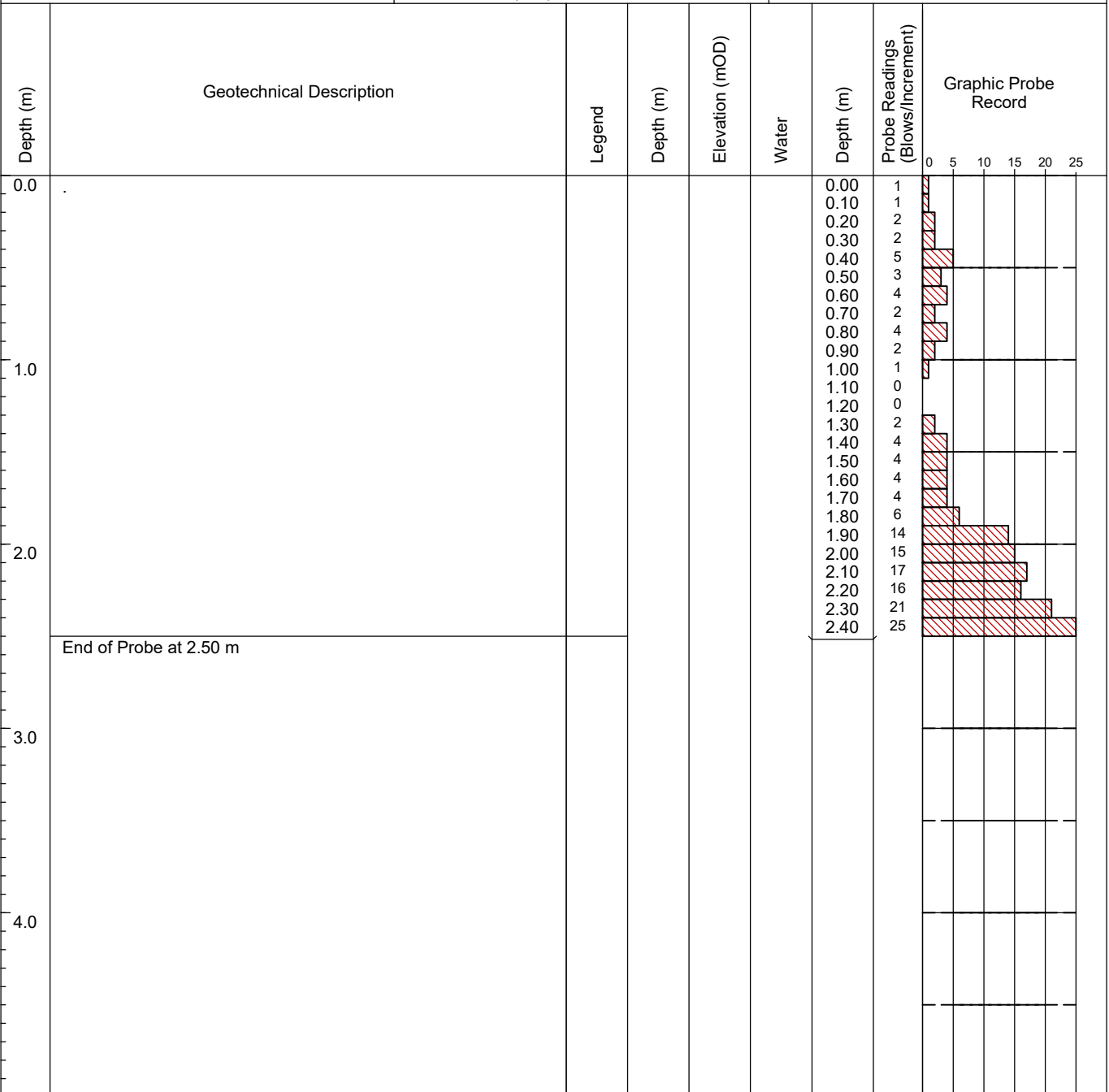
CLIENT Adwood Ltd

INCREMENT SIZE (mm) 100

ENGINEER DBFL

FALL HEIGHT (mm) 500

PROBE TYPE DPH



GROUNDWATER OBSERVATIONS

REMARKS



DYNAMIC PROBE RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

PROBE NO. DP74

SHEET Sheet 1 of 1

CO-ORDINATES

GROUND LEVEL (mOD)

HAMMER MASS (kg) 50

DATE DRILLED 21/01/2025

DATE LOGGED 23/01/2025

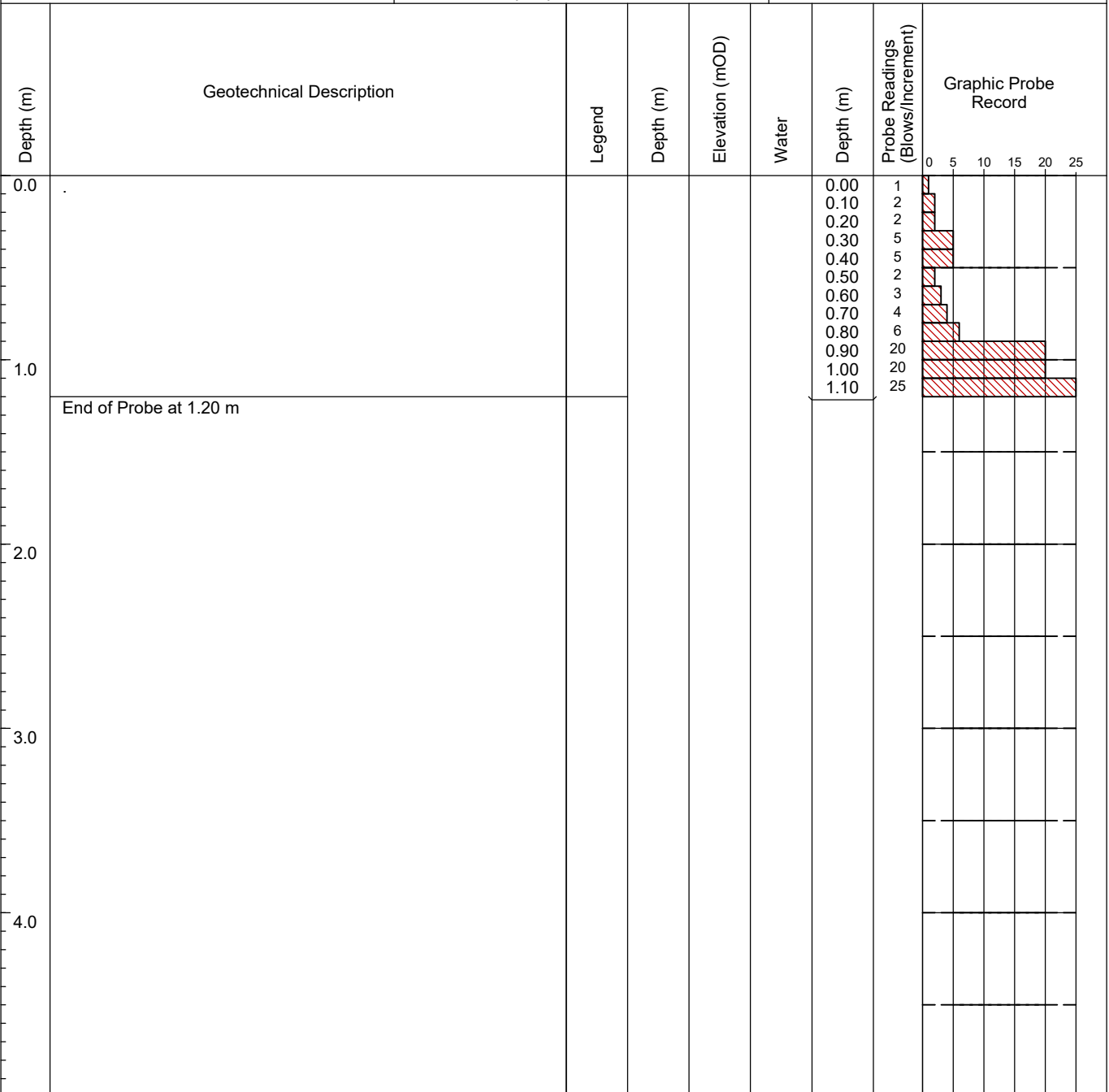
CLIENT Adwood Ltd

INCREMENT SIZE (mm) 100

ENGINEER DBFL

FALL HEIGHT (mm) 500

PROBE TYPE DPH



GROUNDWATER OBSERVATIONS

REMARKS



DYNAMIC PROBE RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

PROBE NO. DP75

SHEET Sheet 1 of 1

CO-ORDINATES

GROUND LEVEL (mOD)

HAMMER MASS (kg) 50

DATE DRILLED 21/01/2025

DATE LOGGED 23/01/2025

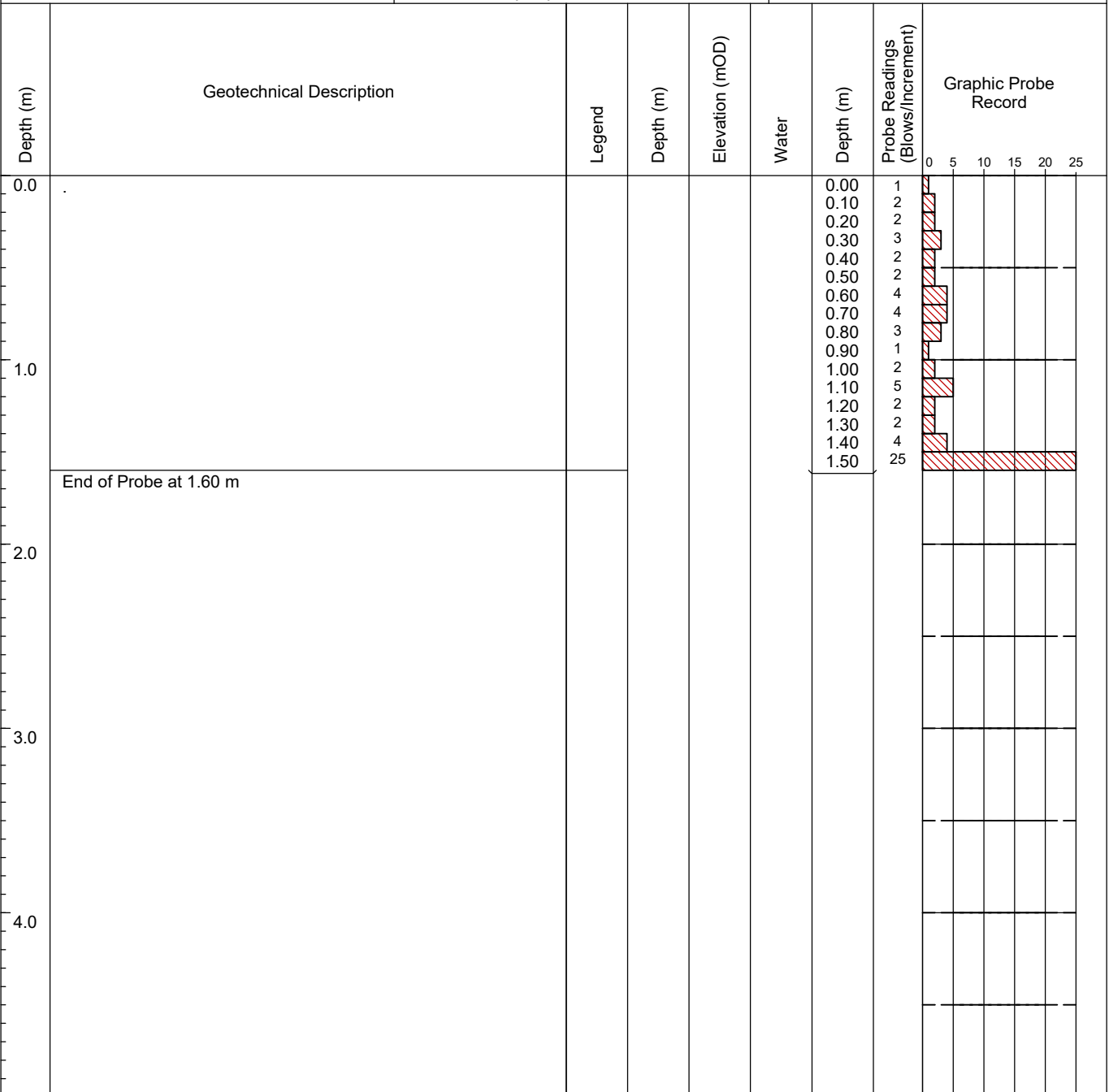
CLIENT Adwood Ltd

INCREMENT SIZE (mm) 100

ENGINEER DBFL

FALL HEIGHT (mm) 500

PROBE TYPE DPH



GROUNDWATER OBSERVATIONS

REMARKS



DYNAMIC PROBE RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

PROBE NO. DP76

SHEET Sheet 1 of 1

CO-ORDINATES

GROUND LEVEL (mOD)

HAMMER MASS (kg) 50

DATE DRILLED 21/01/2025

DATE LOGGED 23/01/2025

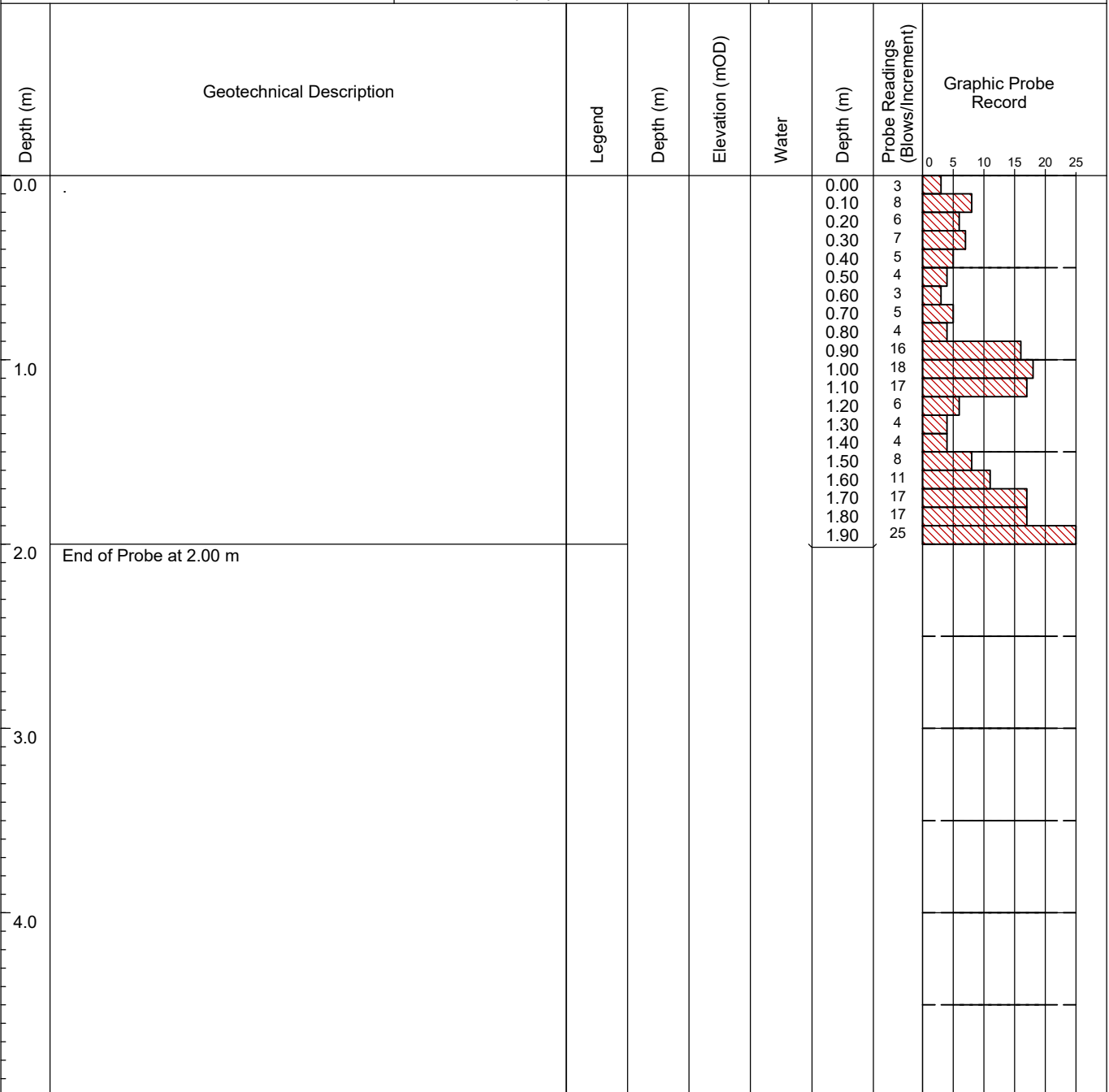
CLIENT Adwood Ltd

INCREMENT SIZE (mm) 100

ENGINEER DBFL

FALL HEIGHT (mm) 500

PROBE TYPE DPH



GROUNDWATER OBSERVATIONS

REMARKS



DYNAMIC PROBE RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

PROBE NO. DP77

SHEET Sheet 1 of 1

CO-ORDINATES

GROUND LEVEL (mOD)

HAMMER MASS (kg) 50

DATE DRILLED 21/01/2025

DATE LOGGED 23/01/2025

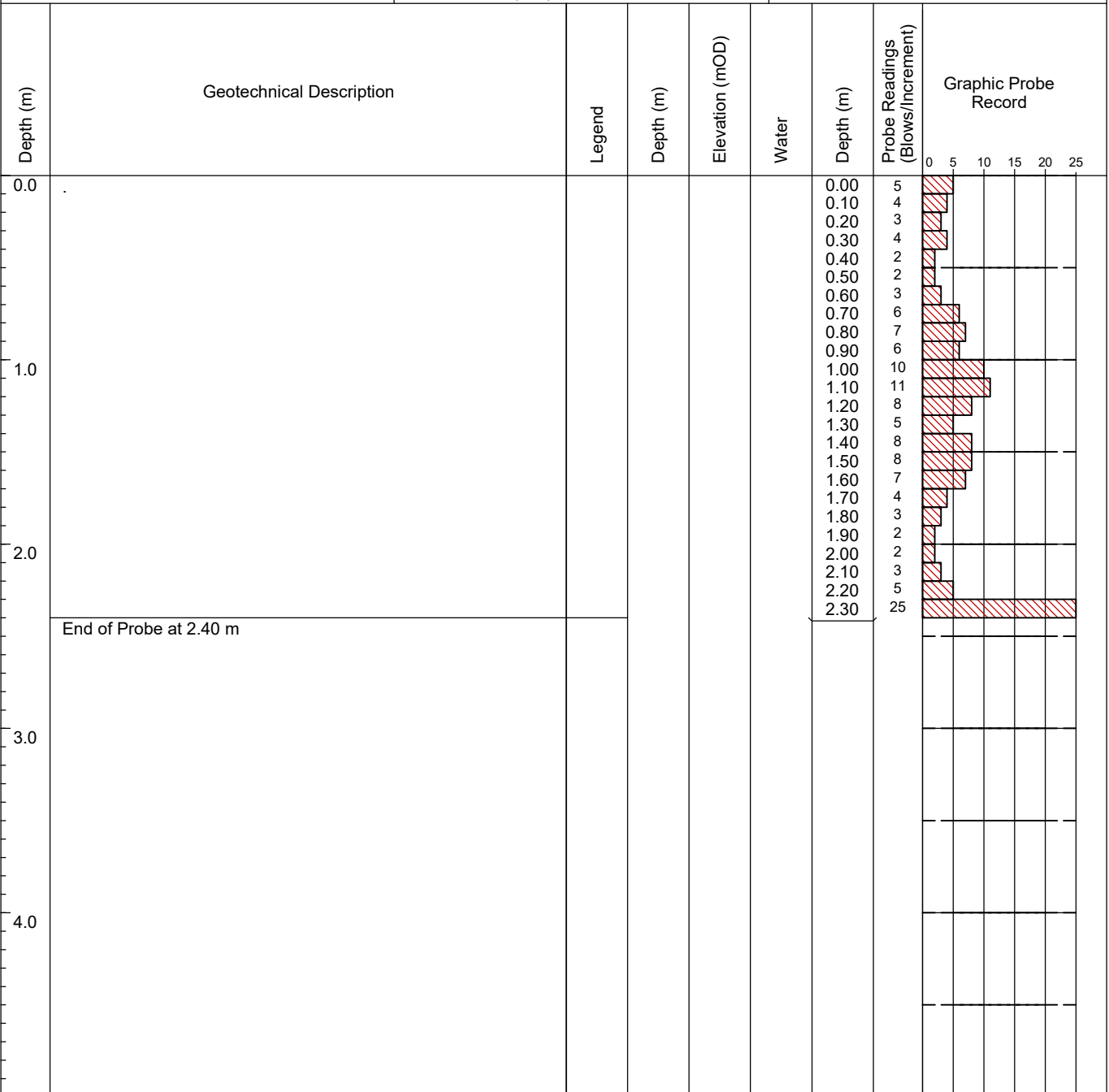
CLIENT Adwood Ltd

INCREMENT SIZE (mm) 100

ENGINEER DBFL

FALL HEIGHT (mm) 500

PROBE TYPE DPH



GROUNDWATER OBSERVATIONS

REMARKS



DYNAMIC PROBE RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

PROBE NO. DP78

SHEET Sheet 1 of 1

CO-ORDINATES

GROUND LEVEL (mOD)

HAMMER MASS (kg) 50

DATE DRILLED 21/01/2025

DATE LOGGED 23/01/2025

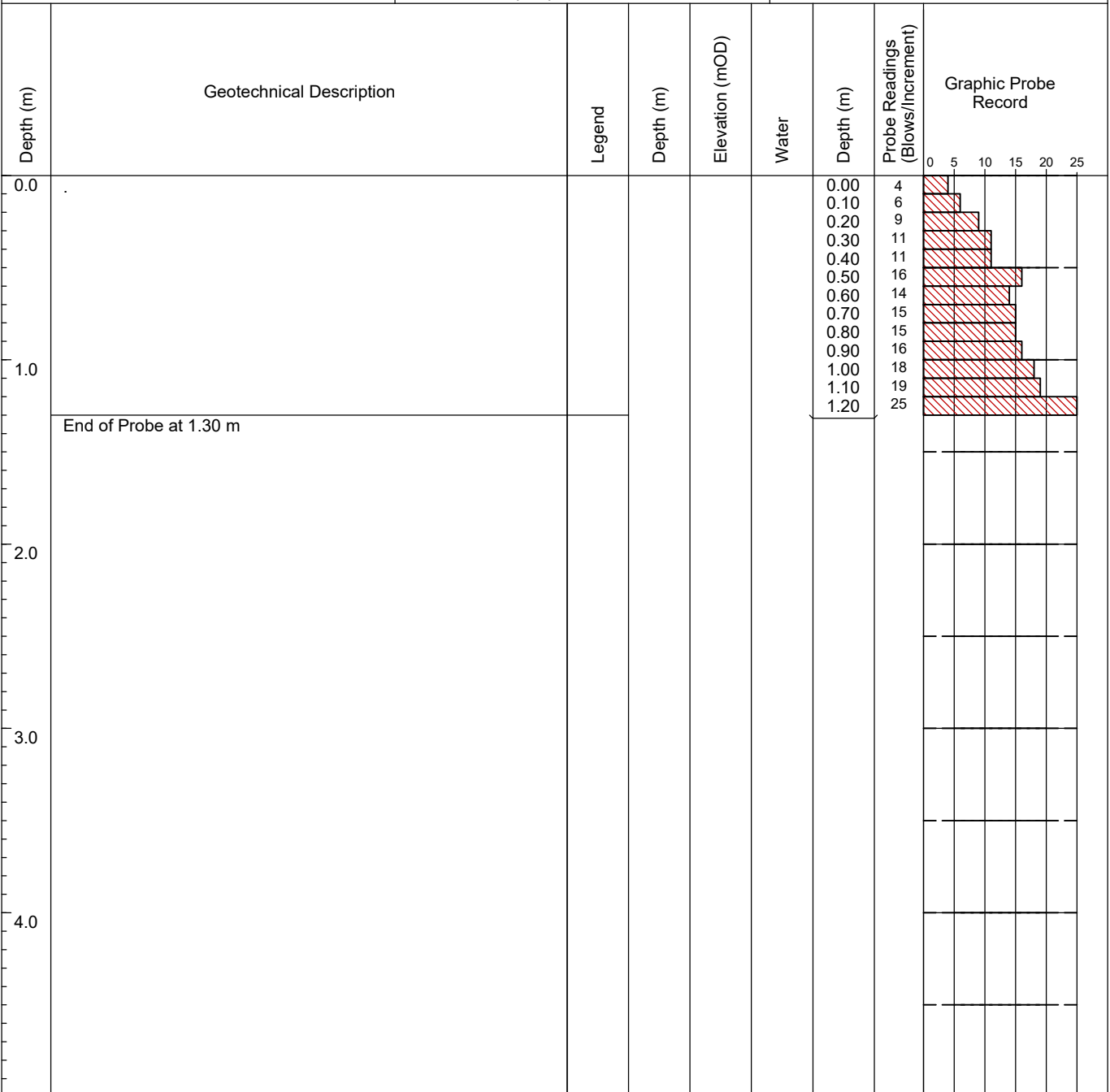
CLIENT Adwood Ltd

INCREMENT SIZE (mm) 100

ENGINEER DBFL

FALL HEIGHT (mm) 500

PROBE TYPE DPH



GROUNDWATER OBSERVATIONS

REMARKS



DYNAMIC PROBE RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

PROBE NO. DP79

SHEET Sheet 1 of 1

CO-ORDINATES

GROUND LEVEL (mOD)

HAMMER MASS (kg) 50

DATE DRILLED 07/01/2025

DATE LOGGED 10/01/2025

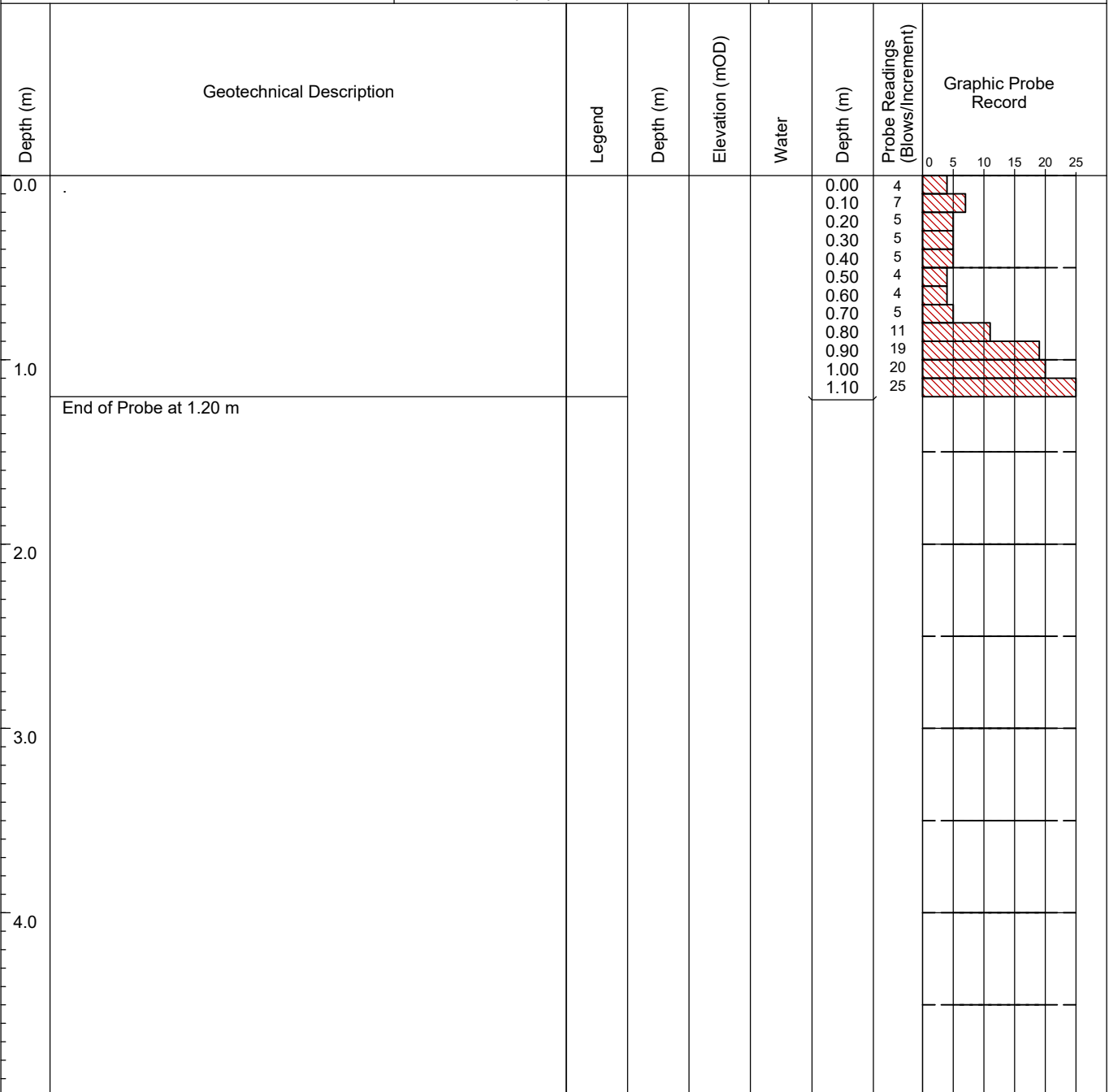
CLIENT Adwood Ltd

INCREMENT SIZE (mm) 100

ENGINEER DBFL

FALL HEIGHT (mm) 500

PROBE TYPE DPH



GROUNDWATER OBSERVATIONS

REMARKS



DYNAMIC PROBE RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

PROBE NO. DP80

SHEET Sheet 1 of 1

CO-ORDINATES

GROUND LEVEL (mOD)

HAMMER MASS (kg) 50

DATE DRILLED 07/01/2025

DATE LOGGED 10/01/2025

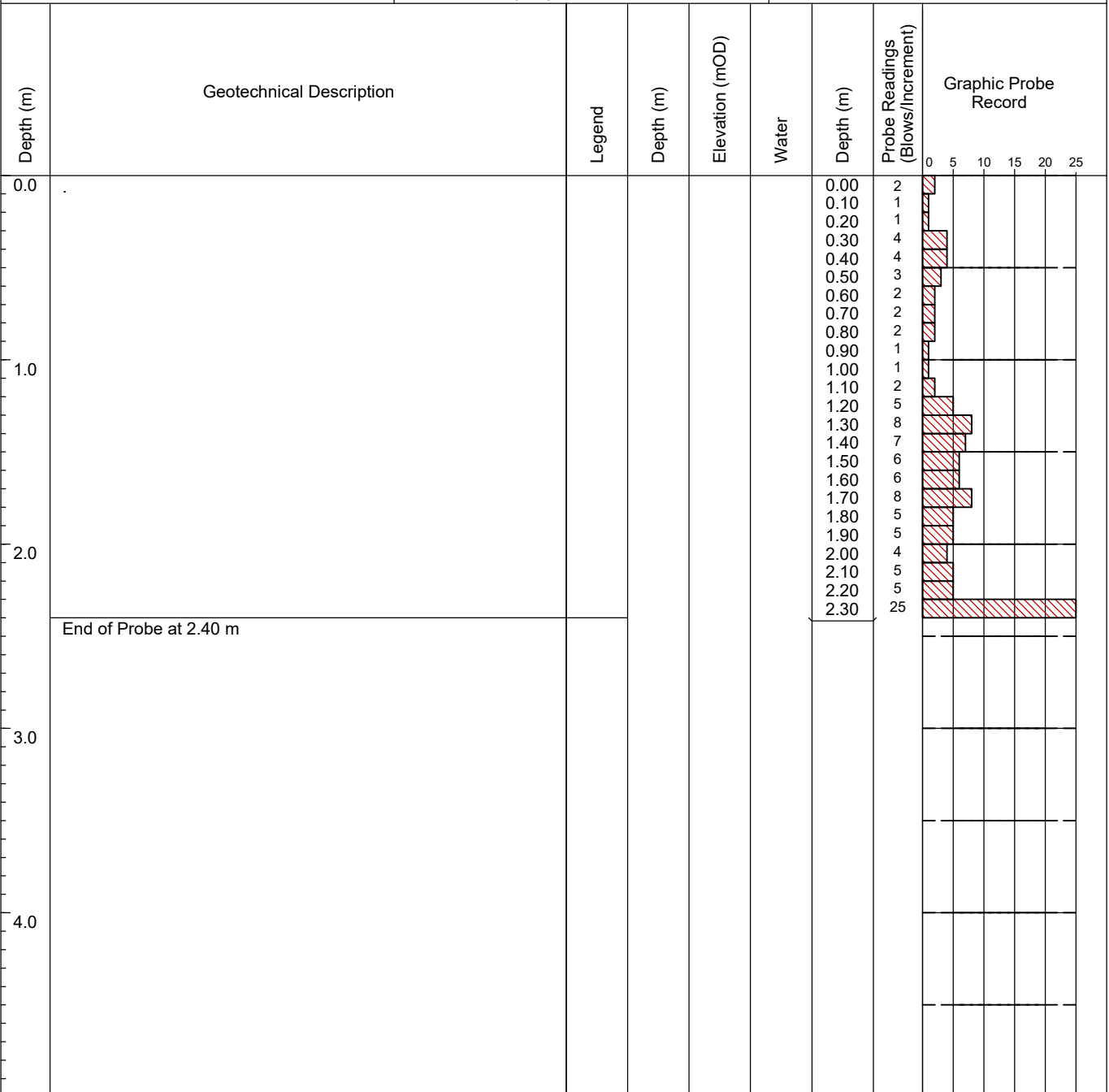
CLIENT Adwood Ltd

INCREMENT SIZE (mm) 100

ENGINEER DBFL

FALL HEIGHT (mm) 500

PROBE TYPE DPH



GROUNDWATER OBSERVATIONS

REMARKS



DYNAMIC PROBE RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

PROBE NO. DP81

SHEET Sheet 1 of 1

CO-ORDINATES

GROUND LEVEL (mOD)

HAMMER MASS (kg) 50

DATE DRILLED 07/01/2025

DATE LOGGED 10/01/2025

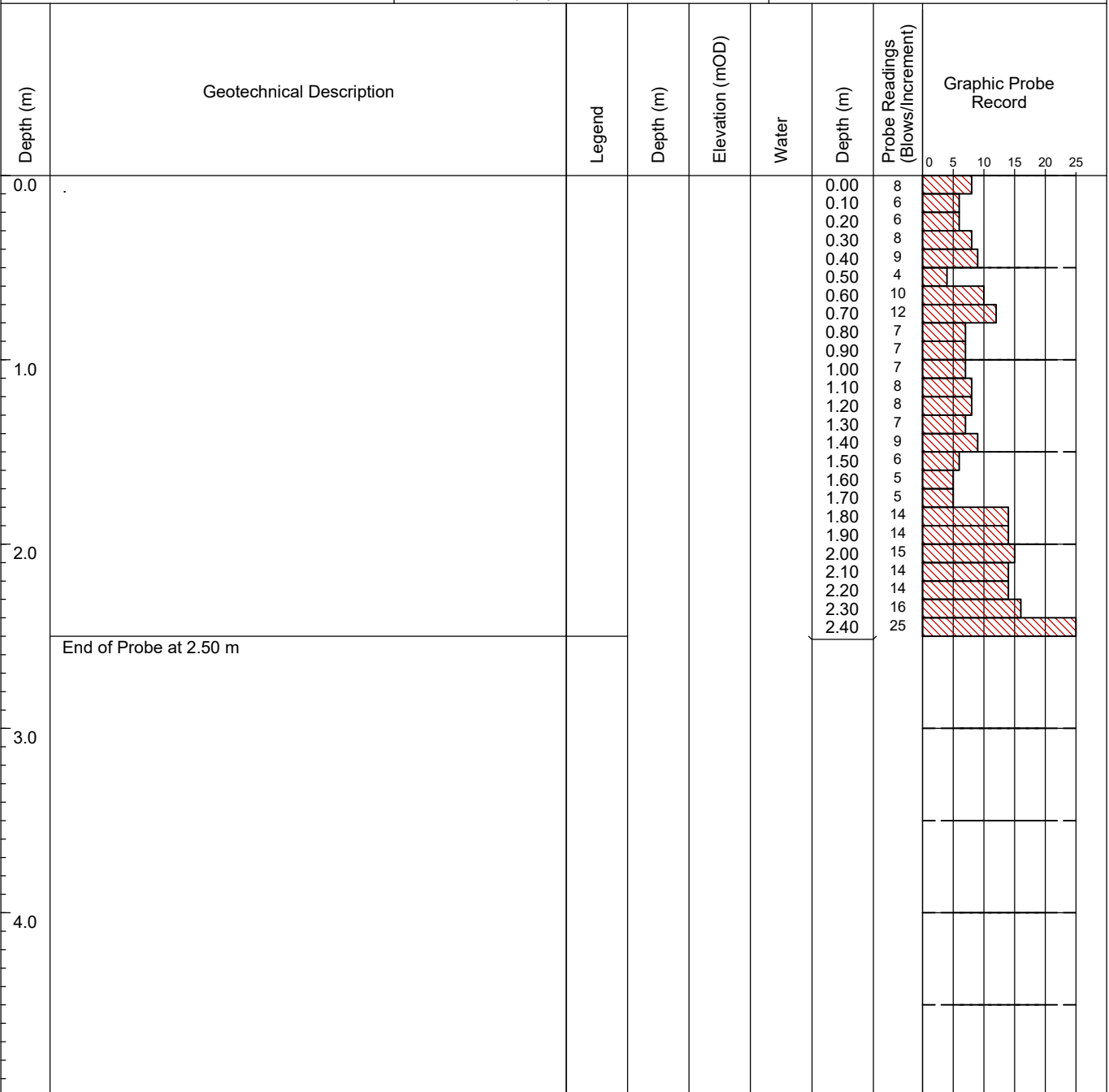
CLIENT Adwood Ltd

INCREMENT SIZE (mm) 100

ENGINEER DBFL

FALL HEIGHT (mm) 500

PROBE TYPE DPH



GROUNDWATER OBSERVATIONS

REMARKS



DYNAMIC PROBE RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

PROBE NO. DP82

SHEET Sheet 1 of 1

CO-ORDINATES

GROUND LEVEL (mOD)

HAMMER MASS (kg) 50

DATE DRILLED 07/01/2025

DATE LOGGED 10/01/2025

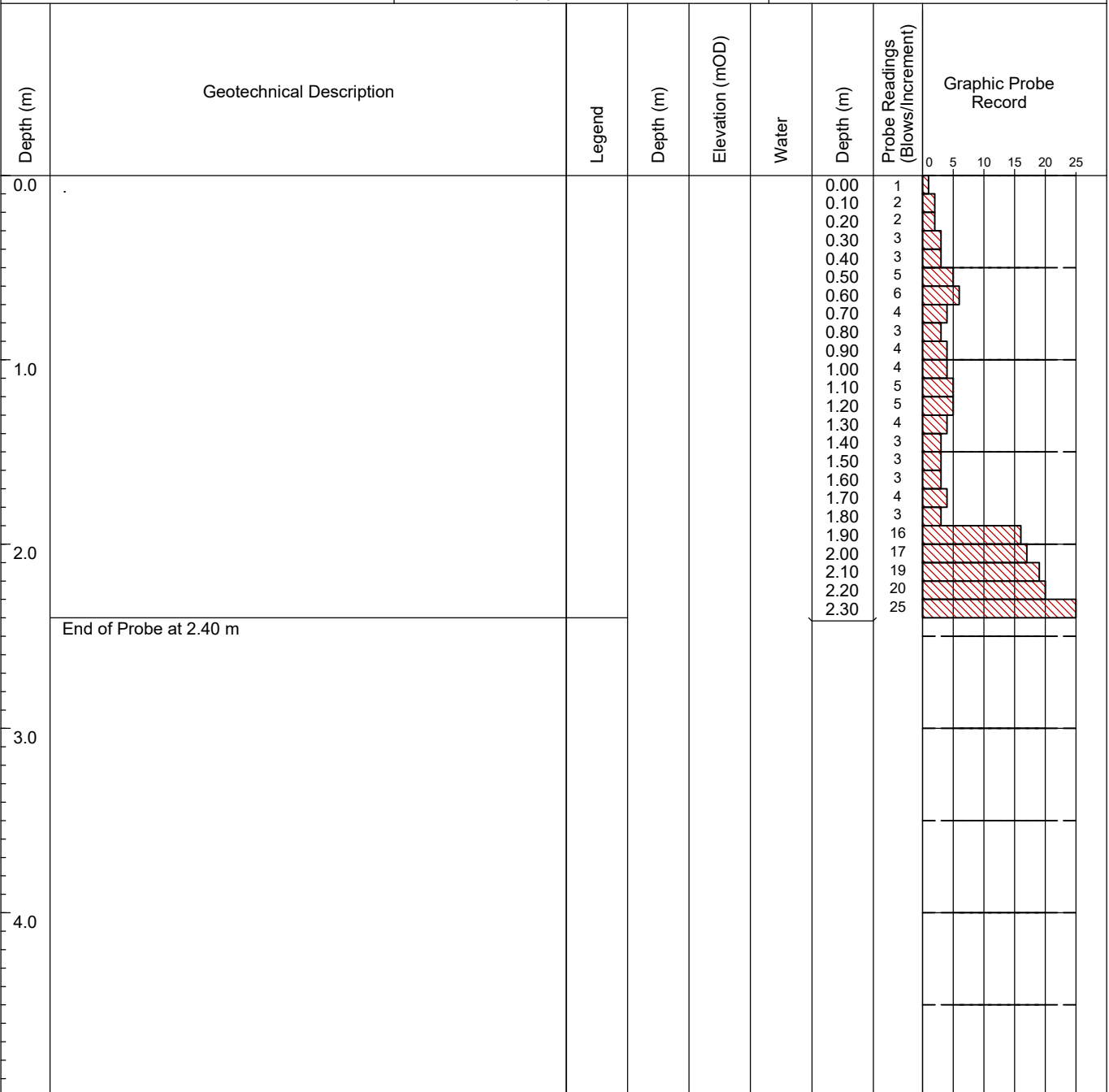
CLIENT Adwood Ltd

INCREMENT SIZE (mm) 100

ENGINEER DBFL

FALL HEIGHT (mm) 500

PROBE TYPE DPH



GROUNDWATER OBSERVATIONS

REMARKS



DYNAMIC PROBE RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

PROBE NO. DP83

SHEET Sheet 1 of 1

CO-ORDINATES

GROUND LEVEL (mOD)

HAMMER MASS (kg) 50

DATE DRILLED 07/01/2025

DATE LOGGED 10/01/2025

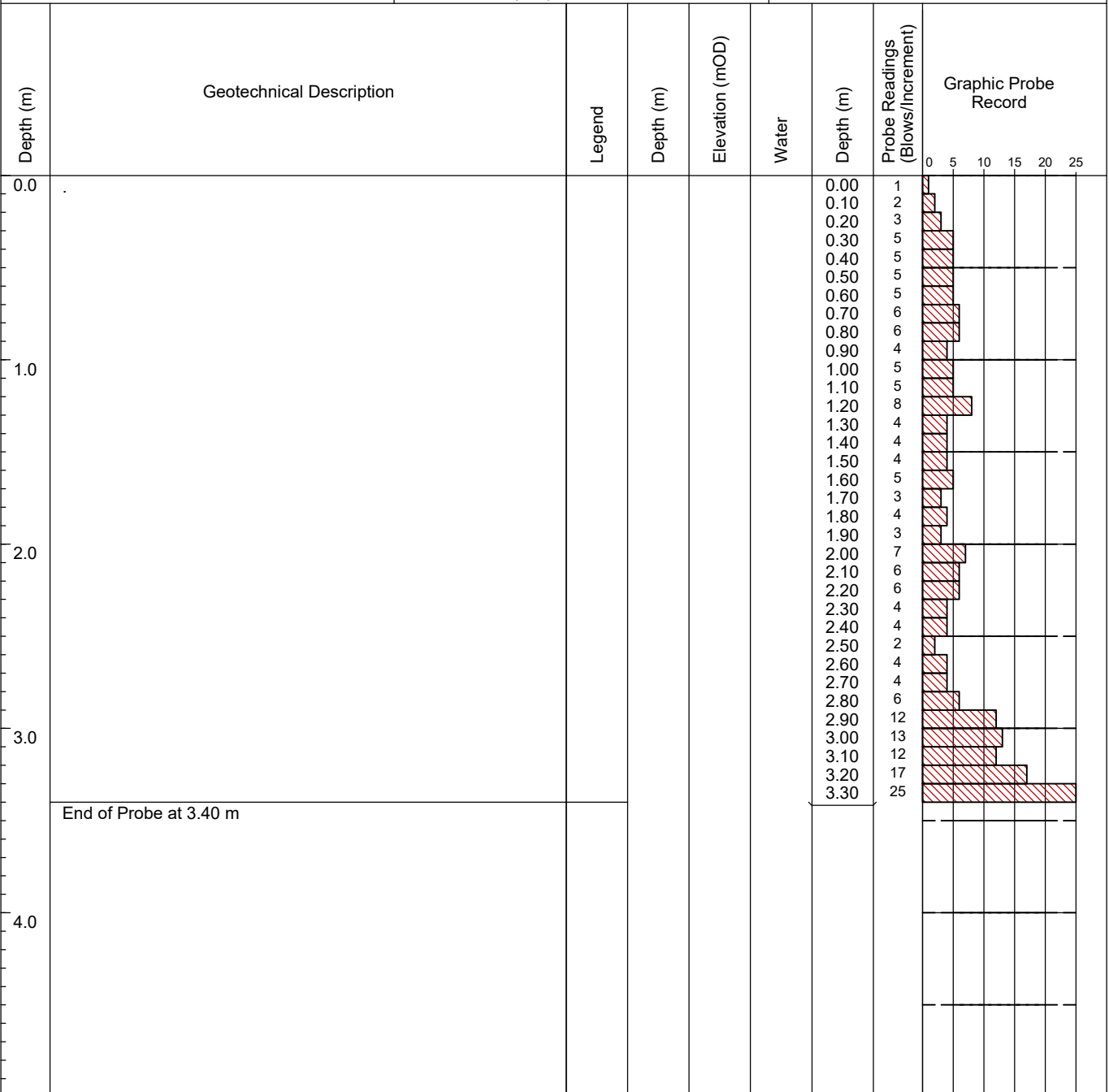
CLIENT Adwood Ltd

INCREMENT SIZE (mm) 100

ENGINEER DBFL

FALL HEIGHT (mm) 500

PROBE TYPE DPH



GROUNDWATER OBSERVATIONS

REMARKS



DYNAMIC PROBE RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

PROBE NO. DP84

SHEET Sheet 1 of 1

CO-ORDINATES

GROUND LEVEL (mOD)

HAMMER MASS (kg) 50

DATE DRILLED 07/01/2025

DATE LOGGED 10/01/2025

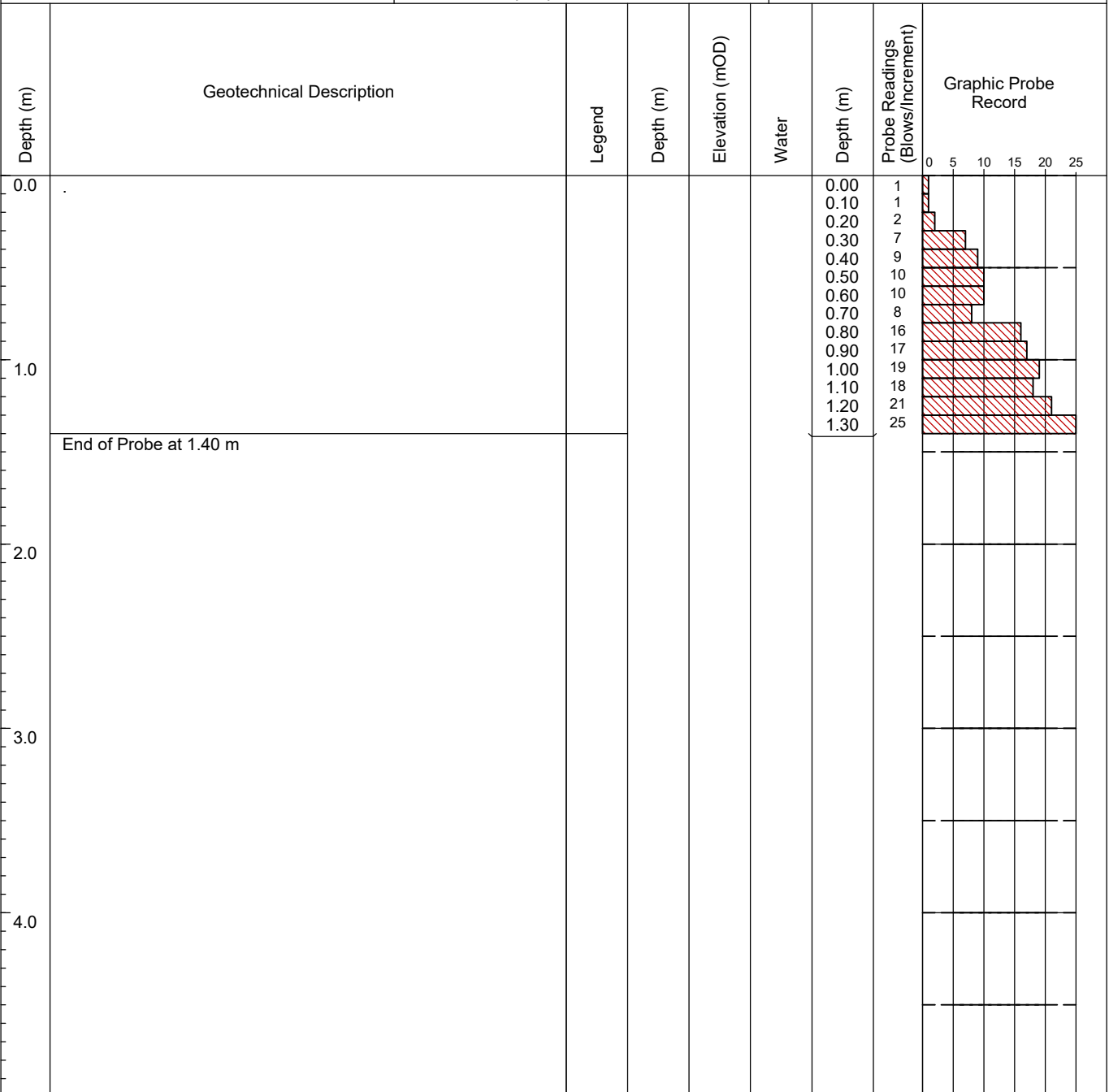
CLIENT Adwood Ltd

INCREMENT SIZE (mm) 100

ENGINEER DBFL

FALL HEIGHT (mm) 500

PROBE TYPE DPH



GROUNDWATER OBSERVATIONS

REMARKS



DYNAMIC PROBE RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

PROBE NO. DP85

SHEET Sheet 1 of 1

CO-ORDINATES

GROUND LEVEL (mOD)

HAMMER MASS (kg) 50

DATE DRILLED 07/01/2025

DATE LOGGED 10/01/2025

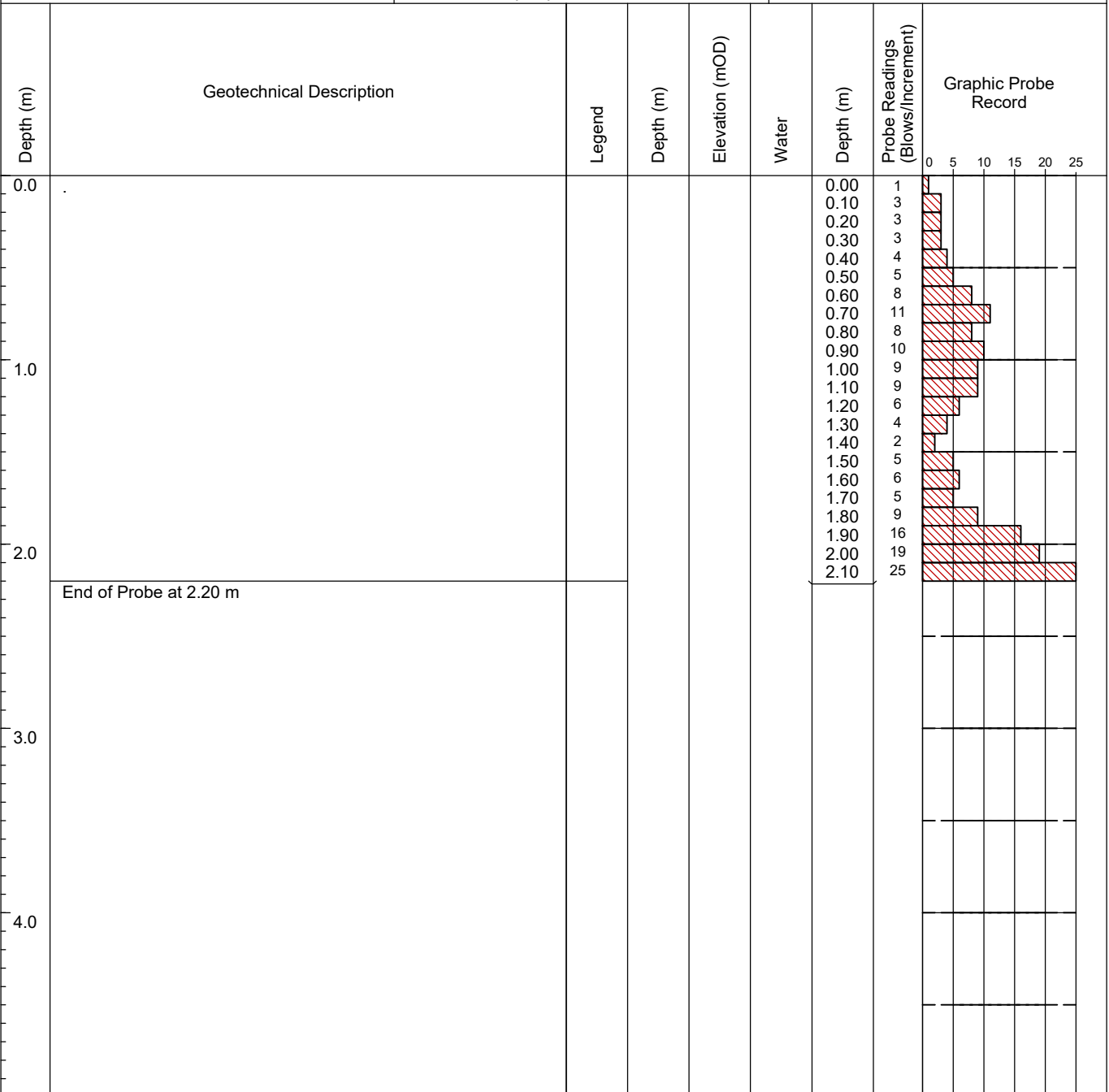
CLIENT Adwood Ltd

INCREMENT SIZE (mm) 100

ENGINEER DBFL

FALL HEIGHT (mm) 500

PROBE TYPE DPH



GROUNDWATER OBSERVATIONS

REMARKS



DYNAMIC PROBE RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

PROBE NO. DP86

SHEET Sheet 1 of 1

CO-ORDINATES

GROUND LEVEL (mOD)

HAMMER MASS (kg) 50

DATE DRILLED 07/01/2025

DATE LOGGED 10/01/2025

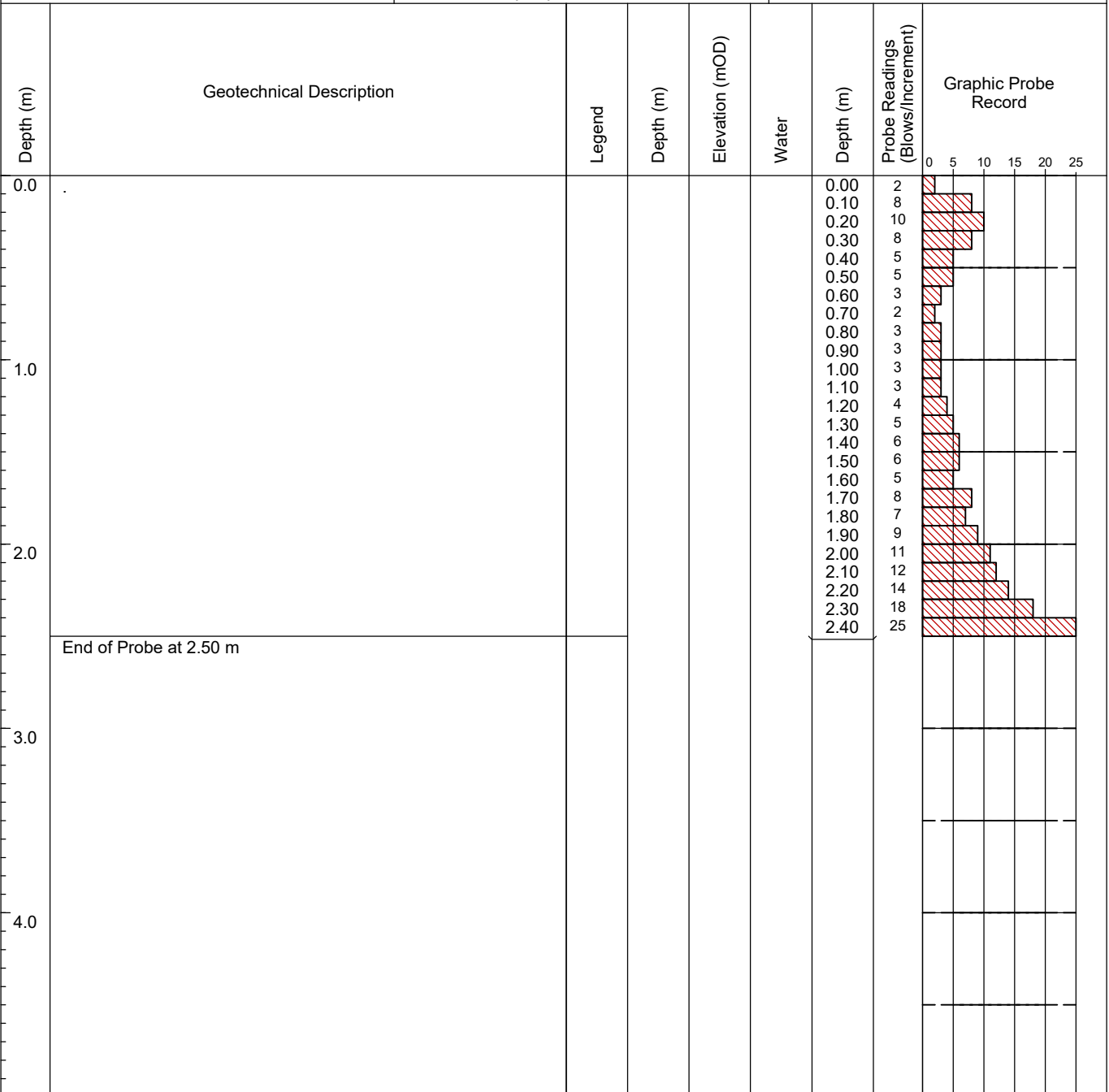
CLIENT Adwood Ltd

INCREMENT SIZE (mm) 100

ENGINEER DBFL

FALL HEIGHT (mm) 500

PROBE TYPE DPH



GROUNDWATER OBSERVATIONS

REMARKS

Appendix 5

Soakaway Test Records

Soakaway Design f -value from field tests IGSL

Contract: Mt. Avenue Contract No. 25758
 Test No. IT01
 Engineer Patrick Ryan
 Date: 30/01/2025

Summary of ground conditions

from	to	Description	Ground water
0.00	0.30	Soft grey slightly sandy gravelly CLAY. Gravels are fine to coarse sub an	DRY
0.30	1.50	Firm grey mottled brown slightly gravelly sandy CLAY with low cobble con	

Notes:

Field Data

Depth to Water (m)	Elapsed Time (min)
0.73	0.00
0.73	1.00
0.73	2.00
0.73	3.00
0.73	4.00
0.73	5.00
0.73	6.00
0.73	7.00
0.73	8.00
0.73	9.00
0.73	10.00
0.73	12.00
0.73	14.00
0.73	16.00
0.73	18.00
0.73	20.00
0.73	25.00
0.73	30.00
0.73	40.00
0.73	50.00
0.73	60.00

Field Test

Depth of Pit (D)	1.50	m
Width of Pit (B)	1.10	m
Length of Pit (L)	2.00	m

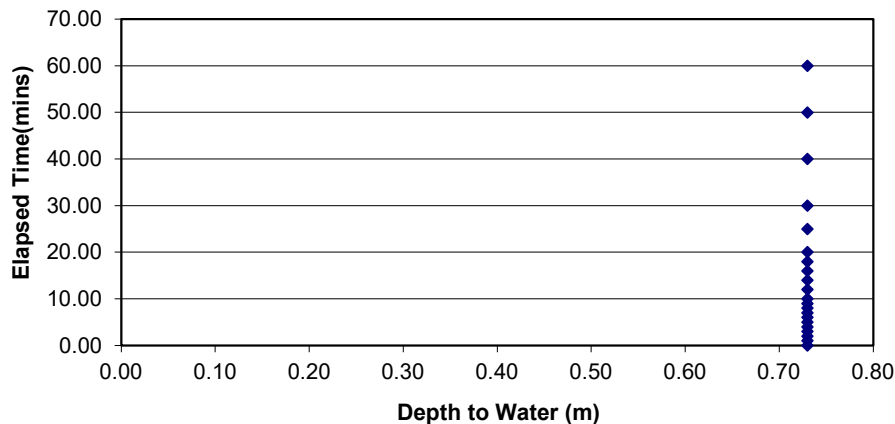
Initial depth to Water =	0.73	m
Final depth to water =	0.730	m
Elapsed time (mins)=	60.00	

Top of permeable soil		m
Base of permeable soil		m

Base area=	2.2	m ²
*Av. side area of permeable stratum over test p	4.774	m ²
Total Exposed area =	6.974	m ²

Infiltration rate (f) = Volume of water used/unit exposed area / unit time
f= 0 m/min or 0 m/sec

Depth of water vs Elapsed Time (mins)



Soakaway Design f -value from field tests IGSL

Contract: Mt. Avenue Contract No. 25758
 Test No. IT02
 Engineer Patrick Ryan
 Date: 28/01/2025

Summary of ground conditions

from	to	Description	Ground water
0.00	0.30	Soft brown slightly sandy gravelly CLAY. Gravels are fine to coarse sub a	DRY
0.30	1.70	Firm brown slightly gravelly sandy CLAY with medium cobble content sub	
1.70	2.20	Firm brown slightly sandy very gravelly CLAY with medium cobble conter	

Notes:

Field Data

Depth to Water (m)	Elapsed Time (min)
1.10	0.00
1.11	1.00
1.11	2.00
1.11	3.00
1.11	4.00
1.11	5.00
1.11	6.00
1.12	7.00
1.12	8.00
1.12	9.00
1.12	10.00
1.12	12.00
1.13	14.00
1.14	16.00
1.14	18.00
1.14	20.00
1.15	25.00
1.16	30.00
1.17	40.00
1.19	50.00
1.20	60.00

Field Test

Depth of Pit (D)	2.20	m
Width of Pit (B)	0.80	m
Length of Pit (L)	2.30	m

Initial depth to Water =	1.10	m
Final depth to water =	1.200	m
Elapsed time (mins)=	60.00	

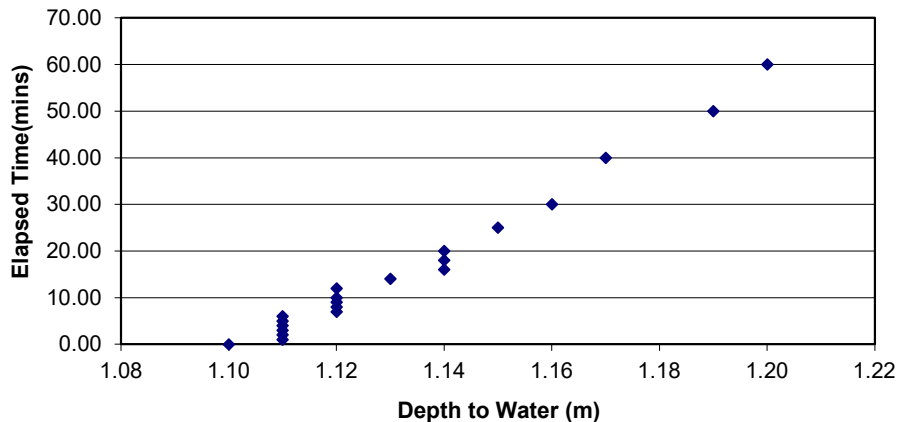
Top of permeable soil		m
Base of permeable soil		m

Base area=	1.84	m ²
*Av. side area of permeable stratum over test p	6.51	m ²
Total Exposed area =	8.35	m ²

Infiltration rate (f) = Volume of water used/unit exposed area / unit time

f= 0.00037 m/min or 6.12109E-06 m/sec

Depth of water vs Elapsed Time (mins)



Soakaway Design f -value from field tests IGSL

Contract: Mt. Avenue Contract No. 25758
 Test No. IT03
 Engineer Patrick Ryan
 Date: 28/01/2025

Summary of ground conditions

from	to	Description	Ground water
0.00	0.40	Soft brown slightly sandy gravelly CLAY. Gravels are fine to coarse sub a	DRY
0.40	1.70	Loose brown slightly clayey gravelly SAND with medium cobble content a	
1.70	1.90	Medium dense clayey sandy GRAVEL with medium cobble content angul	
1.90	2.00	Weathered Greywacke rockhead. Recovered as high cobble content ang	

Notes:

Field Data

Depth to Water (m)	Elapsed Time (min)
1.08	0.00
1.20	1.00
1.26	2.00
1.32	3.00
1.34	4.00
1.37	5.00
1.40	6.00
1.42	7.00
1.43	8.00
1.45	9.00
1.47	10.00
1.52	12.00
1.55	14.00
1.56	16.00
1.58	18.00
1.63	20.00
1.67	25.00
1.76	30.00
1.87	40.00
1.94	50.00

Field Test

Depth of Pit (D)	2.00	m
Width of Pit (B)	0.68	m
Length of Pit (L)	2.20	m

Initial depth to Water =	1.08	m
Final depth to water =	1.940	m
Elapsed time (mins)=	50.00	

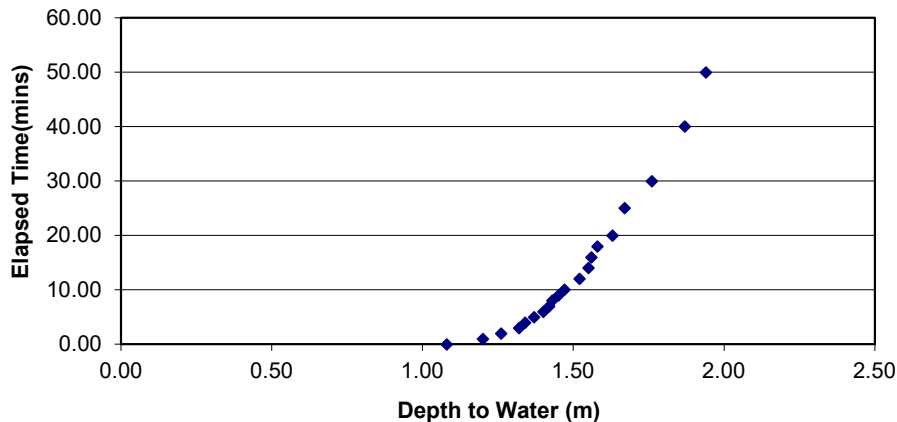
Top of permeable soil		m
Base of permeable soil		m

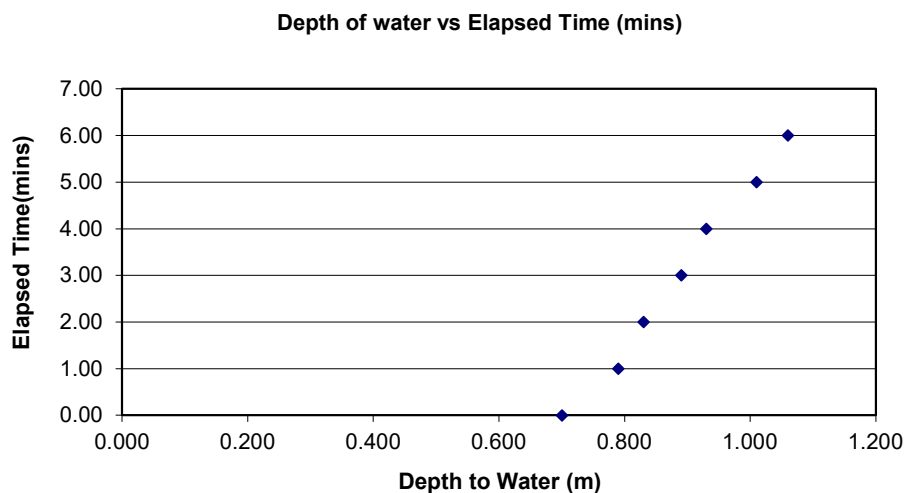
Base area=	1.496	m ²
*Av. side area of permeable stratum over test p	2.8224	m ²
Total Exposed area =	4.3184	m ²

Infiltration rate (f) = Volume of water used/unit exposed area / unit time

f= 0.00596 m/min or 9.93084E-05 m/sec

Depth of water vs Elapsed Time (mins)





Soakaway Design f -value from field tests IGSL

Contract: Mt. Avenue Contract No. 25758
 Test No. IT05
 Engineer Patrick Ryan
 Date: 28/01/2025

Summary of ground conditions

from	to	Description	Ground water
0.00	0.30	Soft brown slightly sandy slightly gravelly clay. Gravels are sub angular to	DRY
0.30	2.00	Stiff brown slightly sandy gravelly CLAY with medium cobble content sub	

Notes:

Field Data

Depth to Water (m)	Elapsed Time (min)
1.070	0.00
1.070	1.00
1.070	2.00
1.070	3.00
1.070	4.00
1.080	5.00
1.080	6.00
1.080	7.00
1.080	8.00
1.080	9.00
1.080	10.00
1.080	12.00
1.080	14.00
1.080	16.00
1.090	18.00
1.090	20.00
1.090	25.00
1.090	30.00
1.090	40.00
1.100	50.00
1.100	60.00

Field Test

Depth of Pit (D)	2.00	m
Width of Pit (B)	1.00	m
Length of Pit (L)	2.10	m

Initial depth to Water =	1.07	m
Final depth to water =	1.100	m
Elapsed time (mins)=	60.00	

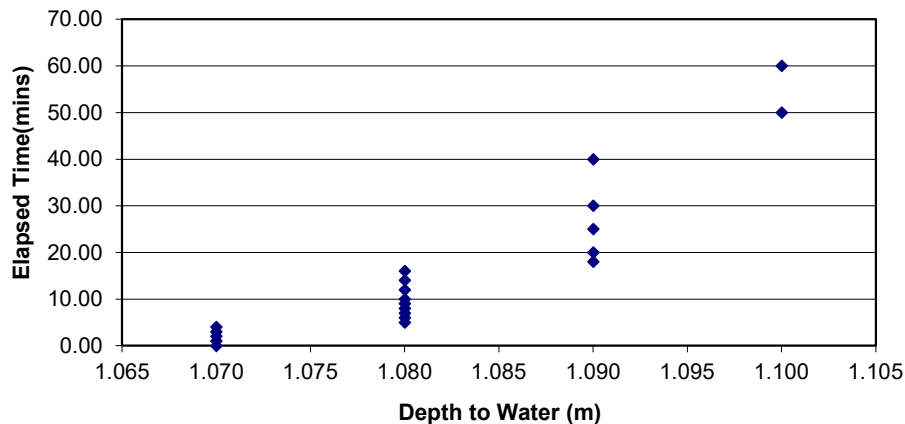
Top of permeable soil		m
Base of permeable soil		m

Base area=	2.1	m ²
*Av. side area of permeable stratum over test p	5.673	m ²
Total Exposed area =	7.773	m ²

Infiltration rate (f) = Volume of water used/unit exposed area / unit time

f= 0.00014 m/min or 2.25138E-06 m/sec

Depth of water vs Elapsed Time (mins)



Soakaway Design f -value from field tests IGSL

Contract: Mt. Avenue
Test No. IT06
Engineer Patrick Ryan
Date: 29/01/2025

Contract No. 25758

Summary of ground conditions

from	to	Description	Ground water
0.00	0.30	Soft grey slightly sandy slightly gravelly CLAY. Gravels are fine to coarse	DRY
0.30	2.00	Firm brown slightly sandy gravelly CLAY with medium cobble content sub	

Notes:

Field Data

Depth to Water (m)	Elapsed Time (min)
1.040	0.00
1.050	1.00
1.050	2.00
1.050	3.00
1.050	4.00
1.060	5.00
1.060	6.00
1.070	7.00
1.070	8.00
1.070	9.00
1.070	10.00
1.070	12.00
1.080	14.00
1.080	16.00
1.080	18.00
1.080	20.00
1.090	25.00
1.100	30.00
1.130	40.00
1.150	50.00
1.170	60.00

Field Test

Depth of Pit (D)	2.00	m
Width of Pit (B)	1.10	m
Length of Pit (L)	1.80	m

Initial depth to Water =	1.04	m
Final depth to water =	1.170	m
Elapsed time (mins)=	60.00	

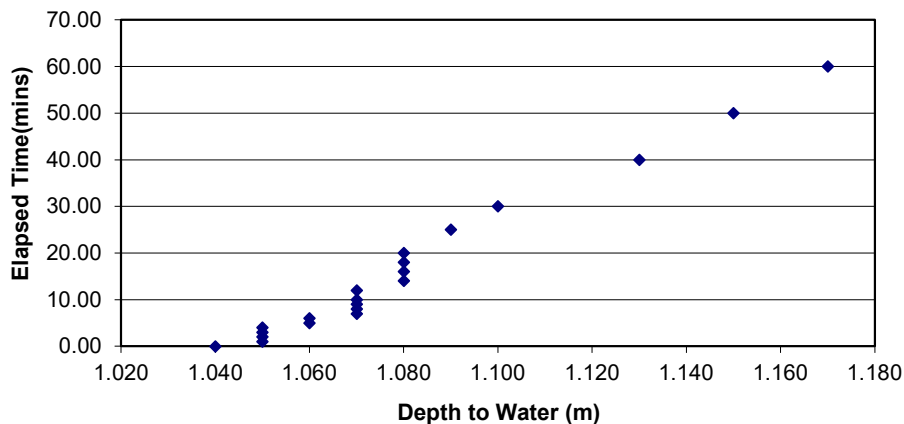
Top of permeable soil		m
Base of permeable soil		m

Base area=	1.98	m ²
*Av. side area of permeable stratum over test p	5.191	m ²
Total Exposed area =	7.171	m ²

Infiltration rate (f) = Volume of water used/unit exposed area / unit time

f= 0.0006 m/min or 9.97072E-06 m/sec

Depth of water vs Elapsed Time (mins)



Soakaway Design f-value from field tests IGSL

Contract: Mt. Avenue Contract No. 25758
 Test No. IT07
 Engineer Patrick Ryan
 Date: 29/01/2025

Summary of ground conditions

from	to	Description	Ground water
0.00	0.30	Soft brown slightly sandy gravelly CLAY. Gravels are fine to coarse and s	DRY
0.30	0.80	Stiff grey sandy gravelly CLAY with medium cobble content angular to su	
0.80	1.78	Medium dense grey slightly clayey sandy GRAVEL with medium cobble c	
1.78	1.78	Weathered Greywacke rockhead recovered as high cobble content angul	

Notes:

Field Data

Depth to Water (m)	Elapsed Time (min)
1.000	0.00
1.000	1.00
1.000	2.00
1.000	3.00
1.000	4.00
1.010	5.00
1.010	6.00
1.010	7.00
1.020	8.00
1.030	9.00
1.030	10.00
1.030	12.00
1.030	14.00
1.030	16.00
1.040	18.00
1.040	20.00
1.050	25.00
1.060	30.00
1.080	40.00
1.090	50.00
1.110	60.00

Field Test

Depth of Pit (D)	1.78	m
Width of Pit (B)	1.00	m
Length of Pit (L)	2.00	m

Initial depth to Water =	1.00	m
Final depth to water =	1.110	m
Elapsed time (mins)=	60.00	

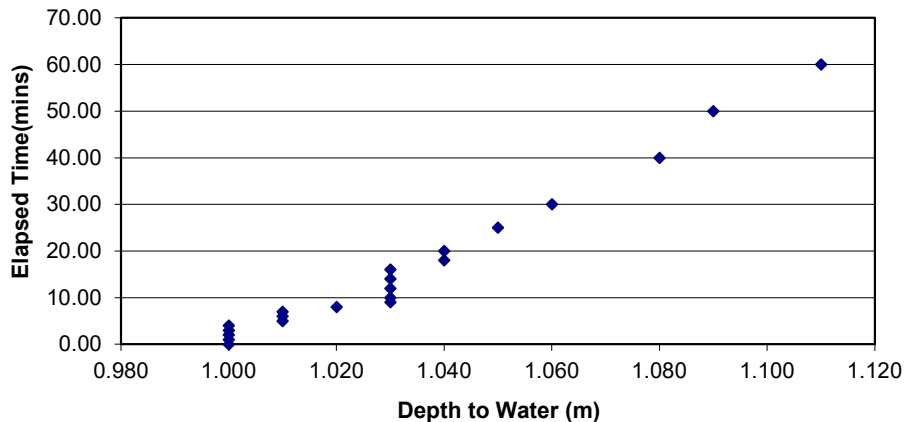
Top of permeable soil		m
Base of permeable soil		m

Base area=	2	m ²
*Av. side area of permeable stratum over test p	4.35	m ²
Total Exposed area =	6.35	m ²

Infiltration rate (f) = Volume of water used/unit exposed area / unit time

f= 0.00058 m/min or 9.6238E-06 m/sec

Depth of water vs Elapsed Time (mins)



Soakaway Design f -value from field tests IGSL

Contract: Mt. Avenue
Test No. IT08
Engineer Patrick Ryan
Date: 29/01/2025

Contract No. 25758

Summary of ground conditions

from	to	Description	Ground water
0.00	0.30	Soft grey slightly sandy gravelly CLAY. Gravels are fine to coarse and su	DRY
0.30	1.40	Soft grey slightly sandy gravelly CLAY with medium cobble content angul	
1.40	1.60	Medium dense sandy clayey GRAVEL with medium cobble content angul	
1.60	1.67	Weathered Greywacke rockhead recovered as high cobble content angul	

Notes:

Field Data

Depth to Water (m)	Elapsed Time (min)
0.980	0.00
1.000	1.00
1.020	2.00
1.030	3.00
1.050	4.00
1.070	5.00
1.080	
1.100	7.00
1.120	8.00
1.120	9.00
1.130	10.00
1.140	12.00
1.170	14.00
1.190	16.00
1.220	18.00
1.240	20.00
1.330	25.00
1.430	30.00
1.540	40.00
1.670	50.00

Field Test

Depth of Pit (D)	1.67	m
Width of Pit (B)	1.00	m
Length of Pit (L)	2.30	m

Initial depth to Water =	0.98	m
Final depth to water =	1.670	m
Elapsed time (mins)=	50.00	

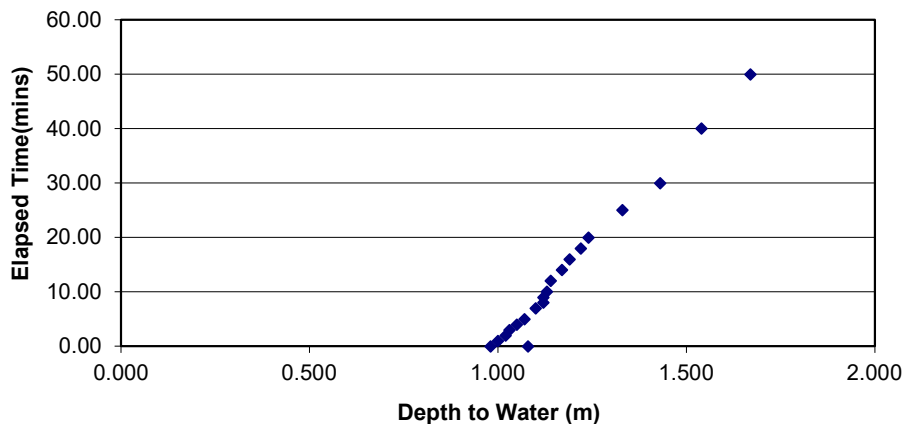
Top of permeable soil		m
Base of permeable soil		m

Base area=	2.3	m ²
*Av. side area of permeable stratum over test p	2.277	m ²
Total Exposed area =	4.577	m ²

Infiltration rate (f) = Volume of water used/unit exposed area / unit time

f= 0.00693 m/min or 0.000115578 m/sec

Depth of water vs Elapsed Time (mins)



Appendix 6

Plate Load Test Results

PLATE TEST REPORT SHEET (F3.1)		Applied Pressure/Settlement Curve	
Reference No.	R164793		Description of soil under test (natural soil, placed fill, sub-base)
Contract	Mt. Avenue Dundalk		Brown slightly sandy gravelly CLAY
Test No.	PBT01 - Load		
Location	See Site Map		
Depth	0.5 BGL		
Client	DBFL Consulting Engineers		
Plate Diameter:	450 mm		
Test Method	BS 1377: Part 9: 1990 Test4 - Incremental Loading Test		
Technician	P.R.	Sample Ref No.	
Authorised by		Depth	_____ m bgl
Date	15/01/2025		

Pressure / Settlement

Pressure (kN/m ²)	Settlement (mm) - Upper Curve	Settlement (mm) - Lower Curve
0	0.00	-1.75
20	-0.75	-2.50
30	-1.25	-2.70
55	-1.75	-2.75
75	-2.35	-2.85
100	-3.00	-3.00

Gradient at 1.25 mm settlement intersection = 25

Modulus of subgrade reaction = 16 MPa/m

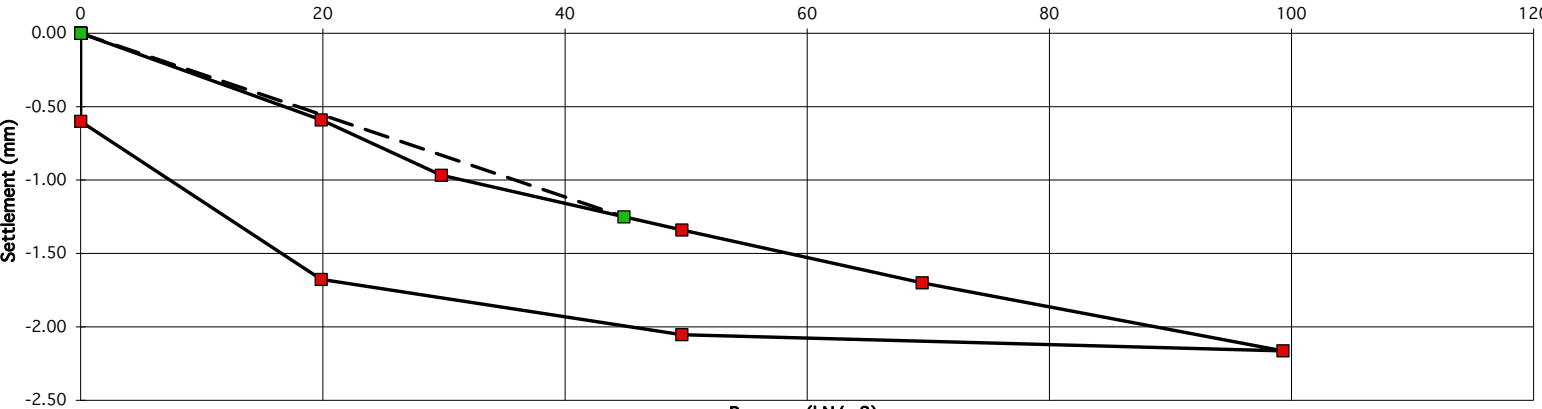
Correction factor applied = 0.64 as per HD 25-26/10

Equivalent CBR value in accordance with NRA HD25-26/10

1.2 %

PLATE TEST REPORT SHEET (F3.1)		Applied Pressure/Settlement Curve	
Reference No.	R164793		Description of soil under test (natural soil, placed fill, sub-base)
Contract	Mt. Avenue Dundalk		Brown slightly sandy gravelly CLAY
Test No.	PBT01 - Reload		
Location	See Site Map		
Depth	0.5 BGL		
Client	DBFL Consulting Engineers		
Plate Diameter:	450 mm		
Test Method	BS 1377: Part 9: 1990 Test4 - Incremental Loading Test		
Technician	P.R.	Sample Ref No.	
Authorised by		Depth	_____ m bgl
Date	15/01/2025		

Pressure / Settlement



Pressure (kN/m ²)	Settlement (mm) - Dashed Line	Settlement (mm) - Solid Line 1	Settlement (mm) - Solid Line 2
0	0.00	-0.60	-0.60
20	-0.55	-0.55	-1.70
30	-0.95	-0.95	-2.05
45	-1.25	-1.25	-2.10
55	-1.35	-1.35	-2.10
75	-1.70	-1.70	-2.10
110	-2.15	-2.15	-2.15

Gradient at 1.25 mm settlement intersection = 36

Modulus of subgrade reaction = 23 MPa/m

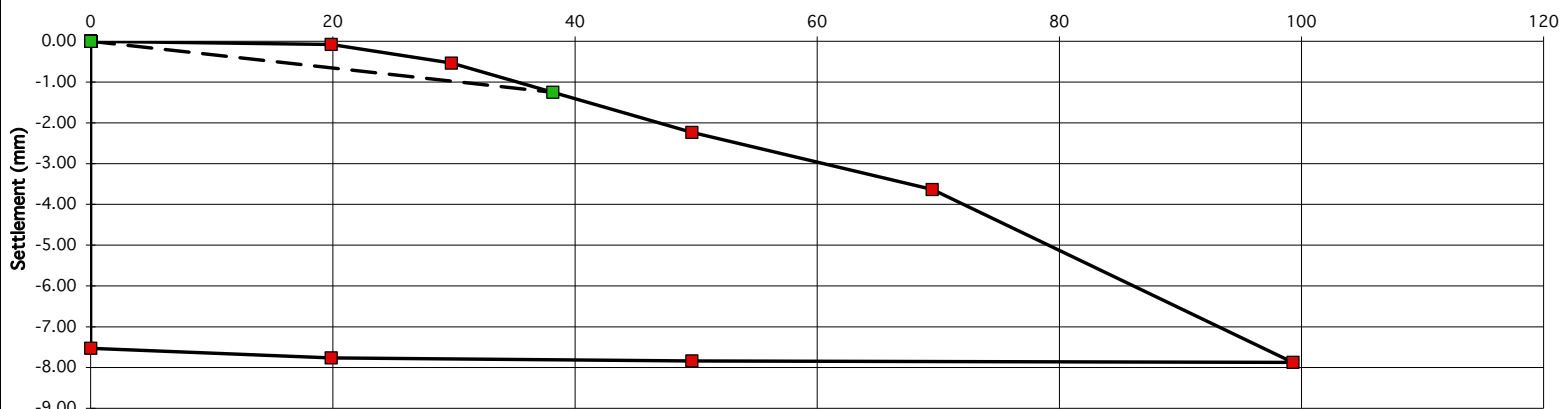
Correction factor applied = 0.64 as per HD 25-26/10

Equivalent CBR value in accordance with NRA HD25-26/10

2.2 %

PLATE TEST REPORT SHEET (F3.1)		Applied Pressure/Settlement Curve	
Reference No.	R164794		Description of soil under test (natural soil, placed fill, sub-base) brown slightly sandy gravelly CLAY
Contract	Mt. Avenue Dundalk		 
Test No.	PBT02- Load		
Location	See Site Map		
Depth	0.7 BGL		
Client	DBFL Consulting Engineers		
Plate Diameter:	450 mm		
Test Method	BS 1377: Part 9: 1990 Test4 - Incremental Loading Test		
Technician	P.R.	Sample Ref No.	
Authorised by		Depth	_____ m bgl
Date	16/01/2025		

Pressure / Settlement



Pressure (kN/m ²)	Settlement (mm) - Upper Curve	Settlement (mm) - Lower Curve
0	0.00	-7.50
20	-0.50	-7.80
30	-1.00	-7.85
40	-1.50	-7.90
50	-2.50	-7.95
70	-3.50	-8.00
100	-8.00	-8.00

Gradient at 1.25 mm settlement intersection = 31	Equivalent CBR value in accordance with NRA HD25-26/10	1.7 %
Modulus of subgrade reaction = 20 MPa/m		
Correction factor applied = 0.64 as per HD 25-26/10		

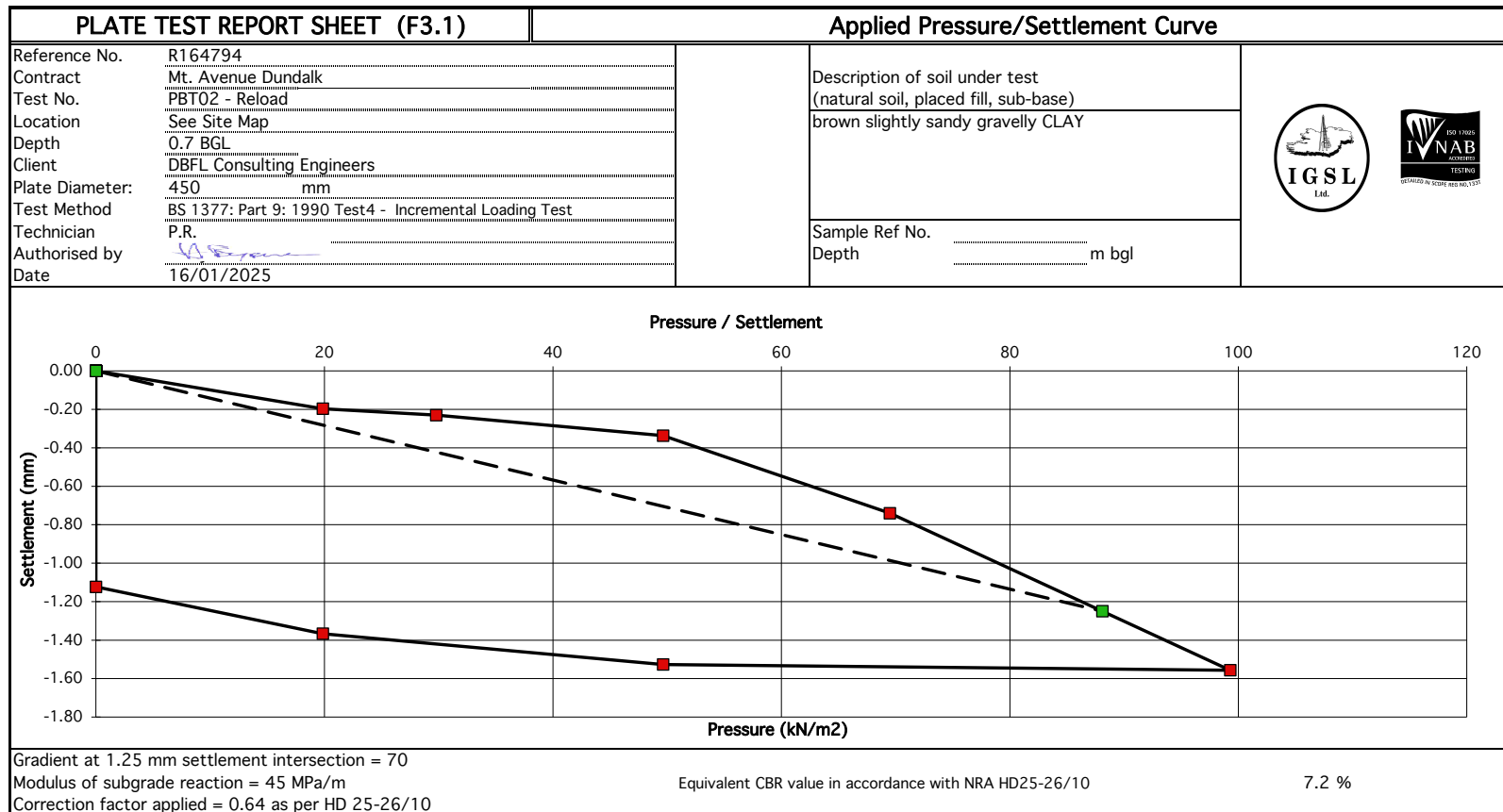


PLATE TEST REPORT SHEET (F3.1)		Applied Pressure/Settlement Curve	
Reference No.	R164795		Description of soil under test (natural soil, placed fill, sub-base)
Contract	Mt. Avenue Dundalk		Soft brown slightly sandy gravelly CLAY with medium cobble content sub angular to sub rounded. Gravels are fine to coarse.
Test No.	PBT03- Load		
Location	See Site Map		
Depth	0.7 BGL		
Client	DBFL Consulting Engineers		
Plate Diameter:	450 mm		
Test Method	BS 1377: Part 9: 1990 Test4 - Incremental Loading Test		
Technician	P.R.		
Authorised by			
Date	16/01/2025		
		Sample Ref No. _____	Depth _____ m bgl

Pressure / Settlement

Pressure (kN/m ²)	Settlement (mm) - Solid Line	Settlement (mm) - Dashed Line
0	0.00	0.00
15	-0.5	-0.5
25	-1.0	-1.0
32	-1.2	-1.2
45	-2.2	-
60	-4.0	-
85	-8.0	-

Gradient at 1.25 mm settlement intersection = 25

Modulus of subgrade reaction = 16 MPa/m

Correction factor applied = 0.64 as per HD 25-26/10

Equivalent CBR value in accordance with NRA HD25-26/10

1.2 %

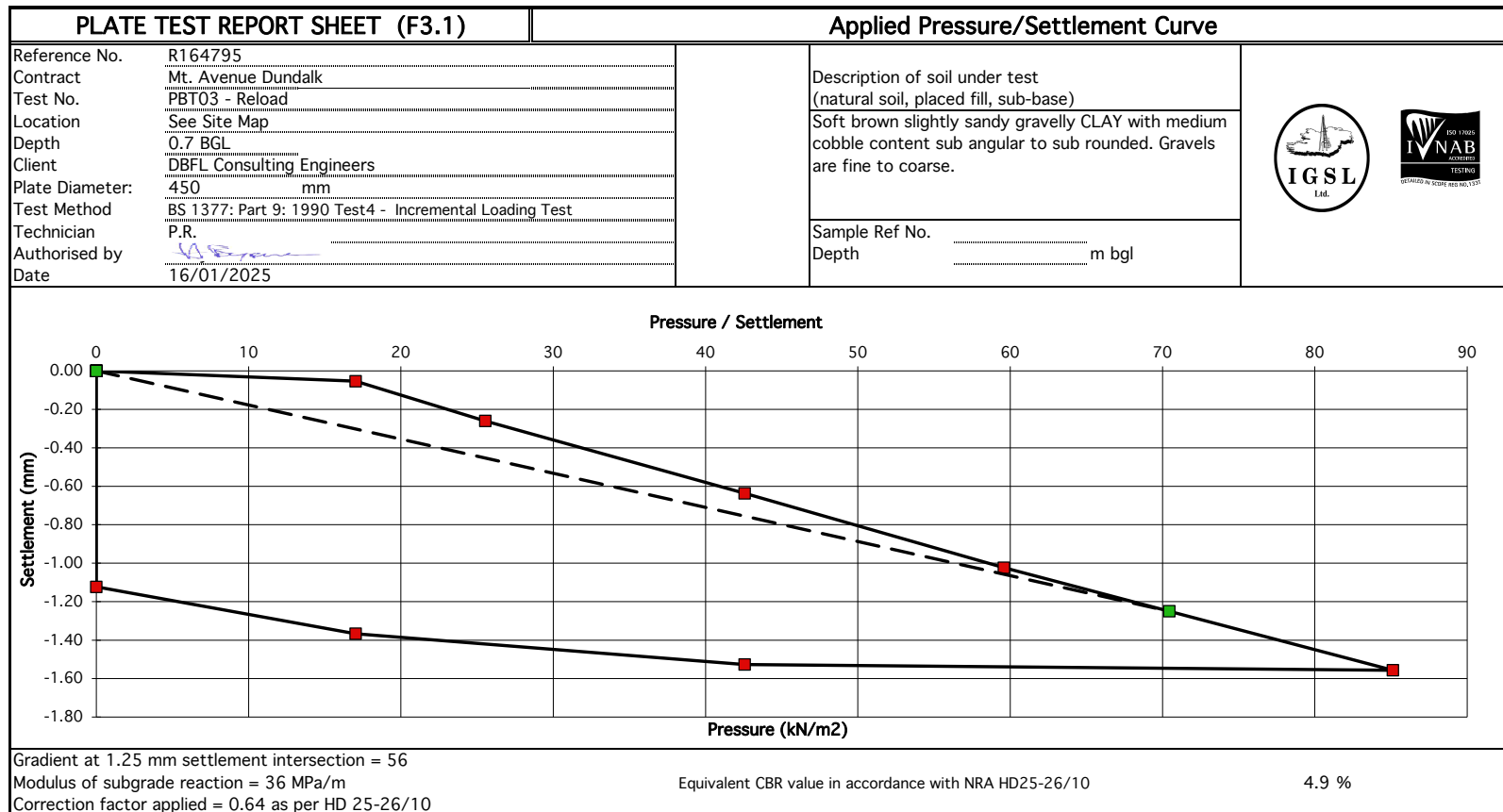
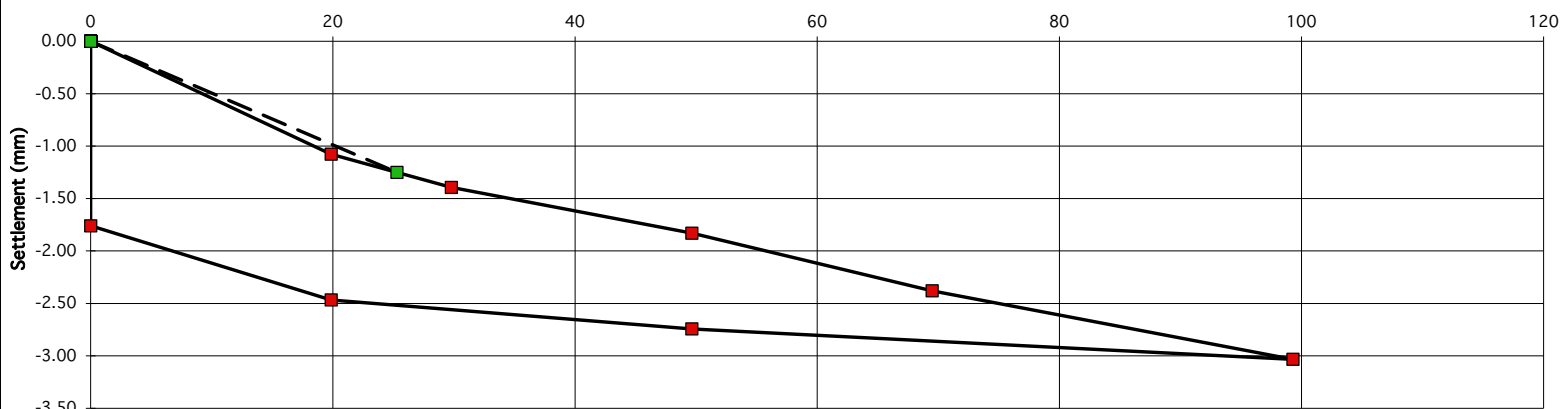


PLATE TEST REPORT SHEET (F3.1)		Applied Pressure/Settlement Curve	
Reference No.	R164796		Description of soil under test (natural soil, placed fill, sub-base)
Contract	Mt. Avenue Dundalk		Soft Brown slightly sandy slightly gravelly CLAY. Gravels are fine to coarse.
Test No.	PBT04 - Load		
Location	See Site Map		
Depth	0.5 BGL		
Client	DBFL Consulting Engineers		
Plate Diameter:	450 mm		
Test Method	BS 1377: Part 9: 1990 Test4 - Incremental Loading Test		
Technician	P.R.		
Authorised by			
Date	16/01/2025		
		Sample Ref No.	
		Depth	_____ m bgl




Pressure / Settlement



Pressure (kN/m ²)	Settlement (mm) - Upper Curve	Settlement (mm) - Lower Curve
0	0.00	-1.80
20	-1.10	-2.50
30	-1.30	-2.60
40	-1.40	-2.70
50	-1.80	-2.75
70	-2.40	-2.90
100	-3.00	-3.00

Gradient at 1.25 mm settlement intersection = 20

Modulus of subgrade reaction = 13 MPa/m

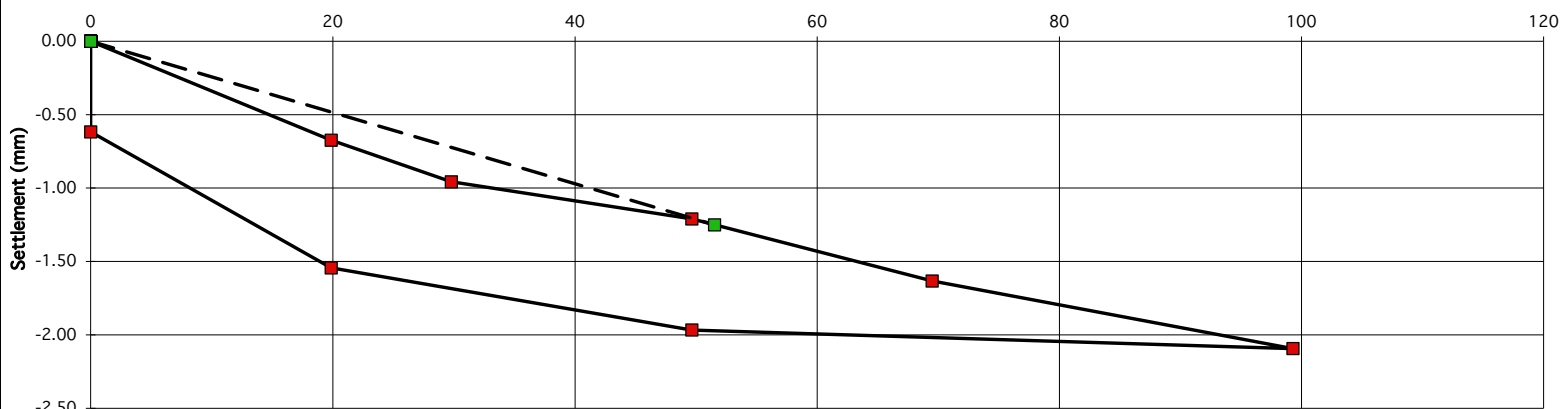
Correction factor applied = 0.64 as per HD 25-26/10

Equivalent CBR value in accordance with NRA HD25-26/10

0.8 %

PLATE TEST REPORT SHEET (F3.1)		Applied Pressure/Settlement Curve	
Reference No.	R164796		Description of soil under test (natural soil, placed fill, sub-base)
Contract	Mt. Avenue Dundalk		Brown slightly sandy gravelly CLAY
Test No.	PBT04 - Reload		
Location	See Site Map		 
Depth	0.5 BGL		
Client	DBFL Consulting Engineers		
Plate Diameter:	450 mm		
Test Method	BS 1377: Part 9: 1990 Test4 - Incremental Loading Test		
Technician	P.R.		
Authorised by			Sample Ref No. _____
Date	15/01/2025		Depth _____ m bgl

Pressure / Settlement



Pressure (kN/m ²)	Settlement (mm) - Dashed Line	Settlement (mm) - Solid Line
0	0.00	-0.60
20	-0.60	-1.50
30	-0.90	-0.90
40	-1.10	-1.10
50	-1.20	-1.20
70	-1.60	-1.60
100	-2.10	-2.10

Gradient at 1.25 mm settlement intersection = 41	Equivalent CBR value in accordance with NRA HD25-26/10	2.8 %
Modulus of subgrade reaction = 26 MPa/m Correction factor applied = 0.64 as per HD 25-26/10		

PLATE TEST REPORT SHEET (F3.1)		Applied Pressure/Settlement Curve	
Reference No.	R164797		Description of soil under test (natural soil, placed fill, sub-base) brown slightly sandy gravelly CLAY.
Contract	Mt. Avenue Dundalk		
Test No.	PBT05- Load		
Location	See Site Map		
Depth	0.5 BGL		
Client	DBFL Consulting Engineers		
Plate Diameter:	450 mm		
Test Method	BS 1377: Part 9: 1990 Test4 - Incremental Loading Test		
Technician	S.H.	Sample Ref No.	
Authorised by		Depth	m bgl
Date	17/01/2025		

Pressure / Settlement

Pressure (kN/m ²)	Settlement (mm) - Upper Curve	Settlement (mm) - Lower Curve
0	0.00	-2.50
20	-0.70	-2.90
40	-1.30	-3.60
60	-2.20	-3.80
80	-2.80	-3.90
100	-3.80	-4.10
110	-4.10	-4.10

Gradient at 1.25 mm settlement intersection = 30
 Modulus of subgrade reaction = 19 MPa/m
 Correction factor applied = 0.64 as per HD 25-26/10

Equivalent CBR value in accordance with NRA HD25-26/10

1.6 %

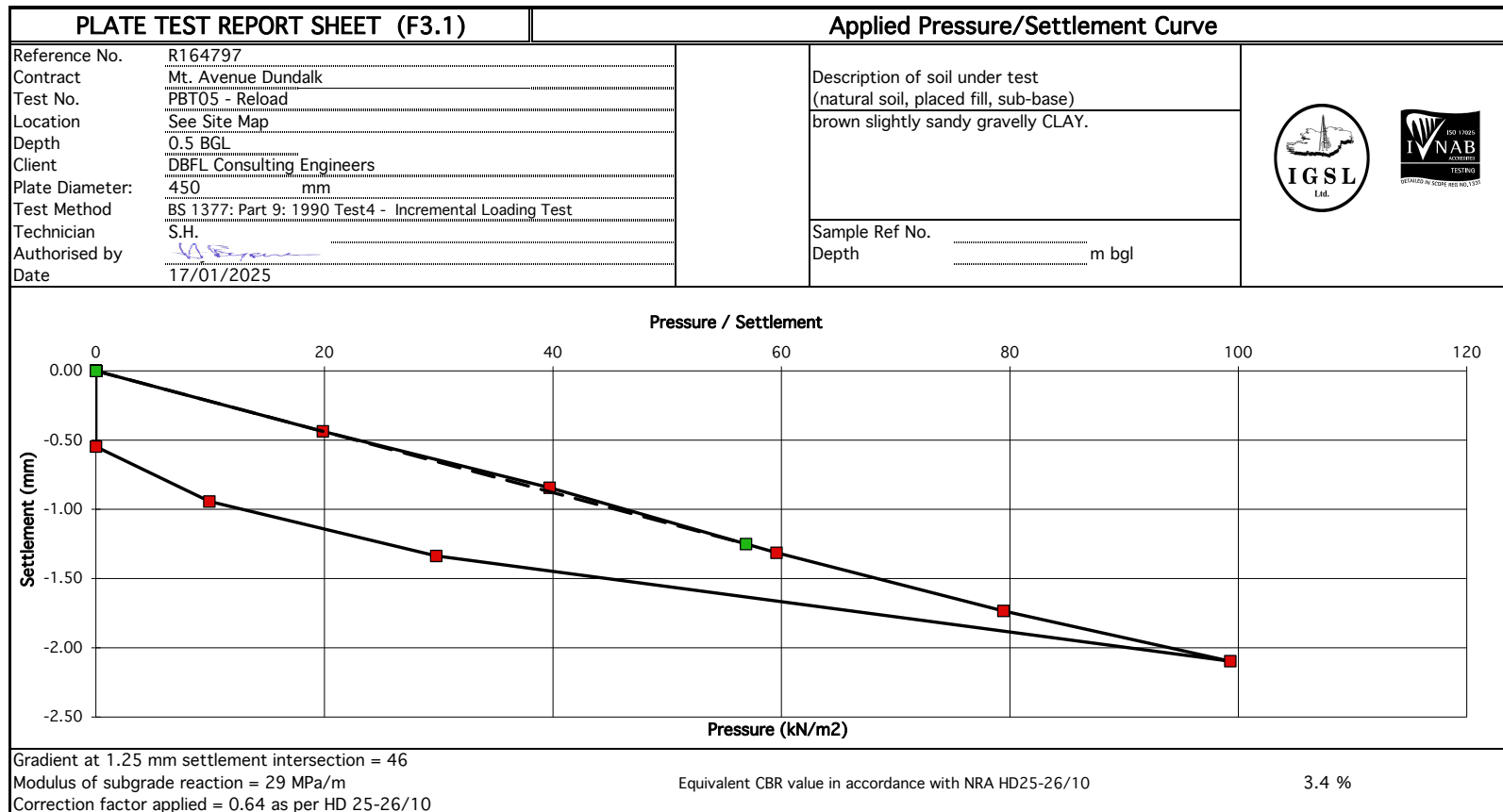


PLATE TEST REPORT SHEET (F3.1)		Applied Pressure/Settlement Curve	
Reference No.	R164798		Description of soil under test (natural soil, placed fill, sub-base) brown slightly sandy gravelly CLAY.
Contract	Mt. Avenue Dundalk		
Test No.	PBT06- Load		
Location	See Site Map		
Depth	0.5 BGL		
Client	DBFL Consulting Engineers		
Plate Diameter:	450 mm		
Test Method	BS 1377: Part 9: 1990 Test4 - Incremental Loading Test		
Technician	P.R.	Sample Ref No.	
Authorised by		Depth	m bgl
Date	15/01/2025		

Pressure / Settlement

Pressure (kN/m ²)	Settlement (mm) - Upper Curve	Settlement (mm) - Lower Curve
0	0.00	-3.50
20	-0.75	-4.50
30	-1.25	-4.70
55	-2.80	-4.80
75	-3.80	-4.80
100	-4.50	-4.80

Gradient at 1.25 mm settlement intersection = 23

Modulus of subgrade reaction = 15 MPa/m

Correction factor applied = 0.64 as per HD 25-26/10

Equivalent CBR value in accordance with NRA HD25-26/10

1.0 %

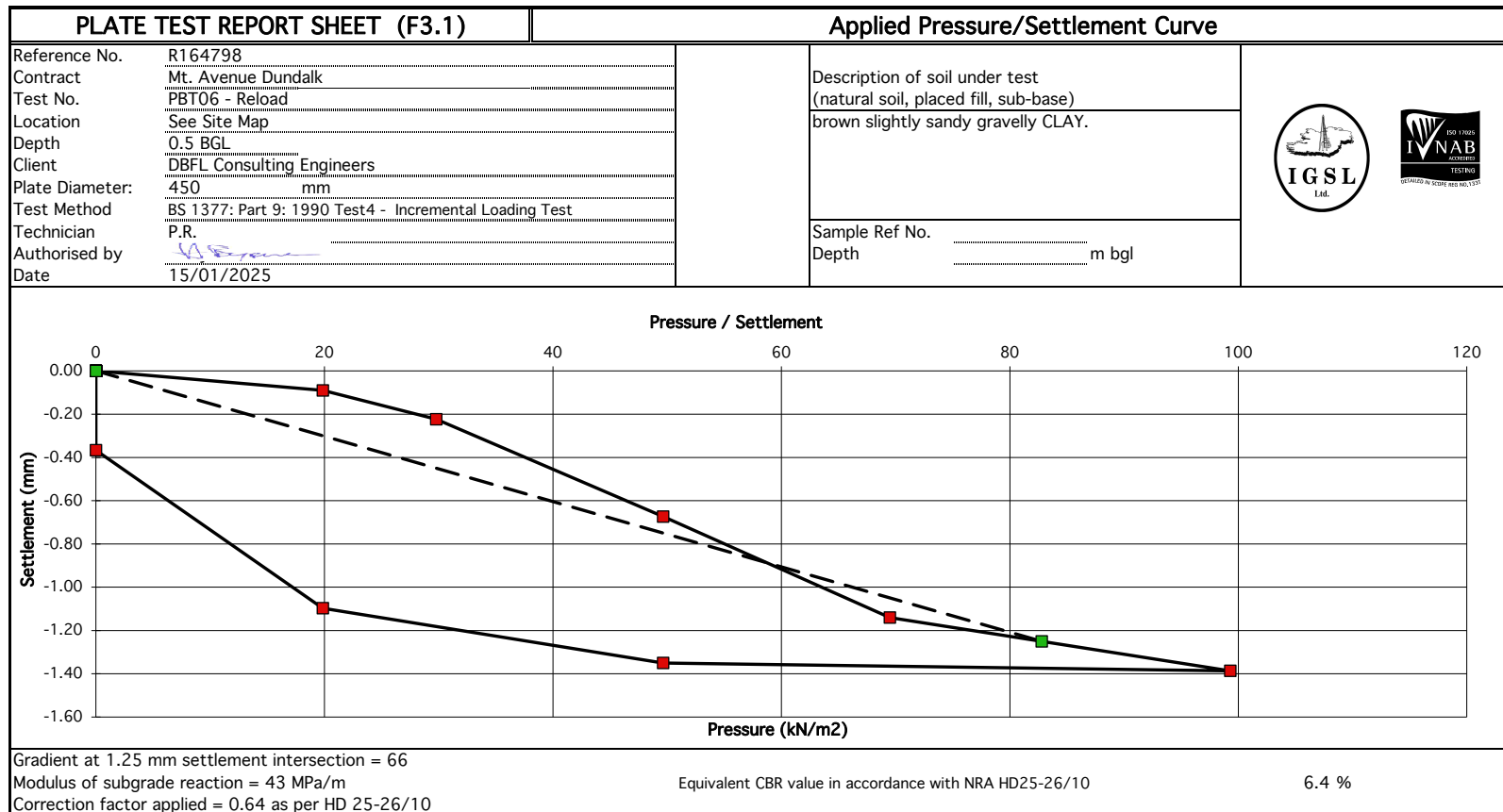
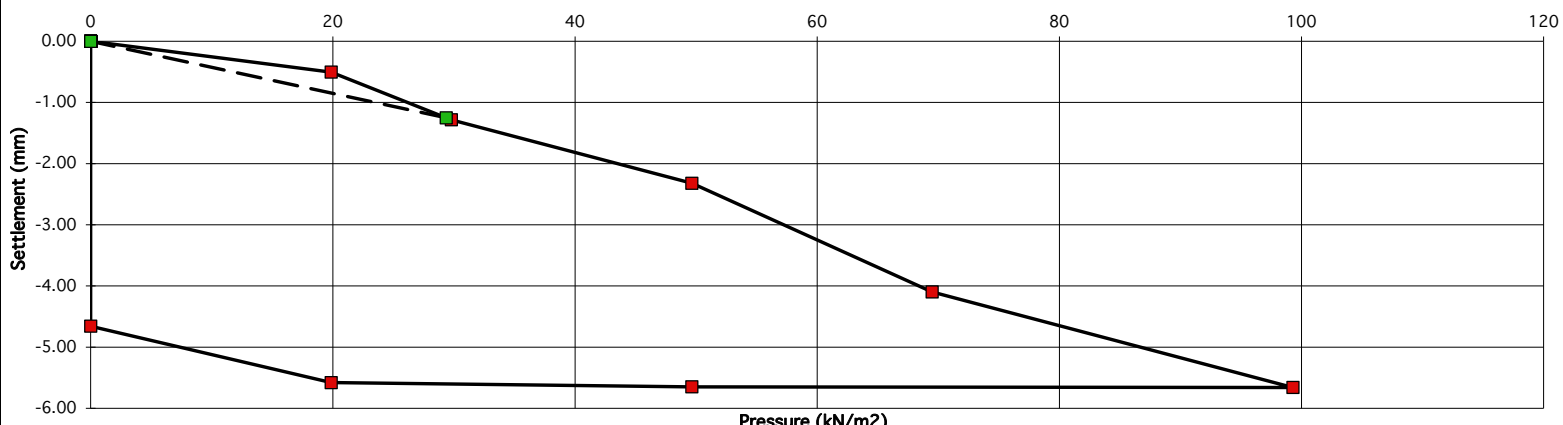


PLATE TEST REPORT SHEET (F3.1)		Applied Pressure/Settlement Curve	
Reference No.	R164799		Description of soil under test (natural soil, placed fill, sub-base) brown slightly sandy gravelly CLAY.
Contract	Mt. Avenue Dundalk		 
Test No.	PBT07- Load		
Location	See Site Map		
Depth	0.5 BGL		
Client	DBFL Consulting Engineers		
Plate Diameter:	450 mm		
Test Method	BS 1377: Part 9: 1990 Test4 - Incremental Loading Test		
Technician	P.R.	Sample Ref No.	
Authorised by		Depth	m bgl
Date	17/01/2024		

Pressure / Settlement

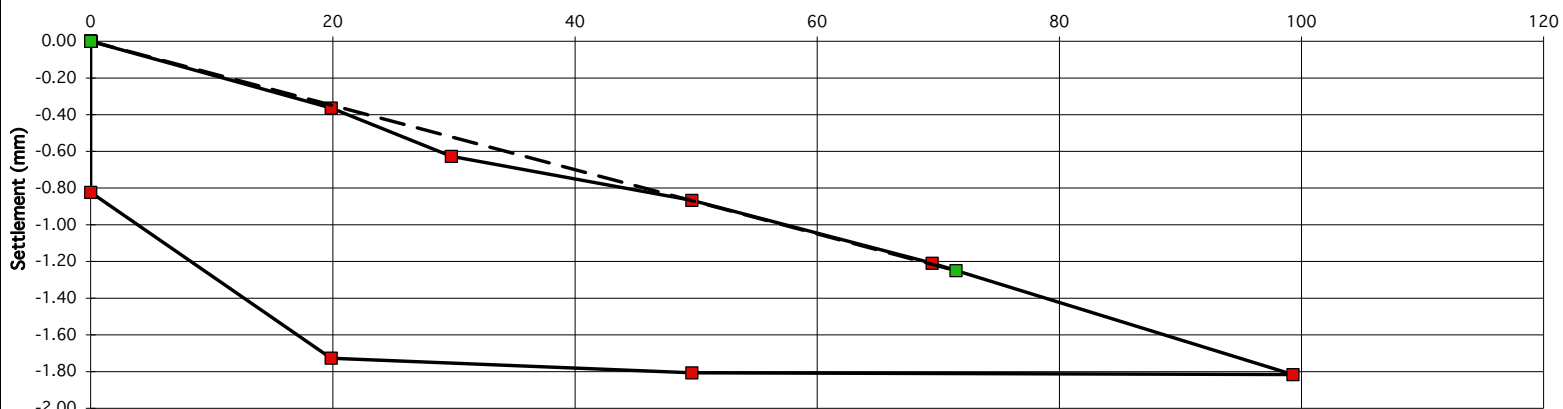


Pressure (kN/m ²)	Settlement (mm) - Series 1 (Red Squares)	Settlement (mm) - Series 2 (Green Squares)
0	0.0	0.0
20	-0.5	-0.8
30	-1.3	-1.3
55	-2.4	-5.7
70	-4.1	-5.7
100	-5.7	-5.7

Gradient at 1.25 mm settlement intersection = 23	Equivalent CBR value in accordance with NRA HD25-26/10	1.1 %
Modulus of subgrade reaction = 15 MPa/m		
Correction factor applied = 0.64 as per HD 25-26/10		

PLATE TEST REPORT SHEET (F3.1)		Applied Pressure/Settlement Curve	
Reference No.	R164799	Description of soil under test (natural soil, placed fill, sub-base)	 
Contract	Mt. Avenue Dundalk	Firm brown slightly sandy gravelly CLAY. Gravel is fine to coarse sub angular to sub rounded.	
Test No.	PBT07 - Reload		
Location	See Site Map		
Depth	0.5 BGL		
Client	DBFL Consulting Engineers		
Plate Diameter:	450 mm	Sample Ref No. _____	
Test Method	BS 1377: Part 9: 1990 Test4 - Incremental Loading Test	Depth _____ m bgl	
Technician	P.R.		
Authorised by			
Date	17/01/2024		

Pressure / Settlement



Pressure (kN/m ²)	Settlement (mm) - Top Curve	Settlement (mm) - Bottom Curve
0	0.00	-0.80
20	-0.35	-1.75
30	-0.65	
50	-0.85	-1.80
70	-1.20	
80	-1.25	
100	-1.80	-1.80

Gradient at 1.25 mm settlement intersection = 57	Equivalent CBR value in accordance with NRA HD25-26/10	5.0 %
Modulus of subgrade reaction = 37 MPa/m		
Correction factor applied = 0.64 as per HD 25-26/10		

PLATE TEST REPORT SHEET (F3.1)		Applied Pressure/Settlement Curve	
Reference No.	R164800		Description of soil under test (natural soil, placed fill, sub-base) brown slightly sandy gravelly CLAY.
Contract	Mt. Avenue Dundalk		
Test No.	PBT08- Load		
Location	See Site Map		
Depth	0.5 BGL		
Client	DBFL Consulting Engineers		
Plate Diameter:	450 mm		
Test Method	BS 1377: Part 9: 1990 Test4 - Incremental Loading Test		
Technician	P.R.	Sample Ref No.	
Authorised by		Depth	m bgl
Date	17/12/2024		

Pressure / Settlement

Pressure (kN/m ²)	Settlement (mm) - Top Curve	Settlement (mm) - Bottom Curve
0	0.00	-5.50
10	-1.20	
20	-1.80	-7.50
30	-3.20	
50	-5.20	-8.20
70	-6.80	
100	-8.50	-8.50

Gradient at 1.25 mm settlement intersection = 11

Modulus of subgrade reaction = 7 MPa/m

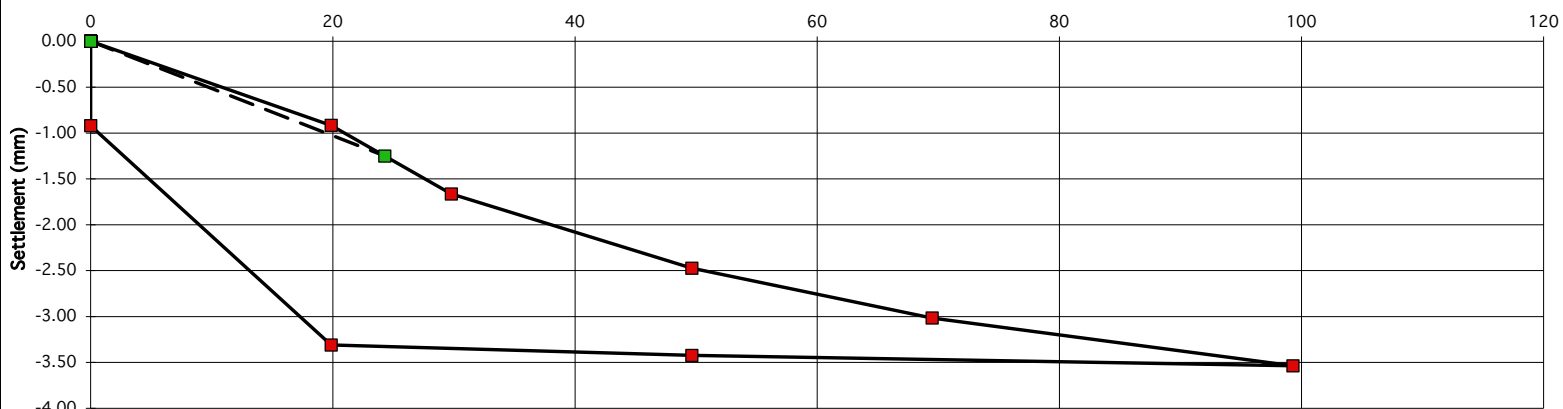
Correction factor applied = 0.64 as per HD 25-26/10

Equivalent CBR value in accordance with NRA HD25-26/10

0.3 %

PLATE TEST REPORT SHEET (F3.1)		Applied Pressure/Settlement Curve	
Reference No.	R164800		Description of soil under test (natural soil, placed fill, sub-base) brown slightly sandy gravelly CLAY.
Contract	Mt. Avenue Dundalk		 
Test No.	PBT08 - Reload		
Location	See Site Map		
Depth	0.5 BGL		
Client	DBFL Consulting Engineers		
Plate Diameter:	450 mm		
Test Method	BS 1377: Part 9: 1990 Test4 - Incremental Loading Test		
Technician	P.R.	Sample Ref No.	
Authorised by		Depth	_____ m bgl
Date	17/12/2024		

Pressure / Settlement

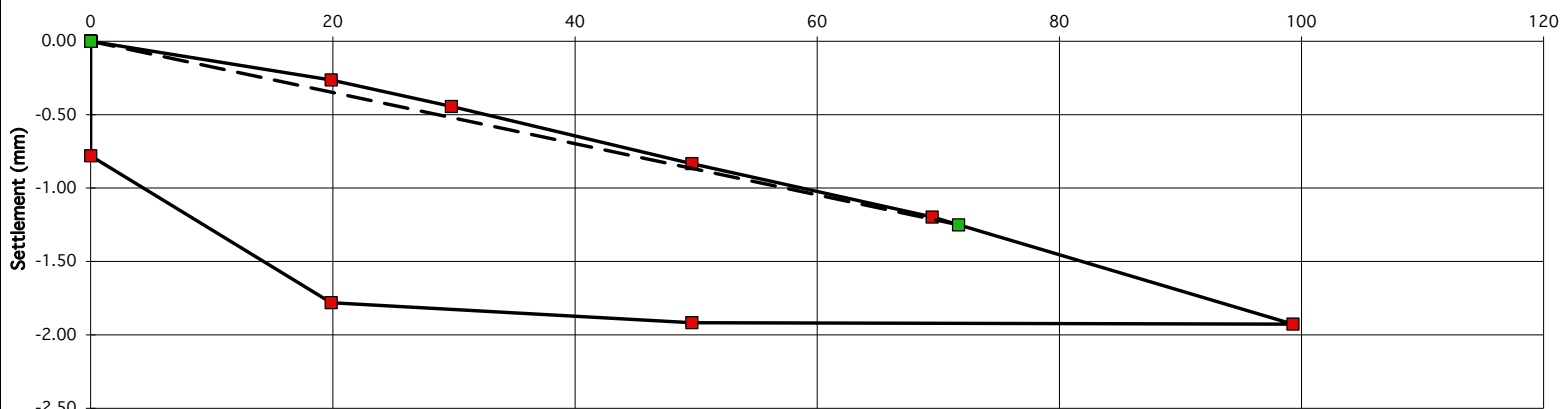


Pressure (kN/m ²)	Settlement (mm) - Solid Line	Settlement (mm) - Dashed Line
0	0.00	0.00
20	-1.00	-1.00
30	-1.70	-1.30
50	-2.50	-2.50
80	-3.00	-
100	-3.50	-

Gradient at 1.25 mm settlement intersection = 19	Equivalent CBR value in accordance with NRA HD25-26/10	0.8 %
Modulus of subgrade reaction = 12 MPa/m		
Correction factor applied = 0.64 as per HD 25-26/10		

PLATE TEST REPORT SHEET (F3.1)		Applied Pressure/Settlement Curve	
Reference No.	R164801		Description of soil under test (natural soil, placed fill, sub-base) brown slightly sandy gravelly CLAY.
Contract	Mt. Avenue Dundalk		 
Test No.	PBT09- Load		
Location	See Site Map		
Depth	0.3 BGL		
Client	DBFL Consulting Engineers		
Plate Diameter:	450 mm		
Test Method	BS 1377: Part 9: 1990 Test4 - Incremental Loading Test		
Technician	P.R.	Sample Ref No.	
Authorised by		Depth	m bgl
Date	18/12/2024		

Pressure / Settlement



Pressure (kN/m2)

Gradient at 1.25 mm settlement intersection = 57	Equivalent CBR value in accordance with NRA HD25-26/10	5.0 %
Modulus of subgrade reaction = 37 MPa/m		
Correction factor applied = 0.64 as per HD 25-26/10		

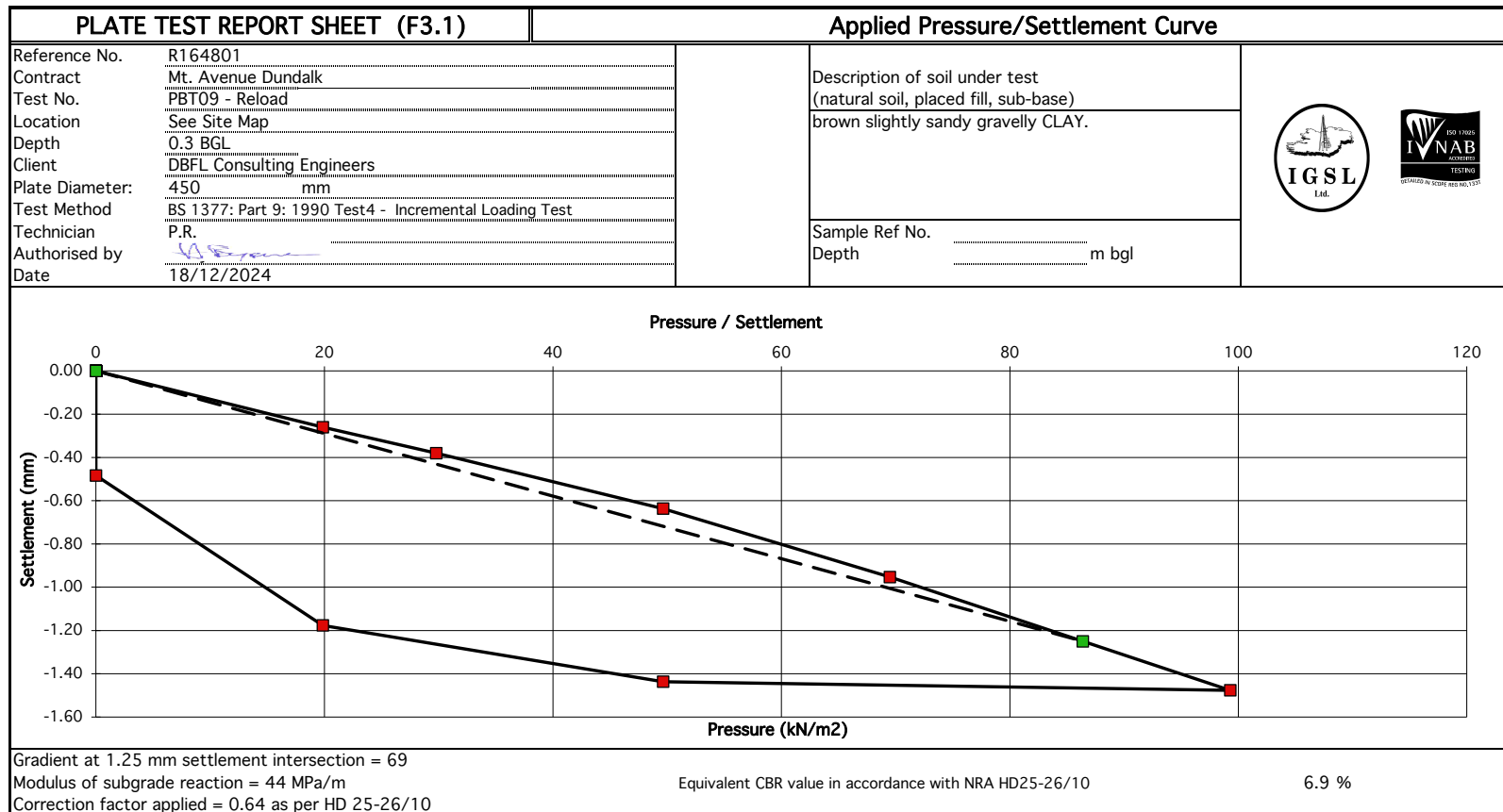
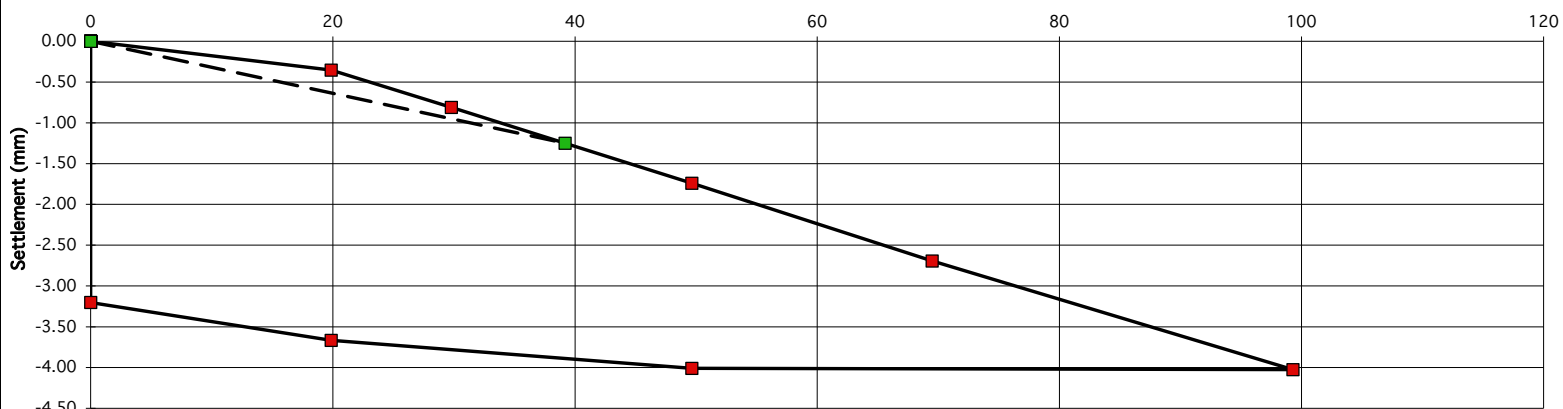


PLATE TEST REPORT SHEET (F3.1)		Applied Pressure/Settlement Curve	
Reference No.	R164802	Description of soil under test (natural soil, placed fill, sub-base)	 
Contract	Mt. Avenue Dundalk	brown slightly sandy gravelly CLAY.	
Test No.	PBT10- Load		
Location	See Site Map		
Depth	0.5 BGL		
Client	DBFL Consulting Engineers	Sample Ref No.	
Plate Diameter:	450 mm	Depth	_____ m bgl
Test Method	BS 1377: Part 9: 1990 Test4 - Incremental Loading Test		
Technician	P.R.		
Authorised by			
Date	17/12/2024		

Pressure / Settlement



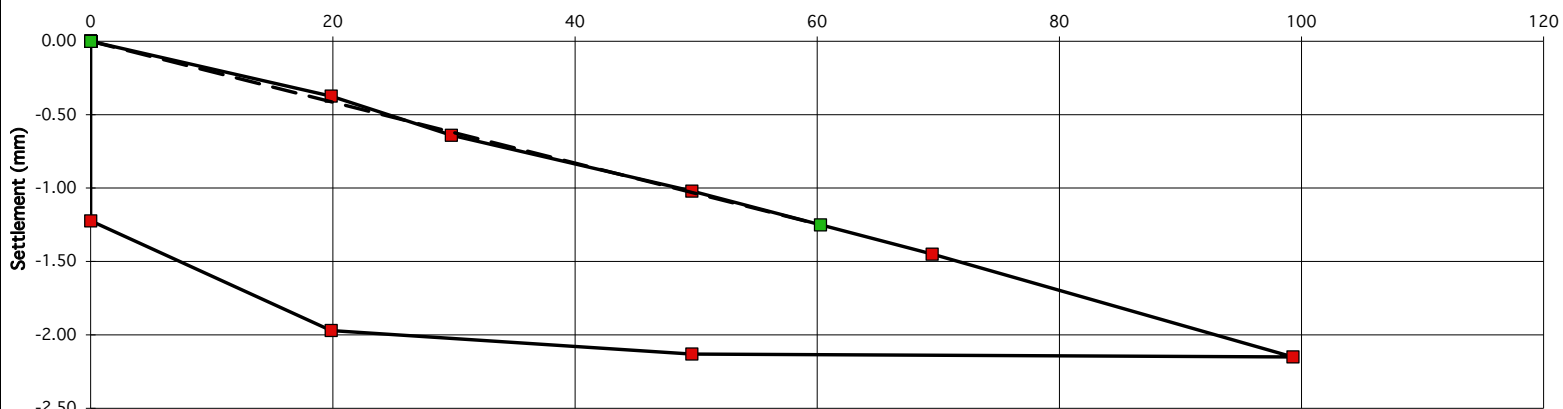
Pressure (kN/m ²)	Settlement (mm) - Series 1	Settlement (mm) - Series 2
0	0.00	-3.25
20	-0.40	-3.65
30	-0.75	-3.85
40	-1.25	-4.00
100	-4.00	-4.00

Gradient at 1.25 mm settlement intersection = 31
 Modulus of subgrade reaction = 20 MPa/m
 Correction factor applied = 0.64 as per HD 25-26/10

Equivalent CBR value in accordance with NRA HD25-26/10 1.8 %

PLATE TEST REPORT SHEET (F3.1)		Applied Pressure/Settlement Curve	
Reference No.	R164802	Description of soil under test (natural soil, placed fill, sub-base)	 
Contract	Mt. Avenue Dundalk	Firm brown slightly sandy gravelly CLAY. Gravel is fine to coarse sub angular to sub rounded.	
Test No.	PBT10 - Reload		
Location	See Site Map		
Depth	0.5 BGL		
Client	DBFL Consulting Engineers		
Plate Diameter:	450 mm	Sample Ref No. _____	
Test Method	BS 1377: Part 9: 1990 Test4 - Incremental Loading Test	Depth _____ m bgl	
Technician	P.R.		
Authorised by			
Date	17/12/2024		

Pressure / Settlement



Pressure (kN/m ²)	Settlement (mm) - Dashed Line (Green Squares)	Settlement (mm) - Solid Line (Red Squares)
0	0.00	-1.25
20	-0.40	-2.00
30	-0.60	-2.05
50	-1.00	-2.15
60	-1.25	-2.15
70	-1.45	-2.15
100	-2.15	-2.15

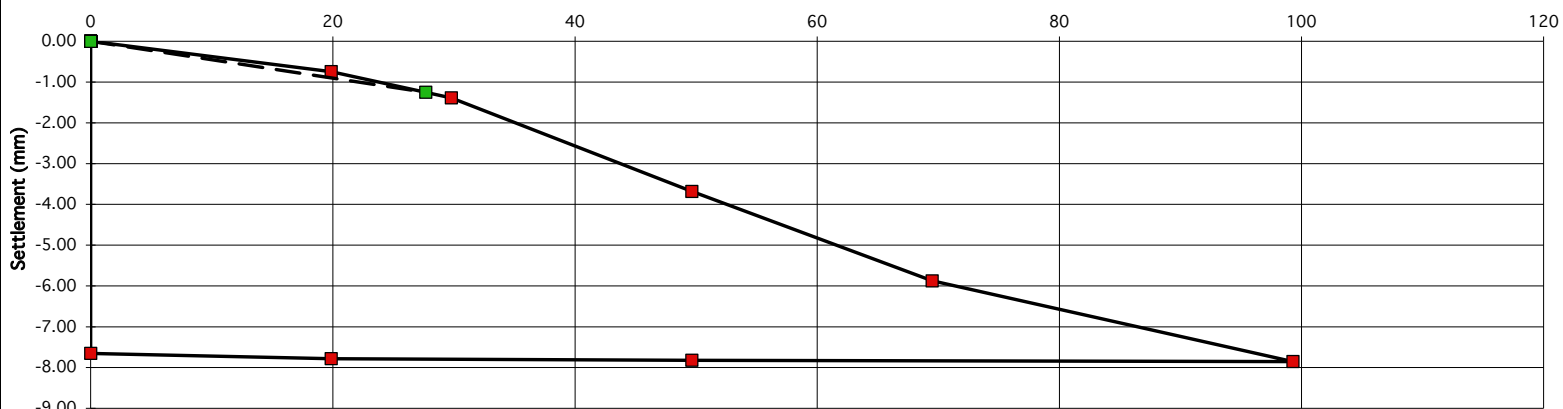
Gradient at 1.25 mm settlement intersection = 48
 Modulus of subgrade reaction = 31 MPa/m
 Correction factor applied = 0.64 as per HD 25-26/10

Equivalent CBR value in accordance with NRA HD25-26/10

3.7 %

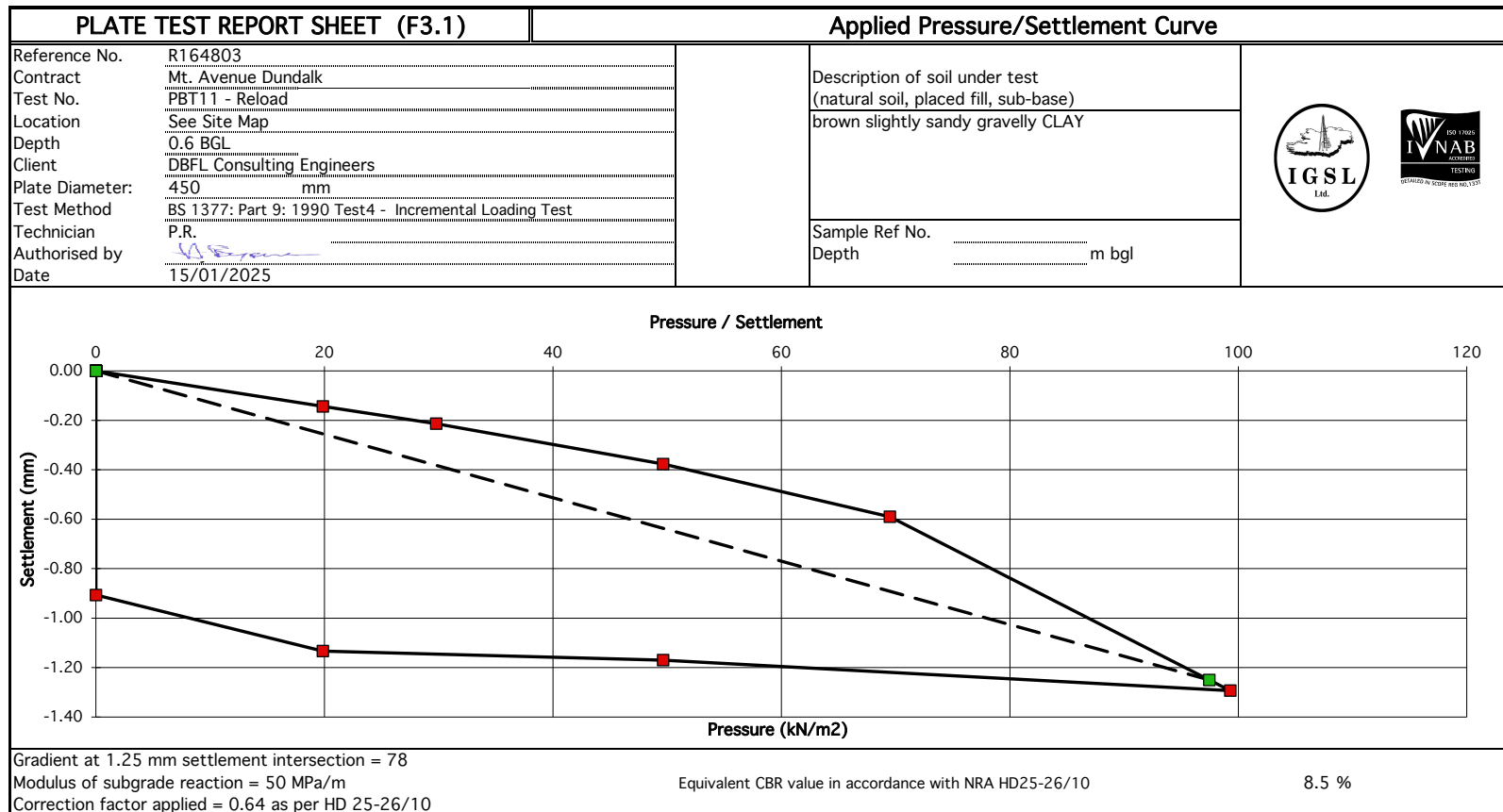
PLATE TEST REPORT SHEET (F3.1)		Applied Pressure/Settlement Curve	
Reference No.	R164803		Description of soil under test (natural soil, placed fill, sub-base) brown slightly sandy gravelly CLAY
Contract	Mt. Avenue Dundalk		 
Test No.	PBT11- Load		
Location	See Site Map		
Depth	0.6 BGL		
Client	DBFL Consulting Engineers		
Plate Diameter:	450 mm		
Test Method	BS 1377: Part 9: 1990 Test4 - Incremental Loading Test		
Technician	P.R.	Sample Ref No.	
Authorised by		Depth	_____ m bgl
Date	15/01/2025		

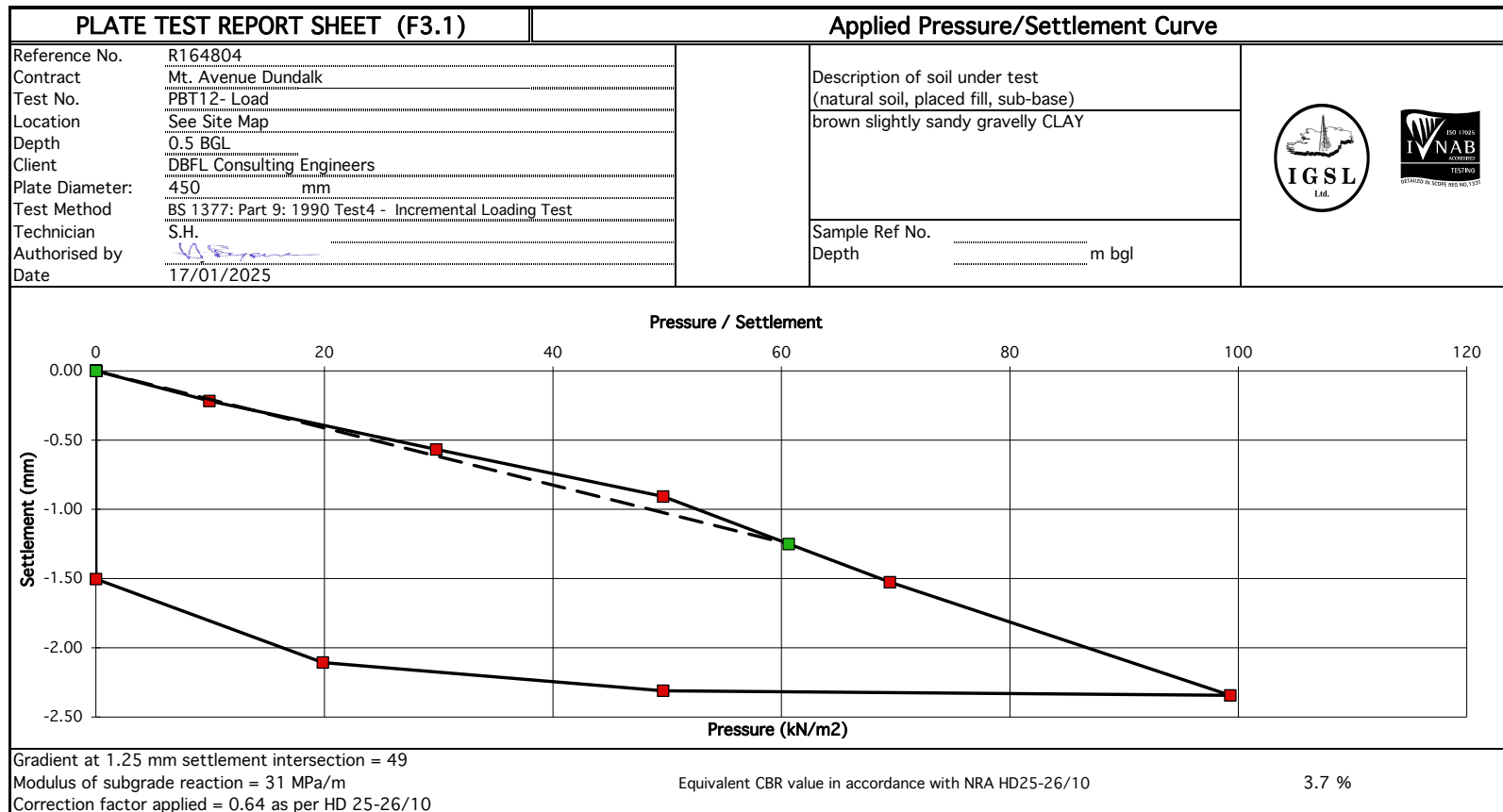
Pressure / Settlement

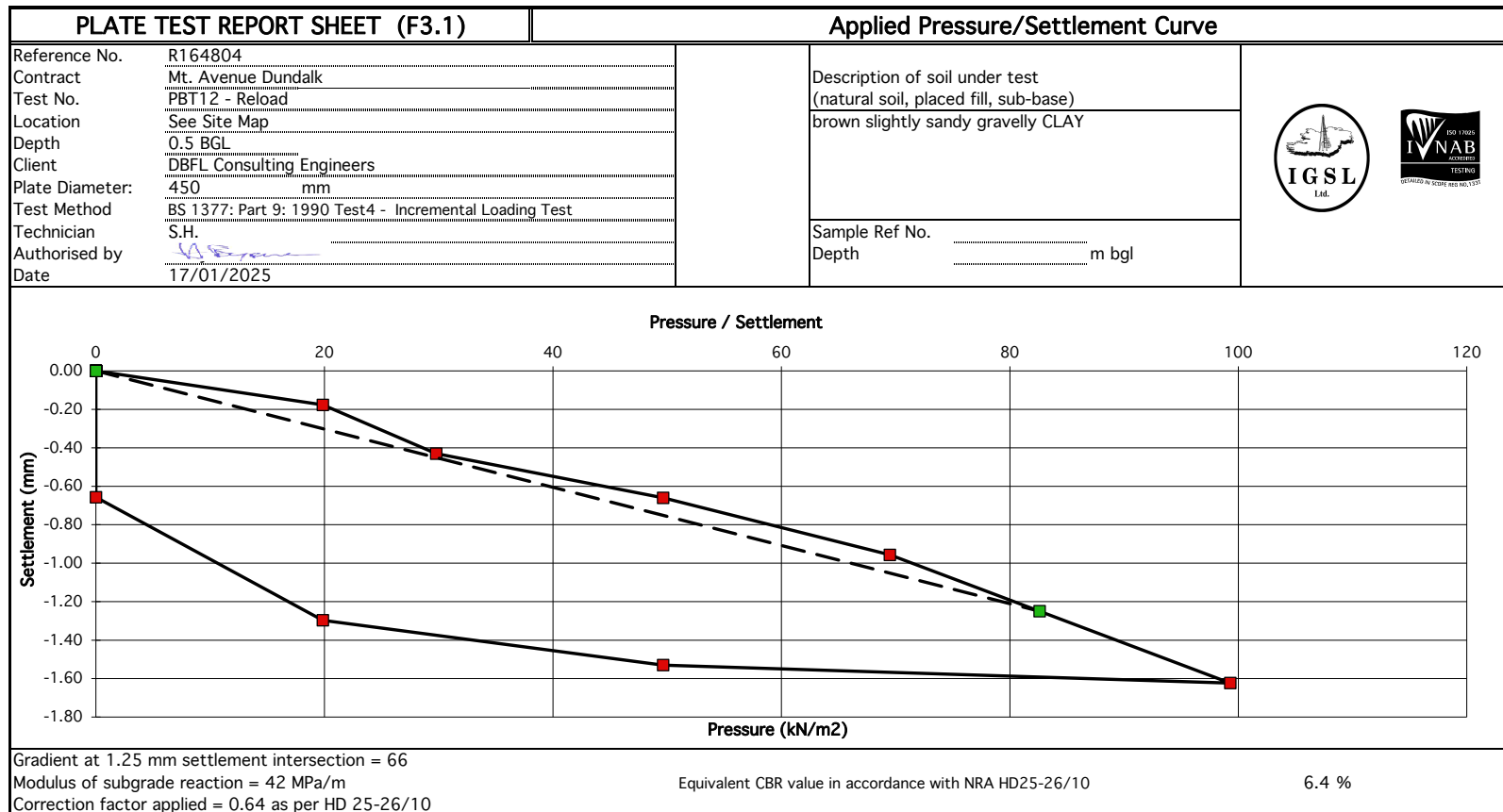


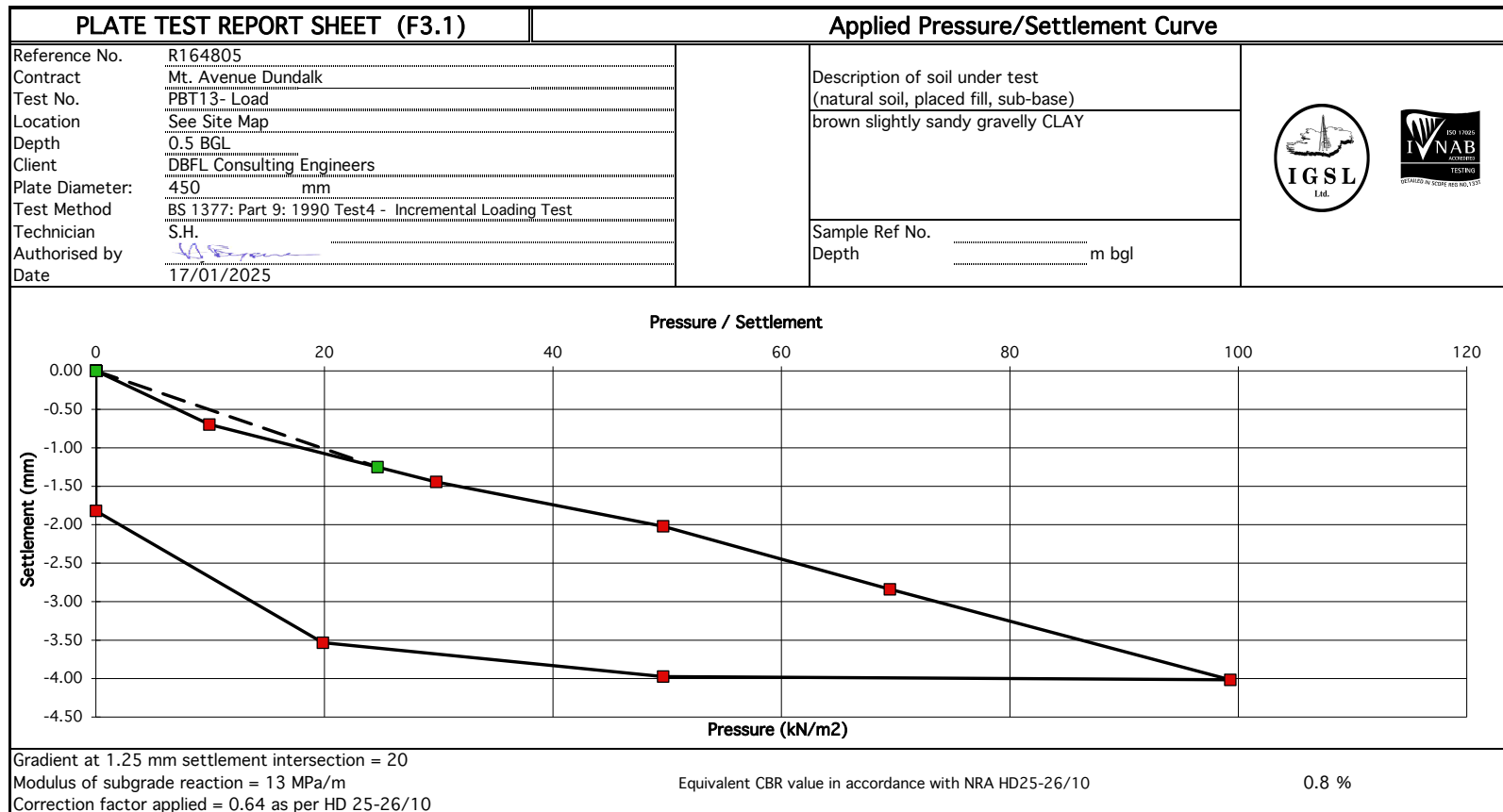
Pressure (kN/m ²)	Settlement (mm)
0	0.00
20	-0.80
30	-1.20
40	-1.50
55	-3.80
75	-6.00
100	-8.00

Gradient at 1.25 mm settlement intersection = 22	Equivalent CBR value in accordance with NRA HD25-26/10	1.0 %
Modulus of subgrade reaction = 14 MPa/m		
Correction factor applied = 0.64 as per HD 25-26/10		









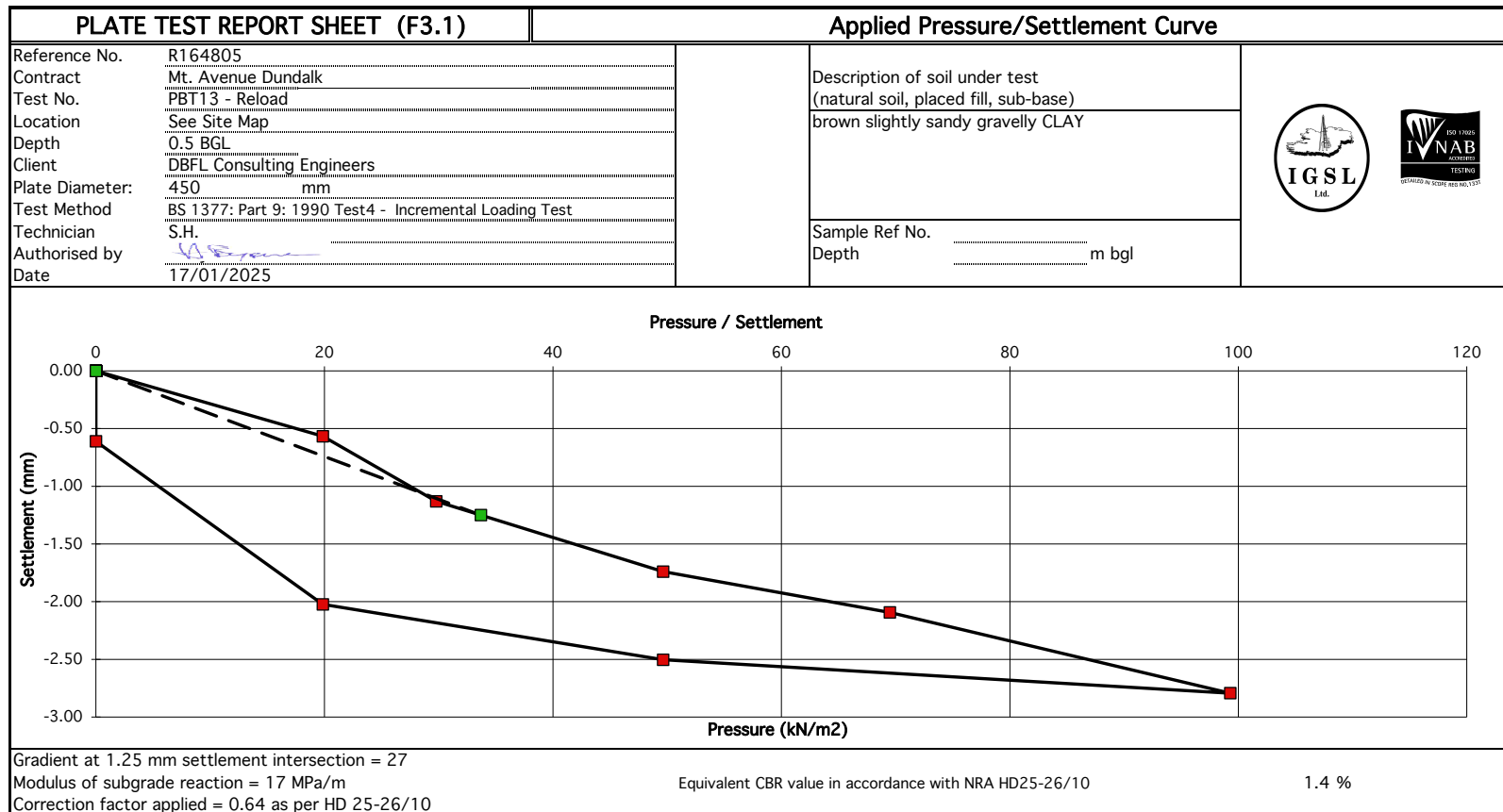
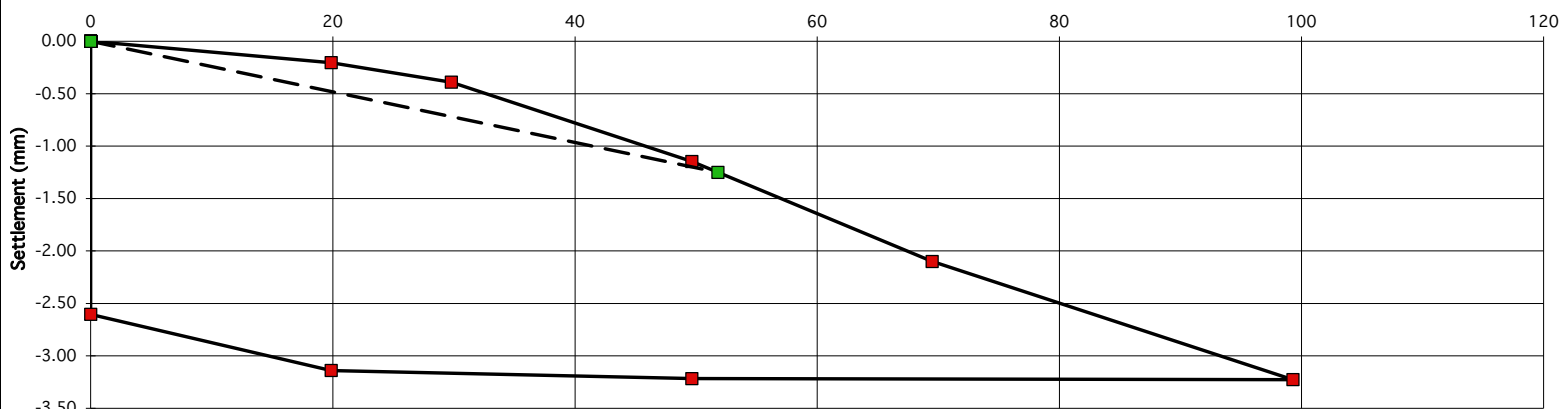


PLATE TEST REPORT SHEET (F3.1)		Applied Pressure/Settlement Curve	
Reference No.	R164806		Description of soil under test (natural soil, placed fill, sub-base) brown slightly sandy very gravelly CLAY.
Contract	Mt. Avenue Dundalk		 
Test No.	PBT14 - Load		
Location	See Site Map		
Depth	0.5 BGL		
Client	DBFL Consulting Engineers		
Plate Diameter:	450 mm		
Test Method	BS 1377: Part 9: 1990 Test4 - Incremental Loading Test		
Technician	S.H.	Sample Ref No.	
Authorised by		Depth	_____ m bgl
Date	17/01/2025		

Pressure / Settlement



Pressure (kN/m²)

Gradient at 1.25 mm settlement intersection = 41	Equivalent CBR value in accordance with NRA HD25-26/10	2.8 %
Modulus of subgrade reaction = 27 MPa/m		
Correction factor applied = 0.64 as per HD 25-26/10		

PLATE TEST REPORT SHEET (F3.1)		Applied Pressure/Settlement Curve	
Reference No.	R164806		Description of soil under test (natural soil, placed fill, sub-base) brown slightly sandy very gravelly CLAY.
Contract	Mt. Avenue Dundalk		
Test No.	PBT14 - Reload		
Location	See Site Map		
Depth	0.5 BGL		
Client	DBFL Consulting Engineers		
Plate Diameter:	450 mm		
Test Method	BS 1377: Part 9: 1990 Test4 - Incremental Loading Test		
Technician	S.H.	Sample Ref No.	
Authorised by		Depth	_____ m bgl
Date	17/01/2025		

Pressure / Settlement

Pressure (kN/m ²)	Settlement (mm) - Solid Line	Settlement (mm) - Dashed Line
0	0.00	0.00
20	-0.15	-0.25
30	-0.35	-0.35
50	-0.55	-0.55
70	-0.75	-0.75
100	-1.25	-1.25

Gradient at 1.25 mm settlement intersection = 77

Modulus of subgrade reaction = 50 MPa/m

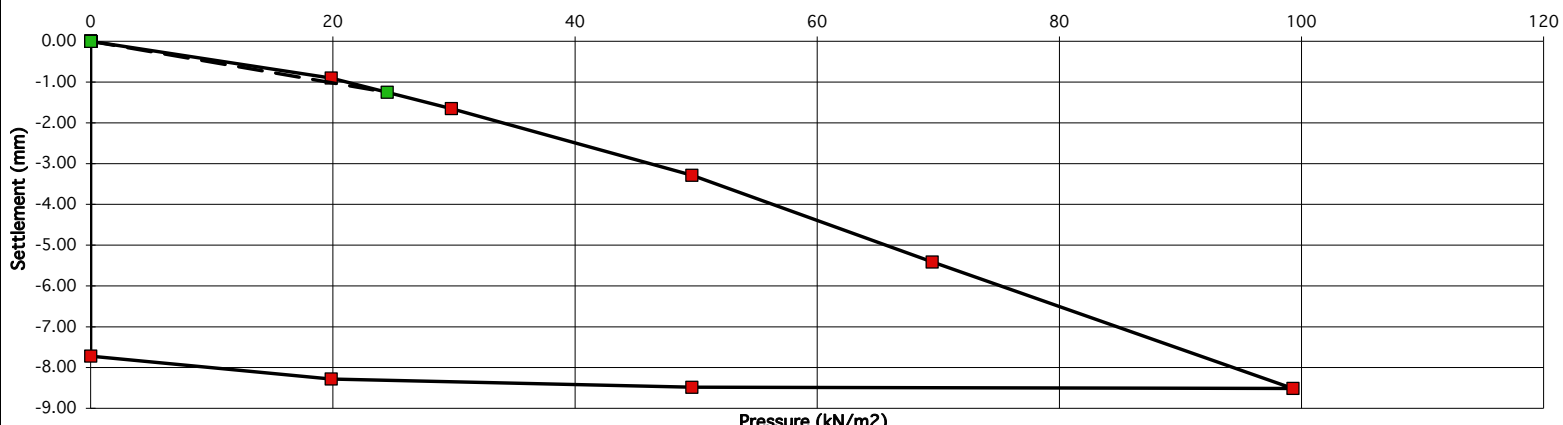
Correction factor applied = 0.64 as per HD 25-26/10

Equivalent CBR value in accordance with NRA HD25-26/10

8.3 %

PLATE TEST REPORT SHEET (F3.1)		Applied Pressure/Settlement Curve	
Reference No.	R164807		Description of soil under test (natural soil, placed fill, sub-base) brown slightly sandy gravelly CLAY
Contract	Mt. Avenue Dundalk		 
Test No.	PBT15- Load		
Location	See Site Map		
Depth	0.5 BGL		
Client	DBFL Consulting Engineers		
Plate Diameter:	450 mm		
Test Method	BS 1377: Part 9: 1990 Test4 - Incremental Loading Test		
Technician	P.R.	Sample Ref No.	
Authorised by		Depth	_____ m bgl
Date	15/01/2025		

Pressure / Settlement

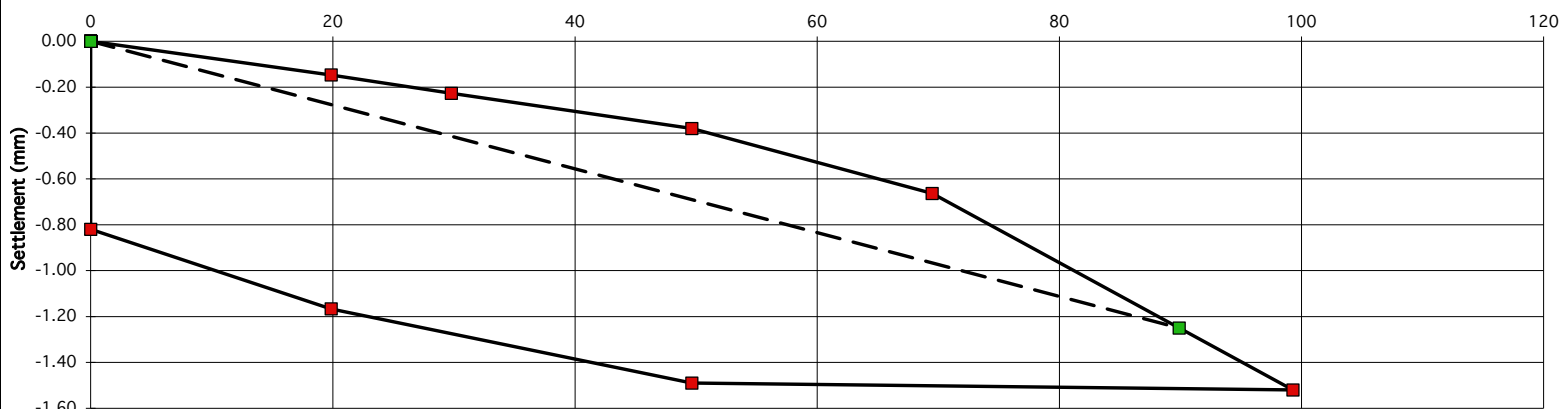


Pressure (kN/m ²)	Settlement (mm) - Upper Curve	Settlement (mm) - Lower Curve
0	0.00	-7.50
20	-1.00	-8.20
25	-1.20	
30	-1.50	
45	-3.50	-8.50
65	-5.50	
100	-8.50	-8.50

Gradient at 1.25 mm settlement intersection = 20	Equivalent CBR value in accordance with NRA HD25-26/10	0.8 %
Modulus of subgrade reaction = 13 MPa/m		
Correction factor applied = 0.64 as per HD 25-26/10		

PLATE TEST REPORT SHEET (F3.1)		Applied Pressure/Settlement Curve	
Reference No.	R164807		Description of soil under test (natural soil, placed fill, sub-base) brown slightly sandy gravelly CLAY
Contract	Mt. Avenue Dundalk	 	
Test No.	PBT15 - Reload		
Location	See Site Map	Sample Ref No. _____ m bgl	
Depth	0.5 BGL	Depth _____ m bgl	
Client	DBFL Consulting Engineers		
Plate Diameter:	450 mm		
Test Method	BS 1377: Part 9: 1990 Test4 - Incremental Loading Test		
Technician	P.R.		
Authorised by			
Date	15/01/2025		

Pressure / Settlement



Pressure (kN/m ²)	Settlement (mm) - Solid Line	Settlement (mm) - Dashed Line
0	0.00	0.00
20	-0.15	-0.25
40	-0.35	-0.55
60	-0.65	-0.85
80	-1.00	-1.15
100	-1.50	-1.25
110	-1.55	-

Gradient at 1.25 mm settlement intersection = 72	Equivalent CBR value in accordance with NRA HD25-26/10	7.4 %
Modulus of subgrade reaction = 46 MPa/m		
Correction factor applied = 0.64 as per HD 25-26/10		

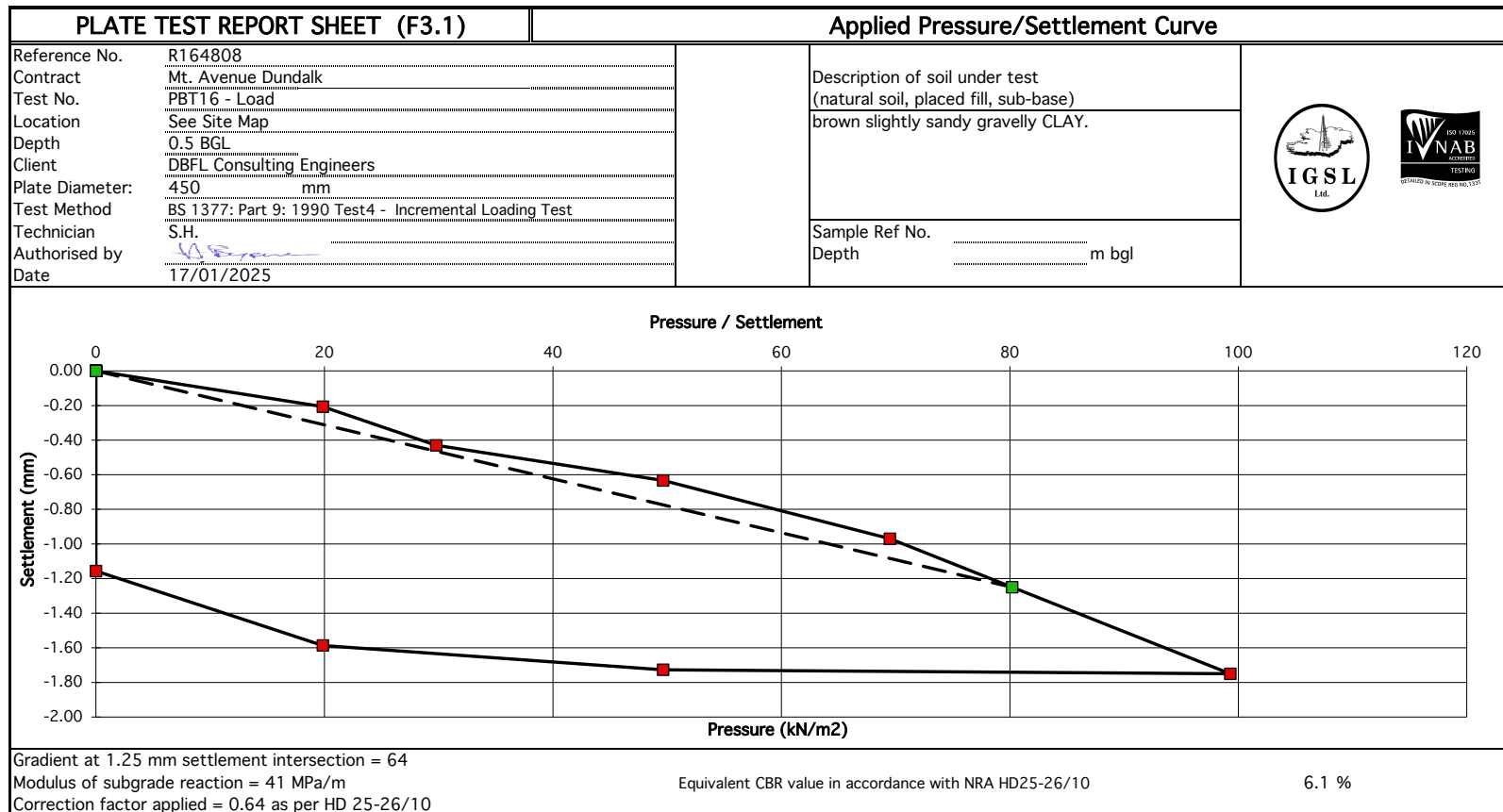


PLATE TEST REPORT SHEET (F3.1)		Applied Pressure/Settlement Curve	
Reference No.	R164808		Description of soil under test (natural soil, placed fill, sub-base) brown slightly sandy gravelly CLAY.
Contract	Mt. Avenue Dundalk		
Test No.	PBT16 - Re-Load		
Location	See Site Map		
Depth	0.5 BGL		
Client	DBFL Consulting Engineers		
Plate Diameter:	450 mm		
Test Method	BS 1377: Part 9: 1990 Test4 - Incremental Loading Test		
Technician	S.H.	Sample Ref No.	
Authorised by		Depth	_____ m bgl
Date	17/01/2025		

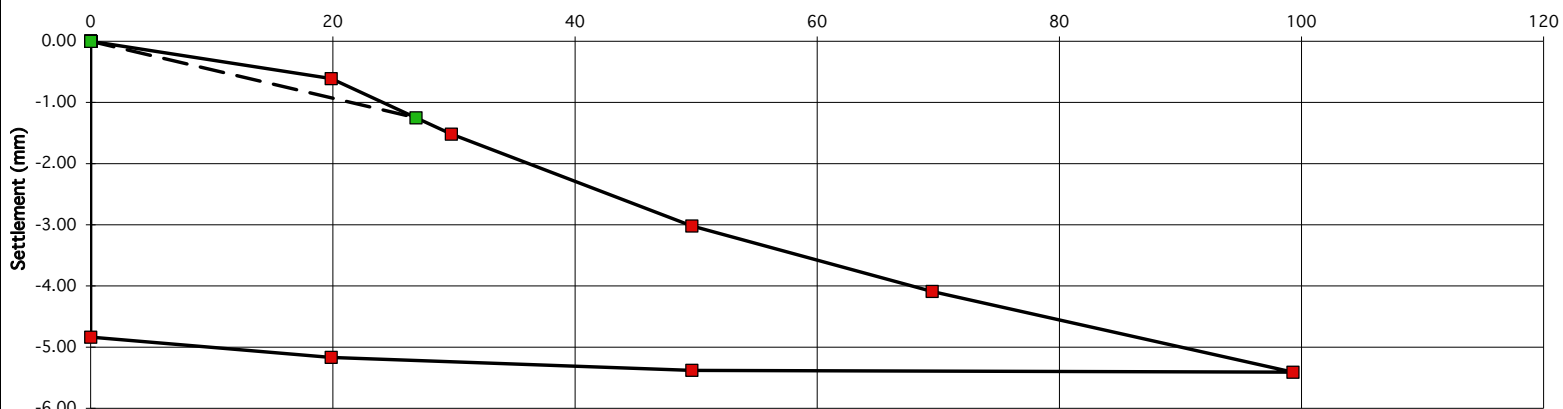
Pressure / Settlement

Pressure (kN/m²)

Gradient at 1.25 mm settlement intersection = 88	Equivalent CBR value in accordance with NRA HD25-26/10	10.5 %
Modulus of subgrade reaction = 57 MPa/m		
Correction factor applied = 0.64 as per HD 25-26/10		

PLATE TEST REPORT SHEET (F3.1)		Applied Pressure/Settlement Curve	
Reference No.	R164809		Description of soil under test (natural soil, placed fill, sub-base) brown slightly sandy gravelly CLAY
Contract	Mt. Avenue Dundalk		 
Test No.	PBT17- Load		
Location	See Site Map		
Depth	0.5 BGL		
Client	DBFL Consulting Engineers		
Plate Diameter:	450 mm		
Test Method	BS 1377: Part 9: 1990 Test4 - Incremental Loading Test		
Technician	P.R.	Sample Ref No.	
Authorised by		Depth	_____ m bgl
Date	16/01/2025		

Pressure / Settlement



Pressure (kN/m ²)	Settlement (mm) - Series 1	Settlement (mm) - Series 2
0	0.00	-4.80
20	-0.80	-5.20
30	-1.50	-5.40
40	-2.20	-5.50
60	-3.20	-5.60
80	-4.20	-5.65
100	-5.20	-5.70
120	-6.20	-5.75

Gradient at 1.25 mm settlement intersection = 21	Equivalent CBR value in accordance with NRA HD25-26/10	0.9 %
Modulus of subgrade reaction = 14 MPa/m		
Correction factor applied = 0.64 as per HD 25-26/10		

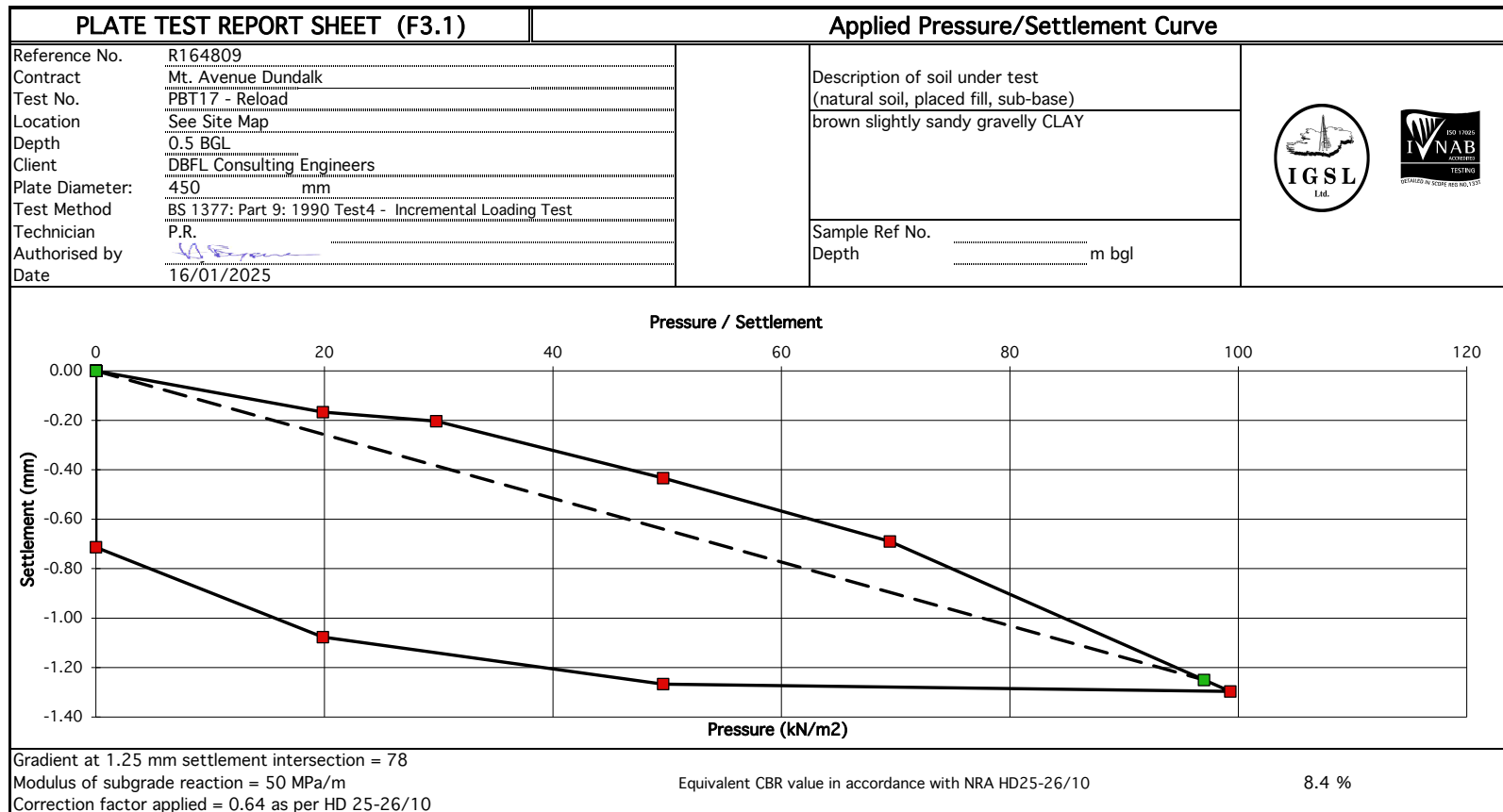
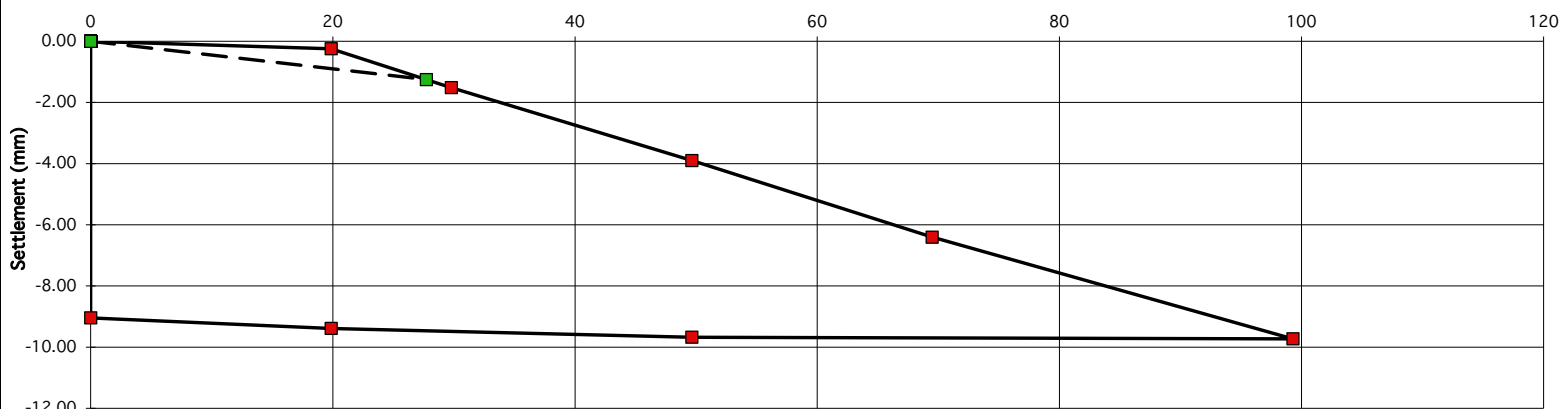


PLATE TEST REPORT SHEET (F3.1)		Applied Pressure/Settlement Curve	
Reference No.	R164810		Description of soil under test (natural soil, placed fill, sub-base) brown slightly sandy gravelly CLAY
Contract	Mt. Avenue Dundalk		 
Test No.	PBT18- Load		
Location	See Site Map		
Depth	0.8 BGL		
Client	DBFL Consulting Engineers		
Plate Diameter:	450 mm		
Test Method	BS 1377: Part 9: 1990 Test4 - Incremental Loading Test		
Technician	P.R.		
Authorised by			
Date	16/01/2025		Sample Ref No. _____ Depth _____ m bgl

Pressure / Settlement

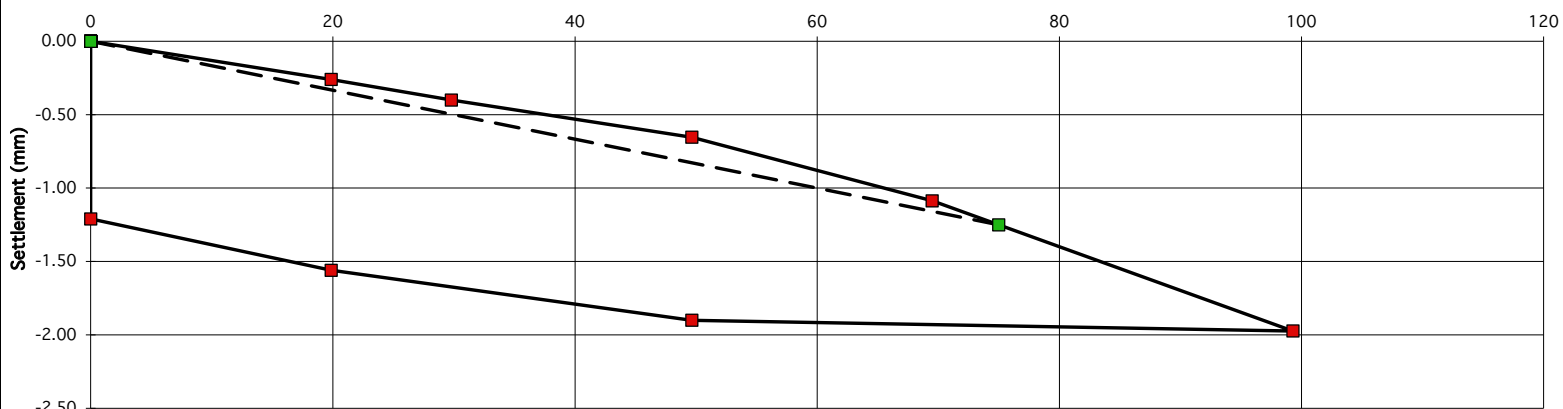


Pressure (kN/m²)

Gradient at 1.25 mm settlement intersection = 22	Equivalent CBR value in accordance with NRA HD25-26/10	1.0 %
Modulus of subgrade reaction = 14 MPa/m		
Correction factor applied = 0.64 as per HD 25-26/10		

PLATE TEST REPORT SHEET (F3.1)		Applied Pressure/Settlement Curve	
Reference No.	R164810		Description of soil under test (natural soil, placed fill, sub-base) brown slightly sandy gravelly CLAY
Contract	Mt. Avenue Dundalk		 
Test No.	PBT18 - Reload		
Location	See Site Map		
Depth	0.8 BGL		
Client	DBFL Consulting Engineers		
Plate Diameter:	450 mm		
Test Method	BS 1377: Part 9: 1990 Test4 - Incremental Loading Test		
Technician	P.R.	Sample Ref No.	
Authorised by		Depth	_____ m bgl
Date	16/01/2025		

Pressure / Settlement

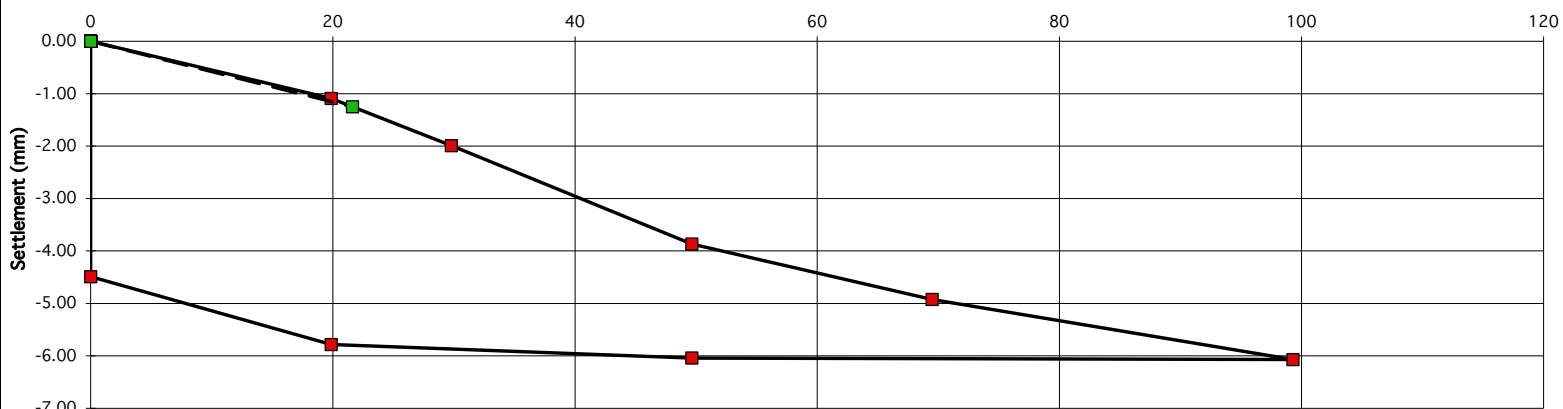


Pressure (kN/m ²)	Settlement (mm) - Solid Line (Red Squares)	Settlement (mm) - Dashed Line (Green Squares)
0	0.00	0.00
20	-0.30	-0.20
40	-0.60	-0.40
60	-0.90	-0.60
80	-1.20	-0.80
100	-1.50	-1.00
120	-1.80	-1.20

Gradient at 1.25 mm settlement intersection = 60		
Modulus of subgrade reaction = 39 MPa/m	Equivalent CBR value in accordance with NRA HD25-26/10	5.4 %
Correction factor applied = 0.64 as per HD 25-26/10		

PLATE TEST REPORT SHEET (F3.1)		Applied Pressure/Settlement Curve	
Reference No.	R1648011		Description of soil under test (natural soil, placed fill, sub-base) brown slightly sandy gravelly CLAY.
Contract	Mt. Avenue Dundalk		 
Test No.	PBT19- Load		
Location	See Site Map		
Depth	0.4 BGL		
Client	DBFL Consulting Engineers		
Plate Diameter:	450 mm		
Test Method	BS 1377: Part 9: 1990 Test4 - Incremental Loading Test		
Technician	P.R.		
Authorised by			Sample Ref No. _____ m bgl
Date	18/12/2024		Depth _____ m bgl

Pressure / Settlement

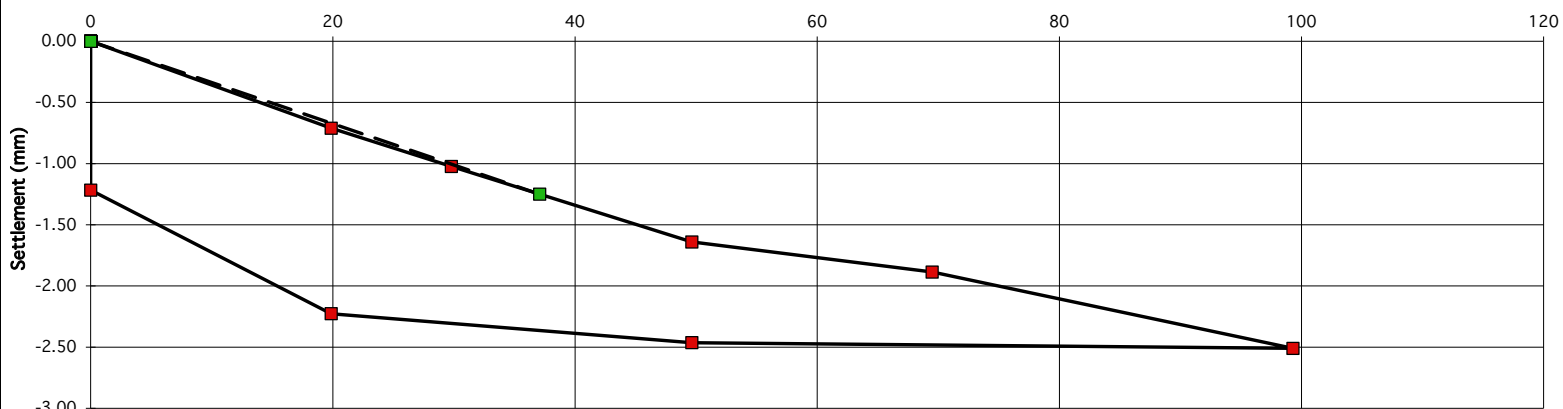


Pressure (kN/m ²)	Settlement (mm) - Upper Curve	Settlement (mm) - Lower Curve
0	0.00	-4.50
20	-1.20	-5.80
30	-2.00	-6.00
50	-3.80	-6.00
70	-5.00	-6.00
100	-6.00	-6.00

Gradient at 1.25 mm settlement intersection = 17	Equivalent CBR value in accordance with NRA HD25-26/10	0.6 %
Modulus of subgrade reaction = 11 MPa/m		
Correction factor applied = 0.64 as per HD 25-26/10		

PLATE TEST REPORT SHEET (F3.1)		Applied Pressure/Settlement Curve	
Reference No.	R1648011		Description of soil under test (natural soil, placed fill, sub-base) brown slightly sandy gravelly CLAY.
Contract	Mt. Avenue Dundalk		 
Test No.	PBT19 - Reload		
Location	See Site Map		
Depth	0.4 BGL		
Client	DBFL Consulting Engineers		
Plate Diameter:	450 mm		
Test Method	BS 1377: Part 9: 1990 Test4 - Incremental Loading Test		
Technician	P.R.	Sample Ref No.	
Authorised by		Depth	_____ m bgl
Date	18/12/2024		

Pressure / Settlement

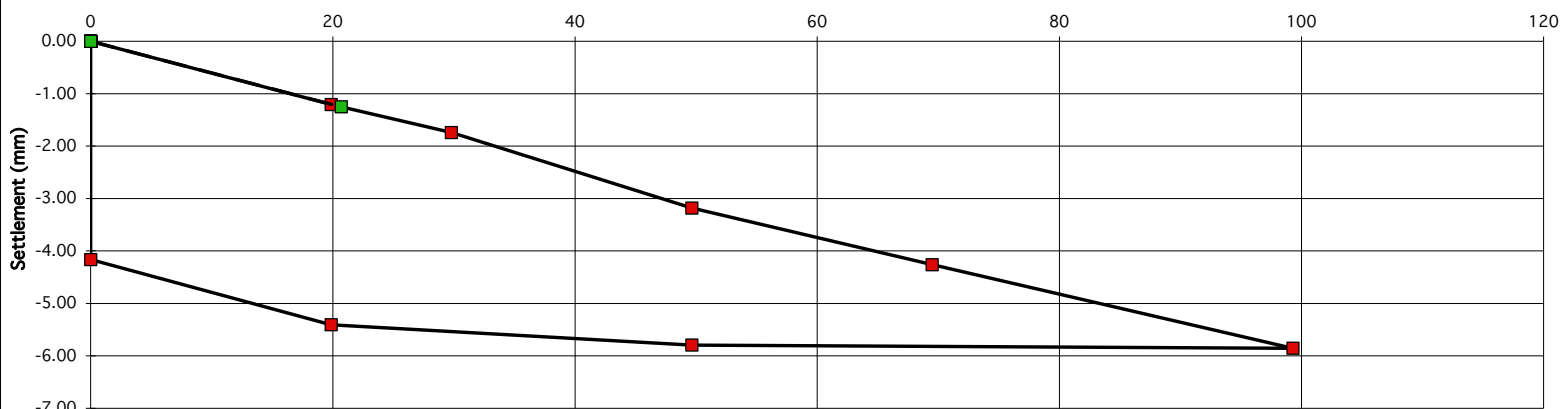


Pressure (kN/m²)

Gradient at 1.25 mm settlement intersection = 30	Equivalent CBR value in accordance with NRA HD25-26/10	1.6 %
Modulus of subgrade reaction = 19 MPa/m		
Correction factor applied = 0.64 as per HD 25-26/10		

PLATE TEST REPORT SHEET (F3.1)		Applied Pressure/Settlement Curve	
Reference No.	R164812		Description of soil under test (natural soil, placed fill, sub-base) brown slightly sandy gravelly CLAY
Contract	Mt. Avenue Dundalk		 
Test No.	PBT20- Load		
Location	See Site Map		
Depth	0.4 BGL		
Client	DBFL Consulting Engineers		
Plate Diameter:	450 mm		
Test Method	BS 1377: Part 9: 1990 Test4 - Incremental Loading Test		
Technician	P.R.	Sample Ref No.	
Authorised by		Depth	_____ m bgl
Date	18/12/2024		

Pressure / Settlement



Pressure (kN/m ²)	Settlement (mm) - Series 1 (0,0)	Settlement (mm) - Series 2 (-4.00)
0	0.00	-4.00
20	-1.20	-5.40
30	-1.80	-5.60
50	-3.20	-5.80
70	-4.40	-5.80
100	-5.80	-5.80

Gradient at 1.25 mm settlement intersection = 17	Equivalent CBR value in accordance with NRA HD25-26/10	0.6 %
Modulus of subgrade reaction = 11 MPa/m		
Correction factor applied = 0.64 as per HD 25-26/10		

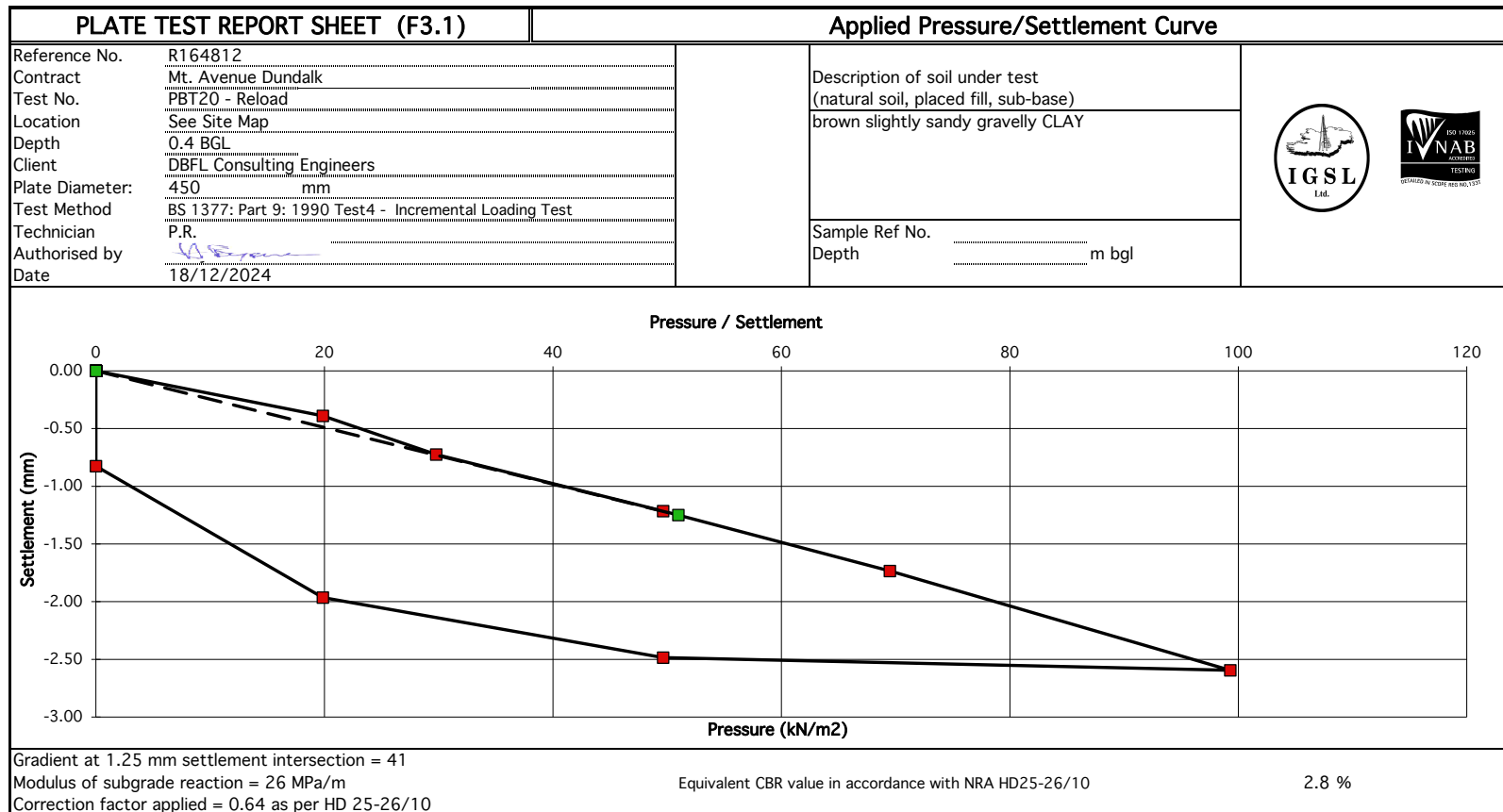
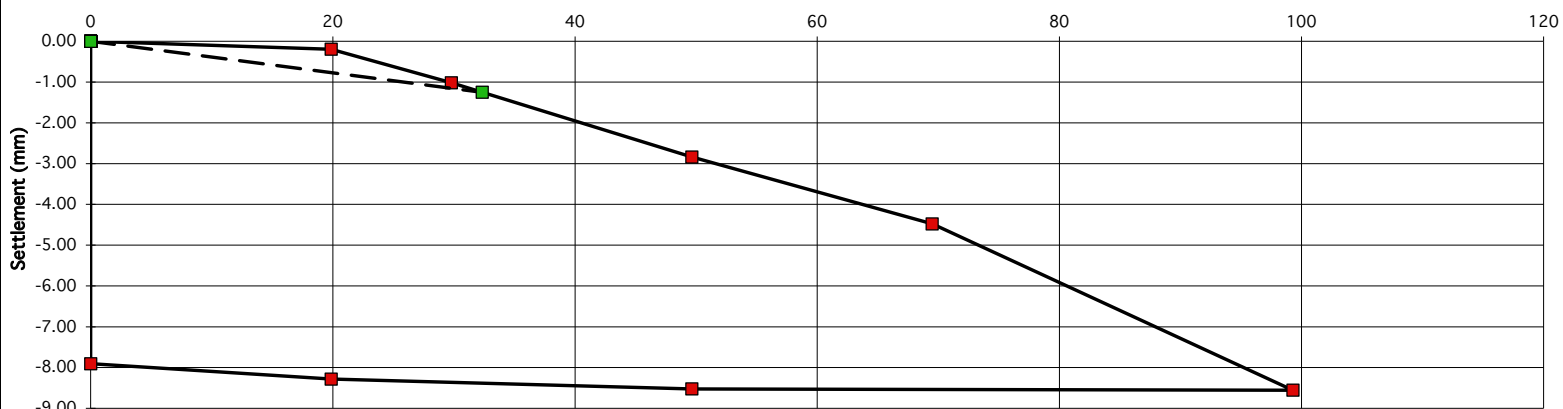


PLATE TEST REPORT SHEET (F3.1)		Applied Pressure/Settlement Curve	
Reference No.	R164813		Description of soil under test (natural soil, placed fill, sub-base) brown slightly sandy gravelly CLAY.
Contract	Mt. Avenue Dundalk		 
Test No.	PBT21- Load		
Location	See Site Map		
Depth	0.5 BGL		
Client	DBFL Consulting Engineers		
Plate Diameter:	450 mm		
Test Method	BS 1377: Part 9: 1990 Test4 - Incremental Loading Test		
Technician	P.R.	Sample Ref No.	
Authorised by		Depth	_____ m bgl
Date	20/01/2025		

Pressure / Settlement

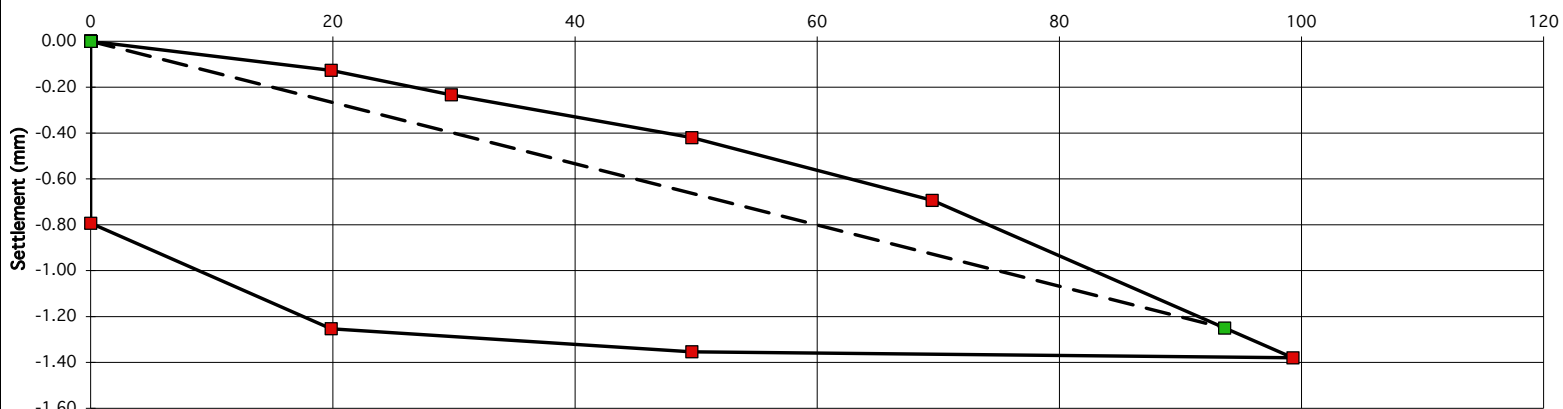


Pressure (kN/m ²)	Settlement (mm) - Solid Line	Settlement (mm) - Dashed Line
0	0.00	0.00
20	-0.50	-0.80
30	-1.00	-1.20
45	-2.80	-1.50
70	-4.50	-
110	-8.50	-

Gradient at 1.25 mm settlement intersection = 26		
Modulus of subgrade reaction = 17 MPa/m	Equivalent CBR value in accordance with NRA HD25-26/10	1.3 %
Correction factor applied = 0.64 as per HD 25-26/10		

PLATE TEST REPORT SHEET (F3.1)		Applied Pressure/Settlement Curve	
Reference No.	R164813		Description of soil under test (natural soil, placed fill, sub-base) brown slightly sandy gravelly CLAY.
Contract	Mt. Avenue Dundalk		 
Test No.	PBT21 - Reload		
Location	See Site Map		
Depth	0.5 BGL		
Client	DBFL Consulting Engineers		
Plate Diameter:	450 mm		
Test Method	BS 1377: Part 9: 1990 Test4 - Incremental Loading Test		
Technician	P.R.	Sample Ref No.	
Authorised by		Depth	_____ m bgl
Date	20/01/2025		

Pressure / Settlement

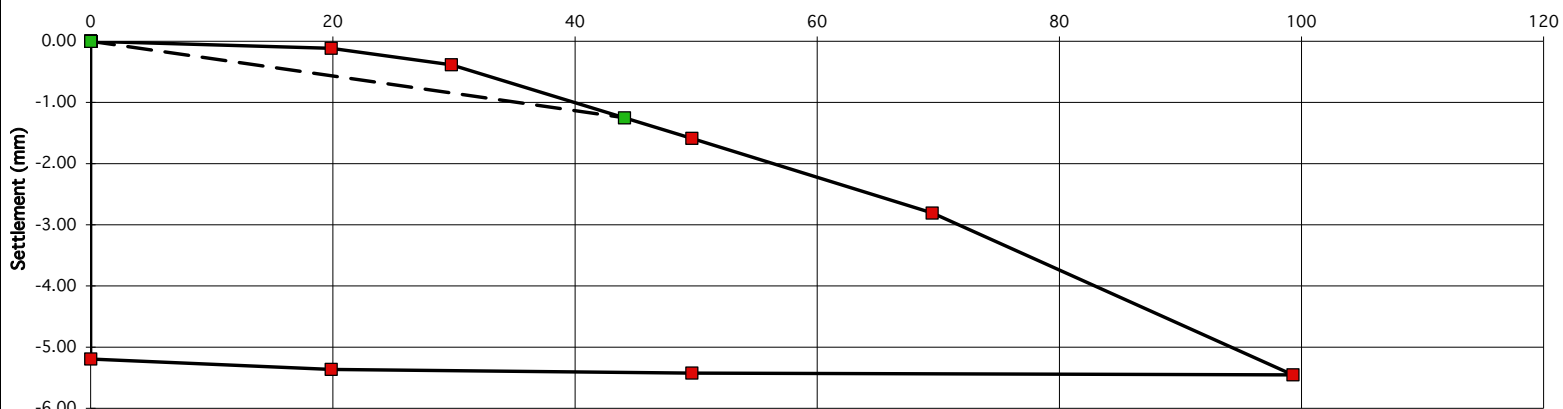


Pressure (kN/m ²)	Settlement (mm) - Red Series	Settlement (mm) - Green Series
0	0.00	-0.80
20	-0.15	-1.25
40	-0.30	-1.35
60	-0.45	-1.38
80	-0.70	-1.38
100	-1.40	-1.40

Gradient at 1.25 mm settlement intersection = 75	Equivalent CBR value in accordance with NRA HD25-26/10	8.0 %
Modulus of subgrade reaction = 48 MPa/m		
Correction factor applied = 0.64 as per HD 25-26/10		

PLATE TEST REPORT SHEET (F3.1)		Applied Pressure/Settlement Curve	
Reference No.	R164814		Description of soil under test (natural soil, placed fill, sub-base) brown slightly sandy gravelly CLAY
Contract	Mt. Avenue Dundalk		 
Test No.	PBT22- Load		
Location	See Site Map		
Depth	0.6 BGL		
Client	DBFL Consulting Engineers		
Plate Diameter:	450 mm		
Test Method	BS 1377: Part 9: 1990 Test4 - Incremental Loading Test		
Technician	P.R.	Sample Ref No.	
Authorised by		Depth	m bgl
Date	16/01/2025		

Pressure / Settlement

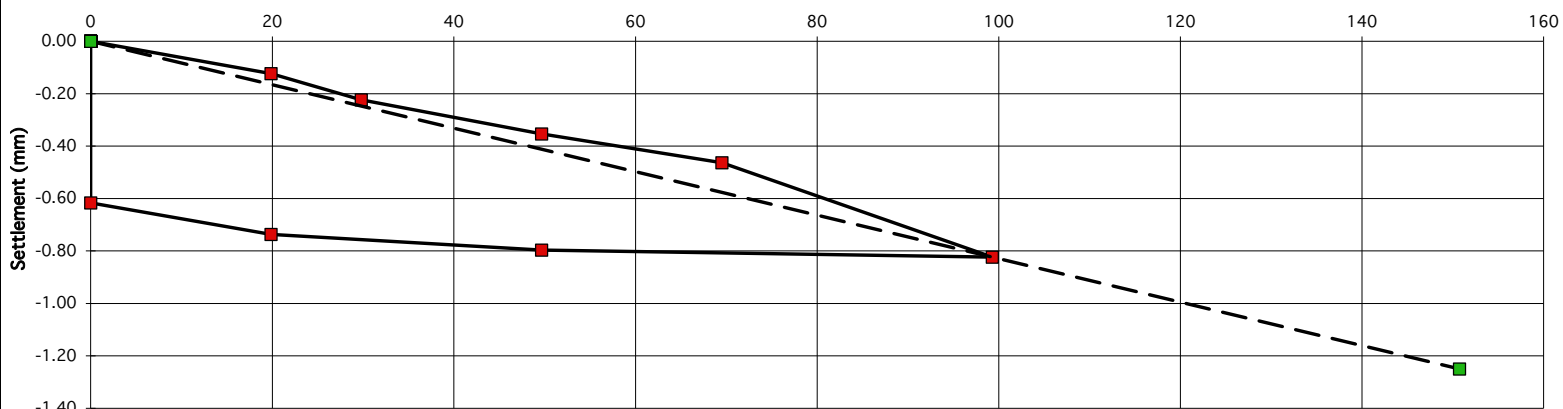


Pressure (kN/m ²)	Settlement (mm) - Curve 1	Settlement (mm) - Curve 2
0	0.00	-5.20
20	-0.20	-5.30
30	-0.50	-5.40
45	-1.30	-5.45
50	-1.60	-5.48
70	-2.80	-5.50
100	-5.50	-5.50

Gradient at 1.25 mm settlement intersection = 35	Equivalent CBR value in accordance with NRA HD25-26/10	2.2 %
Modulus of subgrade reaction = 23 MPa/m		
Correction factor applied = 0.64 as per HD 25-26/10		

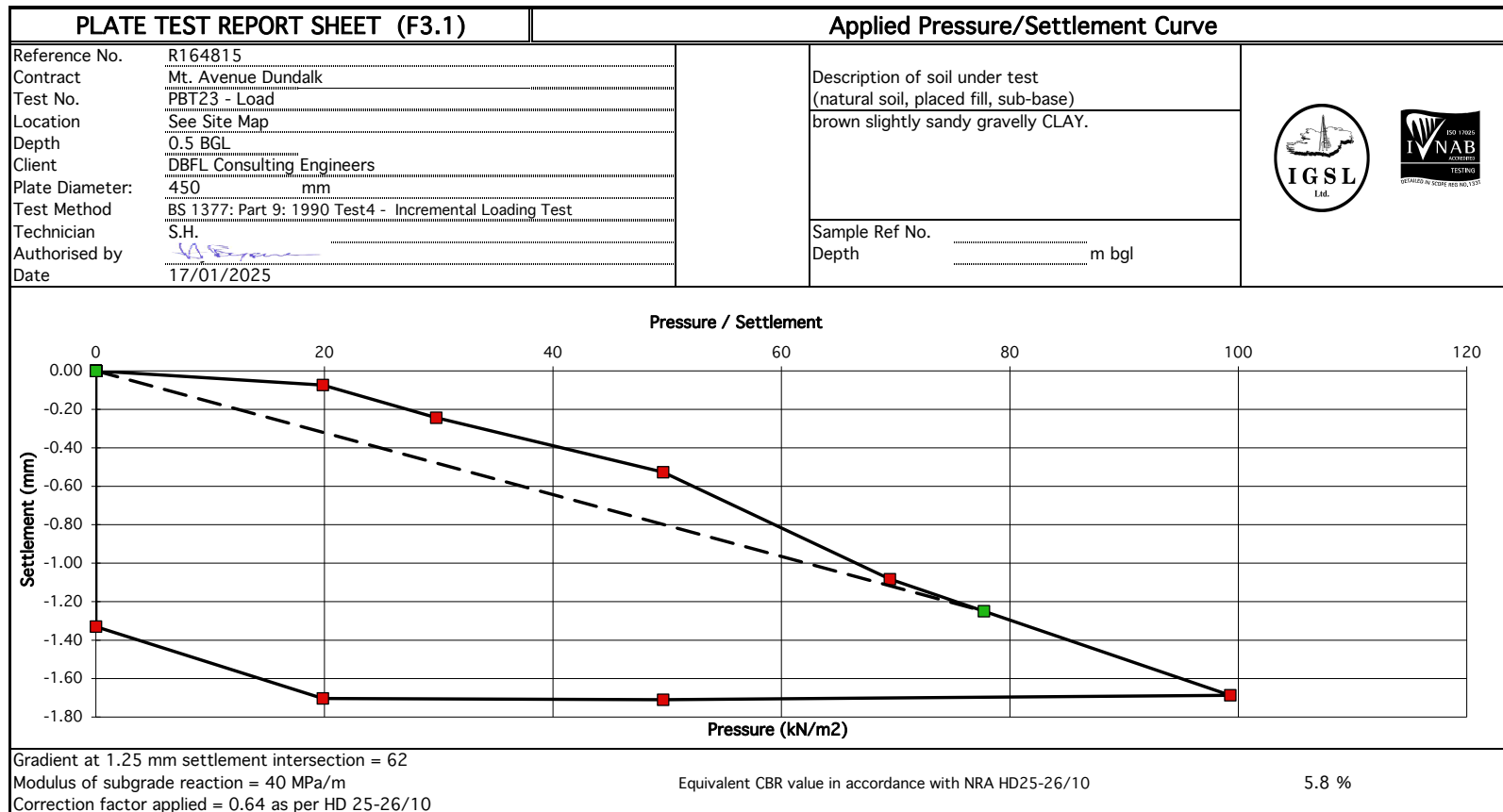
PLATE TEST REPORT SHEET (F3.1)		Applied Pressure/Settlement Curve	
Reference No.	R164814		Description of soil under test (natural soil, placed fill, sub-base) brown slightly sandy gravelly CLAY
Contract	Mt. Avenue Dundalk		 
Test No.	PBT22 - Reload		
Location	See Site Map		
Depth	0.6 BGL		
Client	DBFL Consulting Engineers		
Plate Diameter:	450 mm		
Test Method	BS 1377: Part 9: 1990 Test4 - Incremental Loading Test		
Technician	P.R.	Sample Ref No.	
Authorised by		Depth	_____ m bgl
Date	16/01/2025		

Pressure / Settlement



Pressure (kN/m²)

Gradient at 1.25 mm settlement intersection = 121	Equivalent CBR value in accordance with NRA HD25-26/10	18.1 %
Modulus of subgrade reaction = 78 MPa/m		
Correction factor applied = 0.64 as per HD 25-26/10		



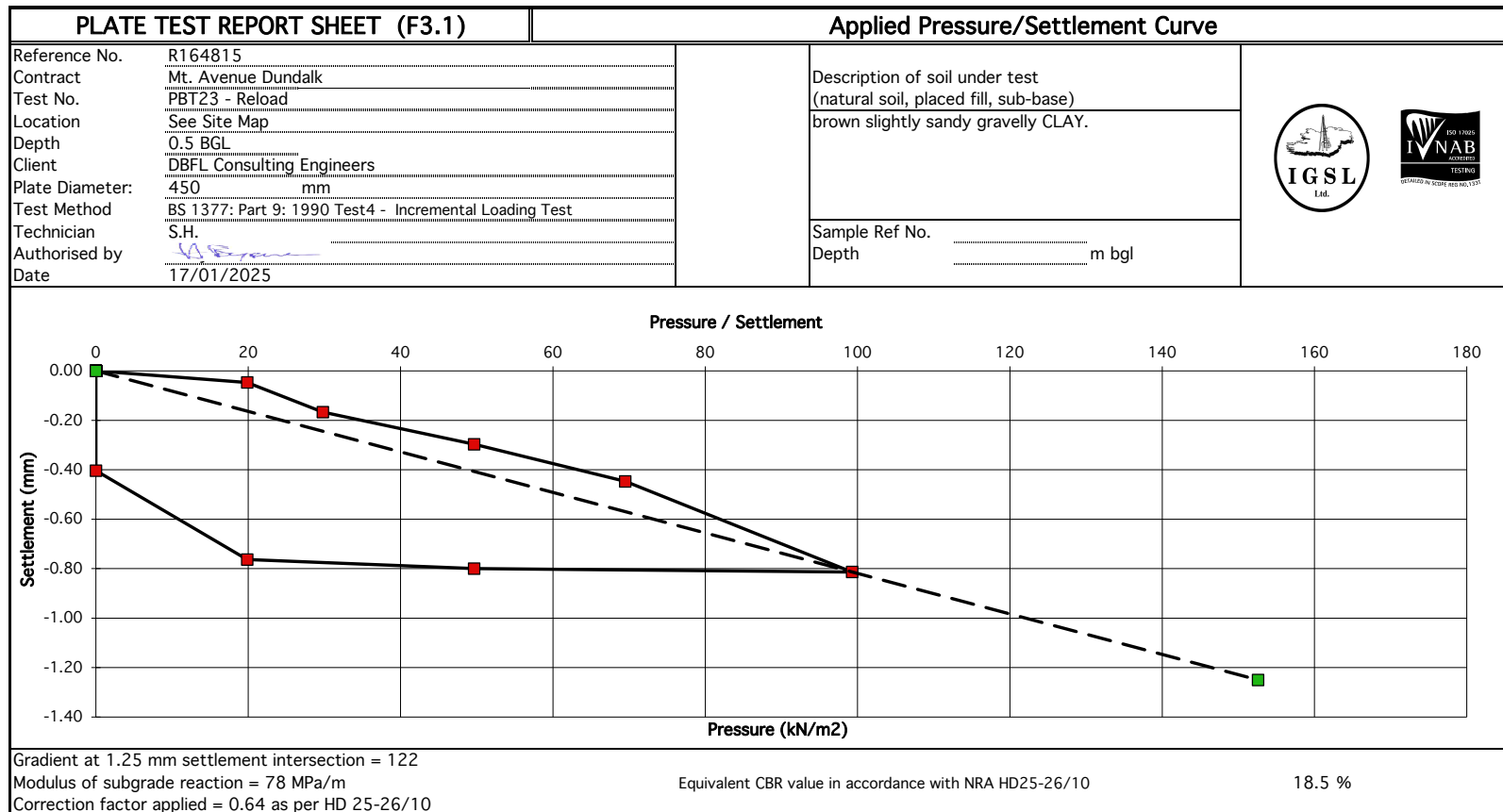
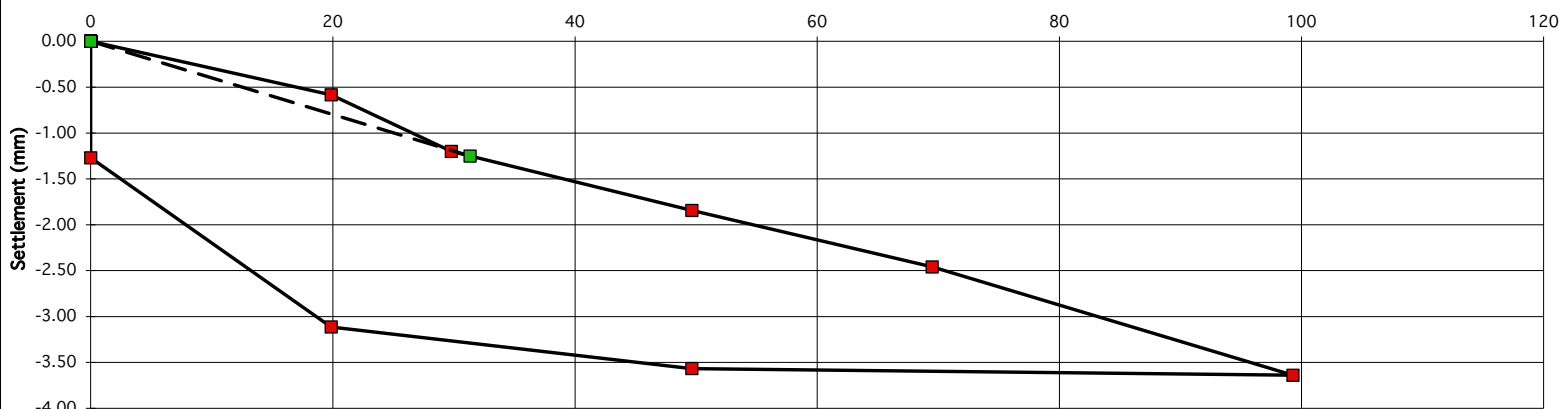


PLATE TEST REPORT SHEET (F3.1)		Applied Pressure/Settlement Curve	
Reference No.	R164816		Description of soil under test (natural soil, placed fill, sub-base) brown slightly sandy gravelly CLAY.
Contract	Mt. Avenue Dundalk		 
Test No.	PBT24 - Load		
Location	See Site Map		
Depth	0.5 BGL		
Client	DBFL Consulting Engineers		
Plate Diameter:	450 mm		
Test Method	BS 1377: Part 9: 1990 Test4 - Incremental Loading Test		
Technician	S.H.	Sample Ref No.	
Authorised by		Depth	_____ m bgl
Date	17/01/2025		

Pressure / Settlement



Pressure (kN/m ²)	Settlement (mm) - Dashed Line	Settlement (mm) - Solid Line 1 (Red Squares)	Settlement (mm) - Solid Line 2 (Red Squares)
0	0.00	-1.25	-1.25
20	-0.50	-3.20	-3.20
30	-0.75	-	-
30	-	-	-1.25 (Green Square)
50	-1.00	-1.85	-
100	-1.50	-3.75	-

Gradient at 1.25 mm settlement intersection = 25
 Modulus of subgrade reaction = 16 MPa/m
 Correction factor applied = 0.64 as per HD 25-26/10

Equivalent CBR value in accordance with NRA HD25-26/10

1.2 %

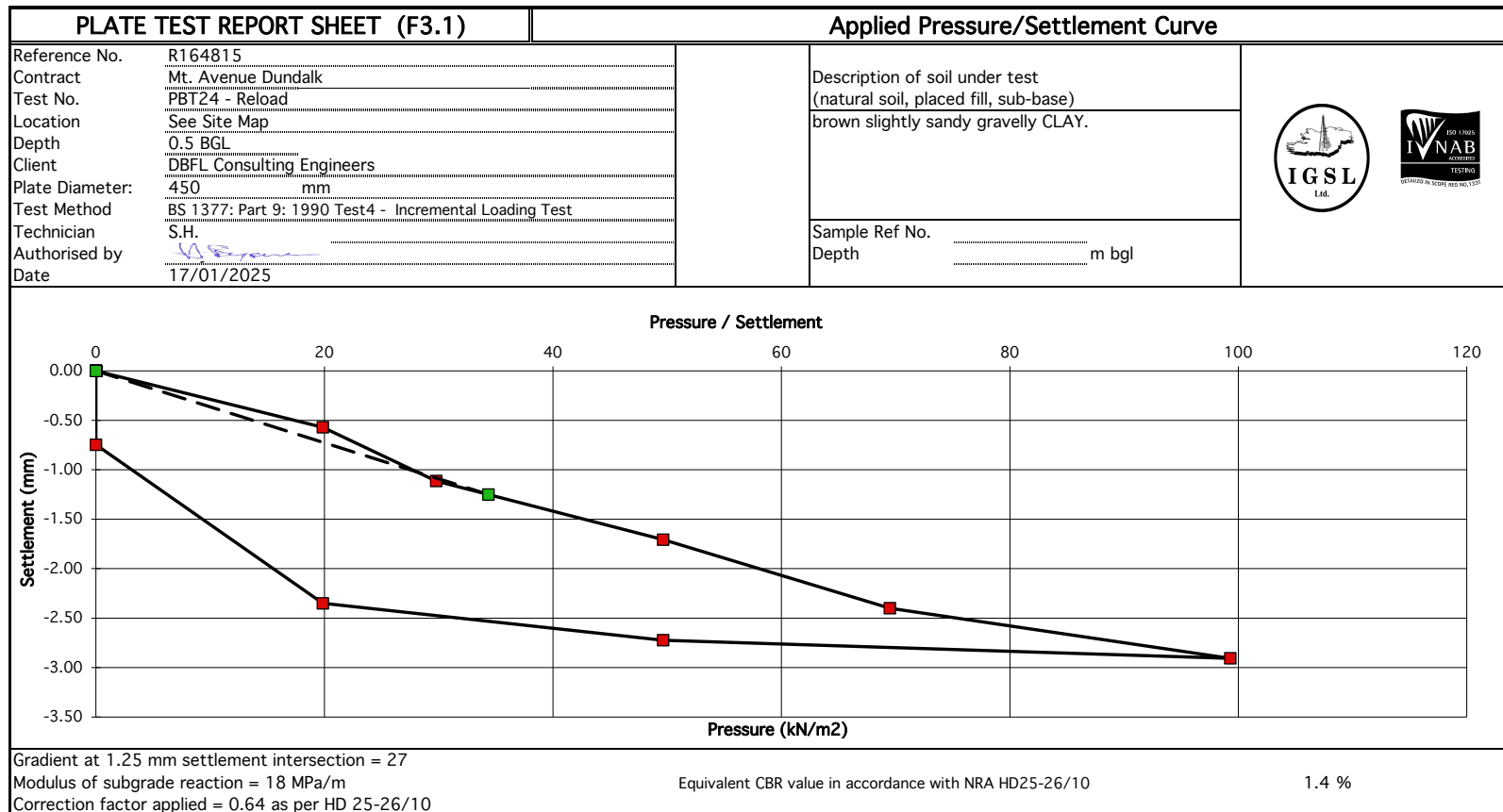


PLATE TEST REPORT SHEET (F3.1)		Applied Pressure/Settlement Curve	
Reference No.	R164817		Description of soil under test (natural soil, placed fill, sub-base) brown slightly sandy gravelly CLAY.
Contract	Mt. Avenue Dundalk		
Test No.	PBT25- Load		
Location	See Site Map		
Depth	0.5 BGL		
Client	DBFL Consulting Engineers		
Plate Diameter:	450 mm		
Test Method	BS 1377: Part 9: 1990 Test4 - Incremental Loading Test		
Technician	S.H.	Sample Ref No.	
Authorised by		Depth	m bgl
Date	17/01/2025		

Pressure / Settlement

Pressure (kN/m ²)	Settlement (mm) - Series 1 (0,0)	Settlement (mm) - Series 2 (0,-2.5)
0	0.00	-2.50
20	-0.50	-3.50
40	-1.25	-4.50
60	-2.00	-4.50
80	-2.75	-4.50
100	-3.50	-4.50
120	-4.25	-4.50

Gradient at 1.25 mm settlement intersection = 32

Modulus of subgrade reaction = 20 MPa/m

Correction factor applied = 0.64 as per HD 25-26/10

Equivalent CBR value in accordance with NRA HD25-26/10

1.8 %

PLATE TEST REPORT SHEET (F3.1)		Applied Pressure/Settlement Curve	
Reference No.	R164817		Description of soil under test (natural soil, placed fill, sub-base) brown slightly sandy gravelly CLAY.
Contract	Mt. Avenue Dundalk		
Test No.	PBT25 - Reload		
Location	See Site Map		
Depth	0.5 BGL		
Client	DBFL Consulting Engineers		
Plate Diameter:	450 mm		
Test Method	BS 1377: Part 9: 1990 Test4 - Incremental Loading Test		
Technician	S.H.	Sample Ref No.	
Authorised by		Depth	_____ m bgl
Date	17/01/2025		

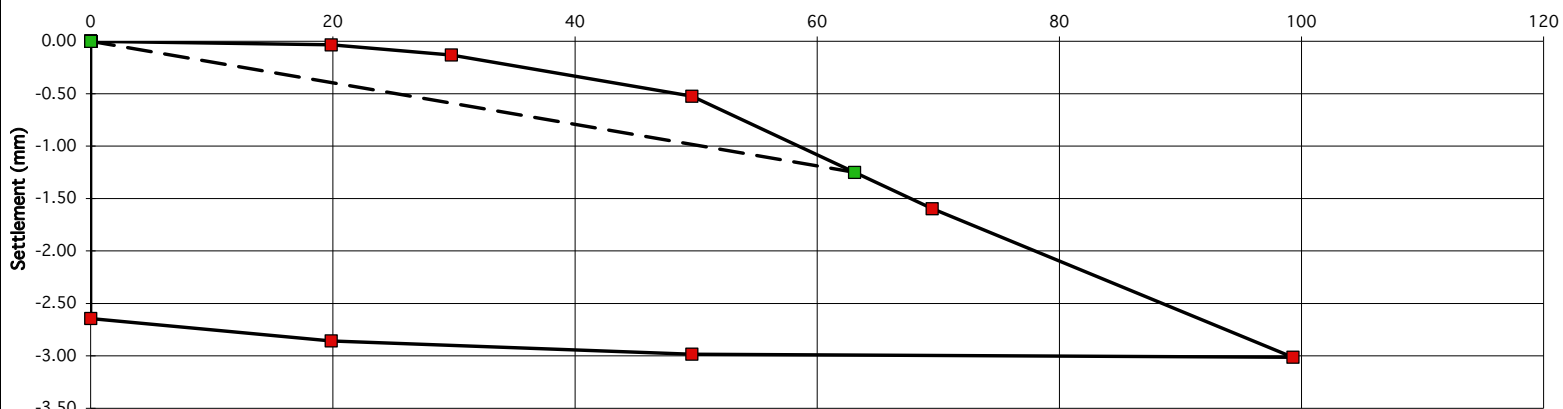
Pressure / Settlement

Pressure (kN/m2)

Gradient at 1.25 mm settlement intersection = 35	Equivalent CBR value in accordance with NRA HD25-26/10	2.1 %
Modulus of subgrade reaction = 22 MPa/m		
Correction factor applied = 0.64 as per HD 25-26/10		

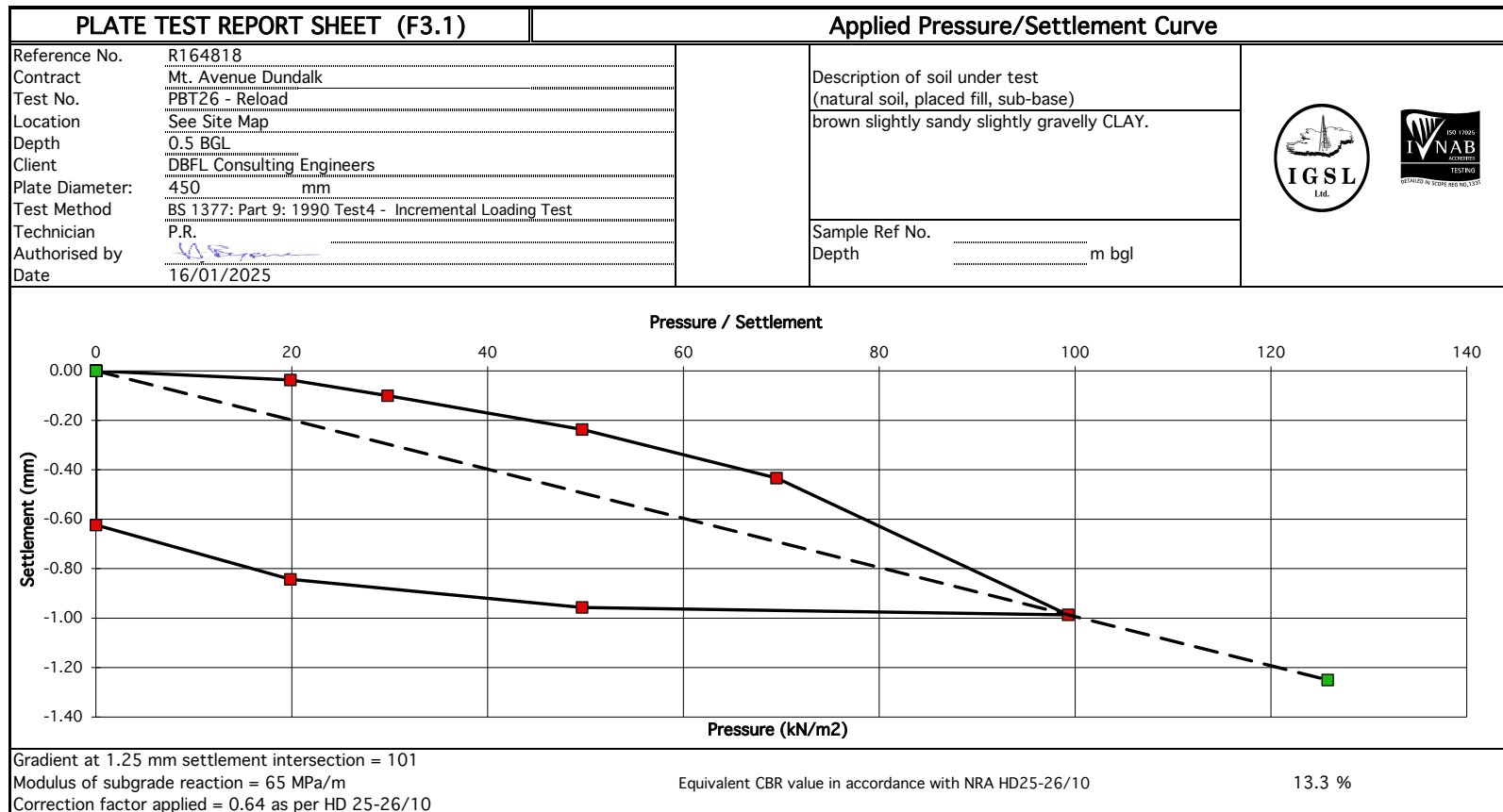
PLATE TEST REPORT SHEET (F3.1)		Applied Pressure/Settlement Curve	
Reference No.	R164818		Description of soil under test (natural soil, placed fill, sub-base) brown slightly sandy slightly gravelly CLAY.
Contract	Mt. Avenue Dundalk		 
Test No.	PBT26- Load		
Location	See Site Map		
Depth	0.5 BGL		
Client	DBFL Consulting Engineers		
Plate Diameter:	450 mm		
Test Method	BS 1377: Part 9: 1990 Test4 - Incremental Loading Test		
Technician	P.R.	Sample Ref No.	
Authorised by		Depth	_____ m bgl
Date	16/01/2025		

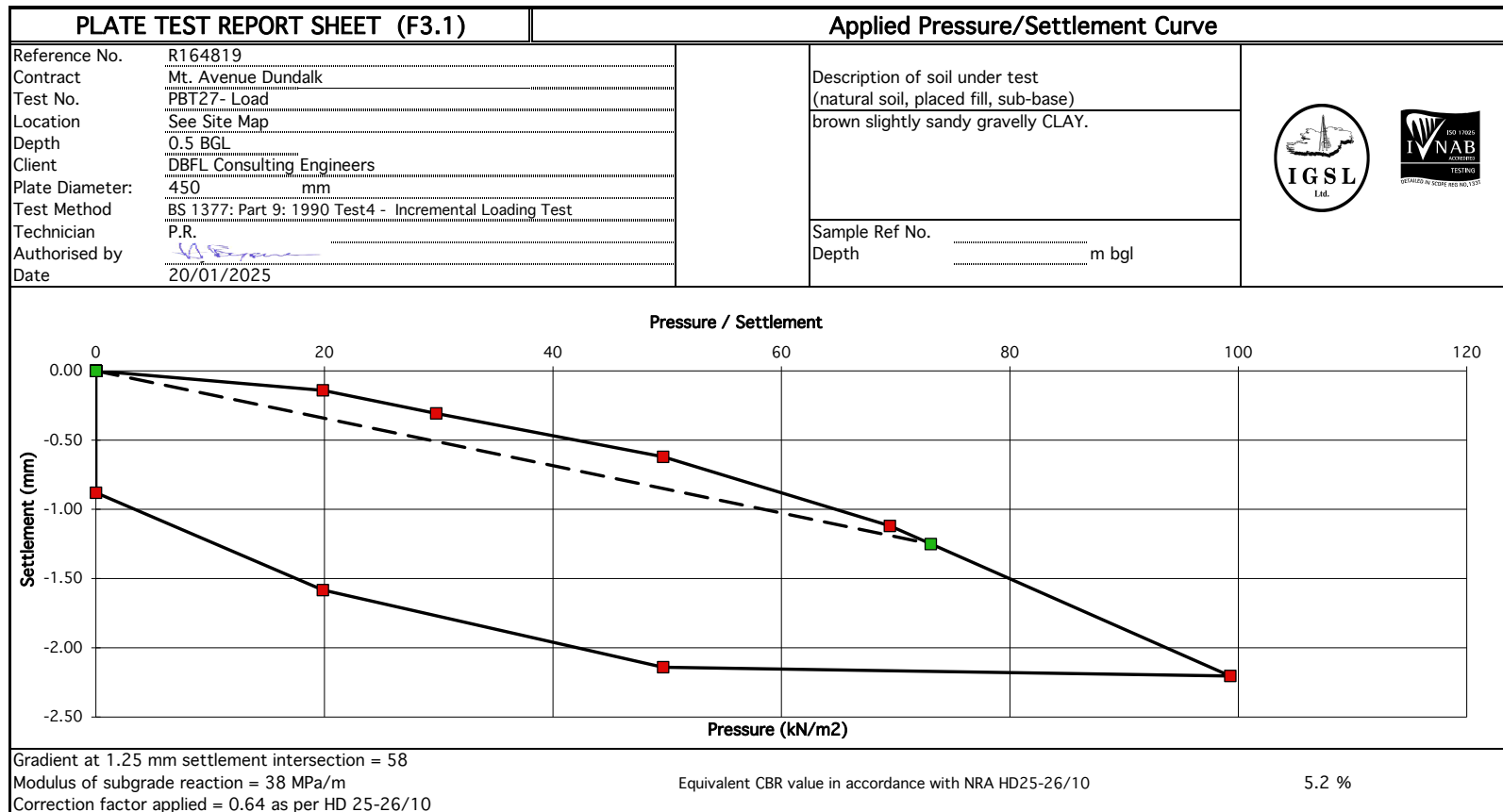
Pressure / Settlement



Pressure (kN/m2)

Gradient at 1.25 mm settlement intersection = 50	Equivalent CBR value in accordance with NRA HD25-26/10	4.0 %
Modulus of subgrade reaction = 32 MPa/m		
Correction factor applied = 0.64 as per HD 25-26/10		





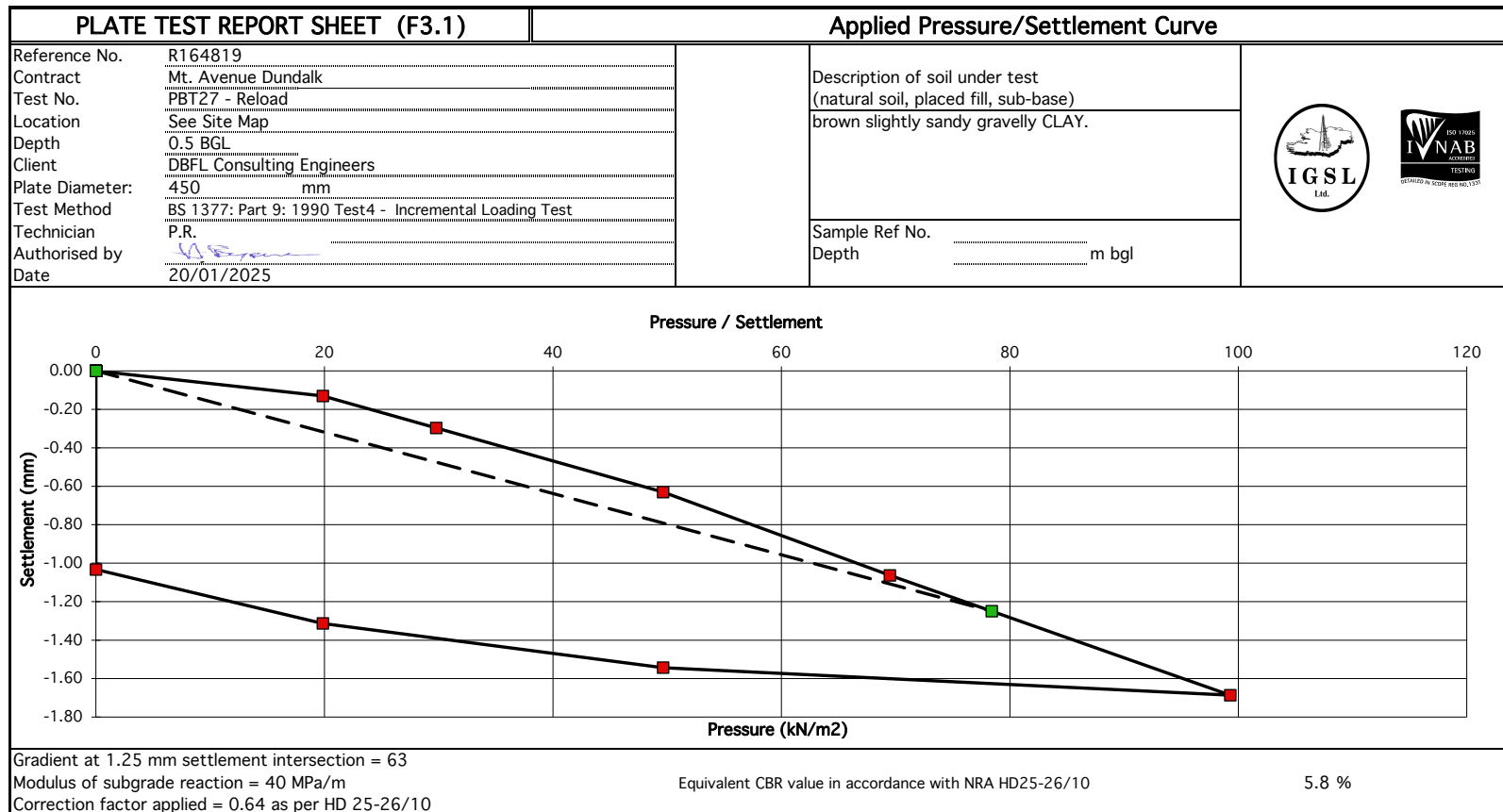
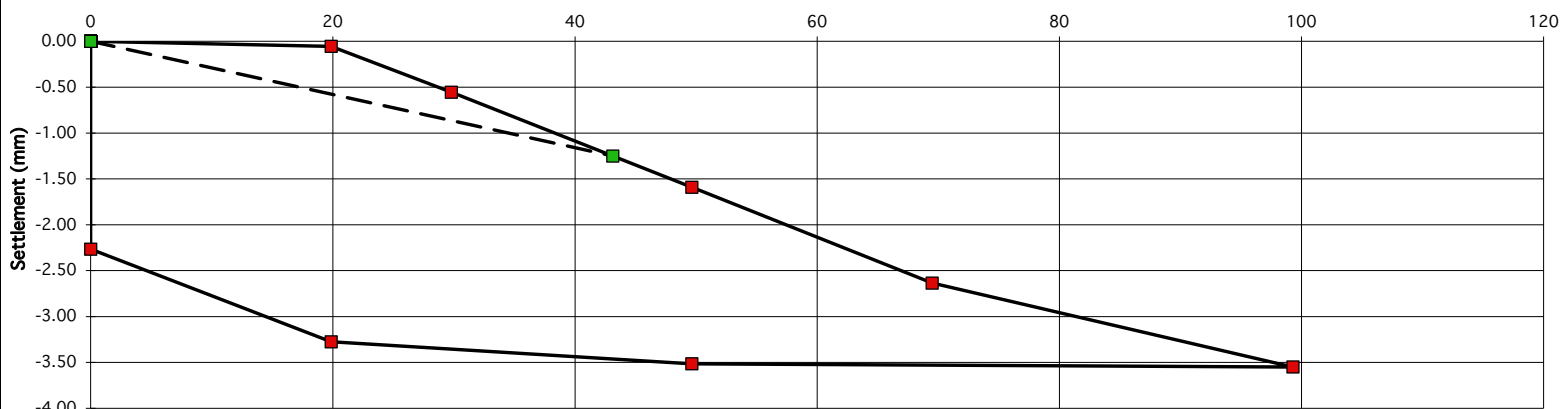


PLATE TEST REPORT SHEET (F3.1)		Applied Pressure/Settlement Curve	
Reference No.	R164820		Description of soil under test (natural soil, placed fill, sub-base) brown sandy gravelly CLAY
Contract	Mt. Avenue Dundalk		 
Test No.	PBT28- Load		
Location	See site Map		
Depth	0.5 BGL		
Client	DBFL Consulting Engineers		
Plate Diameter:	450 mm		
Test Method	BS 1377: Part 9: 1990 Test4 - Incremental Loading Test		
Technician	P.R.	Sample Ref No.	
Authorised by		Depth	_____ m bgl
Date	20/01/2025		

Pressure / Settlement

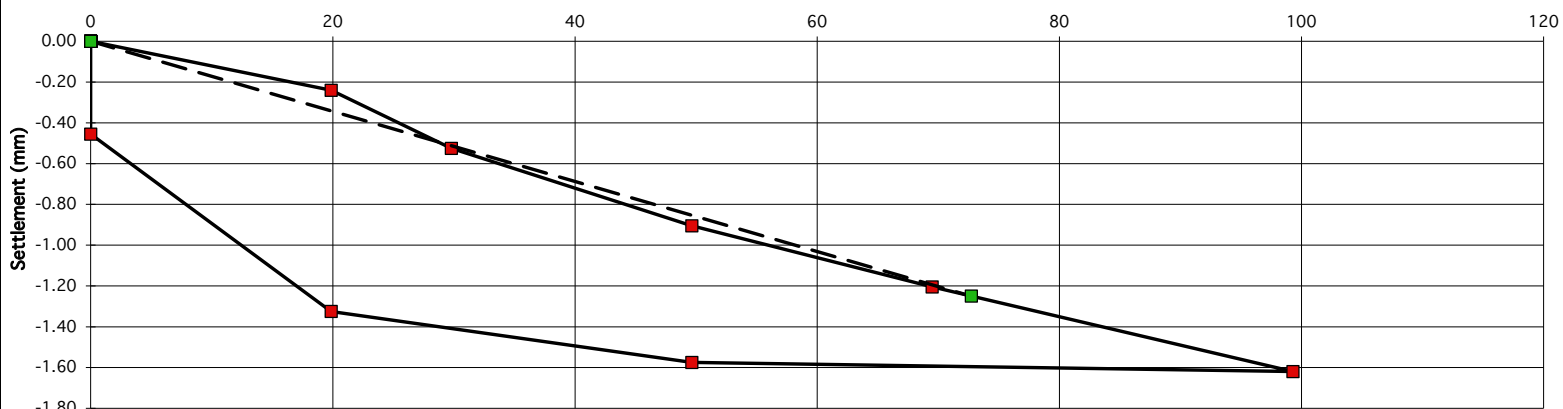


Pressure (kN/m ²)	Settlement (mm) - Top Curve	Settlement (mm) - Bottom Curve
0	0.00	-2.30
20	-0.20	-3.30
30	-0.60	
45	-1.30	
50	-1.60	-3.60
75	-2.60	
100	-3.60	-3.60

Gradient at 1.25 mm settlement intersection = 34	Equivalent CBR value in accordance with NRA HD25-26/10	2.1 %
Modulus of subgrade reaction = 22 MPa/m		
Correction factor applied = 0.64 as per HD 25-26/10		

PLATE TEST REPORT SHEET (F3.1)		Applied Pressure/Settlement Curve	
Reference No.	R164820	Description of soil under test (natural soil, placed fill, sub-base)	 
Contract	Mt. Avenue Dundalk	brown sandy gravelly CLAY	
Test No.	PBT28- Reload		
Location	See site Map		
Depth	0.5 BGL		
Client	DBFL Consulting Engineers		
Plate Diameter:	450 mm	Sample Ref No.	
Test Method	BS 1377: Part 9: 1990 Test4 - Incremental Loading Test	Depth	m bgl
Technician	P.R.		
Authorised by			
Date	20/01/2025		

Pressure / Settlement

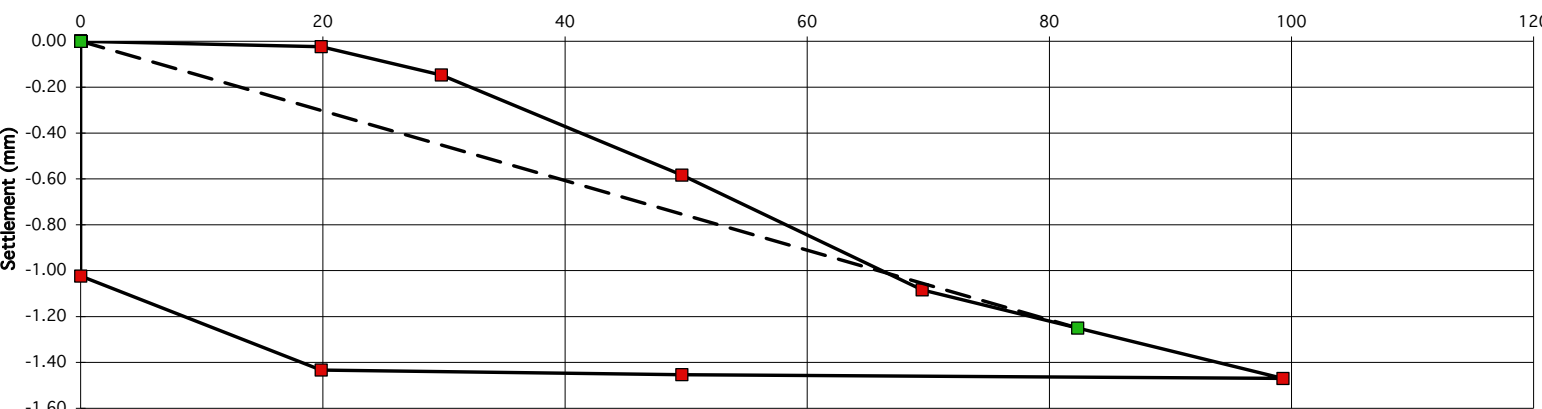


Pressure (kN/m ²)	Settlement (mm)
0	0.00
20	-0.25
30	-0.50
45	-0.90
70	-1.20
100	-1.60

Gradient at 1.25 mm settlement intersection = 58	Equivalent CBR value in accordance with NRA HD25-26/10	5.1 %
Modulus of subgrade reaction = 37 MPa/m		
Correction factor applied = 0.64 as per HD 25-26/10		

PLATE TEST REPORT SHEET (F3.1)		Applied Pressure/Settlement Curve	
Reference No.	R164821		Description of soil under test (natural soil, placed fill, sub-base)
Contract	Mt. Avenue Dundalk		Brown sandy gravelly CLAY
Test No.	PBT29- Load		
Location	See Site Map		
Depth	0.5 BGL		
Client	DBFL Consulting Engineers		
Plate Diameter:	450 mm		
Test Method	BS 1377: Part 9: 1990 Test4 - Incremental Loading Test		
Technician	P.R.		
Authorised by			
Date	13/01/2025		
		Sample Ref No. _____	Depth _____ m bgl

Pressure / Settlement



Pressure (kN/m ²)	Settlement (mm) - Solid Red	Settlement (mm) - Dashed Red	Settlement (mm) - Solid Green
0	0.00	0.00	-1.00
20	-0.10	-0.30	-1.50
30	-0.20	-0.45	-1.50
50	-0.60	-0.80	-1.50
70	-1.10	-1.10	-1.30
80	-1.20	-1.20	-1.30
100	-1.50	-1.50	-1.50

Gradient at 1.25 mm settlement intersection = 66

Modulus of subgrade reaction = 42 MPa/m

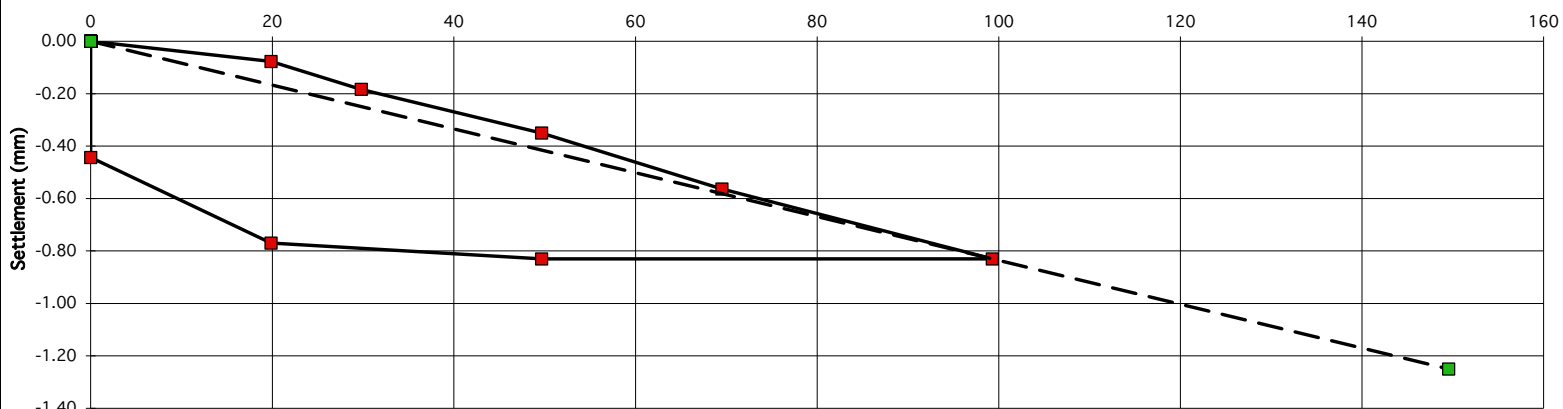
Correction factor applied = 0.64 as per HD 25-26/10

Equivalent CBR value in accordance with NRA HD25-26/10

6.4 %

PLATE TEST REPORT SHEET (F3.1)		Applied Pressure/Settlement Curve	
Reference No.	R164821		Description of soil under test (natural soil, placed fill, sub-base)
Contract	Mt. Avenue Dundalk		Brown sandy gravelly CLAY
Test No.	PBT29- Reload		
Location	See Site Map		 
Depth	0.5 BGL		
Client	DBFL Consulting Engineers		
Plate Diameter:	450 mm		
Test Method	BS 1377: Part 9: 1990 Test4 - Incremental Loading Test		
Technician	P.R.		Sample Ref No. _____
Authorised by			Depth _____ m bgl
Date	13/01/2025		

Pressure / Settlement



Pressure (kN/m²)

Gradient at 1.25 mm settlement intersection = 120	Equivalent CBR value in accordance with NRA HD25-26/10	17.9 %
Modulus of subgrade reaction = 77 MPa/m		
Correction factor applied = 0.64 as per HD 25-26/10		

PLATE TEST REPORT SHEET (F3.1)		Applied Pressure/Settlement Curve	
Reference No.	R164822		Description of soil under test (natural soil, placed fill, sub-base)
Contract	Mt. Avenue Dundalk		Brown sandy gravelly CLAY
Test No.	PBT30- Load		
Location	See Site Map		
Depth	0.5 BGL		
Client	DBFL Consulting Engineers		
Plate Diameter:	450 mm		
Test Method	BS 1377: Part 9: 1990 Test4 - Incremental Loading Test		
Technician	P.R.		
Authorised by			
Date	20/01/2025		
		Sample Ref No. _____	Depth _____ m bgl

Pressure / Settlement

Pressure (kN/m ²)	Settlement (mm) - Solid Line	Settlement (mm) - Dashed Line
0	0.00	0.00
20	-0.20	-0.30
30	-0.40	-0.50
50	-0.70	-0.80
70	-1.20	-1.20
100	-2.20	-2.20

Gradient at 1.25 mm settlement intersection = 58

Modulus of subgrade reaction = 37 MPa/m

Correction factor applied = 0.64 as per HD 25-26/10

Equivalent CBR value in accordance with NRA HD25-26/10

5.1 %

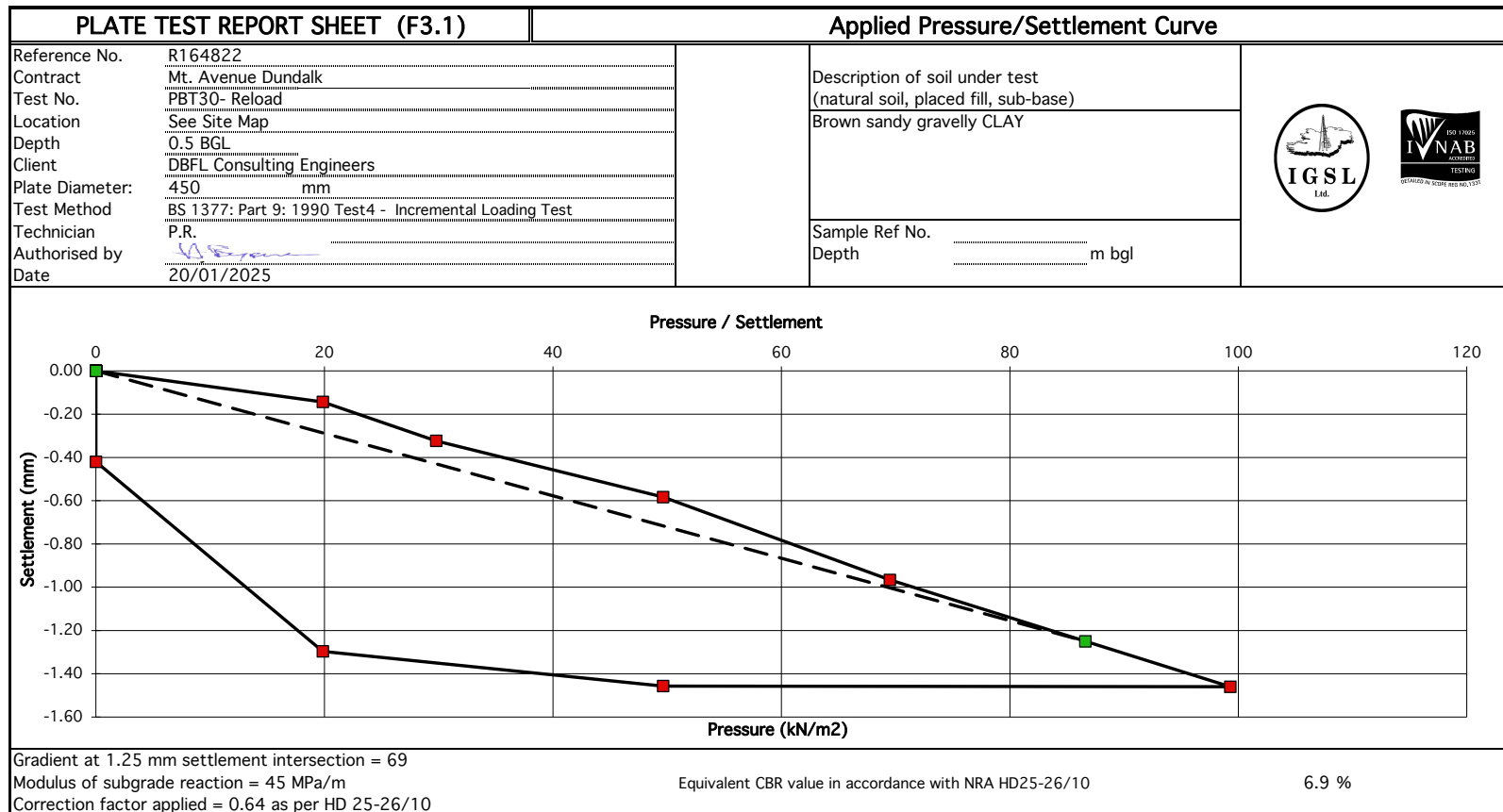


PLATE TEST REPORT SHEET (F3.1)		Applied Pressure/Settlement Curve	
Reference No.	R164823		Description of soil under test (natural soil, placed fill, sub-base)
Contract	Mt. Avenue Dundalk		Brown sandy gravelly CLAY
Test No.	PBT31- Load		
Location	See Site Map		
Depth	0.5 BGL		
Client	DBFL Consulting Engineers		
Plate Diameter:	450 mm		
Test Method	BS 1377: Part 9: 1990 Test4 - Incremental Loading Test		
Technician	P.R.	Sample Ref No.	_____ m bgl
Authorised by		Depth	_____ m bgl
Date	22/01/2025		

Pressure / Settlement

Pressure (kN/m ²)	Settlement (mm) - Series 1	Settlement (mm) - Series 2
0	0.00	-2.50
20	-0.20	-3.80
30	-0.90	-3.80
40	-1.30	-3.80
55	-1.90	-3.80
75	-2.80	-3.80
100	-3.80	-3.80

Gradient at 1.25 mm settlement intersection = 29

Modulus of subgrade reaction = 19 MPa/m

Correction factor applied = 0.64 as per HD 25-26/10

Equivalent CBR value in accordance with NRA HD25-26/10

1.6 %

PLATE TEST REPORT SHEET (F3.1)		Applied Pressure/Settlement Curve	
Reference No.	R164823		Description of soil under test (natural soil, placed fill, sub-base)
Contract	Mt. Avenue Dundalk		Brown sandy gravelly CLAY
Test No.	PBT31- Reload		
Location	See Site Map		
Depth	0.5 BGL		
Client	DBFL Consulting Engineers		
Plate Diameter:	450 mm		
Test Method	BS 1377: Part 9: 1990 Test4 - Incremental Loading Test		
Technician	P.R.		
Authorised by			
Date	22/01/2025		
		Sample Ref No. _____	Depth _____ m bgl

Pressure / Settlement

Pressure (kN/m ²)	Settlement (mm) - Dashed Line	Settlement (mm) - Solid Line 1 (Red Squares)	Settlement (mm) - Solid Line 2 (Red Squares)
0	0.00	-1.10	-1.10
20	-0.20	-1.40	-1.40
40	-0.40	-1.40	-1.40
60	-0.60	-1.40	-1.40
80	-0.80	-1.40	-1.40
100	-1.25	-1.45	-1.45

Gradient at 1.25 mm settlement intersection = 70

Modulus of subgrade reaction = 45 MPa/m

Correction factor applied = 0.64 as per HD 25-26/10

Equivalent CBR value in accordance with NRA HD25-26/10

7.2 %

PLATE TEST REPORT SHEET (F3.1)		Applied Pressure/Settlement Curve	
Reference No.	R164824		Description of soil under test (natural soil, placed fill, sub-base)
Contract	Mt. Avenue Dundalk		Brown sandy gravelly CLAY
Test No.	PBT32- Load		
Location	See Site Map		
Depth	0.5 BGL		
Client	DBFL Consulting Engineers		
Plate Diameter:	450 mm		
Test Method	BS 1377: Part 9: 1990 Test4 - Incremental Loading Test		
Technician	P.R.	Sample Ref No.	
Authorised by		Depth	_____ m bgl
Date	22/01/2025		

Pressure / Settlement

Pressure (kN/m ²)	Settlement (mm) - Upper Curve	Settlement (mm) - Lower Curve
0	0.00	-2.10
20	-0.30	-3.80
30	-1.00	
40	-1.30	
55	-2.10	-4.10
70	-2.70	
100	-4.10	-4.10

Gradient at 1.25 mm settlement intersection = 28

Modulus of subgrade reaction = 18 MPa/m

Correction factor applied = 0.64 as per HD 25-26/10

Equivalent CBR value in accordance with NRA HD25-26/10

1.4 %

PLATE TEST REPORT SHEET (F3.1)		Applied Pressure/Settlement Curve	
Reference No.	R164824		Description of soil under test (natural soil, placed fill, sub-base)
Contract	Mt. Avenue Dundalk		Brown sandy gravelly CLAY
Test No.	PBT32- Reload		
Location	See Site Map		
Depth	0.5 BGL		
Client	DBFL Consulting Engineers		
Plate Diameter:	450 mm		
Test Method	BS 1377: Part 9: 1990 Test4 - Incremental Loading Test		
Technician	P.R.		
Authorised by			
Date	22/01/2025		
		Sample Ref No. _____	Depth _____ m bgl

Pressure / Settlement

Pressure (kN/m ²)	Settlement (mm) - Solid Line	Settlement (mm) - Dashed Line
0	0.00	0.00
20	-0.50	-0.60
30	-1.00	-1.00
40	-1.25	-1.25
45	-1.60	-1.30
55	-2.20	-
70	-2.80	-
100	-3.10	-

Gradient at 1.25 mm settlement intersection = 29

Modulus of subgrade reaction = 19 MPa/m

Correction factor applied = 0.64 as per HD 25-26/10

Equivalent CBR value in accordance with NRA HD25-26/10

1.6 %

PLATE TEST REPORT SHEET (F3.1)		Applied Pressure/Settlement Curve	
Reference No.	R164825		Description of soil under test (natural soil, placed fill, sub-base)
Contract	Mt. Avenue Dundalk		Brown sandy gravelly CLAY
Test No.	PBT33- Load		
Location	See Site Map		
Depth	0.5 BGL		
Client	DBFL Consulting Engineers		
Plate Diameter:	450 mm		
Test Method	BS 1377: Part 9: 1990 Test4 - Incremental Loading Test		
Technician	P.R.		
Authorised by			
Date	14/01/2025		
		Sample Ref No. _____	Depth _____ m bgl

Pressure / Settlement

Pressure (kN/m ²)	Settlement (mm) - Upper Curve	Settlement (mm) - Lower Curve
0	0.00	-3.50
20	-0.40	-4.00
30	-0.60	
45	-1.30	
50	-1.40	-4.10
75	-2.60	
100	-4.20	-4.20

Gradient at 1.25 mm settlement intersection = 37

Modulus of subgrade reaction = 24 MPa/m

Correction factor applied = 0.64 as per HD 25-26/10

Equivalent CBR value in accordance with NRA HD25-26/10

2.4 %

PLATE TEST REPORT SHEET (F3.1)		Applied Pressure/Settlement Curve	
Reference No.	R164825		Description of soil under test (natural soil, placed fill, sub-base)
Contract	Mt. Avenue Dundalk		Brown sandy gravelly CLAY
Test No.	PBT33- Reload		
Location	See Site Map		
Depth	0.5 BGL		
Client	DBFL Consulting Engineers		
Plate Diameter:	450 mm		
Test Method	BS 1377: Part 9: 1990 Test4 - Incremental Loading Test		
Technician	P.R.		
Authorised by			
Date	14/01/2025		
		Sample Ref No. _____	Depth _____ m bgl

Pressure / Settlement

Pressure (kN/m ²)	Settlement (mm) - Solid Red	Settlement (mm) - Dashed Red	Settlement (mm) - Solid Green
0	0.00	0.00	-0.50
20	-0.05	-0.10	-0.75
40	-0.10	-0.20	-0.85
60	-0.18	-0.35	-0.90
80	-0.30	-0.50	-0.90
100	-0.90	-0.90	-0.90
140	-	-	-1.30

Pressure (kN/m²)

Gradient at 1.25 mm settlement intersection = 109	Equivalent CBR value in accordance with NRA HD25-26/10	15.2 %
Modulus of subgrade reaction = 70 MPa/m		
Correction factor applied = 0.64 as per HD 25-26/10		

PLATE TEST REPORT SHEET (F3.1)		Applied Pressure/Settlement Curve	
Reference No.	R164826		Description of soil under test (natural soil, placed fill, sub-base)
Contract	Mt. Avenue Dundalk		Brown sandy gravelly CLAY
Test No.	PBT34- Load		
Location	See Site Map		
Depth	0.5 BGL		
Client	DBFL Consulting Engineers		
Plate Diameter:	450 mm		
Test Method	BS 1377: Part 9: 1990 Test4 - Incremental Loading Test		
Technician	P.R.		
Authorised by			
Date	14/01/2025		
		Sample Ref No. _____	Depth _____ m bgl

Pressure / Settlement

Pressure (kN/m ²)	Settlement (mm) - Upper Curve	Settlement (mm) - Lower Curve
0	0.00	-2.50
20	-0.60	-2.80
30	-0.80	
50	-1.30	-3.00
70	-2.10	
100	-3.00	-3.00

Gradient at 1.25 mm settlement intersection = 38

Modulus of subgrade reaction = 25 MPa/m

Correction factor applied = 0.64 as per HD 25-26/10

Equivalent CBR value in accordance with NRA HD25-26/10

2.5 %

PLATE TEST REPORT SHEET (F3.1)		Applied Pressure/Settlement Curve	
Reference No.	R164826		Description of soil under test (natural soil, placed fill, sub-base)
Contract	Mt. Avenue Dundalk		Brown sandy gravelly CLAY
Test No.	PBT34- Reload		
Location	See Site Map		
Depth	0.5 BGL		
Client	DBFL Consulting Engineers		
Plate Diameter:	450 mm		
Test Method	BS 1377: Part 9: 1990 Test4 - Incremental Loading Test		
Technician	P.R.	Sample Ref No.	_____ m bgl
Authorised by		Depth	_____ m bgl
Date	14/01/2025		

Pressure / Settlement

Pressure (kN/m ²)	Settlement (mm) - Solid Line	Settlement (mm) - Dashed Line
0	0.00	-0.55
20	-0.15	-0.70
40	-0.30	-0.85
60	-0.45	-1.00
80	-0.60	-1.15
100	-0.75	-1.25

Gradient at 1.25 mm settlement intersection = 82

Modulus of subgrade reaction = 52 MPa/m

Correction factor applied = 0.64 as per HD 25-26/10

Equivalent CBR value in accordance with NRA HD25-26/10

9.2 %

PLATE TEST REPORT SHEET (F3.1)		Applied Pressure/Settlement Curve	
Reference No.	R164827		Description of soil under test (natural soil, placed fill, sub-base)
Contract	Mt. Avenue Dundalk		Brown sandy gravelly CLAY
Test No.	PBT35- Load		
Location	See Site Map		
Depth	0.8 BGL		
Client	DBFL Consulting Engineers		
Plate Diameter:	450 mm		
Test Method	BS 1377: Part 9: 1990 Test4 - Incremental Loading Test		
Technician	P.R.		
Authorised by			
Date	14/01/2025		
		Sample Ref No. _____	Depth _____ m bgl

Pressure / Settlement

Pressure (kN/m ²)	Settlement (mm) - Solid Line	Settlement (mm) - Dashed Line
0	0.00	0.00
20	-0.5	-0.8
30	-1.2	-1.5
35	-	-1.8
40	-3.2	-
70	-5.8	-
100	-8.8	-

Gradient at 1.25 mm settlement intersection = 25

Modulus of subgrade reaction = 16 MPa/m

Correction factor applied = 0.64 as per HD 25-26/10

Equivalent CBR value in accordance with NRA HD25-26/10

1.2 %

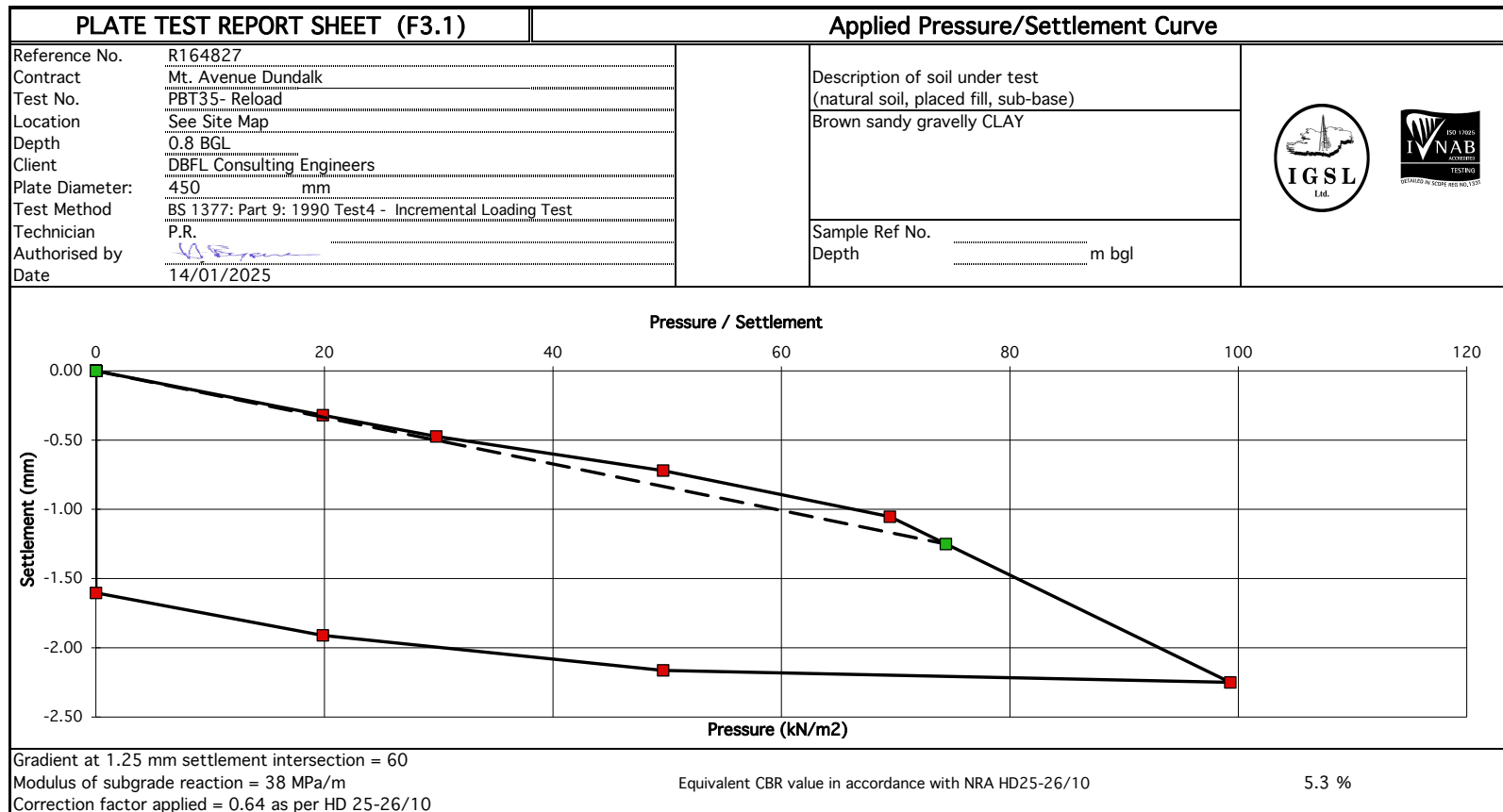


PLATE TEST REPORT SHEET (F3.1)		Applied Pressure/Settlement Curve	
Reference No.	R164828		Description of soil under test (natural soil, placed fill, sub-base)
Contract	Mt. Avenue Dundalk		Brown sandy gravelly CLAY
Test No.	PBT36- Load		
Location	See Site Map		
Depth	0.4m		
Client	DBFL Consulting Engineers		
Plate Diameter:	450 mm		
Test Method	BS 1377: Part 9: 1990 Test4 - Incremental Loading Test		
Technician	P.R.		
Authorised by			
Date	22/01/2025		
		Sample Ref No. _____	Depth _____ m bgl

Pressure / Settlement

Pressure (kN/m ²)	Settlement (mm) - Upper Curve	Settlement (mm) - Lower Curve
0	0.00	-2.00
20	-0.20	-2.70
30	-0.40	-2.75
50	-0.90	-2.80
70	-1.90	-2.85
100	-2.90	-2.90

Gradient at 1.25 mm settlement intersection = 45

Modulus of subgrade reaction = 29 MPa/m

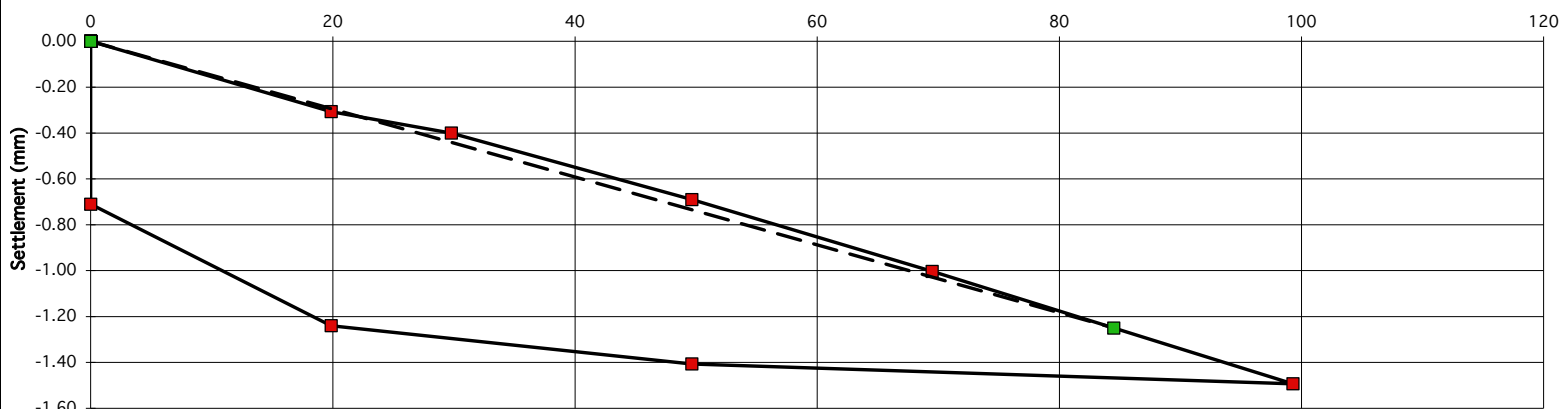
Correction factor applied = 0.64 as per HD 25-26/10

Equivalent CBR value in accordance with NRA HD25-26/10

3.3 %

PLATE TEST REPORT SHEET (F3.1)		Applied Pressure/Settlement Curve	
Reference No.	R164828		Description of soil under test (natural soil, placed fill, sub-base)
Contract	Mt. Avenue Dundalk		Brown sandy gravelly CLAY
Test No.	PBT36- Reload		
Location	See Site Map		 
Depth	0.4m		
Client	DBFL Consulting Engineers		
Plate Diameter:	450 mm		
Test Method	BS 1377: Part 9: 1990 Test4 - Incremental Loading Test		
Technician	P.R.		Sample Ref No. _____
Authorised by			Depth _____ m bgl
Date	22/01/2025		

Pressure / Settlement



Pressure (kN/m²)

Gradient at 1.25 mm settlement intersection = 68	Equivalent CBR value in accordance with NRA HD25-26/10	6.7 %
Modulus of subgrade reaction = 43 MPa/m		
Correction factor applied = 0.64 as per HD 25-26/10		

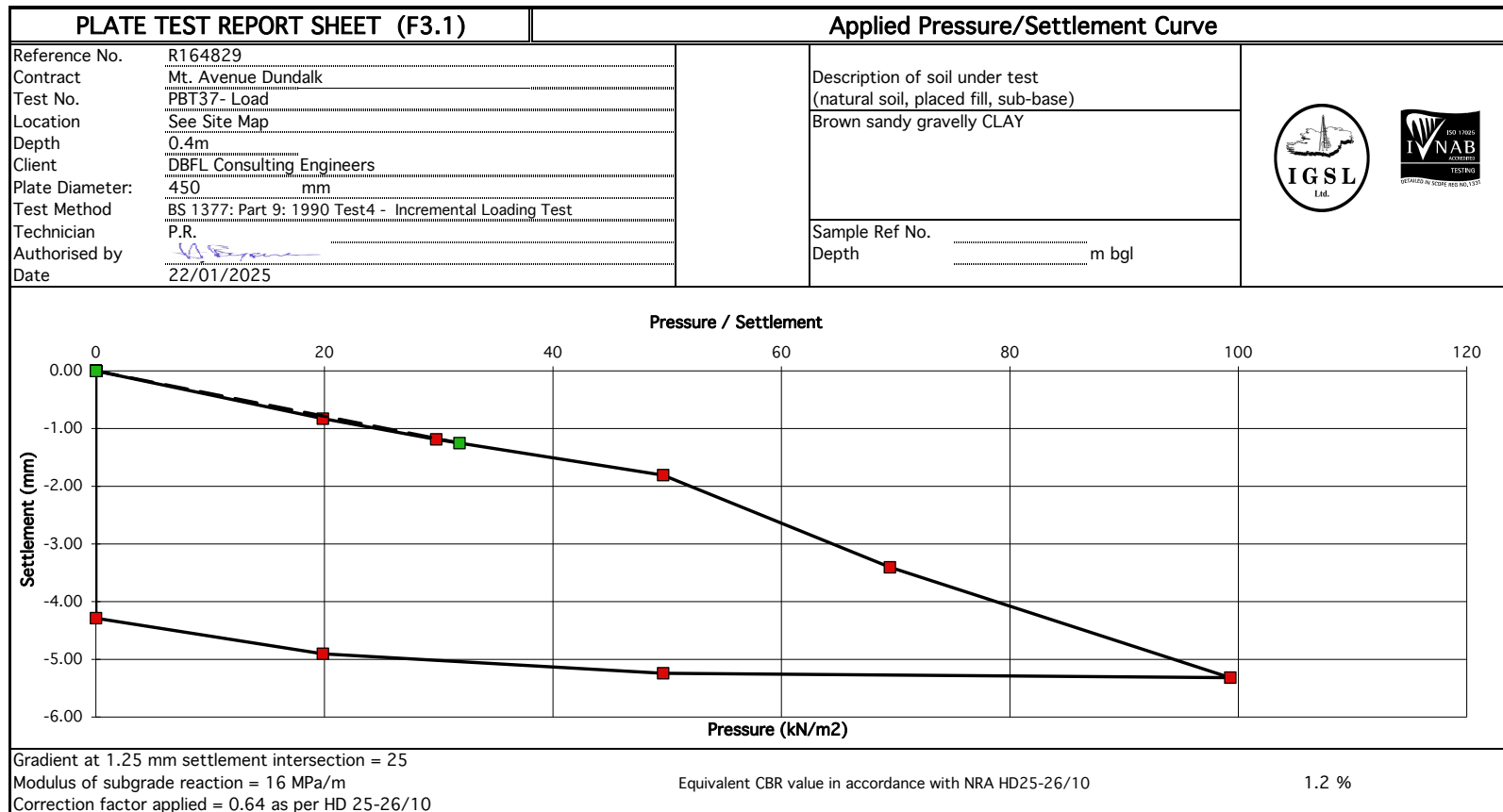


PLATE TEST REPORT SHEET (F3.1)		Applied Pressure/Settlement Curve	
Reference No.	R164829		Description of soil under test (natural soil, placed fill, sub-base)
Contract	Mt. Avenue Dundalk		Brown sandy gravelly CLAY
Test No.	PBT37- Reload		
Location	See Site Map		
Depth	0.4m		
Client	DBFL Consulting Engineers		
Plate Diameter:	450 mm		
Test Method	BS 1377: Part 9: 1990 Test4 - Incremental Loading Test		
Technician	P.R.		
Authorised by			
Date	22/01/2025		
		Sample Ref No. _____	Depth _____ m bgl

Pressure / Settlement

Pressure (kN/m ²)	Settlement (mm) - Solid Line	Settlement (mm) - Dashed Line
0	0.00	0.00
20	-0.15	-0.30
30	-0.20	-0.40
50	-0.75	-0.80
70	-1.10	-1.10
80	-1.25	-1.25
100	-1.85	-

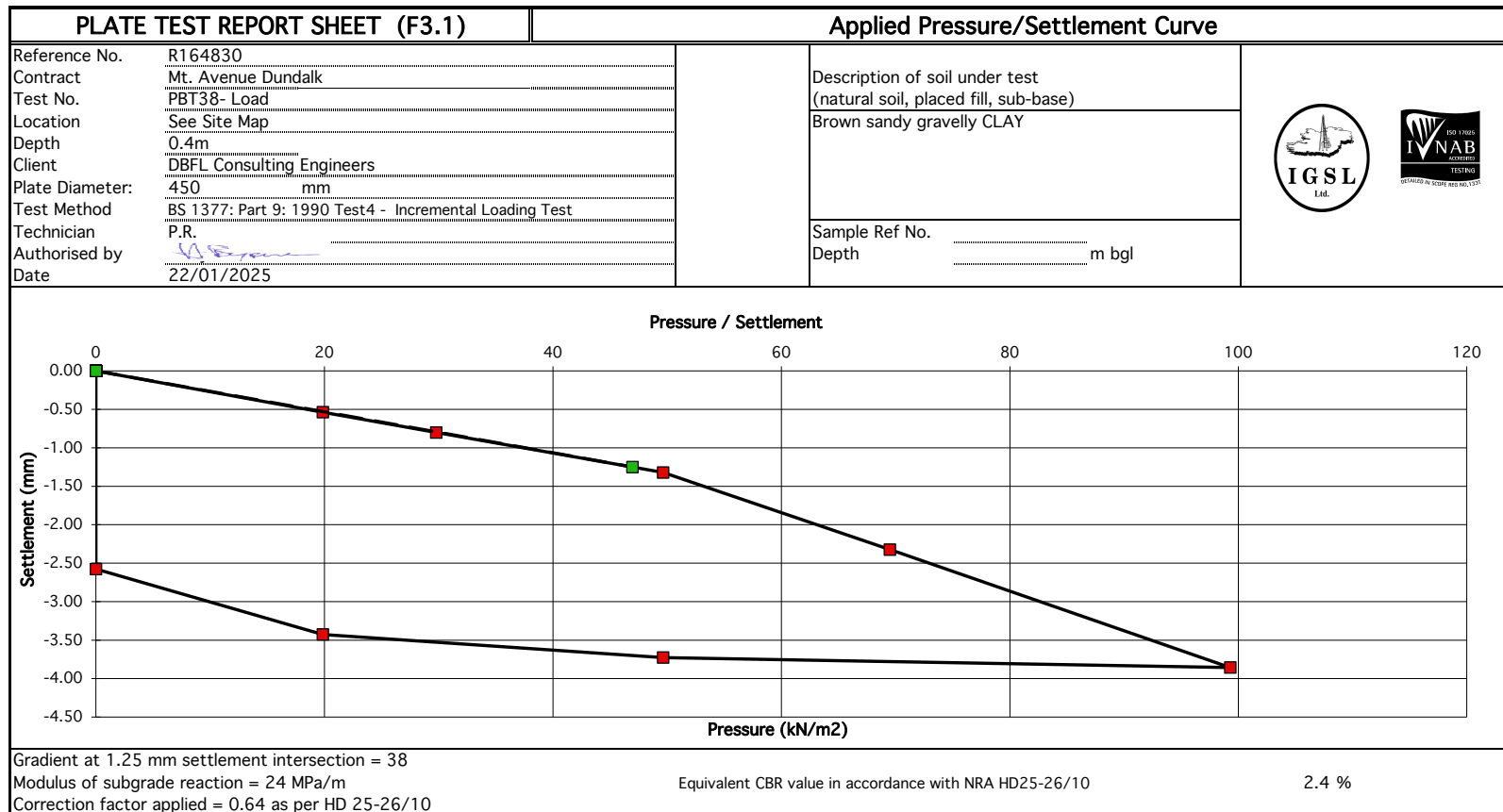
Gradient at 1.25 mm settlement intersection = 60

Modulus of subgrade reaction = 39 MPa/m

Correction factor applied = 0.64 as per HD 25-26/10

Equivalent CBR value in accordance with NRA HD25-26/10

5.4 %



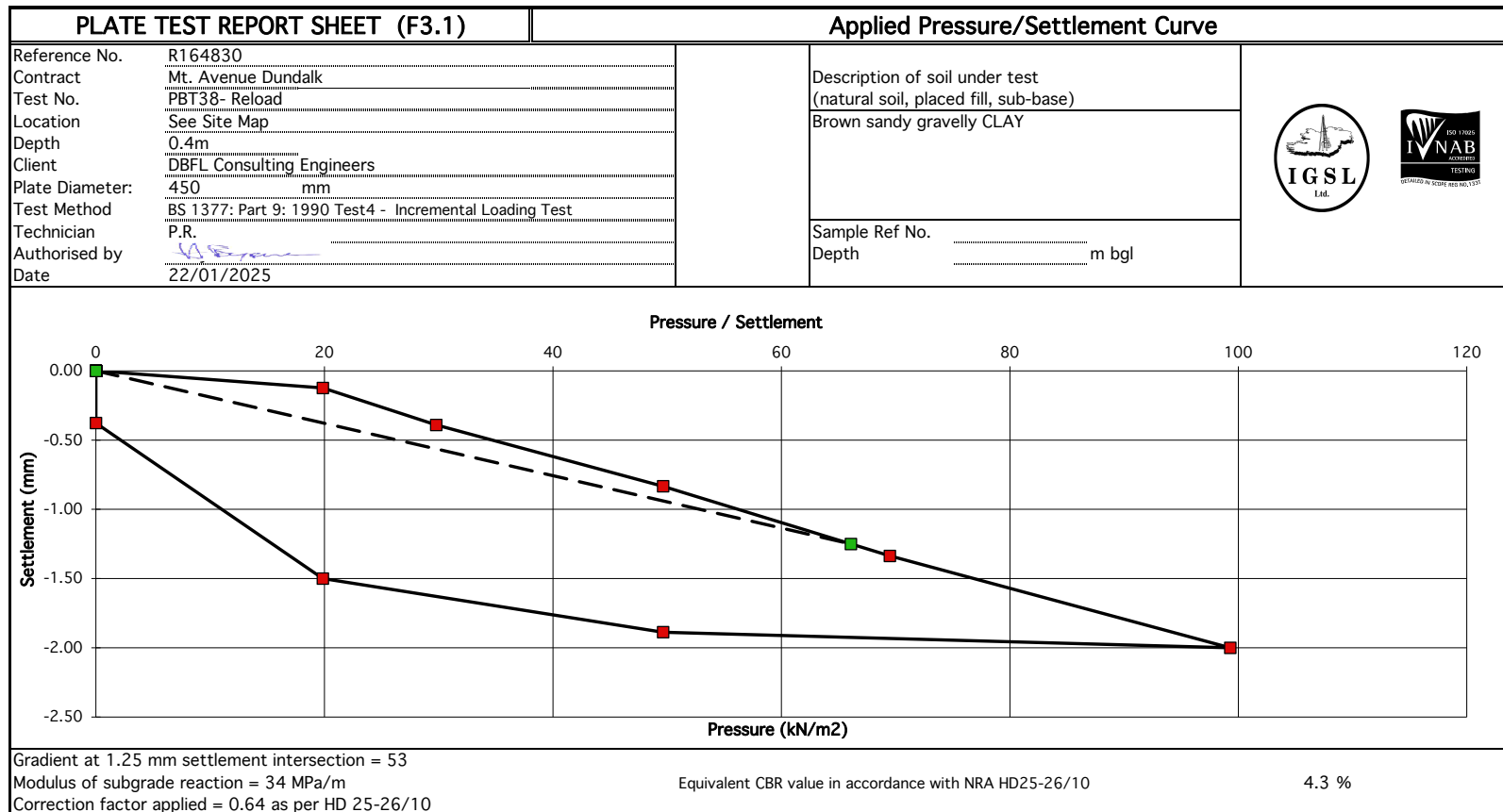
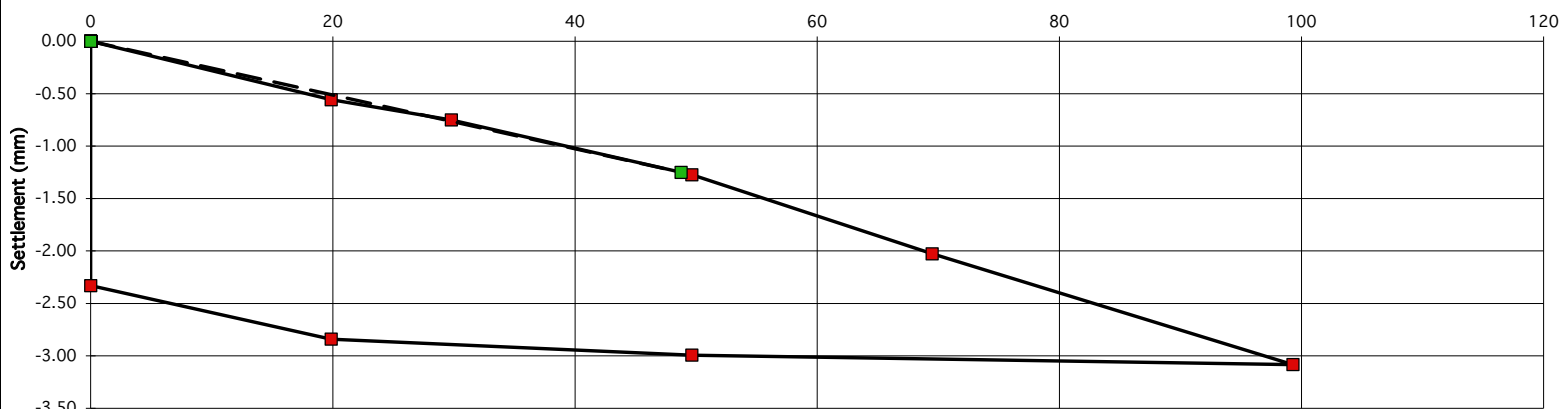


PLATE TEST REPORT SHEET (F3.1)		Applied Pressure/Settlement Curve	
Reference No.	R164831		Description of soil under test (natural soil, placed fill, sub-base)
Contract	Mt. Avenue Dundalk		Brown sandy gravelly CLAY
Test No.	PBT39- Load		
Location	See Site Map		
Depth	0.4m		
Client	DBFL Consulting Engineers		
Plate Diameter:	450 mm		
Test Method	BS 1377: Part 9: 1990 Test4 - Incremental Loading Test		
Technician	P.R.		
Authorised by			
Date	22/01/2025		
		Sample Ref No. _____	Depth _____ m bgl




Pressure / Settlement



Pressure (kN/m ²)	Settlement (mm) - Series 1	Settlement (mm) - Series 2
0	0.00	-2.30
20	-0.60	-2.85
40	-1.20	-3.00
60	-1.80	-3.00
80	-2.40	-3.00
100	-3.00	-3.00
120	-3.00	-3.00

Gradient at 1.25 mm settlement intersection = 39

Modulus of subgrade reaction = 25 MPa/m

Correction factor applied = 0.64 as per HD 25-26/10

Equivalent CBR value in accordance with NRA HD25-26/10

2.6 %

PLATE TEST REPORT SHEET (F3.1)		Applied Pressure/Settlement Curve	
Reference No.	R164831		Description of soil under test (natural soil, placed fill, sub-base)
Contract	Mt. Avenue Dundalk		Brown sandy gravelly CLAY
Test No.	PBT39- Reload		
Location	See Site Map		
Depth	0.4m		
Client	DBFL Consulting Engineers		
Plate Diameter:	450 mm		
Test Method	BS 1377: Part 9: 1990 Test4 - Incremental Loading Test		
Technician	P.R.		
Authorised by			
Date	22/01/2025		
		Sample Ref No. _____	Depth _____ m bgl

Pressure / Settlement

Pressure (kN/m ²)	Settlement (mm) - Solid Line	Settlement (mm) - Dashed Line
0	0.00	0.00
20	-0.10	-0.15
30	-0.20	-0.30
50	-0.45	-0.55
70	-0.75	-0.85
90	-1.05	-1.10
110	-1.25	-1.25

Gradient at 1.25 mm settlement intersection = 79

Modulus of subgrade reaction = 51 MPa/m

Correction factor applied = 0.64 as per HD 25-26/10

Equivalent CBR value in accordance with NRA HD25-26/10

8.7 %

PLATE TEST REPORT SHEET (F3.1)		Applied Pressure/Settlement Curve	
Reference No.	R164832		Description of soil under test (natural soil, placed fill, sub-base)
Contract	Mt. Avenue Dundalk		Brown sandy gravelly CLAY
Test No.	PBT40- Load		
Location	See Site Map		
Depth	0.4m		
Client	DBFL Consulting Engineers		
Plate Diameter:	450 mm		
Test Method	BS 1377: Part 9: 1990 Test4 - Incremental Loading Test		
Technician	P.R.		
Authorised by			
Date	22/01/2025		
		Sample Ref No. _____	Depth _____ m bgl

Pressure / Settlement

Pressure (kN/m2)

Gradient at 1.25 mm settlement intersection = 49

Modulus of subgrade reaction = 31 MPa/m

Correction factor applied = 0.64 as per HD 25-26/10

Equivalent CBR value in accordance with NRA HD25-26/10

3.7 %

PLATE TEST REPORT SHEET (F3.1)		Applied Pressure/Settlement Curve	
Reference No.	R164832		Description of soil under test (natural soil, placed fill, sub-base)
Contract	Mt. Avenue Dundalk		Brown sandy gravelly CLAY
Test No.	PBT40- Reload		
Location	See Site Map		
Depth	0.4m		
Client	DBFL Consulting Engineers		
Plate Diameter:	450 mm		
Test Method	BS 1377: Part 9: 1990 Test4 - Incremental Loading Test		
Technician	P.R.	Sample Ref No.	
Authorised by		Depth	m bgl
Date	22/01/2025		

Pressure / Settlement

Pressure (kN/m ²)	Settlement (mm) - Red Series	Settlement (mm) - Green Series
0	0.00	-0.40
20	-0.15	-1.35
30	-0.30	-
40	-0.75	-
50	-1.70	-
70	-	-1.15
80	-	-1.25
110	-1.80	-1.80

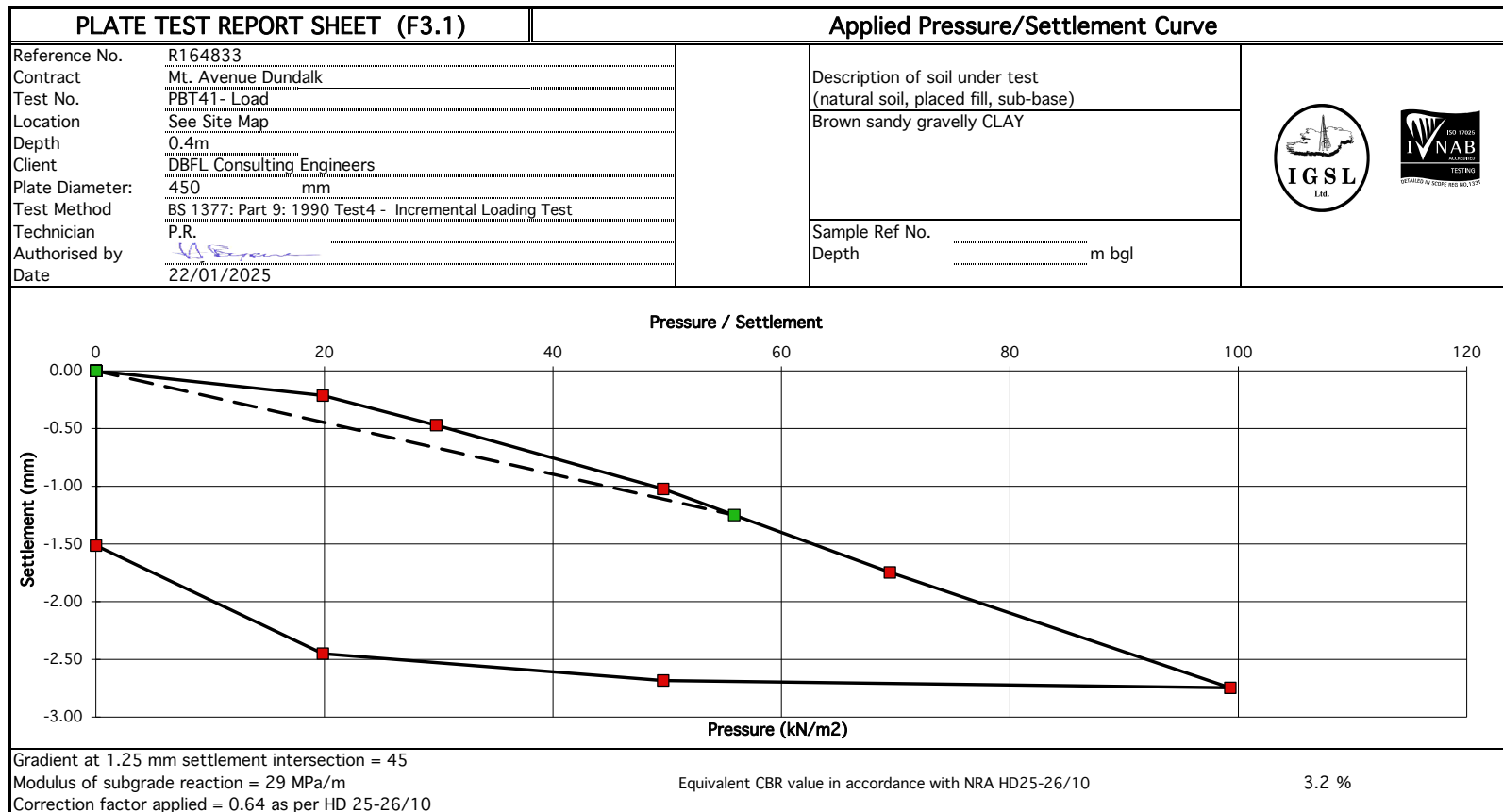
Gradient at 1.25 mm settlement intersection = 61

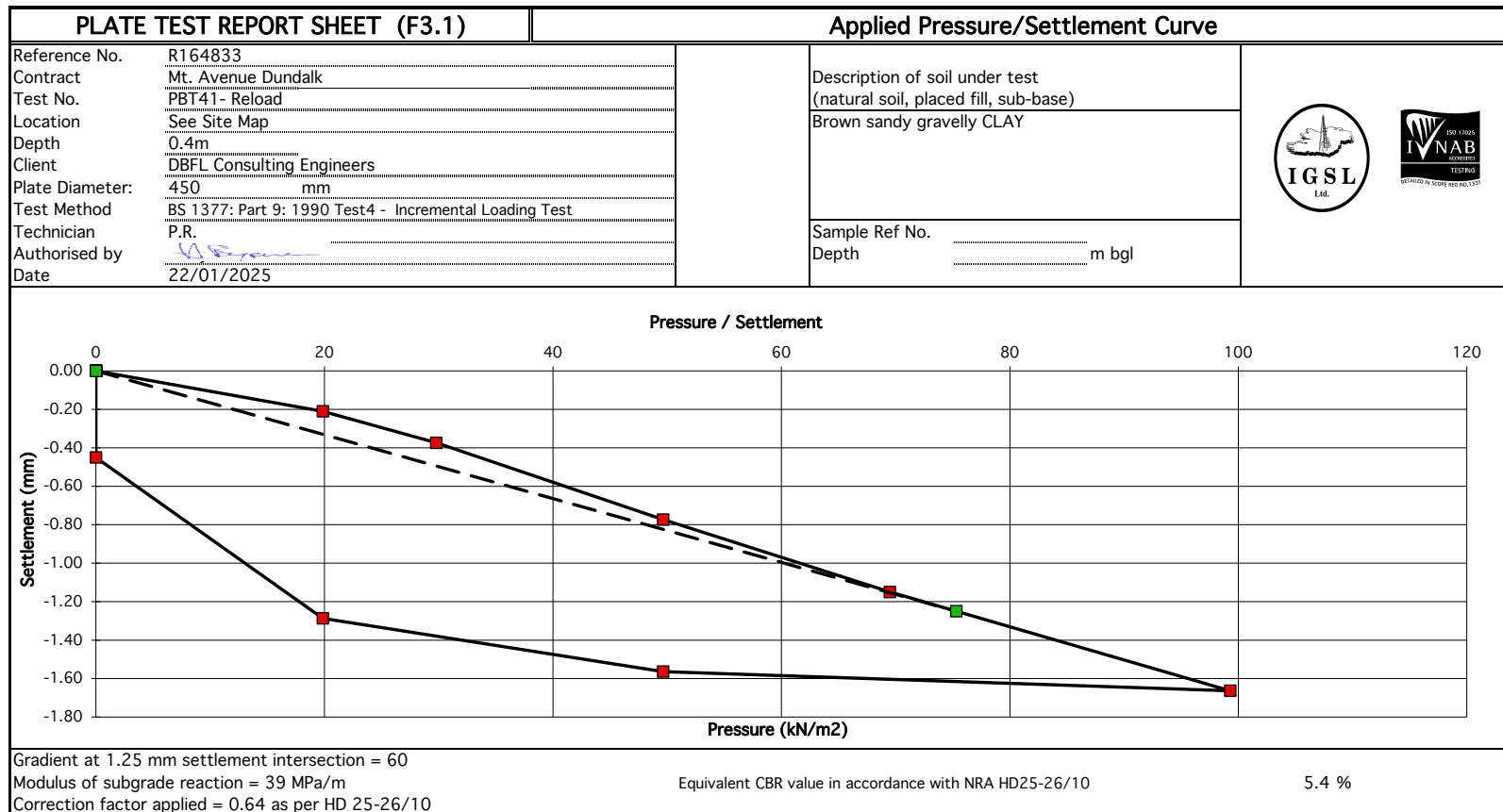
Modulus of subgrade reaction = 39 MPa/m

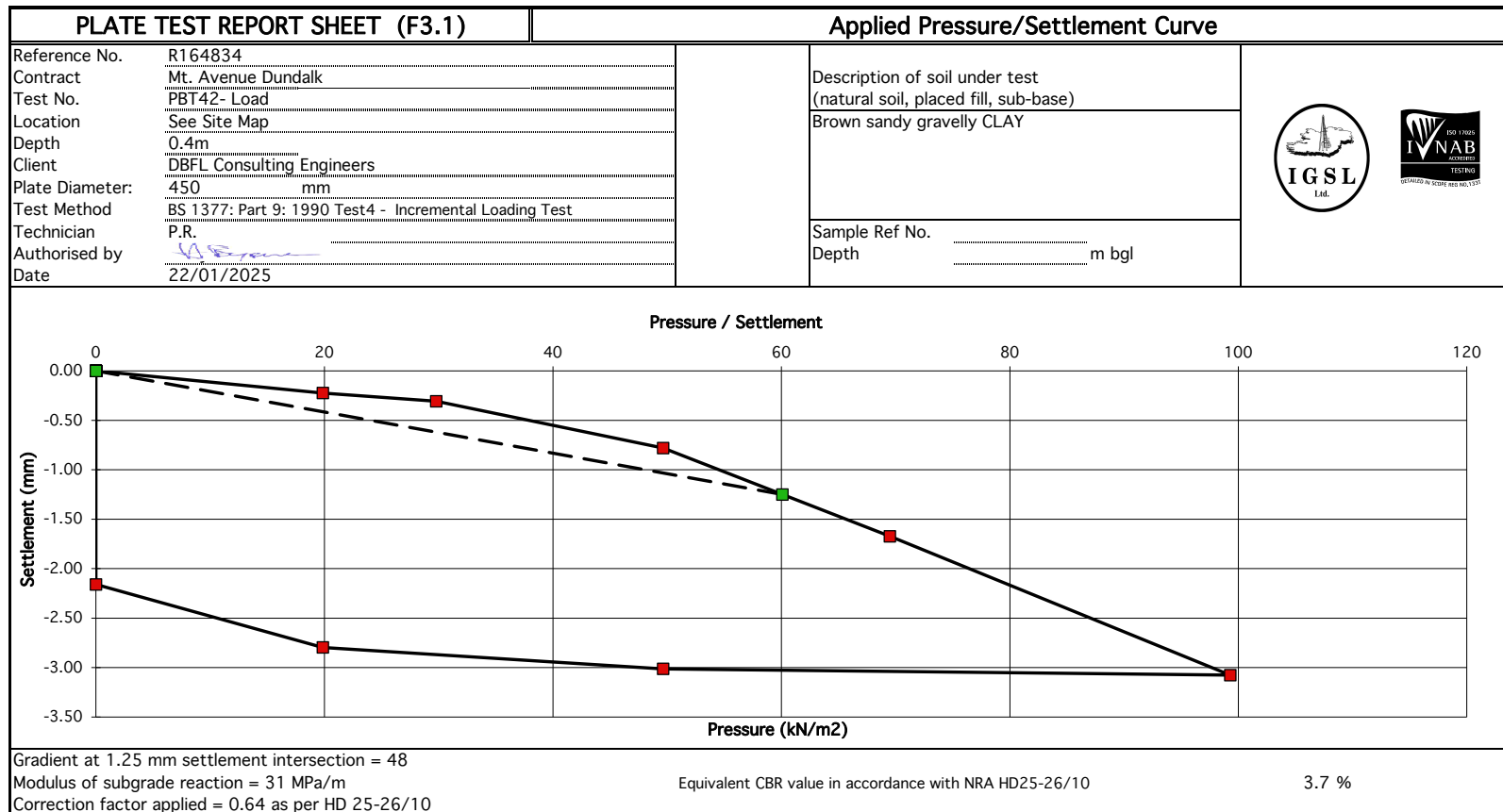
Correction factor applied = 0.64 as per HD 25-26/10

Equivalent CBR value in accordance with NRA HD25-26/10

5.5 %







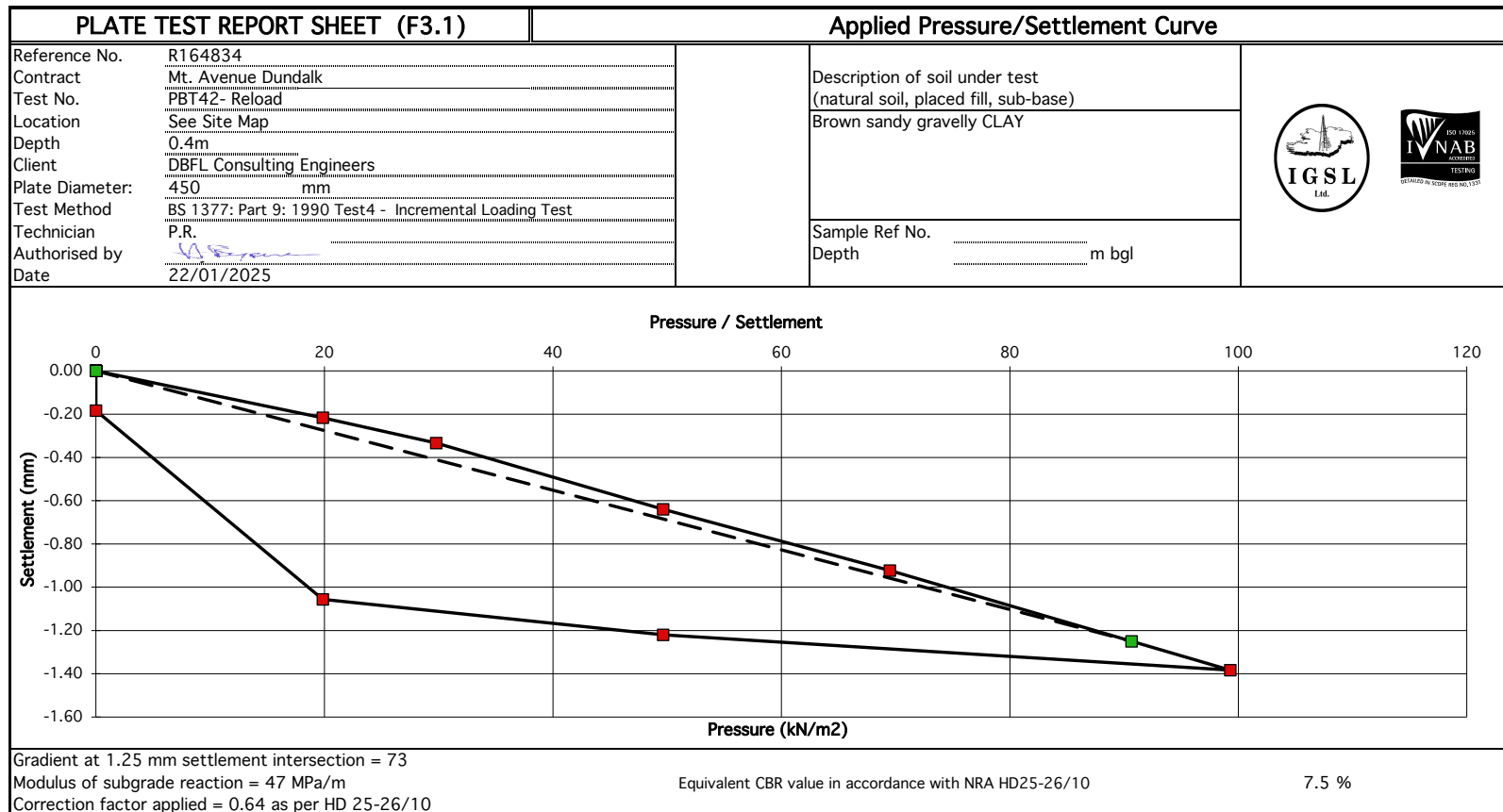


PLATE TEST REPORT SHEET (F3.1)		Applied Pressure/Settlement Curve	
Reference No.	R164835		Description of soil under test (natural soil, placed fill, sub-base)
Contract	Mt. Avenue Dundalk		Brown sandy gravelly CLAY
Test No.	PBT43- Load		
Location	See Site Map		
Depth	0.3m		
Client	DBFL Consulting Engineers		
Plate Diameter:	450 mm		
Test Method	BS 1377: Part 9: 1990 Test4 - Incremental Loading Test		
Technician	P.R.	Sample Ref No.	
Authorised by		Depth	m bgl
Date	21/01/2025		

Pressure / Settlement

Pressure (kN/m ²)	Settlement (mm) - Dashed Line (Green Squares)	Settlement (mm) - Solid Line (Red Squares)
0	0.00	-2.00
20	-0.70	-3.30
30	-1.20	
50	-1.70	-3.70
70	-2.60	
100	-3.80	-3.90

Gradient at 1.25 mm settlement intersection = 24

Modulus of subgrade reaction = 15 MPa/m

Correction factor applied = 0.64 as per HD 25-26/10

Equivalent CBR value in accordance with NRA HD25-26/10

1.1 %

PLATE TEST REPORT SHEET (F3.1)		Applied Pressure/Settlement Curve	
Reference No.	R164835		Description of soil under test (natural soil, placed fill, sub-base)
Contract	Mt. Avenue Dundalk		Brown sandy gravelly CLAY
Test No.	PBT43- Reload		
Location	See Site Map		
Depth	0.3m		
Client	DBFL Consulting Engineers		
Plate Diameter:	450 mm		
Test Method	BS 1377: Part 9: 1990 Test4 - Incremental Loading Test		
Technician	P.R.		
Authorised by			
Date	21/01/2025		
		Sample Ref No. _____	Depth _____ m bgl

Pressure / Settlement

Pressure (kN/m ²)	Settlement (mm) - Solid Line	Settlement (mm) - Dashed Line
0	0.00	0.00
20	-0.75	-0.40
40	-1.75	-0.80
60	-2.25	-1.20
80	-2.35	-1.60
100	-2.40	-2.40

Gradient at 1.25 mm settlement intersection = 38

Modulus of subgrade reaction = 25 MPa/m

Correction factor applied = 0.64 as per HD 25-26/10

Equivalent CBR value in accordance with NRA HD25-26/10

2.5 %

PLATE TEST REPORT SHEET (F3.1)		Applied Pressure/Settlement Curve	
Reference No.	R164836		Description of soil under test (natural soil, placed fill, sub-base)
Contract	Mt. Avenue Dundalk		Brown sandy gravelly CLAY
Test No.	PBT44- Load		
Location	See Site Map		
Depth	0.3m		
Client	DBFL Consulting Engineers		
Plate Diameter:	450 mm		
Test Method	BS 1377: Part 9: 1990 Test4 - Incremental Loading Test		
Technician	P.R.		
Authorised by			
Date	20/01/2025		
		Sample Ref No. _____	Depth _____ m bgl

Pressure / Settlement

Pressure (kN/m ²)	Settlement (mm) - Dashed Curve	Settlement (mm) - Solid Curve
0	0.00	-2.50
20	-0.60	-2.80
30	-0.90	-2.90
45	-1.30	-3.00
50	-1.40	-3.00
70	-2.00	-3.00
100	-3.00	-3.00

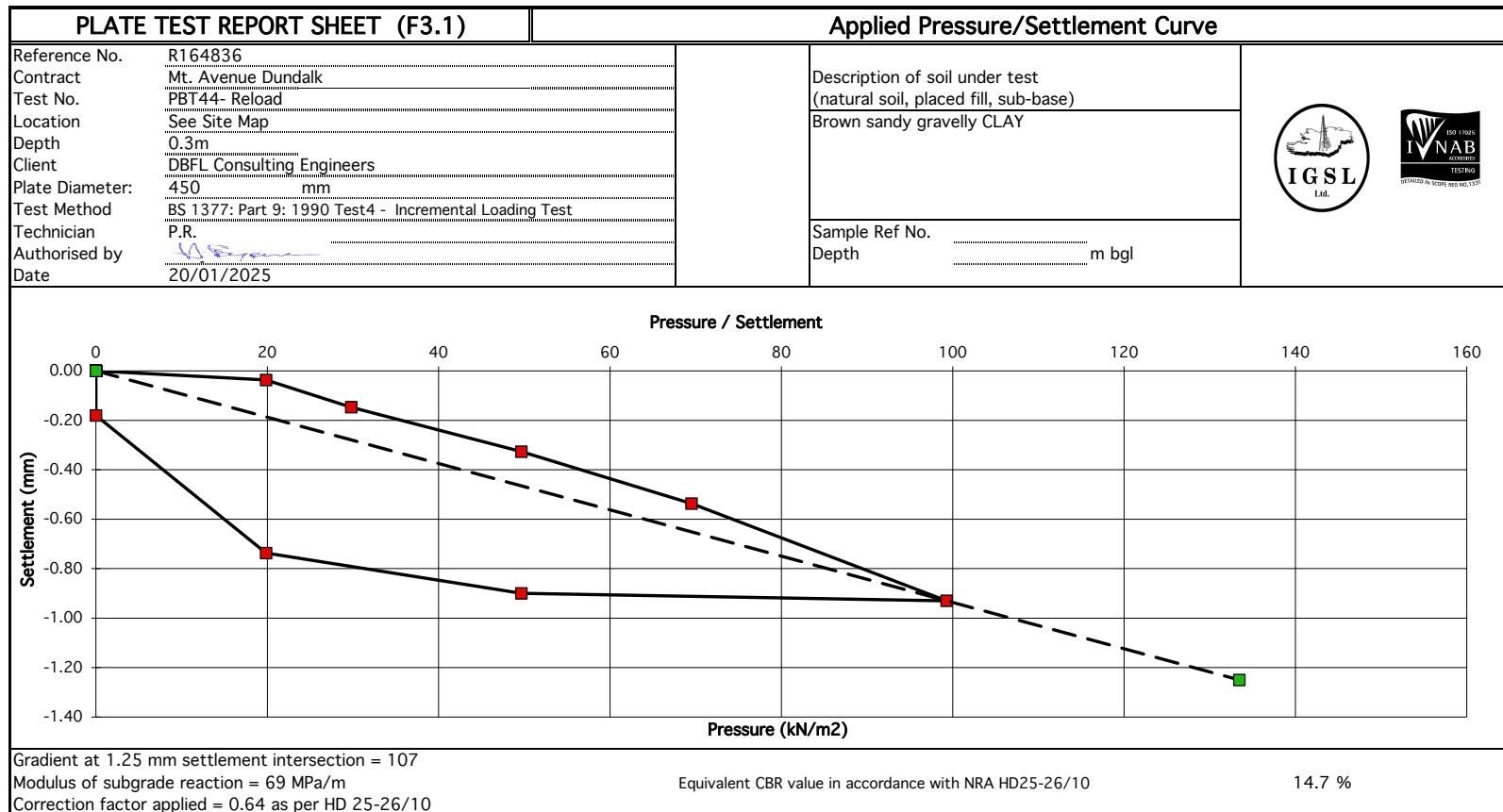
Gradient at 1.25 mm settlement intersection = 37

Modulus of subgrade reaction = 24 MPa/m

Correction factor applied = 0.64 as per HD 25-26/10

Equivalent CBR value in accordance with NRA HD25-26/10

2.4 %



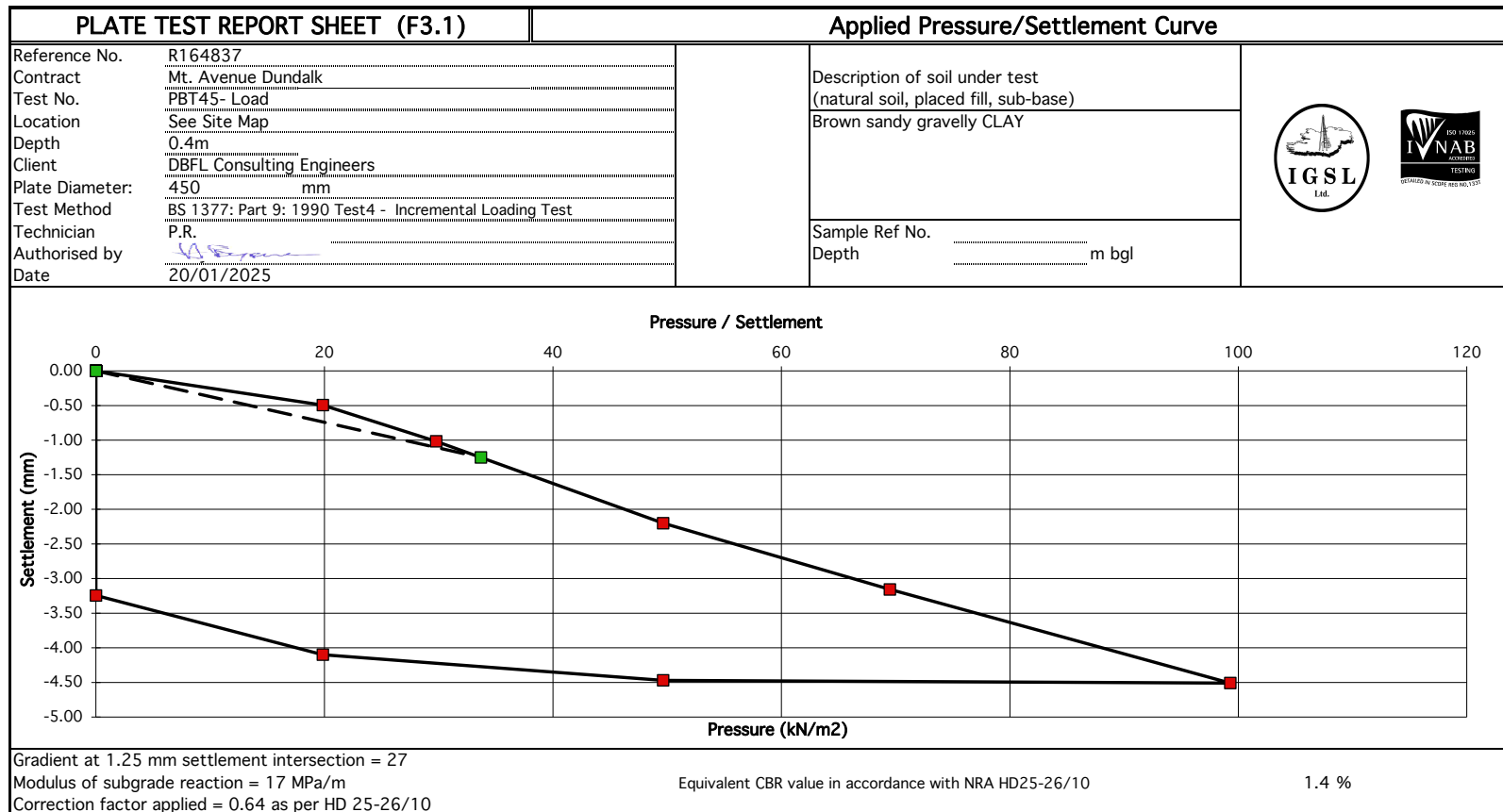
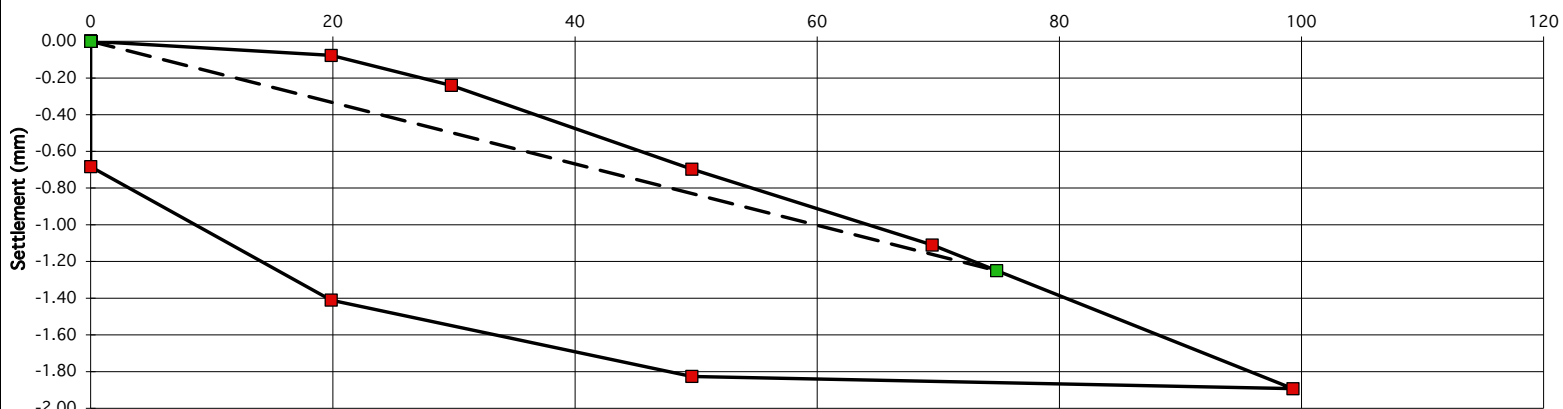


PLATE TEST REPORT SHEET (F3.1)		Applied Pressure/Settlement Curve	
Reference No.	R164837		Description of soil under test (natural soil, placed fill, sub-base)
Contract	Mt. Avenue Dundalk		Brown sandy gravelly CLAY
Test No.	PBT45- Reload		
Location	See Site Map		 
Depth	0.4m		
Client	DBFL Consulting Engineers		
Plate Diameter:	450 mm		
Test Method	BS 1377: Part 9: 1990 Test4 - Incremental Loading Test		
Technician	P.R.		Sample Ref No. _____
Authorised by			Depth _____ m bgl
Date	20/01/2025		

Pressure / Settlement



Pressure (kN/m ²)	Settlement (mm) - Initial	Settlement (mm) - Reload
0	0.00	-0.70
20	-0.15	-1.40
30	-0.25	-1.60
50	-0.45	-1.80
70	-0.70	-1.80
80	-0.90	-1.80
100	-1.20	-1.80
110	-1.40	-1.80

Gradient at 1.25 mm settlement intersection = 60		
Modulus of subgrade reaction = 38 MPa/m	Equivalent CBR value in accordance with NRA HD25-26/10	5.4 %
Correction factor applied = 0.64 as per HD 25-26/10		

PLATE TEST REPORT SHEET (F3.1)		Applied Pressure/Settlement Curve	
Reference No.	R164838		Description of soil under test (natural soil, placed fill, sub-base)
Contract	Mt. Avenue Dundalk		Brown sandy gravelly CLAY
Test No.	PBT46- Load		
Location	See Site Map		
Depth	0.3m		
Client	DBFL Consulting Engineers		
Plate Diameter:	450 mm		
Test Method	BS 1377: Part 9: 1990 Test4 - Incremental Loading Test		
Technician	P.R.	Sample Ref No.	_____ m bgl
Authorised by		Depth	_____ m bgl
Date	21/01/2025		

Pressure / Settlement

Pressure (kN/m ²)	Settlement (mm) - Solid Line	Settlement (mm) - Dashed Line
0	0.00	0.00
20	-0.40	-0.40
30	-0.70	-0.70
50	-1.30	-1.30
70	-1.90	-
100	-3.00	-3.00

Gradient at 1.25 mm settlement intersection = 40

Modulus of subgrade reaction = 26 MPa/m

Correction factor applied = 0.64 as per HD 25-26/10

Equivalent CBR value in accordance with NRA HD25-26/10

2.7 %

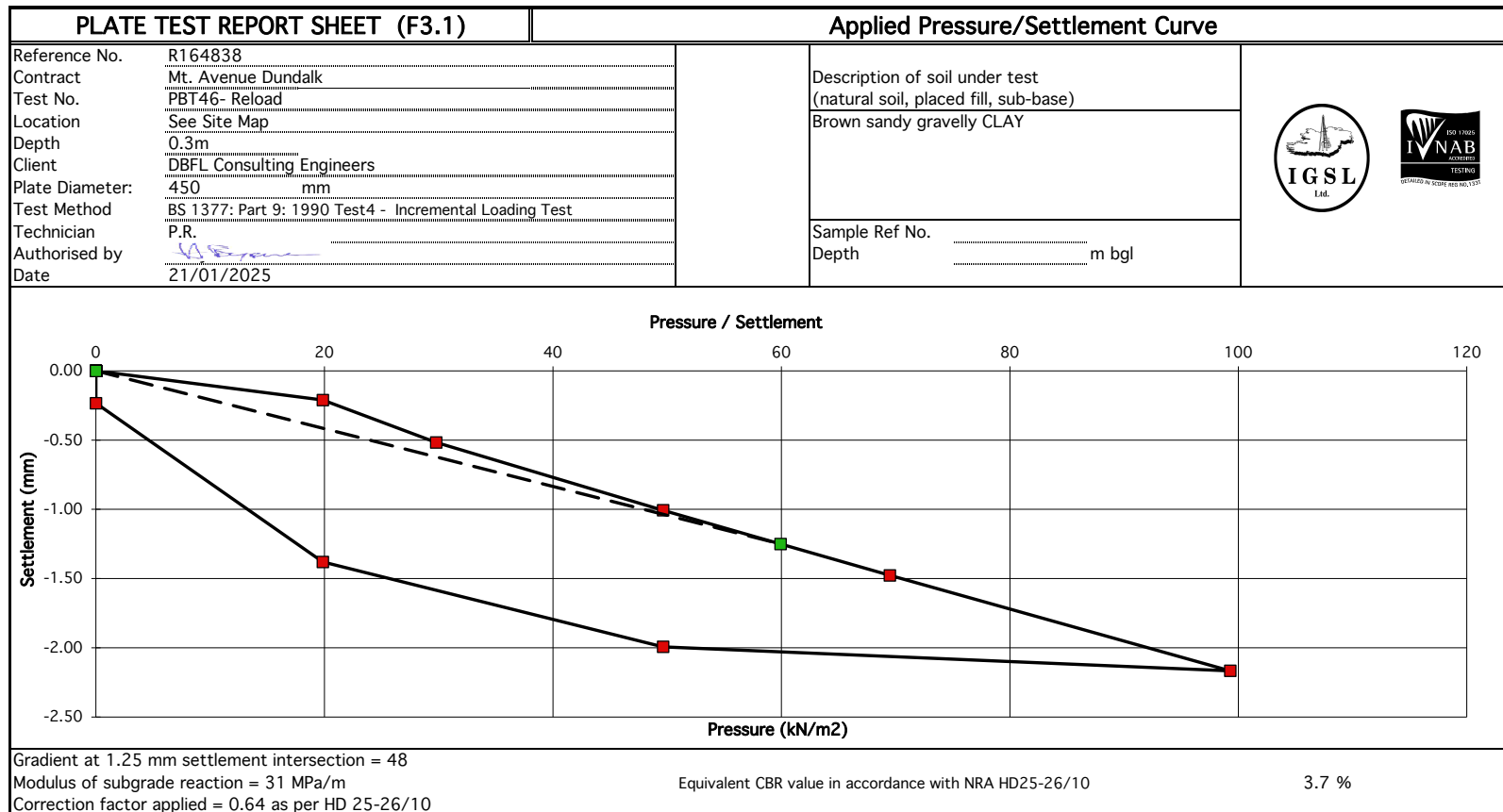


PLATE TEST REPORT SHEET (F3.1)		Applied Pressure/Settlement Curve	
Reference No.	R164839		Description of soil under test (natural soil, placed fill, sub-base)
Contract	Mt. Avenue Dundalk		Brown sandy gravelly CLAY
Test No.	PBT47- Load		
Location	See Site Map		
Depth	0.4m		
Client	DBFL Consulting Engineers		
Plate Diameter:	450 mm		
Test Method	BS 1377: Part 9: 1990 Test4 - Incremental Loading Test		
Technician	P.R.		
Authorised by			
Date	21/01/2025		
		Sample Ref No. _____	Depth _____ m bgl

Pressure / Settlement

Pressure (kN/m ²)	Settlement (mm) - Solid Line	Settlement (mm) - Dashed Line
0	0.00	0.00
20	-0.20	-0.40
30	-0.40	-0.60
50	-1.00	-1.20
70	-1.80	-
100	-2.90	-2.90

Gradient at 1.25 mm settlement intersection = 45

Modulus of subgrade reaction = 29 MPa/m

Correction factor applied = 0.64 as per HD 25-26/10

Equivalent CBR value in accordance with NRA HD25-26/10

3.2 %

PLATE TEST REPORT SHEET (F3.1)		Applied Pressure/Settlement Curve	
Reference No.	R164839		Description of soil under test (natural soil, placed fill, sub-base)
Contract	Mt. Avenue Dundalk		Brown sandy gravelly CLAY
Test No.	PBT47- Reload		
Location	See Site Map		
Depth	0.4m		
Client	DBFL Consulting Engineers		
Plate Diameter:	450 mm		
Test Method	BS 1377: Part 9: 1990 Test4 - Incremental Loading Test		
Technician	P.R.		
Authorised by			
Date	21/01/2025		
		Sample Ref No. _____	Depth _____ m bgl

Pressure / Settlement

Pressure (kN/m2)

Gradient at 1.25 mm settlement intersection = 98

Modulus of subgrade reaction = 63 MPa/m

Correction factor applied = 0.64 as per HD 25-26/10

Equivalent CBR value in accordance with NRA HD25-26/10

12.7 %

PLATE TEST REPORT SHEET (F3.1)		Applied Pressure/Settlement Curve	
Reference No.	R164840		Description of soil under test (natural soil, placed fill, sub-base)
Contract	Mt. Avenue Dundalk		Brown sandy gravelly CLAY
Test No.	PBT48- Load		
Location	See Site Map		
Depth	0.3m		
Client	DBFL Consulting Engineers		
Plate Diameter:	450 mm		
Test Method	BS 1377: Part 9: 1990 Test4 - Incremental Loading Test		
Technician	P.R.		
Authorised by		Sample Ref No.	_____ m bgl
Date	20/01/2025	Depth	_____ m bgl

Pressure / Settlement

Pressure (kN/m ²)	Settlement (mm) - Upper Curve	Settlement (mm) - Lower Curve
0	0.00	-3.20
20	-0.20	-3.60
30	-0.50	
45	-1.20	
55	-1.60	-3.80
75	-2.60	
100	-3.90	-3.90

Gradient at 1.25 mm settlement intersection = 35

Modulus of subgrade reaction = 22 MPa/m

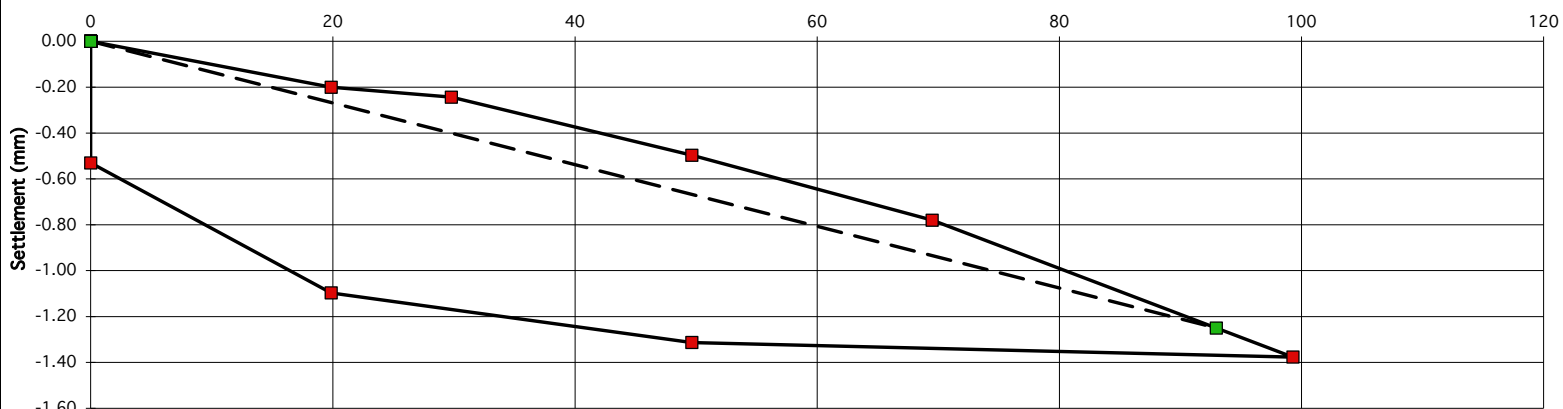
Correction factor applied = 0.64 as per HD 25-26/10

Equivalent CBR value in accordance with NRA HD25-26/10

2.1 %

PLATE TEST REPORT SHEET (F3.1)		Applied Pressure/Settlement Curve	
Reference No.	R164840		Description of soil under test (natural soil, placed fill, sub-base)
Contract	Mt. Avenue Dundalk		Brown sandy gravelly CLAY
Test No.	PBT48- Reload		
Location	See Site Map		 
Depth	0.3m		
Client	DBFL Consulting Engineers		
Plate Diameter:	450 mm		
Test Method	BS 1377: Part 9: 1990 Test4 - Incremental Loading Test		
Technician	P.R.		
Authorised by			Sample Ref No. _____
Date	20/01/2025		Depth _____ m bgl

Pressure / Settlement



Pressure (kN/m ²)	Settlement (mm) - Solid Line	Settlement (mm) - Dashed Line
0	0.00	0.00
20	-0.20	-0.25
30	-0.25	-0.35
50	-0.50	-0.60
70	-0.80	-0.90
100	-1.40	-1.35

Gradient at 1.25 mm settlement intersection = 74	Equivalent CBR value in accordance with NRA HD25-26/10	7.9 %
Modulus of subgrade reaction = 48 MPa/m		
Correction factor applied = 0.64 as per HD 25-26/10		

PLATE TEST REPORT SHEET (F3.1)		Applied Pressure/Settlement Curve	
Reference No.	R164841		Description of soil under test (natural soil, placed fill, sub-base)
Contract	Mt. Avenue Dundalk		Brown sandy gravelly CLAY
Test No.	PBT49- Load		
Location	See Site Map		
Depth	0.4m		
Client	DBFL Consulting Engineers		
Plate Diameter:	450 mm		
Test Method	BS 1377: Part 9: 1990 Test4 - Incremental Loading Test		
Technician	P.R.		
Authorised by			
Date	21/01/2025		
		Sample Ref No. _____	Depth _____ m bgl

Pressure / Settlement

Pressure (kN/m ²)	Settlement (mm) - Top Curve	Settlement (mm) - Bottom Curve
0	0.00	-3.50
20	-0.50	-4.00
30	-0.80	-
45	-1.30	-
50	-1.50	-4.30
75	-2.50	-
100	-4.50	-4.50

Gradient at 1.25 mm settlement intersection = 34

Modulus of subgrade reaction = 22 MPa/m

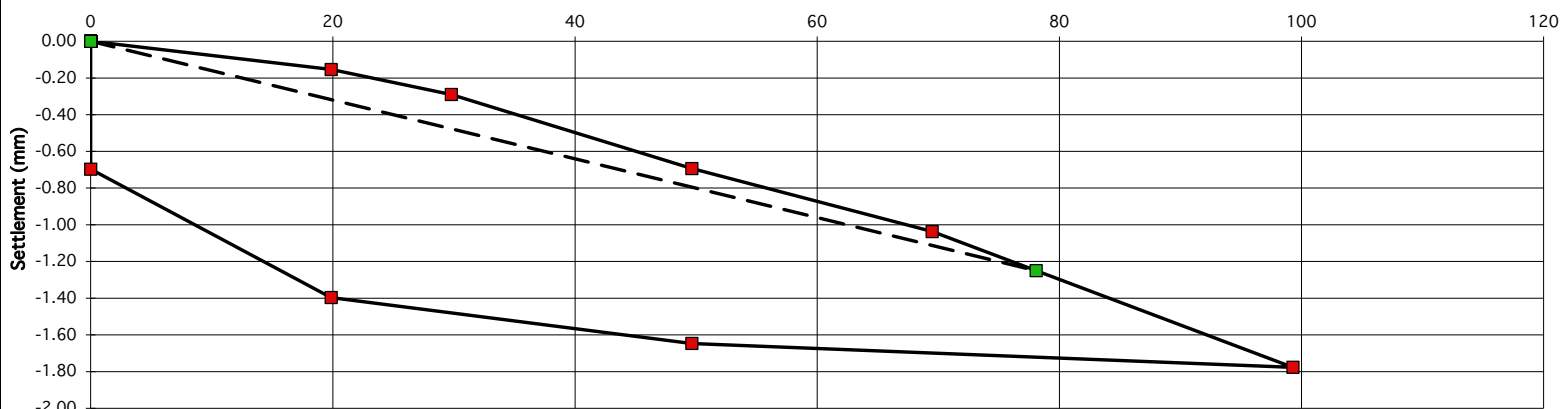
Correction factor applied = 0.64 as per HD 25-26/10

Equivalent CBR value in accordance with NRA HD25-26/10

2.1 %

PLATE TEST REPORT SHEET (F3.1)		Applied Pressure/Settlement Curve	
Reference No.	R164841		Description of soil under test (natural soil, placed fill, sub-base)
Contract	Mt. Avenue Dundalk		Brown sandy gravelly CLAY
Test No.	PBT49- Reload		
Location	See Site Map		 
Depth	0.4m		
Client	DBFL Consulting Engineers		
Plate Diameter:	450 mm		
Test Method	BS 1377: Part 9: 1990 Test4 - Incremental Loading Test		
Technician	P.R.		
Authorised by			Sample Ref No. _____ m bgl
Date	21/01/2025		Depth _____ m bgl

Pressure / Settlement



Pressure (kN/m ²)	Settlement (mm) - Curve 1 (Top)	Settlement (mm) - Curve 2 (Middle)	Settlement (mm) - Curve 3 (Bottom)
0	0.00	0.00	0.00
20	-0.15	-0.30	-1.40
30	-0.25	-0.45	-1.50
55	-0.65	-0.80	-1.65
75	-1.05	-1.15	-1.70
85	-1.25	-1.30	-1.75
110	-1.80	-1.80	-1.80

Gradient at 1.25 mm settlement intersection = 62	Equivalent CBR value in accordance with NRA HD25-26/10	5.8 %
Modulus of subgrade reaction = 40 MPa/m Correction factor applied = 0.64 as per HD 25-26/10		

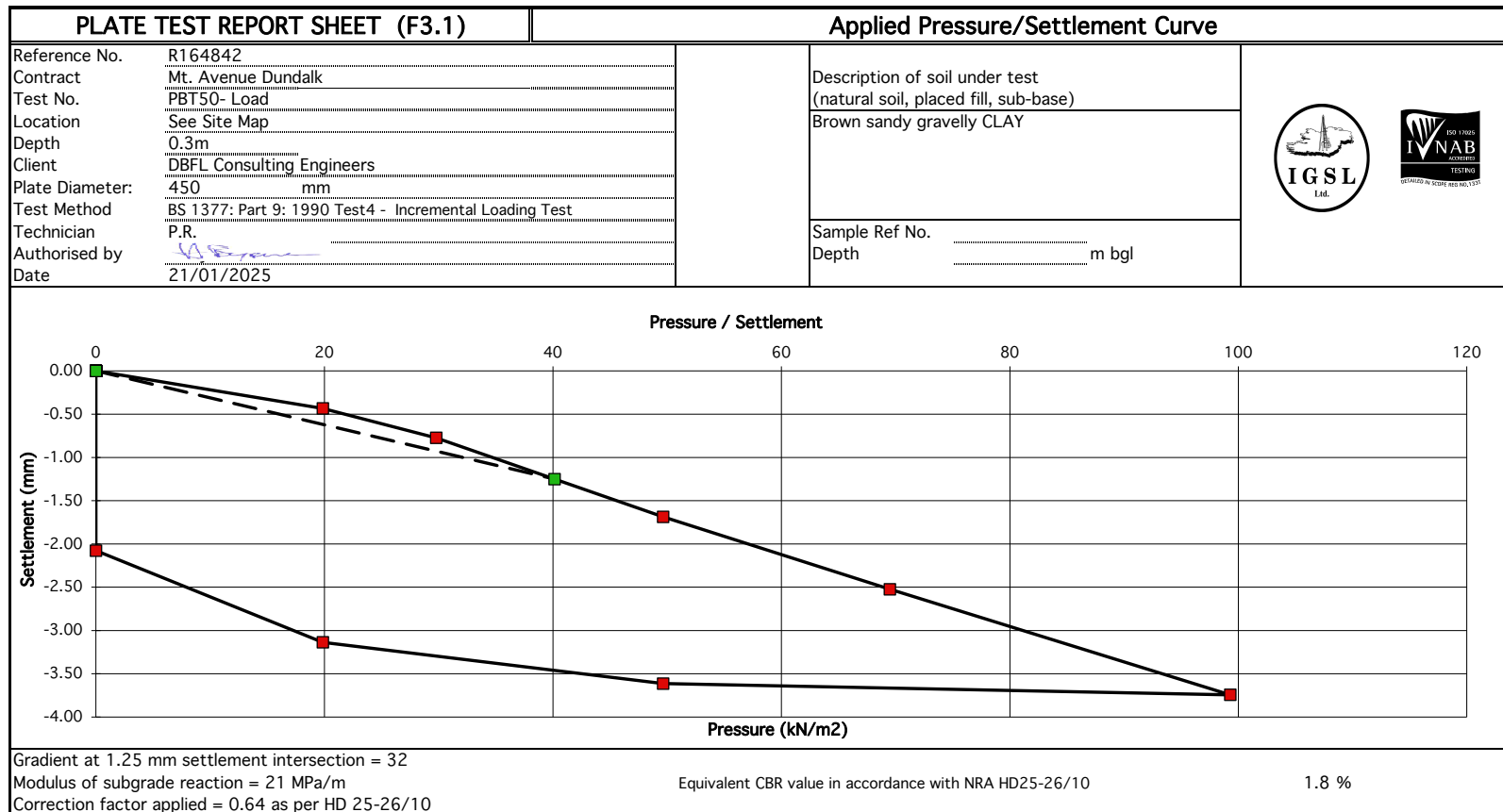
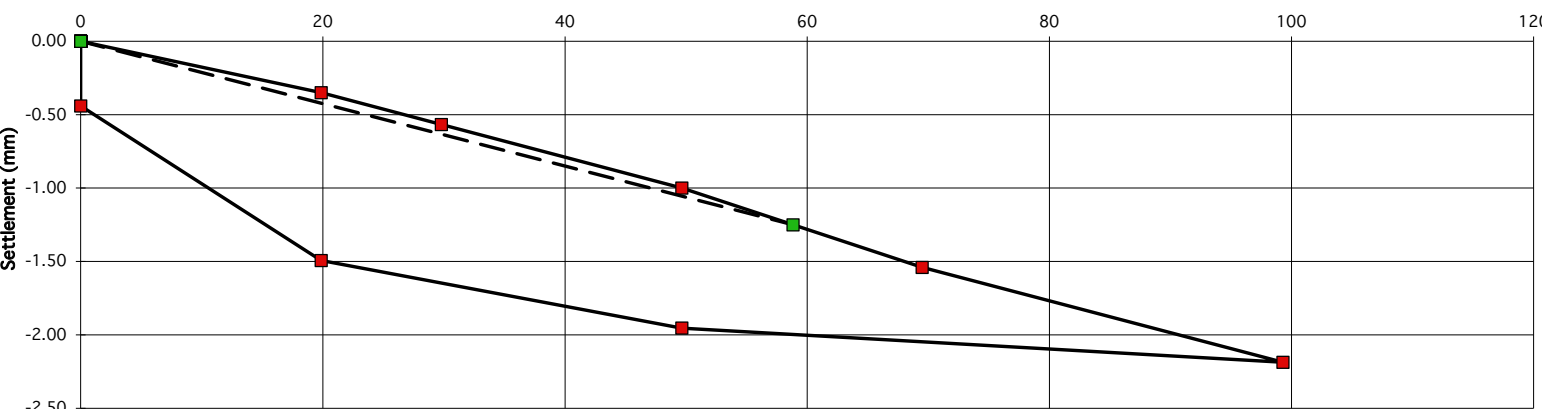


PLATE TEST REPORT SHEET (F3.1)		Applied Pressure/Settlement Curve	
Reference No.	R164842		Description of soil under test (natural soil, placed fill, sub-base)
Contract	Mt. Avenue Dundalk		Brown sandy gravelly CLAY
Test No.	PBT50- Reload		
Location	See Site Map		
Depth	0.3m		
Client	DBFL Consulting Engineers		
Plate Diameter:	450 mm		
Test Method	BS 1377: Part 9: 1990 Test4 - Incremental Loading Test		
Technician	P.R.	Sample Ref No.	
Authorised by		Depth	m bgl
Date	21/01/2025		

Pressure / Settlement



Pressure (kN/m ²)	Settlement (mm) - Solid Line	Settlement (mm) - Dashed Line
0	0.00	0.00
20	-0.40	-0.30
30	-0.60	-0.40
50	-1.00	-0.80
60	-1.30	-1.00
80	-1.50	-1.30
100	-2.20	-2.20

Gradient at 1.25 mm settlement intersection = 47

Modulus of subgrade reaction = 30 MPa/m

Correction factor applied = 0.64 as per HD 25-26/10

Equivalent CBR value in accordance with NRA HD25-26/10

3.6 %

PLATE TEST REPORT SHEET (F3.1)		Applied Pressure/Settlement Curve	
Reference No.	R164843		Description of soil under test (natural soil, placed fill, sub-base)
Contract	Mt. Avenue Dundalk		Brown sandy gravelly CLAY
Test No.	PBT51- Load		
Location	See Site Map		
Depth	0.4m		
Client	DBFL Consulting Engineers		
Plate Diameter:	450 mm		
Test Method	BS 1377: Part 9: 1990 Test4 - Incremental Loading Test		
Technician	P.R.		
Authorised by			
Date	22/01/2025		
		Sample Ref No. _____	Depth _____ m bgl

Pressure / Settlement

Pressure (kN/m ²)	Settlement (mm) - Solid Line	Settlement (mm) - Dashed Line
0	0.00	0.00
20	-0.20	-0.40
30	-0.40	-0.60
50	-1.00	-1.00
70	-1.70	-
100	-2.80	-2.80

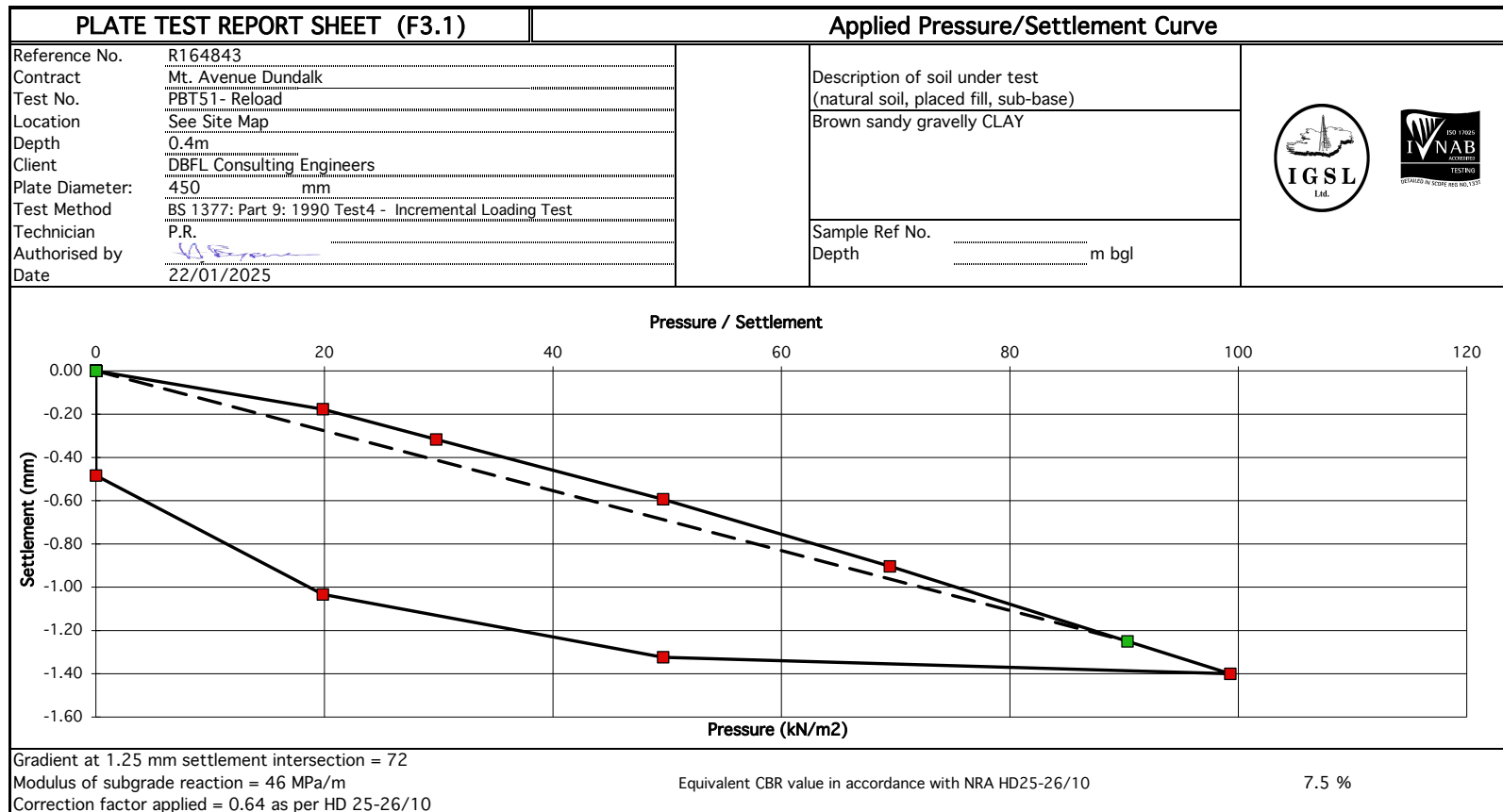
Gradient at 1.25 mm settlement intersection = 45

Modulus of subgrade reaction = 29 MPa/m

Correction factor applied = 0.64 as per HD 25-26/10

Equivalent CBR value in accordance with NRA HD25-26/10

3.2 %



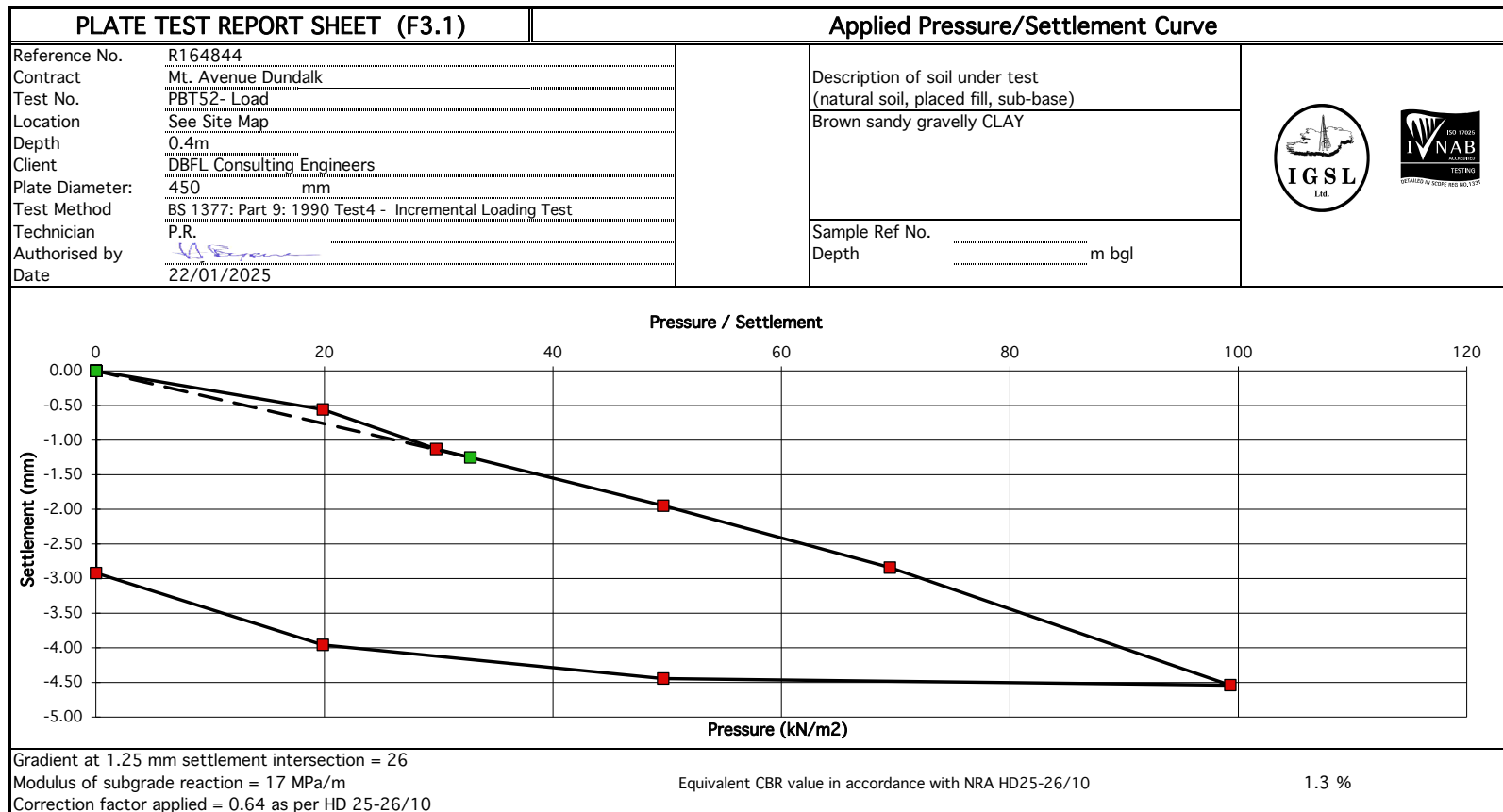


PLATE TEST REPORT SHEET (F3.1)		Applied Pressure/Settlement Curve	
Reference No.	R164844		Description of soil under test (natural soil, placed fill, sub-base)
Contract	Mt. Avenue Dundalk		Brown sandy gravelly CLAY
Test No.	PBT52- Reload		
Location	See Site Map		
Depth	0.4m		
Client	DBFL Consulting Engineers		
Plate Diameter:	450 mm		
Test Method	BS 1377: Part 9: 1990 Test4 - Incremental Loading Test		
Technician	P.R.		
Authorised by		Sample Ref No.	_____ m bgl
Date	22/01/2025	Depth	_____ m bgl

Pressure / Settlement

Pressure (kN/m ²)	Settlement (mm) - Dashed Line	Settlement (mm) - Solid Line
0	0.00	-1.00
20	-0.40	-1.90
30	-0.60	-2.10
50	-1.10	-2.40
100	-2.50	-2.50

Gradient at 1.25 mm settlement intersection = 45

Modulus of subgrade reaction = 29 MPa/m

Correction factor applied = 0.64 as per HD 25-26/10

Equivalent CBR value in accordance with NRA HD25-26/10

3.3 %

PLATE TEST REPORT SHEET (F3.1)		Applied Pressure/Settlement Curve	
Reference No.	R164845		Description of soil under test (natural soil, placed fill, sub-base)
Contract	Mt. Avenue Dundalk		Brown sandy gravelly CLAY
Test No.	PBT53- Load		
Location	See Site Map		
Depth	0.4m		
Client	DBFL Consulting Engineers		
Plate Diameter:	450 mm		
Test Method	BS 1377: Part 9: 1990 Test4 - Incremental Loading Test		
Technician	P.R.		
Authorised by			
Date	14/01/2025		
		Sample Ref No. _____	Depth _____ m bgl

Pressure / Settlement

Pressure (kN/m ²)	Settlement (mm) - Solid Line	Settlement (mm) - Dashed Line
0	0.00	0.00
20	-0.30	-0.40
30	-0.50	-0.60
50	-0.80	-0.90
70	-1.30	-1.30
100	-2.70	-

Gradient at 1.25 mm settlement intersection = 56

Modulus of subgrade reaction = 36 MPa/m

Correction factor applied = 0.64 as per HD 25-26/10

Equivalent CBR value in accordance with NRA HD25-26/10

4.8 %

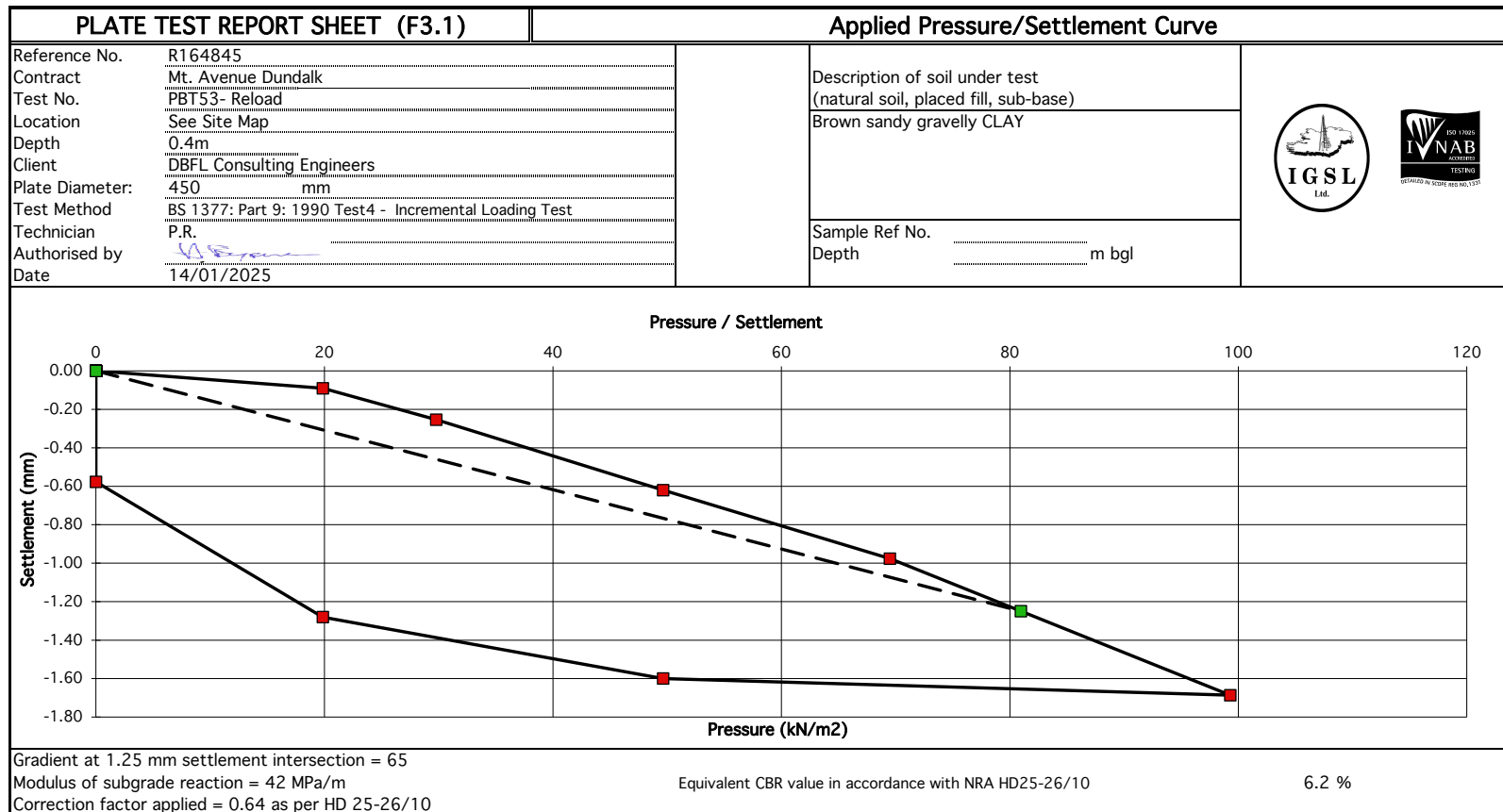


PLATE TEST REPORT SHEET (F3.1)		Applied Pressure/Settlement Curve	
Reference No.	R164846		Description of soil under test (natural soil, placed fill, sub-base)
Contract	Mt. Avenue Dundalk		Brown sandy gravelly CLAY
Test No.	PBT54- Load		
Location	See Site Map		
Depth	0.3m		
Client	DBFL Consulting Engineers		
Plate Diameter:	450 mm		
Test Method	BS 1377: Part 9: 1990 Test4 - Incremental Loading Test		
Technician	P.R.		
Authorised by		Sample Ref No.	_____ m bgl
Date	21/01/2025	Depth	_____ m bgl

Pressure / Settlement

Pressure (kN/m ²)	Settlement (mm) - Solid Line (Red Squares)	Settlement (mm) - Dashed Line (Green Squares)	Settlement (mm) - Solid Line (Red Squares)
0	0.00	0.00	-2.40
20	-0.10	-0.40	-3.20
40	-0.30	-0.80	-3.30
60	-0.60	-1.20	-3.30
80	-1.20	-1.60	-3.30
100	-2.20	-2.00	-3.30
120	-3.20	-2.40	-3.30

Gradient at 1.25 mm settlement intersection = 51

Modulus of subgrade reaction = 32 MPa/m

Correction factor applied = 0.64 as per HD 25-26/10

Equivalent CBR value in accordance with NRA HD25-26/10

4.0 %

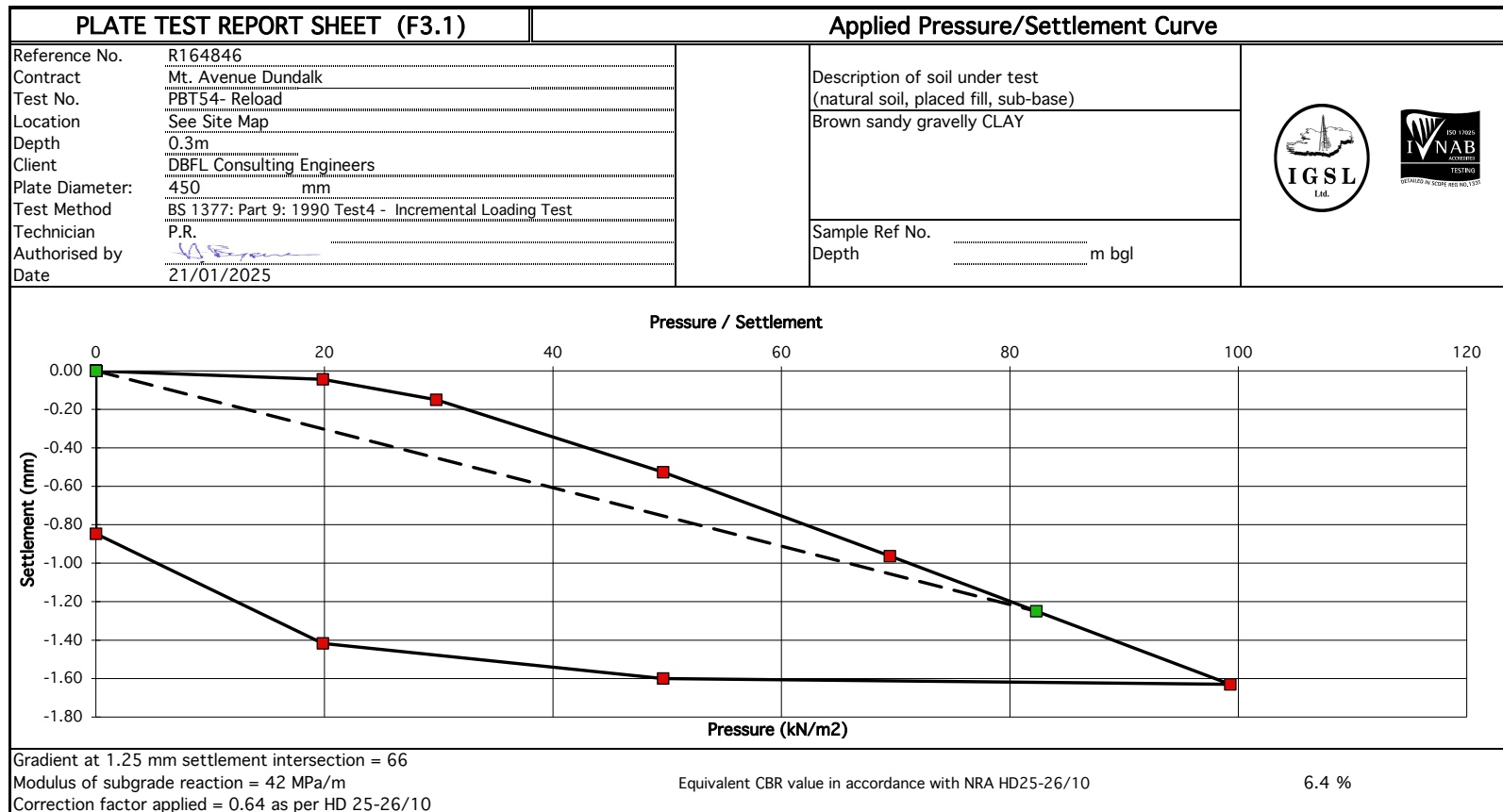


PLATE TEST REPORT SHEET (F3.1)		Applied Pressure/Settlement Curve	
Reference No.	R164847		Description of soil under test (natural soil, placed fill, sub-base)
Contract	Mt. Avenue Dundalk		Brown sandy gravelly CLAY
Test No.	PBT55- Load		
Location	See Site Map		
Depth	0.3m		
Client	DBFL Consulting Engineers		
Plate Diameter:	450 mm		
Test Method	BS 1377: Part 9: 1990 Test4 - Incremental Loading Test		
Technician	P.R.		
Authorised by			
Date	14/01/2025		
		Sample Ref No. _____	Depth _____ m bgl

Pressure / Settlement

Pressure (kN/m ²)	Settlement (mm) - Top Curve	Settlement (mm) - Bottom Curve
0	0.00	-3.7
20	-0.6	-4.1
30	-1.0	-4.2
35	-1.3	-4.2
45	-1.7	-4.2
70	-2.6	-4.3
110	-4.3	-4.3

Gradient at 1.25 mm settlement intersection = 30

Modulus of subgrade reaction = 19 MPa/m

Correction factor applied = 0.64 as per HD 25-26/10

Equivalent CBR value in accordance with NRA HD25-26/10

1.6 %

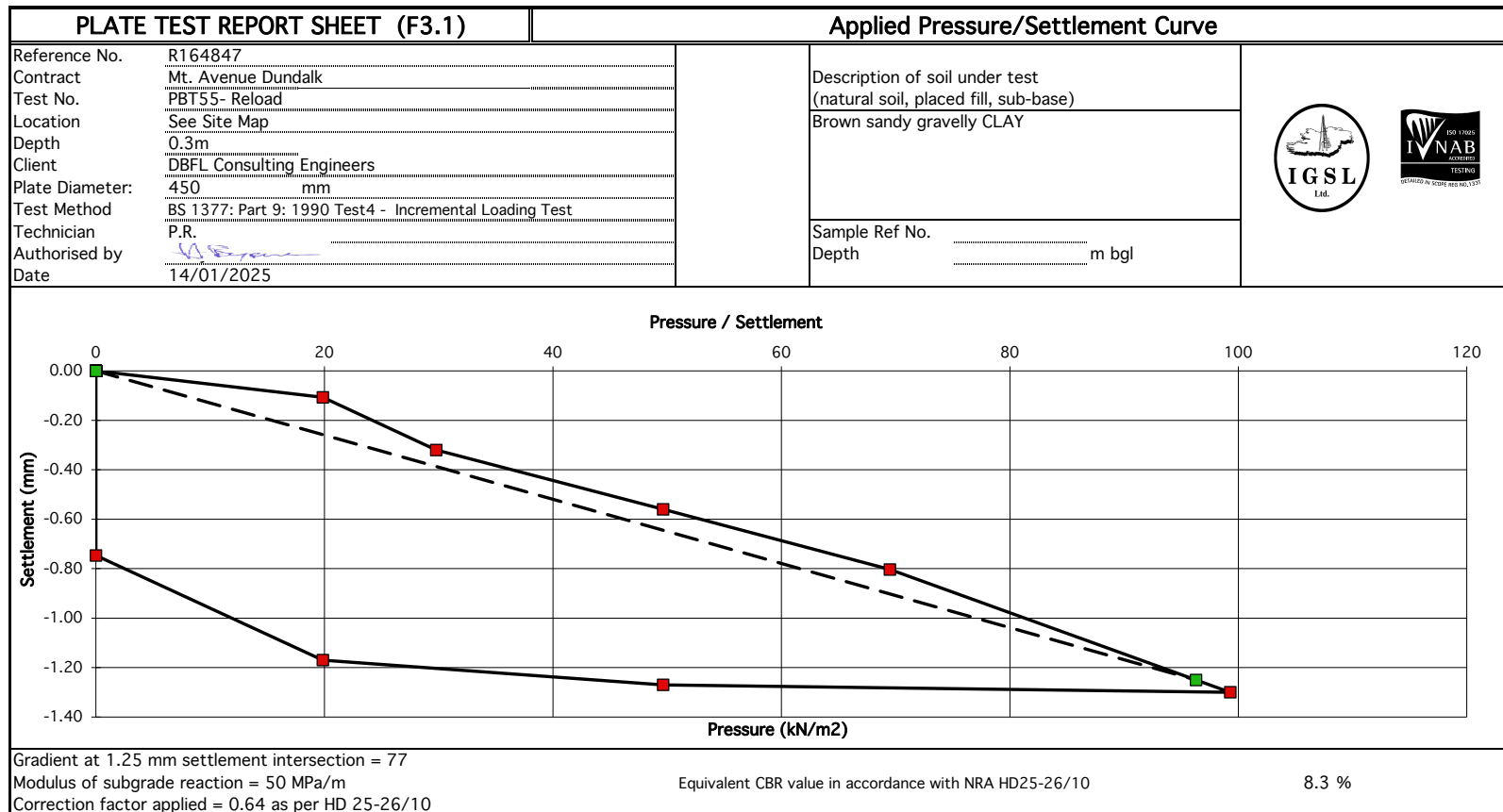


PLATE TEST REPORT SHEET (F3.1)		Applied Pressure/Settlement Curve	
Reference No.	R164848		Description of soil under test (natural soil, placed fill, sub-base)
Contract	Mt. Avenue Dundalk		Brown sandy gravelly CLAY
Test No.	PBT56- Load		
Location	See Site Map		 
Depth	0.3m		
Client	DBFL Consulting Engineers		
Plate Diameter:	450 mm		
Test Method	BS 1377: Part 9: 1990 Test4 - Incremental Loading Test		
Technician	P.R.		Sample Ref No. _____
Authorised by			Depth _____ m bgl
Date	14/01/2025		

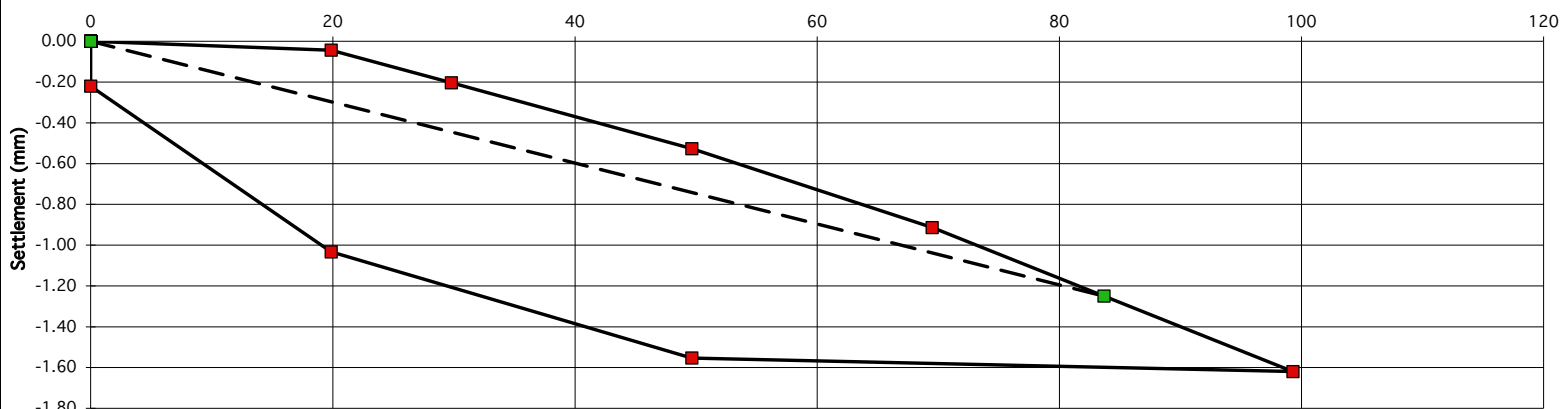
Pressure / Settlement

Pressure (kN/m²)

Gradient at 1.25 mm settlement intersection = 58	Equivalent CBR value in accordance with NRA HD25-26/10	5.2 %
Modulus of subgrade reaction = 38 MPa/m		
Correction factor applied = 0.64 as per HD 25-26/10		

PLATE TEST REPORT SHEET (F3.1)		Applied Pressure/Settlement Curve	
Reference No.	R164848	Description of soil under test (natural soil, placed fill, sub-base)	 
Contract	Mt. Avenue Dundalk	Brown sandy gravelly CLAY	
Test No.	PBT56- Reload	Sample Ref No. _____	
Location	See Site Map	Depth _____ m bgl	
Depth	0.3m		
Client	DBFL Consulting Engineers		
Plate Diameter:	450 mm		
Test Method	BS 1377: Part 9: 1990 Test4 - Incremental Loading Test		
Technician	P.R.		
Authorised by			
Date	14/01/2025		

Pressure / Settlement



Pressure (kN/m ²)	Settlement (mm) - Solid Line	Settlement (mm) - Dashed Line
0	0.00	-0.20
20	-0.10	-0.30
40	-0.20	-0.40
60	-0.30	-0.50
80	-0.40	-0.60
100	-0.50	-0.70
120	-0.60	-0.80

Gradient at 1.25 mm settlement intersection = 67	Equivalent CBR value in accordance with NRA HD25-26/10	6.5 %
Modulus of subgrade reaction = 43 MPa/m		
Correction factor applied = 0.64 as per HD 25-26/10		

PLATE TEST REPORT SHEET (F3.1)		Applied Pressure/Settlement Curve	
Reference No.	R164849		Description of soil under test (natural soil, placed fill, sub-base)
Contract	Mt. Avenue Dundalk		Brown sandy gravelly CLAY
Test No.	PBT57- Load		
Location	See Site Map		
Depth	0.3m		
Client	DBFL Consulting Engineers		
Plate Diameter:	450 mm		
Test Method	BS 1377: Part 9: 1990 Test4 - Incremental Loading Test		
Technician	P.R.	Sample Ref No.	
Authorised by		Depth	_____ m bgl
Date	14/01/2025		

Pressure / Settlement

Pressure (kN/m ²)	Settlement (mm) - Upper Curve	Settlement (mm) - Lower Curve
0	0.00	-3.50
20	-1.00	-4.20
25	-1.20	
30	-1.70	
50	-2.60	-4.30
70	-3.60	
100	-4.60	-4.60

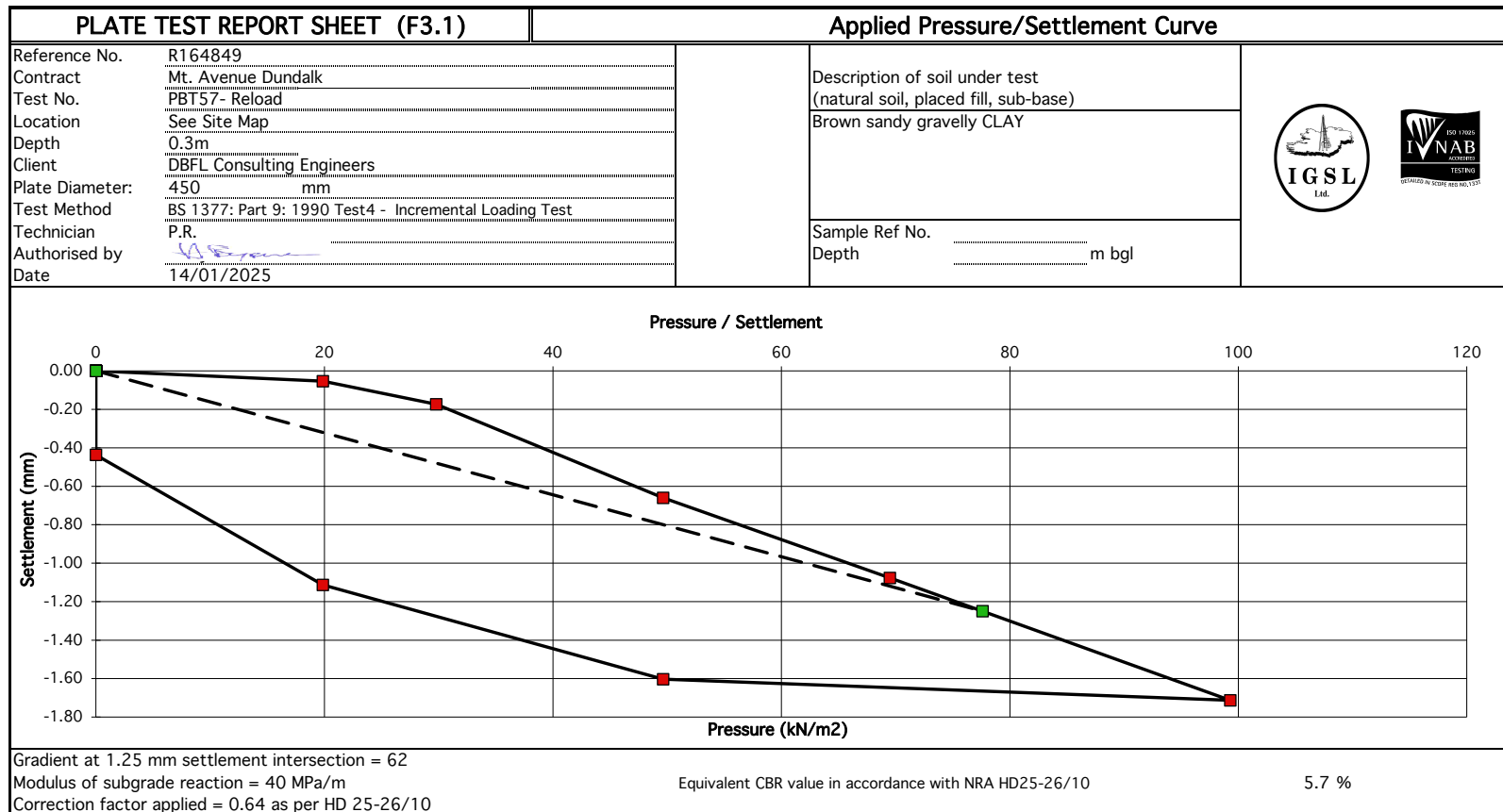
Gradient at 1.25 mm settlement intersection = 19

Modulus of subgrade reaction = 12 MPa/m

Correction factor applied = 0.64 as per HD 25-26/10

Equivalent CBR value in accordance with NRA HD25-26/10

0.7 %



Appendix 7

Geotechnical Laboratory Results (Soil)

IGSL Ltd Materials Laboratory Unit J5, M7 Business Park Newhall, Naas Co. Kildare 045 846176		Test Report													
		Determination of Moisture Content, Liquid & Plastic Limits Tested in accordance with BS1377:Part 2:1990, clauses 3.2, 4.3, 4.4 & 5.3**													
Report No. R166021 Contract No. 25758 Contract Name: MT Avenue Dundalk Customer DBFL Samples Received: 28/01/25 Date Tested: 31/01/25															
BH/TP*	Sample No.	Depth* (m)	Lab. Ref	Sample Type*	Moisture Content %	Liquid Limit %	Plastic Limit %	Plasticity Index	% <425µm	Preparation	Liquid Limit Clause	Classification (BS5930)	Description		
BH04	AA241994	1.0	A24/0282	B	10	23	NP	NP	49	WS	4.4		Brown sandy gravelly SILT		
BH07	AA244191	1.0	A24/0284	B	18	29	17	12	60	WS	4.4	C L	Brown sandy gravelly CLAY		
BH08	AA244194	1.0	A24/0286	B	13	29	16	13	37	WS	4.4	C L	Brown sandy gravelly CLAY		
BH09	AA244198	2.0	A24/0288	B	13	24	NP	NP	59	WS	4.4		Brown sandy gravelly SILT		
BH01	AA255611	0.5	A24/0290	B	21	42	NP	NP	51	WS	4.4		Brown sandy gravelly SILT		
BH02	AA233611	2.0	A24/0293	B	12	33	18	15	33	WS	4.4	C L	Brown sandy gravelly CLAY		
BH12	AA233604	0.5	A24/0295	B	18	32	16	16	53	WS	4.4	C L	Brown sandy gravelly CLAY		
BH12	AA233606	2.0	A24/0296	B	13	30	NP	NP	42	WS	4.4		Brown sandy gravelly SILT		
BH14	AA244197	1.0	A24/0298	B	24	39	21	18	57	WS	4.4	C I	Brown sandy gravelly CLAY		
BH15A	AA233601	0.5	A24/0300	B	15	28	NP	NP	37	WS	4.4		Brown sandy gravelly SILT		
BH15A	AA233603	2.0	A24/0301	B	10	22	NP	NP	38	WS	4.4		Grey sandy gravelly SILT		
BH16	AA233605	0.5	A24/0303	B	15	36	20	16	62	WS	4.4	C I	Brown sandy gravelly CLAY		
Preparation: WS - Wet sieved AR - As received NP - Non plastic Liquid Limit 4.3 Cone Penetrometer definitive method Clause: 4.4 Cone Penetrometer one point method										Sample Type: B - Bulk Disturbed U - Undisturbed		Remarks: Results relate only to the specimen tested, in as received condition unless otherwise noted. NOTE: **These clauses have been superseded by EN 17892-1 and EN17892-12. Opinions and interpretations are outside the scope of accreditation. * denotes Customer supplied information. This report shall not be reproduced except in full without written approval from the Laboratory.			
IGSL Ltd Materials Laboratory					Persons authorized to approve reports H Byrne (Laboratory Manager)					Approved by		Date		Page	
												28/04/25		1 of 1	

TEST REPORT

Determination of Particle Size Distribution

Tested in accordance with: BS1377:Part2:1990 , clause 9.2 & 9.5**
(note: Sedimentation stage not accredited)



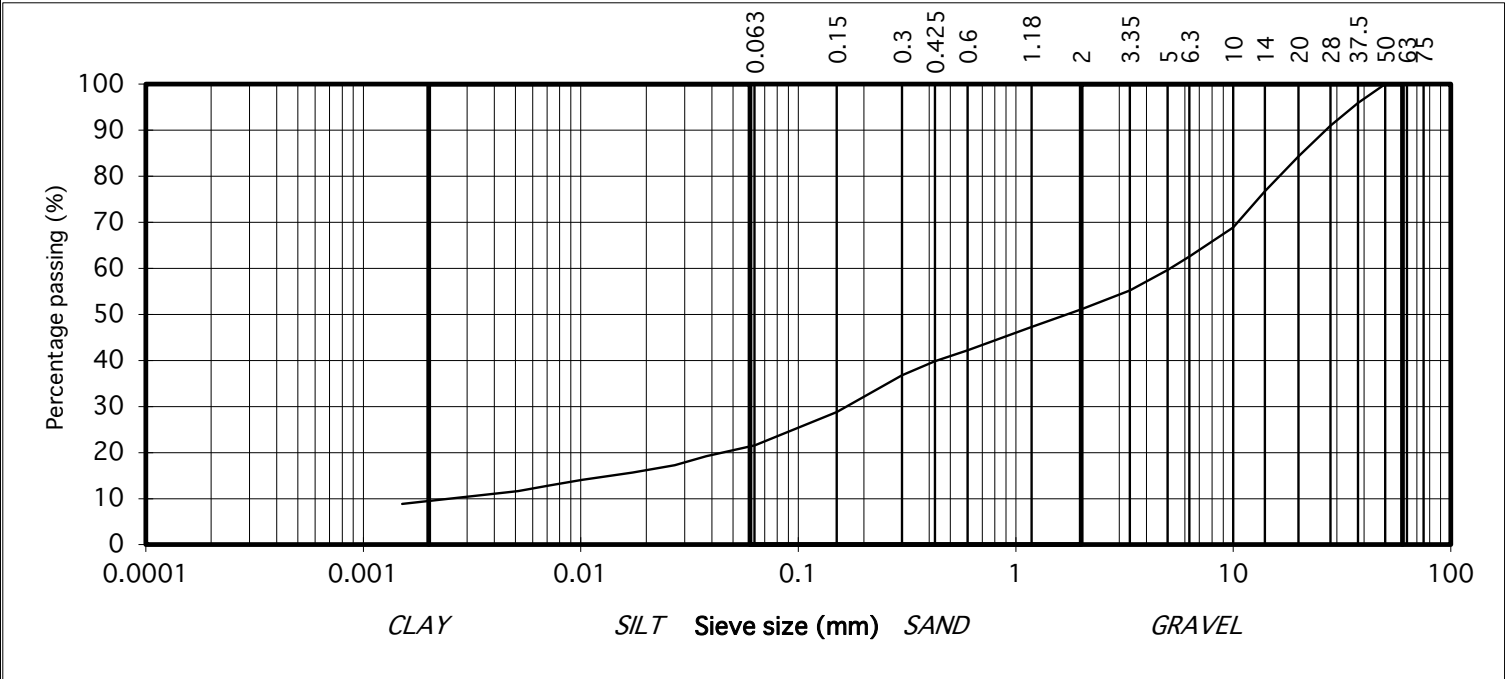
particle size	% passing		Contract No.	25758	Report No.	R166155 <th></th>		
			Contract Name :	MT Avenue Dundalk				Results relate only to the specimen tested in as received condition unless otherwise noted. * denotes Customer supplied information. Opinions and interpretations are outside the scope of accreditation. This report shall not be reproduced except in full without the written approval of the Laboratory.
			BH/TP No.	BH01				
			Sample No.*	AA255612	Lab. Sample No.	A25/0291		
			Sample Type:	B				
			Depth* (m)	1.00	Customer:	DBFL		
75	100	COBBLES	Date Received	28/01/2025	Date Testing started	04/02/2025		
63	100		Description:	Brown slightly sandy, gravelly, SILT/CLAY				
50	100							
37.5	96							
28	91							
20	84	GRAVEL	Remarks	Note: **Clause 9.2 and Clause 9.5 of BS1377:Part 2:1990 have been superseded by ISO17892-4:2016 .				
14	77							
10	69							
6.3	63							
5	60							
3.35	55	SAND						
2	51							
1.18	47							
0.6	42							
0.425	40							
0.3	37	SILT/CLAY						
0.15	29							
0.063	22							
0.038	19							
0.027	17							
0.017	16							
0.010	14							
0.007	13							
0.005	12							
0.002	9							

Percentage passing (%)

Sieve size (mm)

CLAY SILT SAND GRAVEL

Sieve Size (mm)	Percentage Passing (%)
75	100
63	100
50	100
37.5	96
28	91
20	84
14	77
10	69
6.3	63
5	60
3.35	55
2	51
1.18	47
0.6	42
0.425	40
0.3	37
0.15	29
0.063	22
0.038	19
0.027	17
0.017	16
0.010	14
0.007	13
0.005	12
0.002	9



TEST REPORT

Determination of Particle Size Distribution

Tested in accordance with: BS1377:Part2:1990 , clause 9.2 & 9.5**
(note: Sedimentation stage not accredited)



particle size	% passing		Contract No.	25758	Report No.	R166156	Results relate only to the specimen tested in as received condition unless otherwise noted. * denotes Customer supplied information. Opinions and interpretations are outside the scope of accreditation. This report shall not be reproduced except in full without the written approval of the Laboratory.
			Contract Name :	MT Avenue Dundalk			
			BH/TP No.	BH02			
			Sample No.*	AA233610	Lab. Sample No.	A25/0292	
			Sample Type:	B			
			Depth* (m)	1.00	Customer:	DBFL	
			Date Received	28/01/2025	Date Testing started	04/02/2025	
			Description:	Brown clayey/silty, sandy, GRAVEL with some cobbles			
			Remarks	Note: **Clause 9.2 and Clause 9.5 of BS1377:Part 2:1990 have been superseded by ISO17892-4 Sample size did not meet the requirements of BS1377			
75	100	COBBLES					
63	81						
50	70	GRAVEL					
37.5	58						
28	54						
20	44						
14	40						
10	37						
6.3	34						
5	33						
3.35	31						
2	28						
1.18	27	SAND					
0.6	24						
0.425	23						
0.3	21						
0.15	16	SILT/CLAY					
0.063	12						

Sieve size (mm)	Percentage passing (%)
0.063	100
0.075	0
0.15	0
0.3	0
0.425	0
0.6	0
1.18	0
2	0
3.35	0
5	0
6.3	0
10	0
14	0
20	0
28	0
37.5	0
50	0
63	0
75	100

Results relate only to the specimen tested in as received condition unless otherwise noted. * denotes Customer supplied information. Opinions and interpretations are outside the scope of accreditation.
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IGSL Ltd Materials Laboratory

Approved by:	Date:	Page no:
	20/02/25	1 of 1

Persons authorised to approve report: J Barrett (Quality Manager) H Byrne (Laboratory Manager)

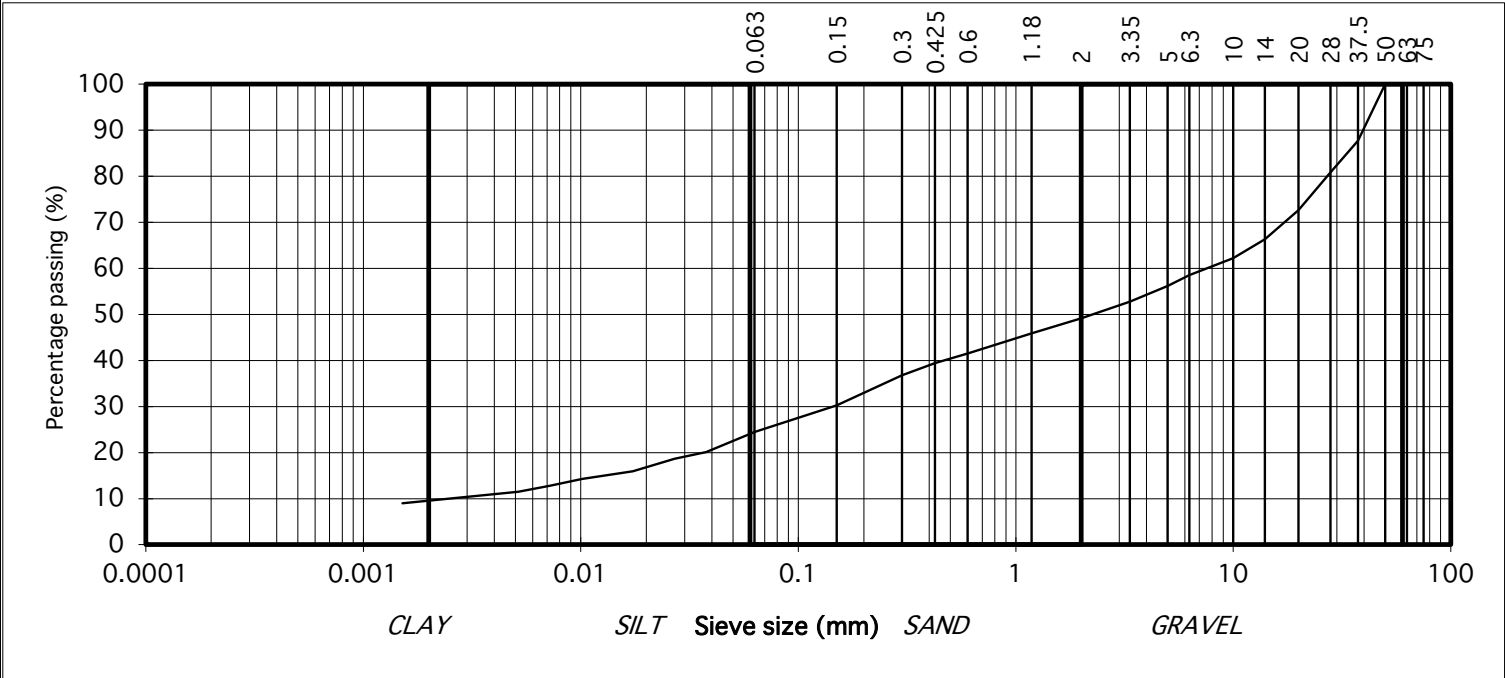
TEST REPORT

Determination of Particle Size Distribution

Tested in accordance with: BS1377:Part2:1990 , clause 9.2 & 9.5**
(note: Sedimentation stage not accredited)



particle size	% passing		Contract No.	25758	Report No.	R166157 <th rowspan="10"> Results relate only to the specimen tested in as received condition unless otherwise noted. * denotes Customer supplied information. Opinions and interpretations are outside the scope of accreditation. This report shall not be reproduced except in full without the written approval of the Laboratory. </th>	Results relate only to the specimen tested in as received condition unless otherwise noted. * denotes Customer supplied information. Opinions and interpretations are outside the scope of accreditation. This report shall not be reproduced except in full without the written approval of the Laboratory.
			Contract Name :	MT Avenue Dundalk			
			BH/TP No.	BH03			
			Sample No.*	AA241992	Lab. Sample No.	A25/0281	
			Sample Type:	B			
			Depth* (m)	2.00	Customer:	DBFL	
			Date Received	28/01/2025	Date Testing started	31/01/2025	
			Description:	Brown slightly sandy, gravelly, SILT/CLAY			
			Remarks	Note: **Clause 9.2 and Clause 9.5 of BS1377:Part 2:1990 have been superseded by ISO17892-4 Sample size did not meet the requirements of BS1377			
75	100	COBBLES					
63	100						
50	100						
37.5	88						
28	81						
20	73	GRAVEL					
14	66						
10	62						
6.3	59						
5	56						
3.35	53	SAND					
2	49						
1.18	46						
0.6	41						
0.425	39						
0.3	37	SILT/CLAY					
0.15	30						
0.063	24						
0.038	20						
0.027	19						
0.017	16						
0.010	14						
0.007	13						
0.005	12						
0.002	9						



TEST REPORT

Determination of Particle Size Distribution

Tested in accordance with: BS1377:Part2:1990 , clause 9.2 & 9.5**
(note: Sedimentation stage not accredited)



particle size	% passing		Contract No.	25758	Report No.	R166158 <th rowspan="5">Results relate only to the specimen tested in as received condition unless otherwise noted. * denotes Customer supplied information. Opinions and interpretations are outside the scope of accreditation. This report shall not be reproduced except in full without the written approval of the Laboratory.</th>	Results relate only to the specimen tested in as received condition unless otherwise noted. * denotes Customer supplied information. Opinions and interpretations are outside the scope of accreditation. This report shall not be reproduced except in full without the written approval of the Laboratory.
			Contract Name :	MT Avenue Dundalk			
			BH/TP No.	BH04			
			Sample No.*	AA241995	Lab. Sample No.	A25/0283	
			Sample Type:	B			
75	100	COBBLES	Depth* (m)	2.00	Customer:	DBFL	
63	88						
50	83						
37.5	77						
28	68						
20	64	GRAVEL	Date Received	28/01/2025	Date Testing started	04/02/2025	
14	59						
10	55						
6.3	52						
5	50						
3.35	48	SAND	Description:	Brown slightly sandy, gravelly, SILT/CLAY with some cobbles			
2	45						
1.18	43						
0.6	40						
0.425	38						
0.3	36	SILT/CLAY	Remarks	Note: **Clause 9.2 and Clause 9.5 of BS1377:Part 2:1990 have been superseded by ISO17892-4 Sample size did not meet the requirements of BS1377			
0.15	30						
0.063	25						
0.038	20						
0.027	18						
0.017	15						
0.010	13						
0.007	12						
0.005	10						
0.002	7						

Percentage passing (%)

Sieve size (mm)

CLAY SILT SAND GRAVEL

Sieve size (mm)	Percentage passing (%)
75	100
63	88
50	83
37.5	77
28	68
20	64
14	59
10	55
6.3	52
5	50
3.35	48
2	45
1.18	43
0.6	40
0.425	38
0.3	36
0.15	30
0.063	25
0.038	20
0.027	18
0.017	15
0.010	13
0.007	12
0.005	10
0.002	7



TEST REPORT

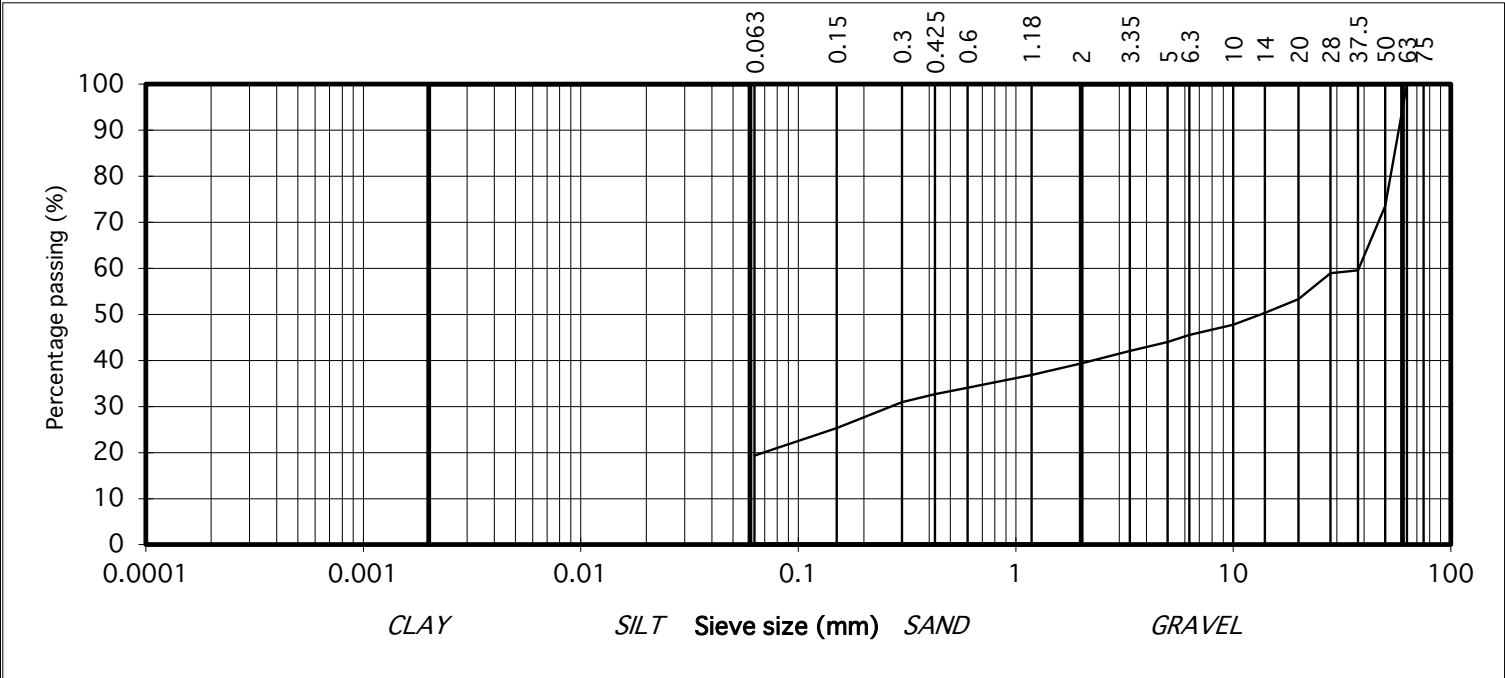
Determination of Particle Size Distribution

Tested in accordance with: BS1377:Part2:1990 , clause 9.2 & 9.5**
(note: Sedimentation stage not accredited)



particle size	% passing		Contract No.	25758	Report No.	R166159	Results relate only to the specimen tested in as received condition unless otherwise noted. * denotes Customer supplied information. Opinions and interpretations are outside the scope of accreditation. This report shall not be reproduced except in full without the written approval of the Laboratory.
			Contract Name :	MT Avenue Dundalk			
			BH/TP No.	BH06			
			Sample No.*	AA233614	Lab. Sample No.	A25/0294	
			Sample Type:	B			
			Depth* (m)	1.00	Customer:	DBFL	
			Date Received	28/01/2025	Date Testing started	04/02/2025	
			Description:	Brown clayey/silty, very sandy, GRAVEL			
			Remarks	Note: **Clause 9.2 and Clause 9.5 of BS1377:Part 2:1990 have been superseded by ISO17892-4 Sample size did not meet the requirements of BS1377			
75	100	COBBLES					
63	100						
50	74	GRAVEL					
37.5	60						
28	59						
20	53						
14	50						
10	48						
6.3	46						
5	44						
3.35	42						
2	39		SAND				
1.18	37						
0.6	34						
0.425	33						
0.3	31						
0.15	25	SILT/CLAY					
0.063	19						

Sieve size (mm)	Percentage passing (%)
75	100
63	100
50	74
37.5	60
28	59
20	53
14	50
10	48
6.3	46
5	44
3.35	42
2	39
1.18	37
0.6	34
0.425	33
0.3	31
0.15	25
0.063	19



TEST REPORT

Determination of Particle Size Distribution

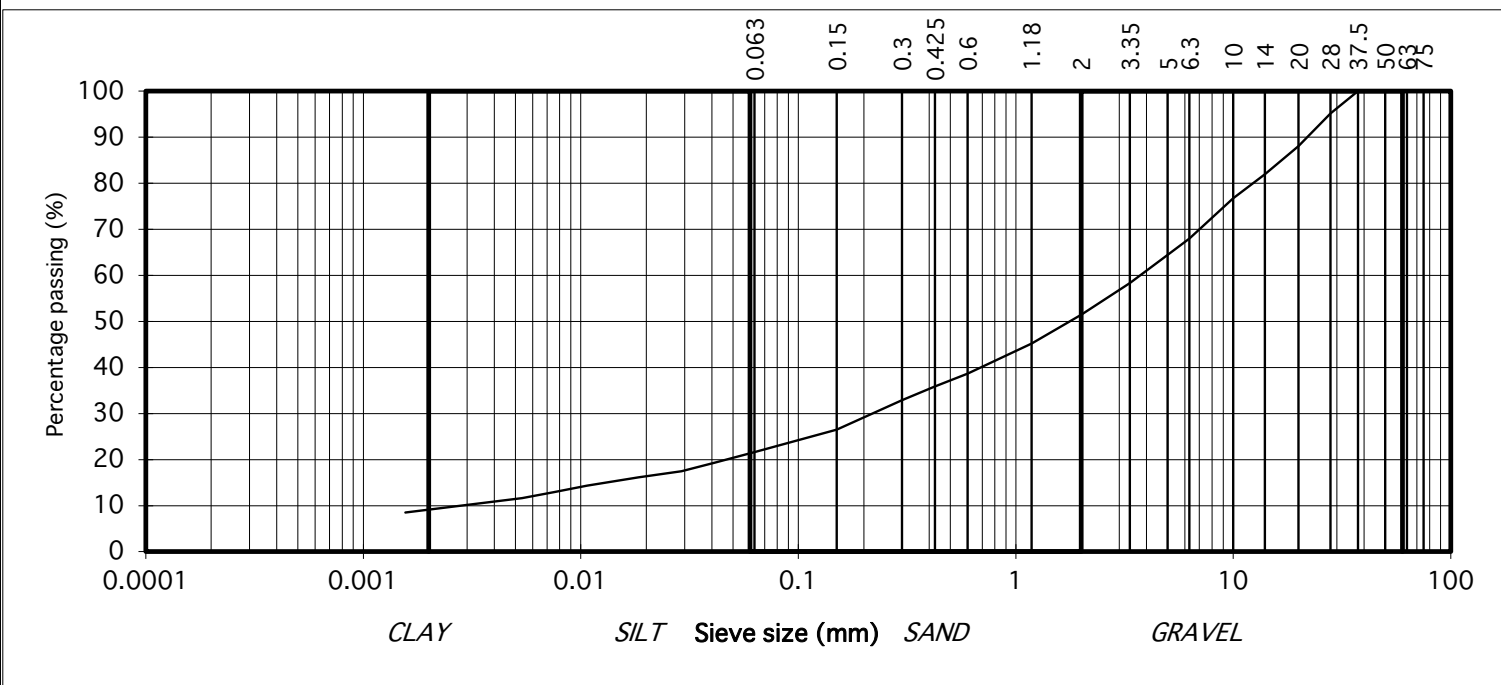
Tested in accordance with: BS1377:Part2:1990 , clause 9.2 & 9.5**
(note: Sedimentation stage not accredited)



particle size	% passing		Contract No.	25758	Report No.	R166160	
			Contract Name :	MT Avenue Dundalk			
			BH/TP No.	BH07			
			Sample No.*	AA244192	Lab. Sample No.	A25/0285	
			Sample Type:	B			
			Depth* (m)	2.00	Customer:	DBFL	
			Date Received	28/01/2025	Date Testing started	14/02/2025	
			Description:	Brown slightly sandy, gravelly, SILT/CLAY			
			Remarks	Note: **Clause 9.2 and Clause 9.5 of BS1377:Part 2:1990 have been superseded by ISO17892-4:2016 .			
75	100	COBBLES	Results relate only to the specimen tested in as received condition unless otherwise noted. * denotes Customer supplied information. Opinions and interpretations are outside the scope of accreditation. This report shall not be reproduced except in full without the written approval of the Laboratory.				
63	100						
50	100						
37.5	100						
28	95						
20	88	GRAVEL					
14	82						
10	77						
6.3	68						
5	64						
3.35	58	SAND					
2	51						
1.18	45						
0.6	39						
0.425	36						
0.3	33	SILT/CLAY					
0.15	26						
0.063	22						
0.041	19						
0.029	17						
0.018	16						
0.011	14						
0.008	13						
0.005	12						
0.002	9						

Sieve size (mm)	Percentage passing (%)
0.075	8
0.15	10
0.3	15
0.6	20
1.18	25
2	30
3.35	35
5	40
6.3	45
10	55
14	65
20	75
28	85
37.5	95
50	100
75	100

Results relate only to the specimen tested in as received condition unless otherwise noted. * denotes Customer supplied information. Opinions and interpretations are outside the scope of accreditation.
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TEST REPORT

Determination of Particle Size Distribution

Tested in accordance with: BS1377:Part2:1990 , clause 9.2 & 9.5**
(note: Sedimentation stage not accredited)



particle size	% passing		Contract No.	25758	Report No.	R166161	Results relate only to the specimen tested in as received condition unless otherwise noted. * denotes Customer supplied information. Opinions and interpretations are outside the scope of accreditation. This report shall not be reproduced except in full without the written approval of the Laboratory.
			Contract Name :	MT Avenue Dundalk			
			BH/TP No.	BH08			
			Sample No.*	AA244195	Lab. Sample No.	A25/0287	
			Sample Type:	B			
			Depth* (m)	2.00	Customer:	DBFL	
			Date Received	28/01/2025	Date Testing started	31/01/2025	
			Description:	Grey clayey/silty, sandy, GRAVEL with many cobbles			
			Remarks	Note: **Clause 9.2 and Clause 9.5 of BS1377:Part 2:1990 have been superseded by ISO17892-4 Sample size did not meet the requirements of BS1377			
75	100	COBBLES					
63	77						
50	71						
37.5	59						
28	51						
20	44						
14	41						
10	39		GRAVEL				
6.3	35						
5	34						
3.35	32						
2	29						
1.18	26						
0.6	23						
0.425	21	SAND					
0.3	20						
0.15	15						
0.063	12						
		SILT/CLAY					

Sieve size (mm)	Percentage passing (%)
0.063	100
0.075	0
0.15	0
0.3	0
0.425	0
0.6	0
1.18	0
2	0
3.35	0
5	0
6.3	0
10	0
14	0
20	0
28	0
37.5	0
50	0
63	0
75	100

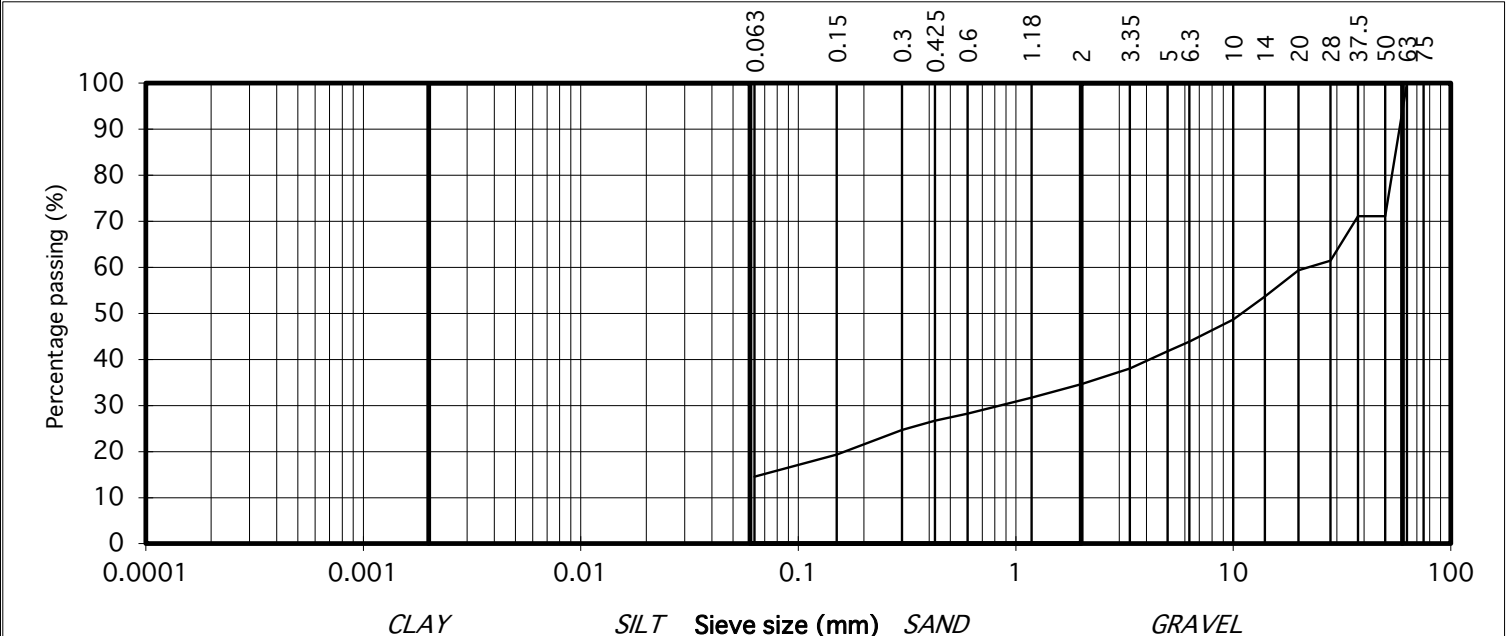
Results relate only to the specimen tested in as received condition unless otherwise noted. * denotes Customer supplied information. Opinions and interpretations are outside the scope of accreditation.
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TEST REPORT

Determination of Particle Size Distribution

Tested in accordance with: BS1377:Part2:1990 , clause 9.2 & 9.5**
(note: Sedimentation stage not accredited)



particle size	% passing		Contract No.	25758	Report No.	R166162	
			Contract Name :	MT Avenue Dundalk			
			BH/TP No.	BH09			
			Sample No.*	AA244199	Lab. Sample No.	A25/0289	
			Sample Type:	B			
			Depth* (m)	3.00	Customer:	DBFL	
			Date Received	28/01/2025	Date Testing started	24/02/2025	
			Description:	Brown clayey/silty, very sandy, GRAVEL			
			Remarks	Note: **Clause 9.2 and Clause 9.5 of BS1377:Part 2:1990 have been superseded by ISO17892-4 Sample size did not meet the requirements of BS1377			
75	100	COBBLES					
63	100						
50	71						
37.5	71						
28	61						
20	59						
14	54						
10	49						
6.3	44						
5	42						
3.35	38	GRAVEL					
2	35						
1.18	32						
0.6	28						
0.425	27						
0.3	25						
0.15	19						
0.063	15						
		SAND					
		SILT/CLAY					

Results relate only to the specimen tested in as received condition unless otherwise noted. * denotes Customer supplied information. Opinions and interpretations are outside the scope of accreditation.

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Results relate only to the specimen tested in as received condition unless otherwise noted. * denotes Customer supplied information. Opinions and interpretations are outside the scope of accreditation.
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TEST REPORT

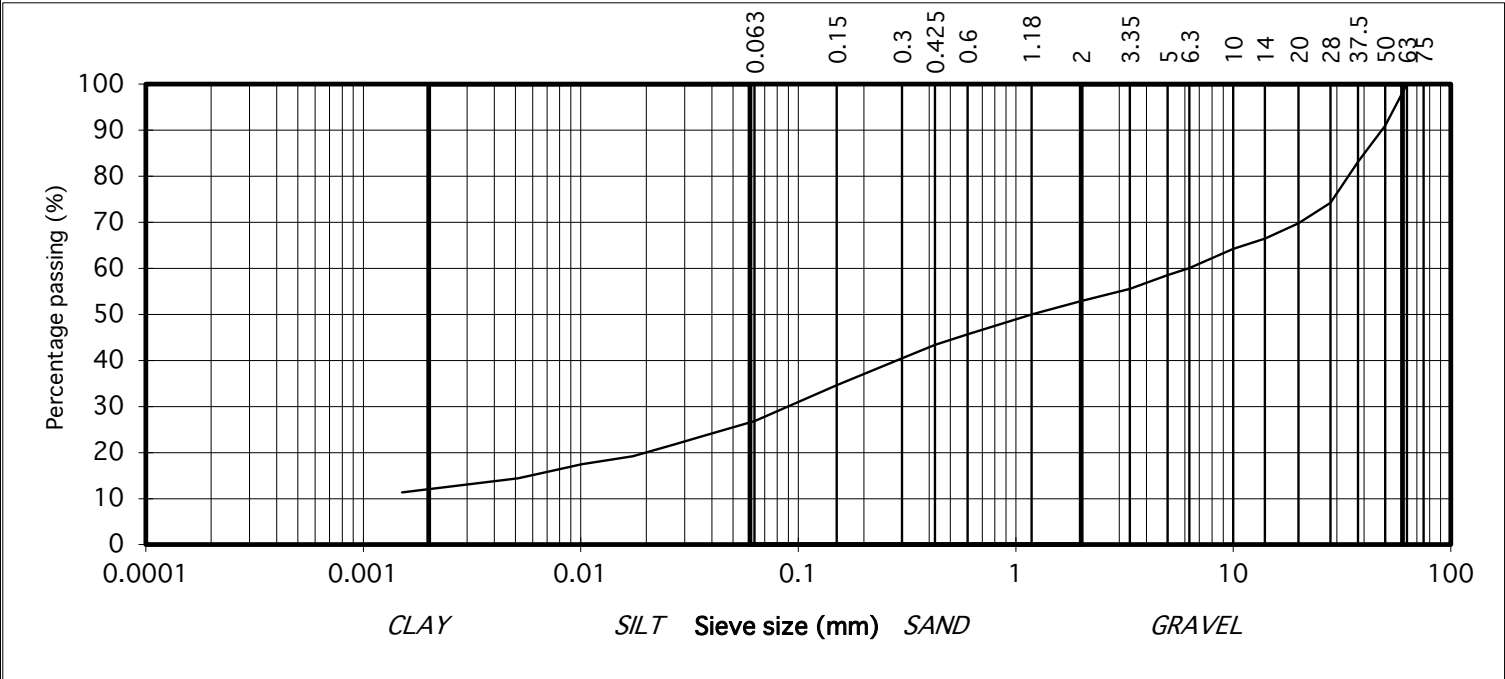
Determination of Particle Size Distribution

Tested in accordance with: BS1377:Part2:1990 , clause 9.2 & 9.5**
(note: Sedimentation stage not accredited)



particle size	% passing		Contract No.	25758	Report No.	R166482 <th></th>		
			Contract Name :	MT Avenue Dundalk				Results relate only to the specimen tested in as received condition unless otherwise noted. * denotes Customer supplied information. Opinions and interpretations are outside the scope of accreditation. This report shall not be reproduced except in full without the written approval of the Laboratory.
			BH/TP No.	BH12				
			Sample No.*	AA233607	Lab. Sample No.	A25/0297		
			Sample Type:	B				
			Depth* (m)	3.00	Customer:	DBFL		
75	100	COBBLES	Date Received	28/01/2025	Date Testing started	14/02/2025		
63	100		Description:	Brown slightly sandy, gravelly, SILT/CLAY				
50	91							
37.5	83							
28	74							
20	70	GRAVEL	Remarks	Note: **Clause 9.2 and Clause 9.5 of BS1377:Part 2:1990 have been superseded by ISO17892-4:2016 .				
14	66							
10	64							
6.3	60							
5	59							
3.35	56	SAND						
2	53							
1.18	50							
0.6	46							
0.425	43							
0.3	40	SILT/CLAY						
0.15	35							
0.063	27							
0.038	24							
0.027	22							
0.017	19							
0.010	17							
0.007	16							
0.005	14							
0.002	11							

Sieve size (mm)	Percentage passing (%)
75	100
63	100
50	91
37.5	83
28	74
20	70
14	66
10	64
6.3	60
5	59
3.35	56
2	53
1.18	50
0.6	46
0.425	43
0.3	40
0.15	35
0.063	27
0.038	24
0.027	22
0.017	19
0.010	17
0.007	16
0.005	14
0.002	11



TEST REPORT

Determination of Particle Size Distribution

Tested in accordance with: BS1377:Part2:1990 , clause 9.2 & 9.5**
(note: Sedimentation stage not accredited)



particle size	% passing		Contract No.	25758	Report No.	R166163 <th rowspan="10"> Results relate only to the specimen tested in as received condition unless otherwise noted. * denotes Customer supplied information. Opinions and interpretations are outside the scope of accreditation. This report shall not be reproduced except in full without the written approval of the Laboratory. </th>	Results relate only to the specimen tested in as received condition unless otherwise noted. * denotes Customer supplied information. Opinions and interpretations are outside the scope of accreditation. This report shall not be reproduced except in full without the written approval of the Laboratory.
			Contract Name :	MT Avenue Dundalk			
			BH/TP No.	BH14			
			Sample No.*	AA244198	Lab. Sample No.	A25/0299	
			Sample Type:	B			
			Depth* (m)	2.00	Customer:	DBFL	
			Date Received	28/01/2025	Date Testing started	04/02/2025	
			Description:	Brown clayey/silty, very sandy, GRAVEL			
			Remarks	Note: **Clause 9.2 and Clause 9.5 of BS1377:Part 2:1990 have been superseded by ISO17892-4:2016 .			
75	100	COBBLES					
63	100						
50	91	GRAVEL					
37.5	91						
28	84						
20	76						
14	68						
10	63						
6.3	57						
5	54						
3.35	50						
2	45		SAND				
1.18	41						
0.6	36						
0.425	34						
0.3	31						
0.15	24	SILT/CLAY					
0.063	18						

Sieve size (mm)	Percentage passing (%)
0.063	18
0.15	24
0.3	31
0.425	34
0.6	36
1.18	41
2	45
3.35	50
5	54
6.3	57
10	63
14	68
20	76
28	84
37.5	91
50	91
63	100
75	100

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Approved by:	Date:	Page no:
	28/04/25	1 of 1

Persons authorised to approve report: J Barrett (Quality Manager) H Byrne (Laboratory Manager)

TEST REPORT

Determination of Particle Size Distribution

Tested in accordance with: BS1377:Part2:1990 , clause 9.2 & 9.5**
(note: Sedimentation stage not accredited)



particle size	% passing		Contract No.	25758	Report No.	R166483	Results relate only to the specimen tested in as received condition unless otherwise noted. * denotes Customer supplied information. Opinions and interpretations are outside the scope of accreditation. This report shall not be reproduced except in full without the written approval of the Laboratory.
			Contract Name :	MT Avenue Dundalk			
			BH/TP No.	BH15A			
			Sample No.*	AA233604	Lab. Sample No.	A25/0302	
			Sample Type:	B			
			Depth* (m)	3.00	Customer:	DBFL	
			Date Received	28/01/2025	Date Testing started	14/02/2025	
			Description:	Brown clayey/silty, very sandy, GRAVEL			
75	100	COBBLES	Remarks	Note: **Clause 9.2 and Clause 9.5 of BS1377:Part 2:1990 have been superseded by ISO17892-4 Sample size did not meet the requirements of BS1377			
63	100						
50	100	GRAVEL					
37.5	85						
28	82						
20	75						
14	71						
10	65						
6.3	59						
5	56						
3.35	51						
2	44						SAND
1.18	39						
0.6	33						
0.425	31						
0.3	28						
0.15	23	SILT/CLAY					
0.063	18						

Results relate only to the specimen tested in as received condition unless otherwise noted. * denotes Customer supplied information. Opinions and interpretations are outside the scope of accreditation.
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IGSL Ltd Materials Laboratory

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	28/04/25	1 of 1

Persons authorised to approve report: J Barrett (Quality Manager) H Byrne (Laboratory Manager)

TEST REPORT

Determination of Particle Size Distribution

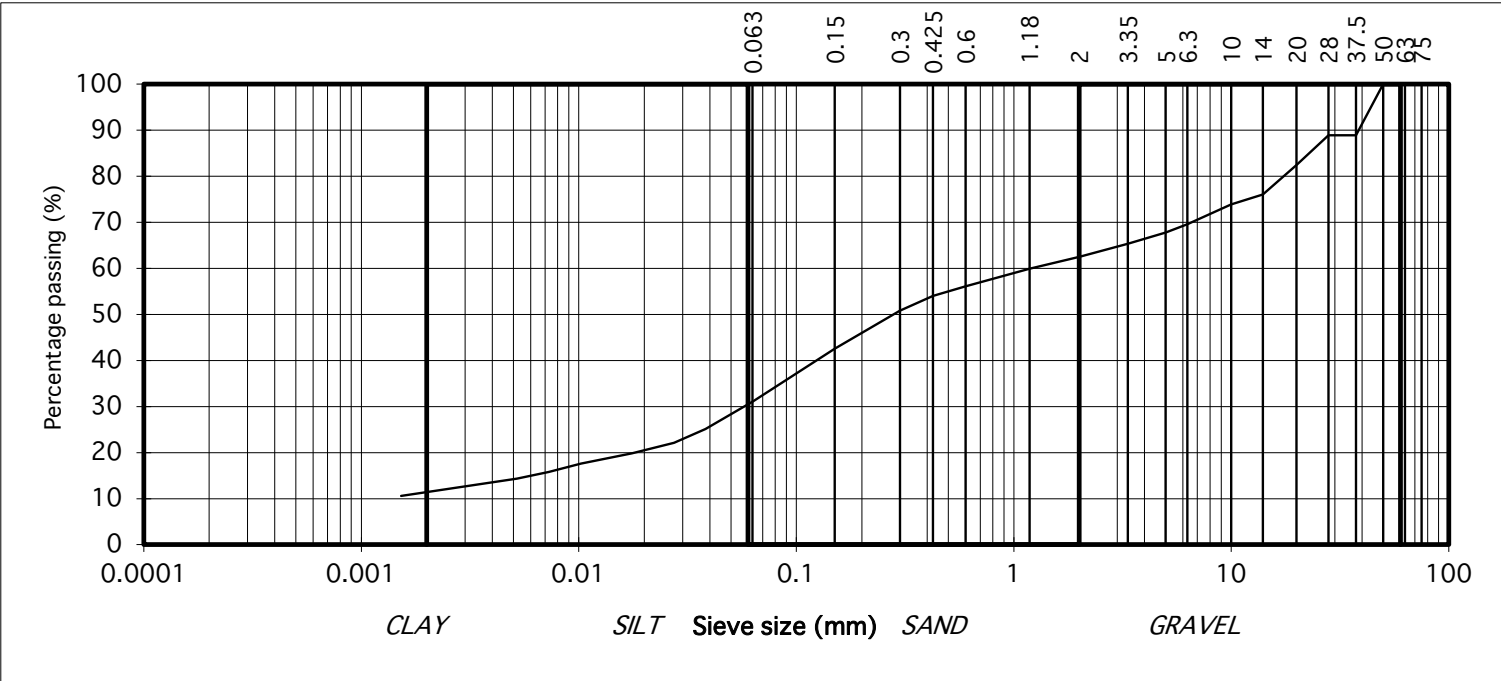
Tested in accordance with: BS1377:Part2:1990 , clause 9.2 & 9.5**
(note: Sedimentation stage not accredited)



particle size	% passing		Contract No.	25758	Report No.	R166484	Results relate only to the specimen tested in as received condition unless otherwise noted. * denotes Customer supplied information. Opinions and interpretations are outside the scope of accreditation. This report shall not be reproduced except in full without the written approval of the Laboratory.			
			Contract Name :	MT Avenue Dundalk						
			BH/TP No.	BH16						
			Sample No.*	AA233606	Lab. Sample No.	A25/0304				
			Sample Type:	B						
			Depth* (m)	1.00	Customer:	DBFL				
			Date Received	28/01/2025	Date Testing started	14/02/2025				
			Description:	Brown slightly sandy, gravelly, SILT/CLAY						
75	100	COBBLES	Remarks	Note: **Clause 9.2 and Clause 9.5 of BS1377:Part 2:1990 have been superseded by ISO17892-4 Sample size did not meet the requirements of BS1377						
63	100									
50	100									
37.5	89									
28	89									
20	82	GRAVEL								
14	76									
10	74									
6.3	70									
5	68									
3.35	65	SAND								
2	62									
1.18	60									
0.6	56									
0.425	54									
0.3	51	SILT/CLAY								
0.15	43									
0.063	31									
0.038	25									
0.027	22									
0.018	20									
0.010	18									
0.007	16									
0.005	14									
0.002	11									

Sieve size (mm)	Percentage passing (%)
0.075	10
0.15	15
0.3	25
0.6	35
1.18	45
2.5	55
5	65
10	75
20	85
37.5	90
75	100

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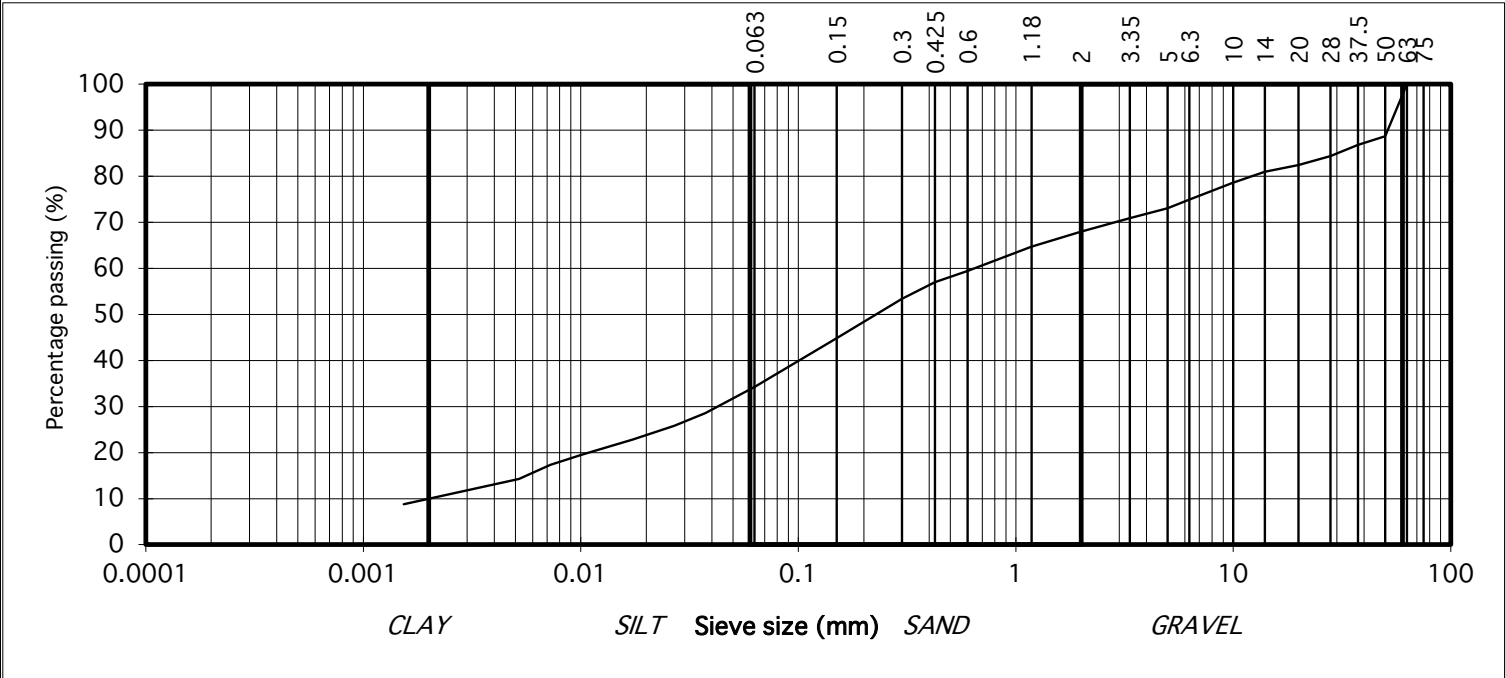
TEST REPORT

Determination of Particle Size Distribution

Tested in accordance with: BS1377:Part2:1990 , clause 9.2 & 9.5**
(note: Sedimentation stage not accredited)



particle size	% passing		Contract No.	25758	Report No.	R166164 <th></th>	
			Contract Name :	MT Avenue Dundalk			
			BH/TP No.	TP03			
			Sample No.*	AA236756	Lab. Sample No.	A25/0207	
			Sample Type:	B			
			Depth* (m)	2.10	Customer:	DBFL	
			Date Received	28/01/2025	Date Testing started	28/01/2025	
			Description:	Brown slightly sandy, slightly gravelly, SILT/CLAY			
			Remarks	Note: **Clause 9.2 and Clause 9.5 of BS1377:Part 2:1990 have been superseded by ISO17892-4 Sample size did not meet the requirements of BS1377			
75	100	COBBLES	Results relate only to the specimen tested in as received condition unless otherwise noted. * denotes Customer supplied information. Opinions and interpretations are outside the scope of accreditation. This report shall not be reproduced except in full without the written approval of the Laboratory.				
63	100						
50	89						
37.5	87						
28	84						
20	82						
14	81						
10	79						
6.3	75	GRAVEL					
5	73						
3.35	71						
2	68						
1.18	65						
0.6	59						
0.425	57						
0.3	53						
0.15	45	SAND					
0.063	34						
0.037	29						
0.027	26						
0.017	23						
0.010	20						
0.007	17						
0.005	14						
0.002	9	SILT/CLAY					

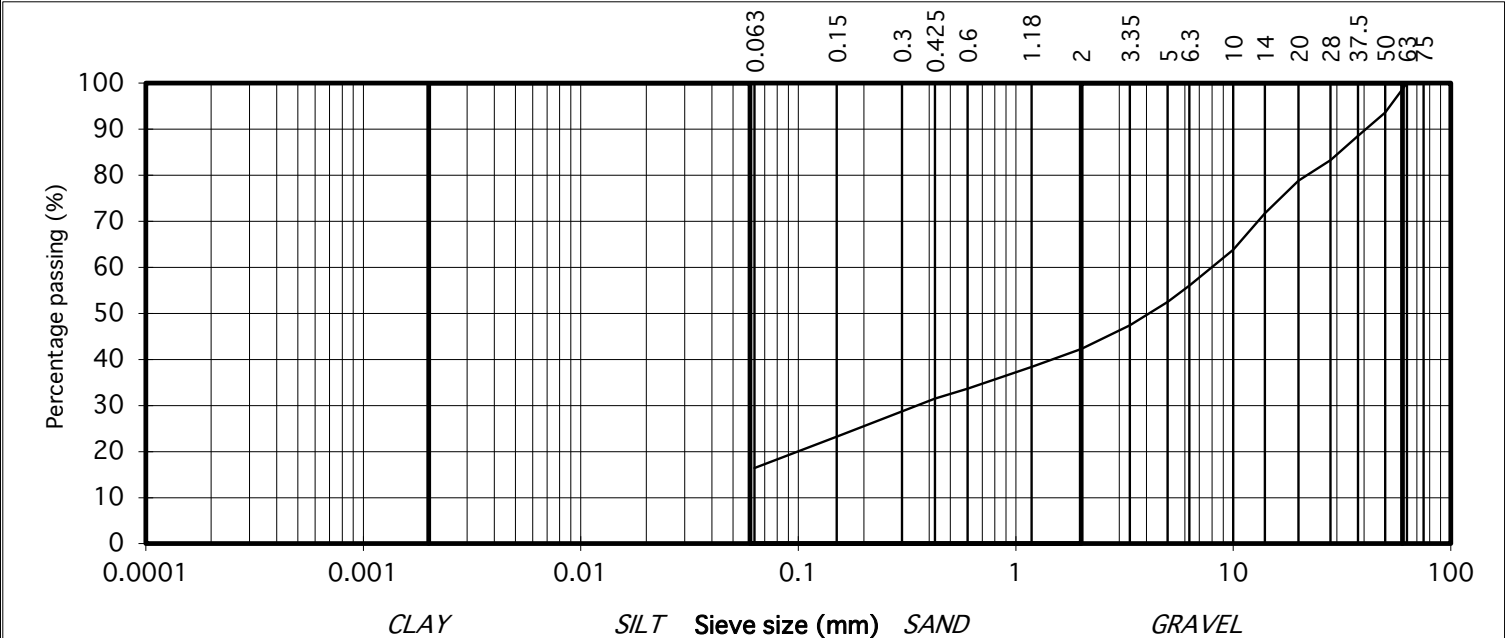


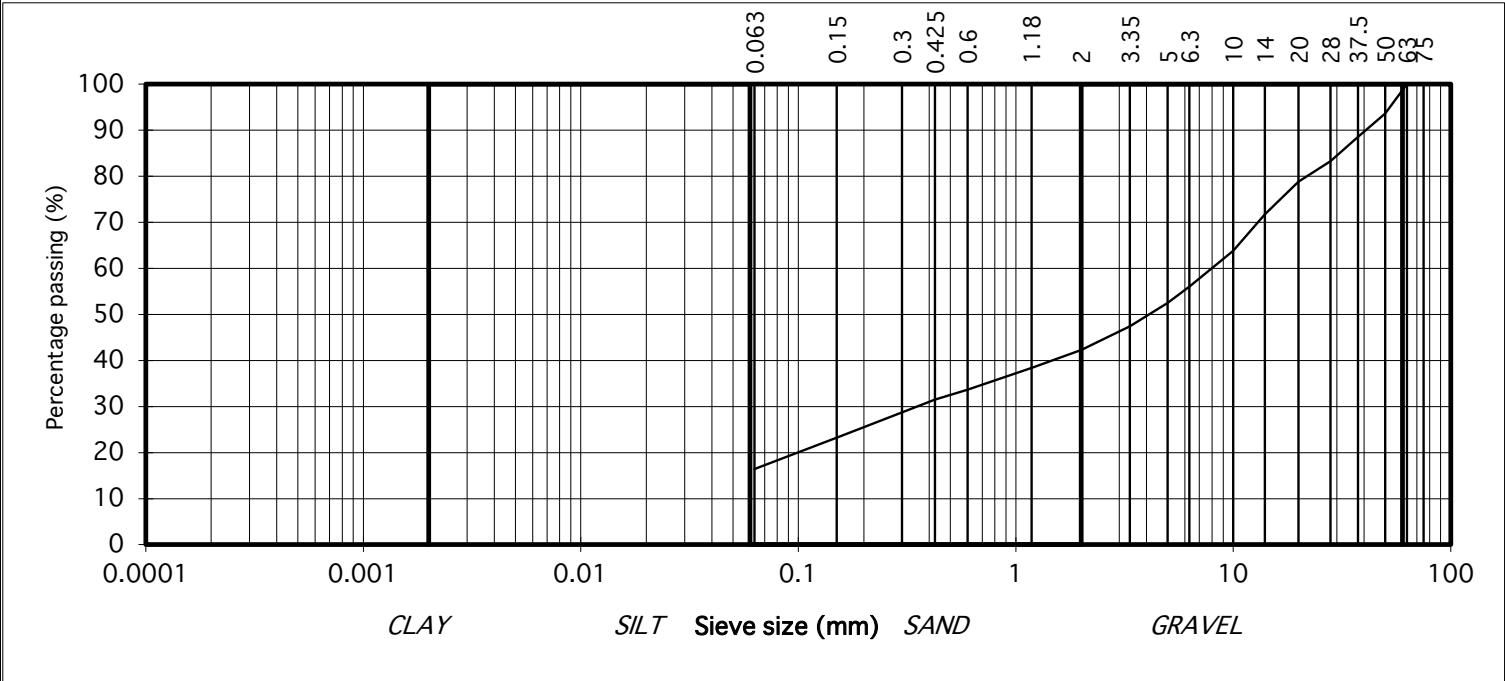
TEST REPORT

Determination of Particle Size Distribution

Tested in accordance with: BS1377:Part2:1990 , clause 9.2 & 9.5**
(note: Sedimentation stage not accredited)



particle size	% passing		Contract No.	25758	Report No.	R166165	Results relate only to the specimen tested in as received condition unless otherwise noted. * denotes Customer supplied information. Opinions and interpretations are outside the scope of accreditation. This report shall not be reproduced except in full without the written approval of the Laboratory.					
			Contract Name :	MT Avenue Dundalk								
			BH/TP No.	TP13								
			Sample No.*	AA236763	Lab. Sample No.	A25/0213						
			Sample Type:	B								
			Depth* (m)	1.30	Customer:	DBFL						
			Date Received	28/01/2025	Date Testing started	28/01/2025						
			Description:	Brown clayey/silty, very sandy, GRAVEL								
			Remarks	Note: **Clause 9.2 and Clause 9.5 of BS1377:Part 2:1990 have been superseded by ISO17892-4:2016 .								
75	100	COBBLES										
63	100											
50	94											
37.5	89											
28	83											
20	79											
14	72											
10	64	GRAVEL										
6.3	56											
5	52											
3.35	47											
2	42											
1.18	38											
0.6	34											
0.425	32	SAND										
0.3	29											
0.15	23											
0.063	16											
		SILT/CLAY										



IGSL Ltd Materials Laboratory	Approved by:	Date:	Page no:
	<i>[Signature]</i>	28/04/25	1 of 1

Persons authorised to approve report: J Barrett (Quality Manager) H Byrne (Laboratory Manager)

TEST REPORT

Determination of Particle Size Distribution

Tested in accordance with: BS1377:Part2:1990 , clause 9.2 & 9.5**
(note: Sedimentation stage not accredited)

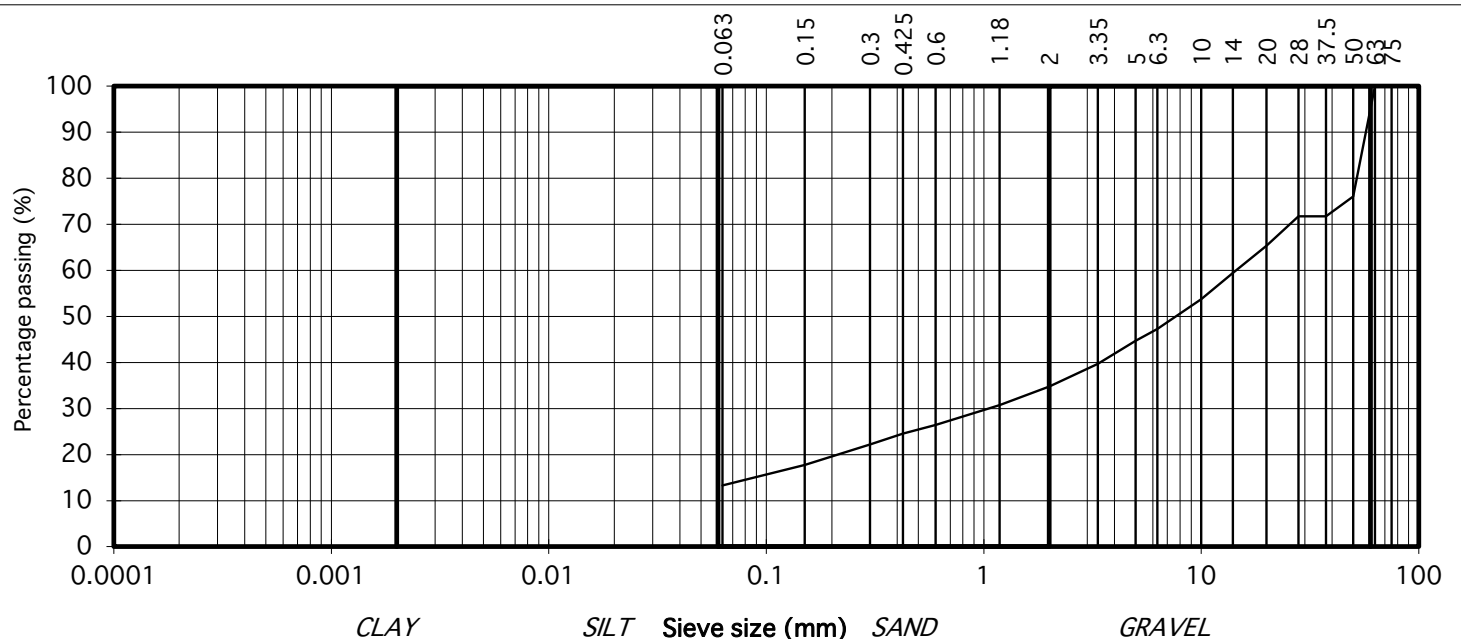


particle size	% passing		Contract No.	25758	Report No.	R166485 <th></th>		
			Contract Name :	MT Avenue Dundalk				Results relate only to the specimen tested in as received condition unless otherwise noted. * denotes Customer supplied information. Opinions and interpretations are outside the scope of accreditation. This report shall not be reproduced except in full without the written approval of the Laboratory.
			BH/TP No.	TP23				
			Sample No.*	AA245771	Lab. Sample No.	A25/0215		
			Sample Type:	B				
			Depth* (m)	0.50	Customer:	DBFL		
75	100	COBBLES	Date Received	28/01/2025	Date Testing started	17/02/2025		
63	100		Description:	Brown clayey/silty, very sandy, GRAVEL				
50	76							
37.5	72							
28	72							
20	65							
14	59							
10	54							
6.3	47							
5	45							
3.35	40	GRAVEL						
2	35							
1.18	31							
0.6	26							
0.425	25							
0.3	22	SAND						
0.15	18							
0.063	13							
		SILT/CLAY						

Remarks	Note: **Clause 9.2 and Clause 9.5 of BS1377:Part 2:1990 have been superseded by ISO17892-4 Sample size did not meet the requirement of BS1377

The graph plots the percentage of material passing through various sieve sizes. The x-axis represents sieve size in millimeters on a logarithmic scale, ranging from 0.0001 to 100 mm. The y-axis represents the percentage passing, ranging from 0 to 100%. The curve begins at approximately 13% passing for a 0.063 mm sieve and rises steadily, reaching 100% passing at a 75 mm sieve. The graph is divided into four distinct regions: CLAY (below 0.075 mm), SILT (0.075 mm to 0.425 mm), SAND (0.425 mm to 4.75 mm), and GRAVEL (above 4.75 mm). Vertical lines mark the boundaries between these regions at sieve sizes of 0.075, 0.425, and 4.75 mm.

Sieve size (mm)	Percentage passing (%)
0.063	13
0.075	14
0.15	18
0.3	22
0.425	25
0.6	28
1.18	31
2	35
3.35	40
5	45
6.3	47
10	54
14	59
20	65
28	72
37.5	72
50	76
75	100



TEST REPORT

Determination of Particle Size Distribution

Tested in accordance with: BS1377:Part2:1990 , clause 9.2 & 9.5**
(note: Sedimentation stage not accredited)



particle size	% passing		Contract No.	25758	Report No.	R166166																																						
			Contract Name :	MT Avenue Dundalk																																								
			BH/TP No.	TP33																																								
			Sample No.*	AA245777	Lab. Sample No.	A25/0220(B)																																						
			Sample Type:	B																																								
			Depth* (m)	0.50	Customer:	DBFL																																						
			Date Received	28/01/2025	Date Testing started	28/01/2025																																						
			Description:	Brown slightly sandy, gravelly, SILT/CLAY with some cobbles																																								
			Remarks	Note: **Clause 9.2 and Clause 9.5 of BS1377:Part 2:1990 have been superseded by ISO17892-4:2016 .																																								
75	100	COBBLES	Results relate only to the specimen tested in as received condition unless otherwise noted. * denotes Customer supplied information. Opinions and interpretations are outside the scope of accreditation. This report shall not be reproduced except in full without the written approval of the Laboratory. <table><thead><tr><th>Sieve size (mm)</th><th>Percentage passing (%)</th></tr></thead><tbody><tr><td>75</td><td>100</td></tr><tr><td>63</td><td>91</td></tr><tr><td>50</td><td>91</td></tr><tr><td>37.5</td><td>88</td></tr><tr><td>28</td><td>79</td></tr><tr><td>20</td><td>76</td></tr><tr><td>14</td><td>73</td></tr><tr><td>10</td><td>71</td></tr><tr><td>6.3</td><td>67</td></tr><tr><td>5</td><td>65</td></tr><tr><td>3.35</td><td>62</td></tr><tr><td>2</td><td>59</td></tr><tr><td>1.18</td><td>55</td></tr><tr><td>0.6</td><td>51</td></tr><tr><td>0.425</td><td>49</td></tr><tr><td>0.3</td><td>46</td></tr><tr><td>0.15</td><td>40</td></tr><tr><td>0.063</td><td>32</td></tr></tbody></table>				Sieve size (mm)	Percentage passing (%)	75	100	63	91	50	91	37.5	88	28	79	20	76	14	73	10	71	6.3	67	5	65	3.35	62	2	59	1.18	55	0.6	51	0.425	49	0.3	46	0.15	40	0.063	32
Sieve size (mm)	Percentage passing (%)																																											
75	100																																											
63	91																																											
50	91																																											
37.5	88																																											
28	79																																											
20	76																																											
14	73																																											
10	71																																											
6.3	67																																											
5	65																																											
3.35	62																																											
2	59																																											
1.18	55																																											
0.6	51																																											
0.425	49																																											
0.3	46																																											
0.15	40																																											
0.063	32																																											
63	91																																											
50	91																																											
37.5	88																																											
28	79																																											
20	76																																											
14	73																																											
10	71																																											
6.3	67																																											
5	65																																											
3.35	62																																											
2	59																																											
1.18	55																																											
0.6	51																																											
0.425	49																																											
0.3	46																																											
0.15	40																																											
0.063	32																																											
		GRAVEL																																										
		SAND																																										
		SILT/CLAY																																										

Results relate only to the specimen tested in as received condition unless otherwise noted. * denotes Customer supplied information. Opinions and interpretations are outside the scope of accreditation.
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Persons authorised to approve report: J Barrett (Quality Manager) H Byrne (Laboratory Manager)

TEST REPORT

Determination of Particle Size Distribution

Tested in accordance with: BS1377:Part2:1990 , clause 9.2 & 9.5**
(note: Sedimentation stage not accredited)



particle size	% passing		Contract No.	25758	Report No.	R166167 <th rowspan="5">Results relate only to the specimen tested in as received condition unless otherwise noted. * denotes Customer supplied information. Opinions and interpretations are outside the scope of accreditation. This report shall not be reproduced except in full without the written approval of the Laboratory.</th>	Results relate only to the specimen tested in as received condition unless otherwise noted. * denotes Customer supplied information. Opinions and interpretations are outside the scope of accreditation. This report shall not be reproduced except in full without the written approval of the Laboratory.
			Contract Name :	MT Avenue Dundalk			
			BH/TP No.	TP43			
			Sample No.*	AA236810	Lab. Sample No.	A25/0222	
			Sample Type:	B			
75	100	COBBLES	Depth* (m)	1.80	Customer:	DBFL	
63	97			Date Received	28/01/2025	Date Testing started	28/01/2025
50	97			Description:	Brown clayey/silty, very sandy, GRAVEL with occasional cobbles		
37.5	90						
28	76						
20	69	GRAVEL					
14	64						
10	57						
6.3	51						
5	48						
3.35	44	SAND					
2	41						
1.18	38						
0.6	34						
0.425	32						
0.3	31	SILT/CLAY					
0.15	26						
0.063	20						
0.038	16						
0.027	15						
0.017	12						
0.010	11						
0.007	9						
0.005	8						
0.002	6						

Remarks

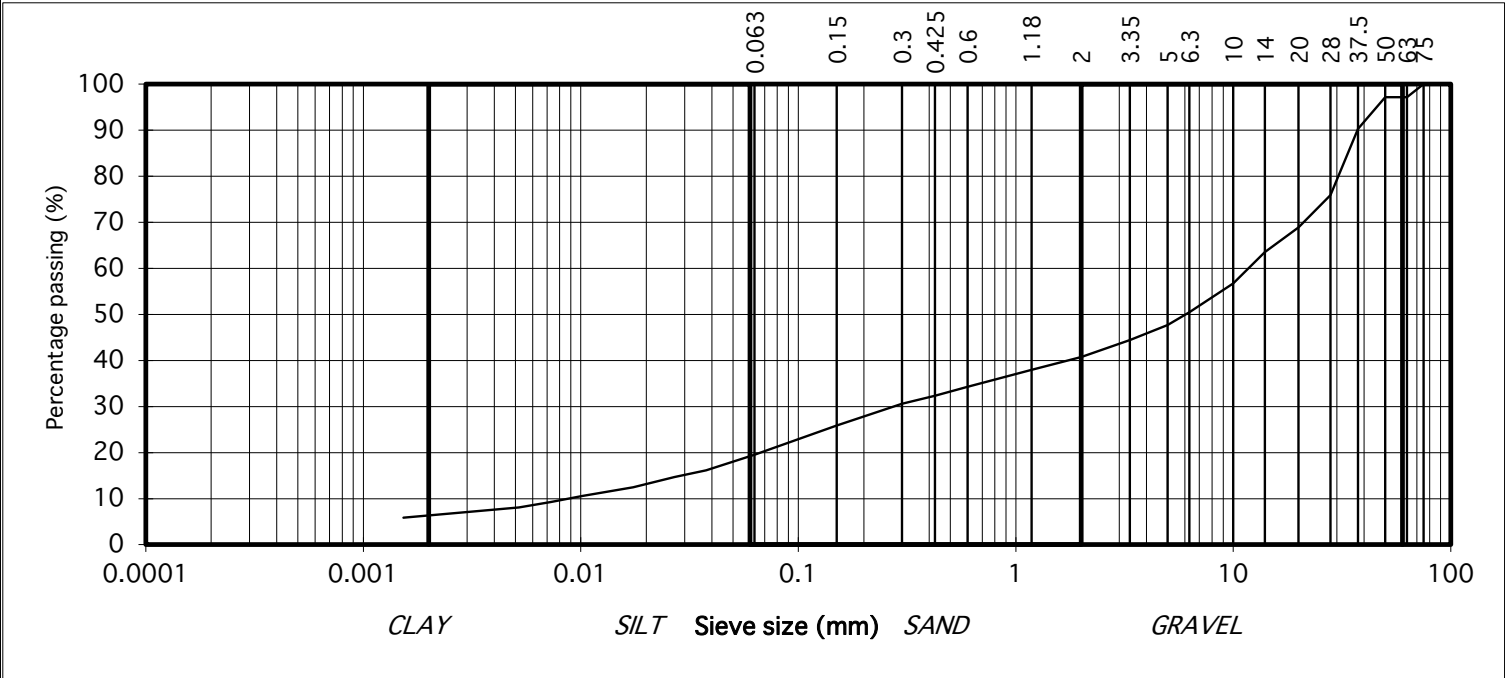
Note: **Clause 9.2 and Clause 9.5 of BS1377:Part 2:1990 have been superseded by ISO17892-4:2016 .

Percentage passing (%)

0.00010.0010.010.1110100

CLAYSILT Sieve size (mm) SANDGRAVEL

0.0630.150.30.4250.61.1823.3556.31014202837.55093

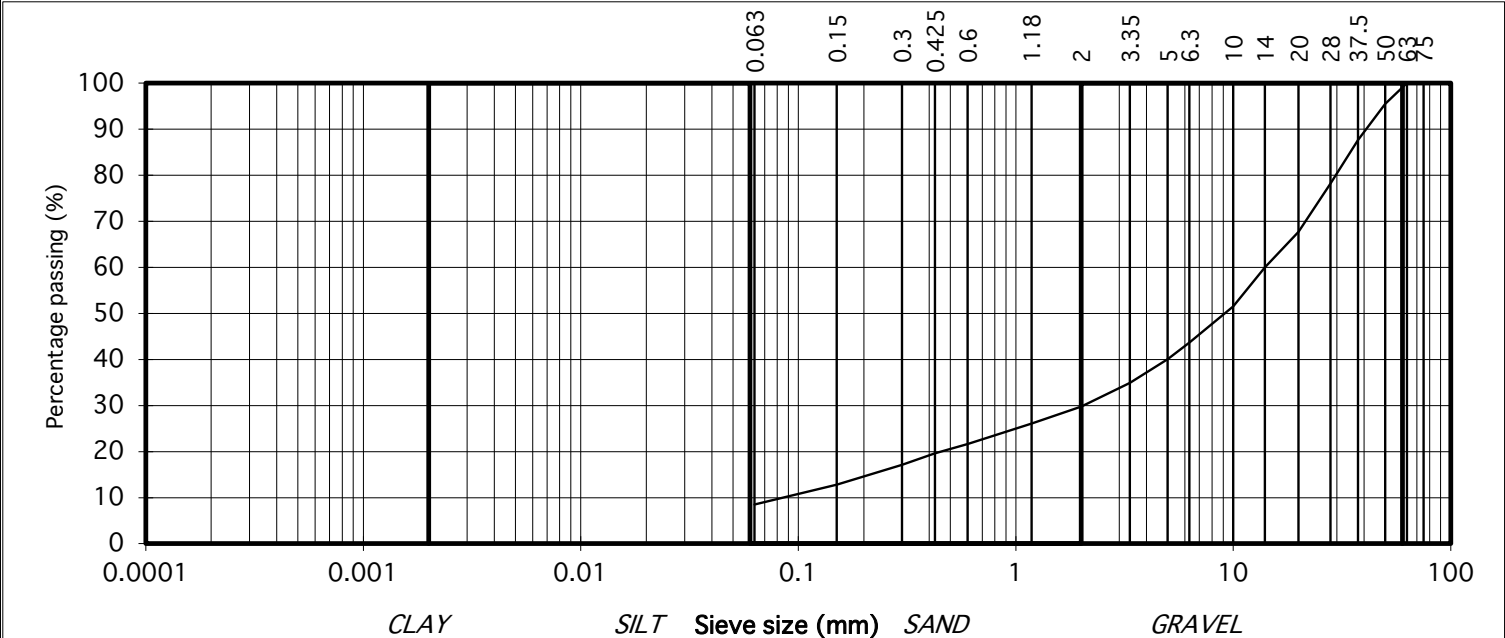


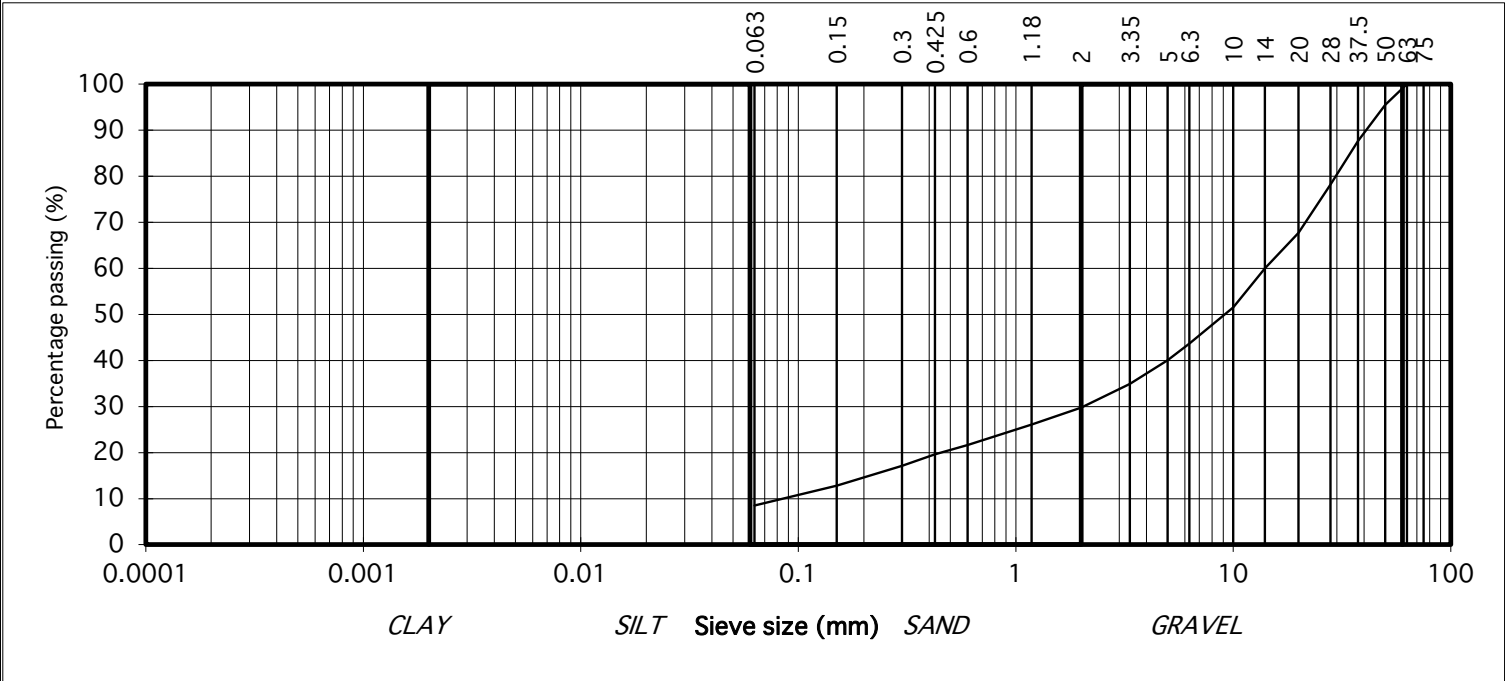
TEST REPORT

Determination of Particle Size Distribution

Tested in accordance with: BS1377:Part2:1990 , clause 9.2 & 9.5**
(note: Sedimentation stage not accredited)



particle size	% passing		Contract No.	25758	Report No.	R166168	Results relate only to the specimen tested in as received condition unless otherwise noted. * denotes Customer supplied information. Opinions and interpretations are outside the scope of accreditation. This report shall not be reproduced except in full without the written approval of the Laboratory.					
			Contract Name :	MT Avenue Dundalk								
			BH/TP No.	TP54								
			Sample No.*	AA236849	Lab. Sample No.	A25/0227						
			Sample Type:	B								
			Depth* (m)	1.80	Customer:	DBFL						
			Date Received	28/01/2025	Date Testing started	28/01/2025						
			Description:	Brown clayey/silty, very sandy, GRAVEL								
			Remarks	Note: **Clause 9.2 and Clause 9.5 of BS1377:Part 2:1990 have been superseded by ISO17892-4:2016 .								
75	100	COBBLES										
63	100											
50	96											
37.5	88											
28	78											
20	68											
14	60											
10	52	GRAVEL										
6.3	44											
5	40											
3.35	35											
2	30											
1.18	26											
0.6	22											
0.425	20	SAND										
0.3	17											
0.15	13											
0.063	8											
		SILT/CLAY										



IGSL Ltd Materials Laboratory	Approved by:	Date:	Page no:
	<i>H Byrne</i>	28/04/25	1 of 1

Persons authorised to approve report: J Barrett (Quality Manager) H Byrne (Laboratory Manager)

TEST REPORT

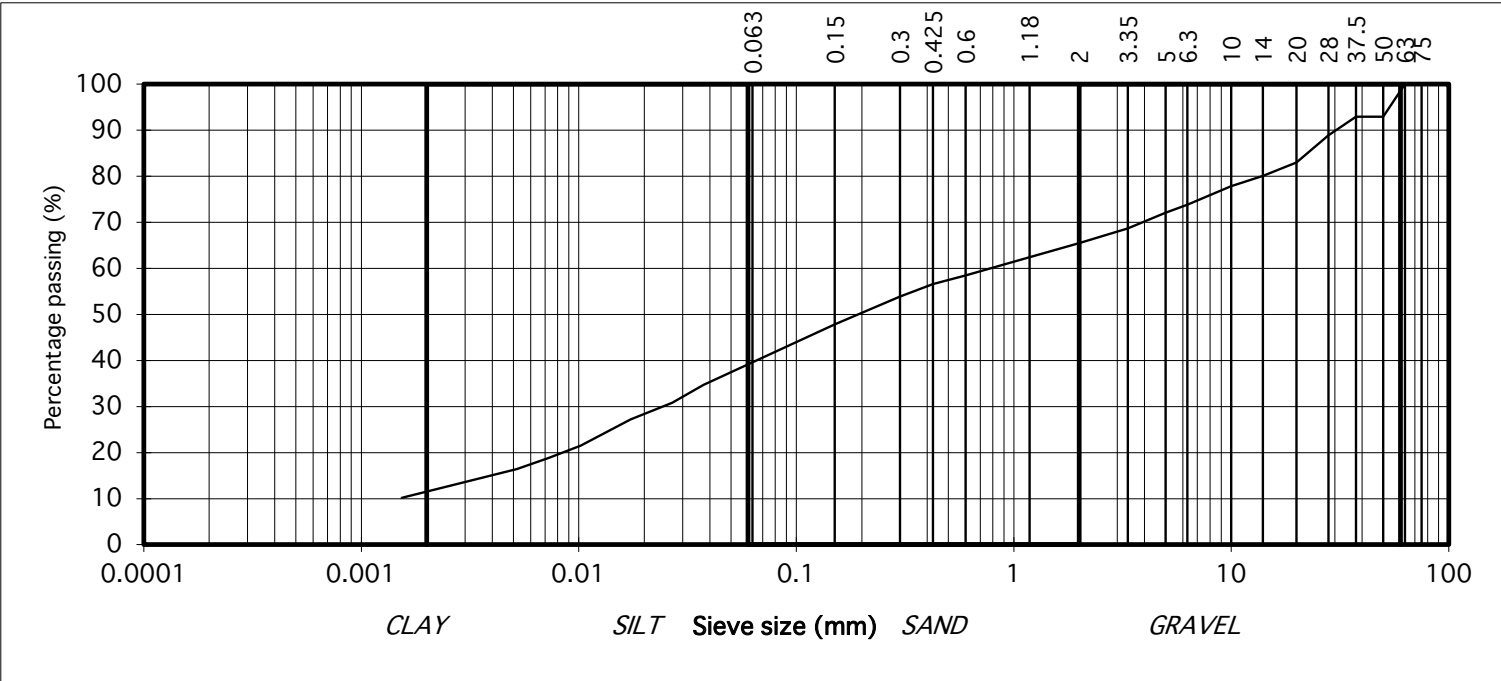
Determination of Particle Size Distribution

Tested in accordance with: BS1377:Part2:1990 , clause 9.2 & 9.5**
(note: Sedimentation stage not accredited)



particle size	% passing		Contract No.	25758	Report No.	R166169	Results relate only to the specimen tested in as received condition unless otherwise noted. * denotes Customer supplied information. Opinions and interpretations are outside the scope of accreditation. This report shall not be reproduced except in full without the written approval of the Laboratory.																																																				
			Contract Name :	MT Avenue Dundalk																																																							
			BH/TP No.	TP63																																																							
			Sample No.*	AA235770	Lab. Sample No.	A25/0229																																																					
			Sample Type:	B																																																							
			Depth* (m)	2.70	Customer:	DBFL																																																					
			Date Received	28/01/2025	Date Testing started	28/01/2025																																																					
			Description:	Brown slightly sandy, slightly gravelly, SILT/CLAY																																																							
			Remarks	Note: **Clause 9.2 and Clause 9.5 of BS1377:Part 2:1990 have been superseded by ISO17892-4:2016 .																																																							
75	100	COBBLES	<table><caption>Grain Size Distribution Data</caption><thead><tr><th>Sieve Size (mm)</th><th>Percentage Passing (%)</th></tr></thead><tbody><tr><td>75</td><td>100</td></tr><tr><td>63</td><td>100</td></tr><tr><td>50</td><td>93</td></tr><tr><td>37.5</td><td>93</td></tr><tr><td>28</td><td>89</td></tr><tr><td>20</td><td>83</td></tr><tr><td>14</td><td>80</td></tr><tr><td>10</td><td>78</td></tr><tr><td>6.3</td><td>74</td></tr><tr><td>5</td><td>72</td></tr><tr><td>3.35</td><td>69</td></tr><tr><td>2</td><td>65</td></tr><tr><td>1.18</td><td>62</td></tr><tr><td>0.6</td><td>58</td></tr><tr><td>0.425</td><td>57</td></tr><tr><td>0.3</td><td>54</td></tr><tr><td>0.15</td><td>48</td></tr><tr><td>0.063</td><td>40</td></tr><tr><td>0.037</td><td>35</td></tr><tr><td>0.027</td><td>31</td></tr><tr><td>0.017</td><td>27</td></tr><tr><td>0.010</td><td>22</td></tr><tr><td>0.007</td><td>19</td></tr><tr><td>0.005</td><td>16</td></tr><tr><td>0.002</td><td>10</td></tr></tbody></table>					Sieve Size (mm)	Percentage Passing (%)	75	100	63	100	50	93	37.5	93	28	89	20	83	14	80	10	78	6.3	74	5	72	3.35	69	2	65	1.18	62	0.6	58	0.425	57	0.3	54	0.15	48	0.063	40	0.037	35	0.027	31	0.017	27	0.010	22	0.007	19	0.005	16	0.002	10
Sieve Size (mm)	Percentage Passing (%)																																																										
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		SAND																																																									
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Results relate only to the specimen tested in as received condition unless otherwise noted. * denotes Customer supplied information. Opinions and interpretations are outside the scope of accreditation.
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TEST REPORT

Determination of Particle Size Distribution

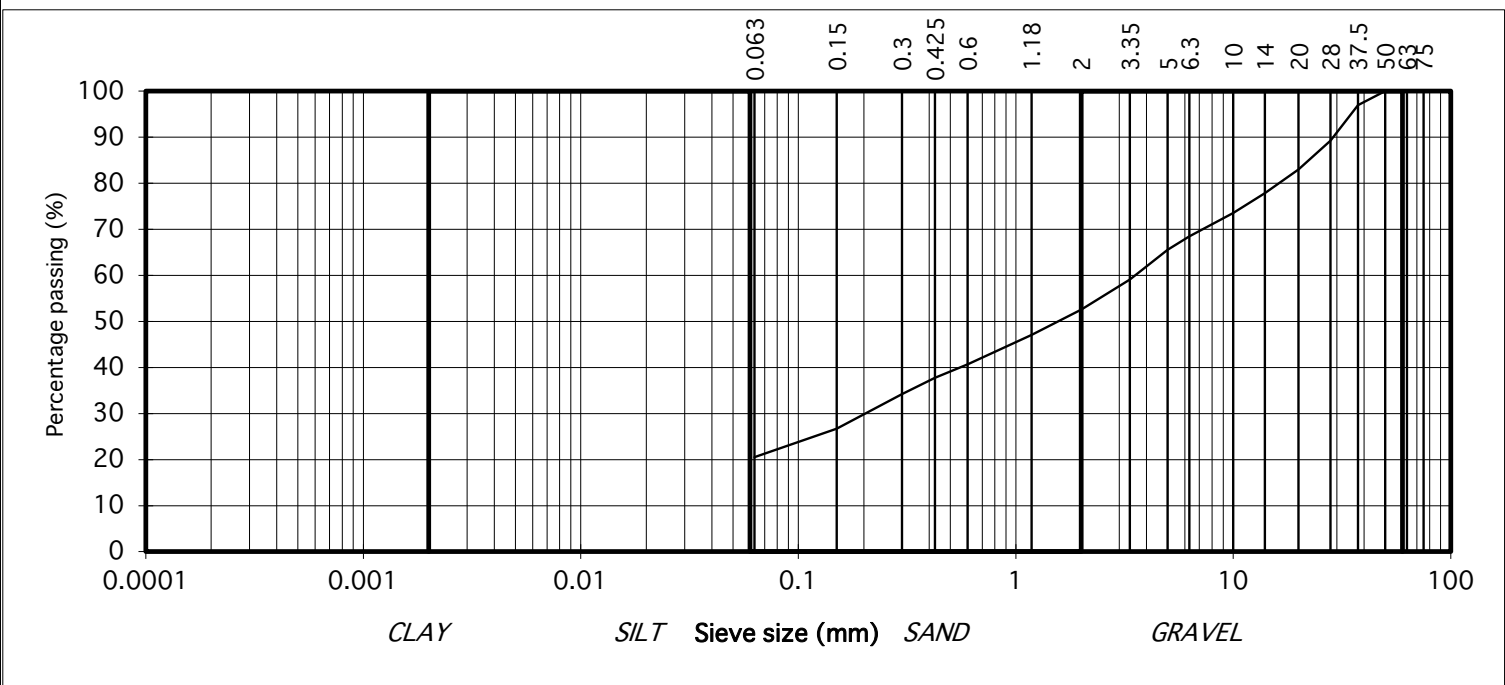
Tested in accordance with: BS1377:Part2:1990 , clause 9.2 & 9.5**
(note: Sedimentation stage not accredited)



particle size	% passing		Contract No.	25758	Report No.	R166170	Results relate only to the specimen tested in as received condition unless otherwise noted. * denotes Customer supplied information. Opinions and interpretations are outside the scope of accreditation. This report shall not be reproduced except in full without the written approval of the Laboratory.
			Contract Name :	MT Avenue Dundalk			
			BH/TP No.	TP73			
			Sample No.*	AA246849	Lab. Sample No.	A25/0233	
			Sample Type:	B			
			Depth* (m)	1.50	Customer:	DBFL	
			Date Received	28/01/2025	Date Testing started	28/01/2025	
			Description:	Brown slightly sandy, gravelly, SILT/CLAY			
			Remarks	Note: **Clause 9.2 and Clause 9.5 of BS1377:Part 2:1990 have been superseded by ISO17892-4:2016 .			
75	100	COBBLES					
63	100						
50	100						
37.5	97						
28	89						
20	83						
14	78						
10	74		GRAVEL				
6.3	69						
5	66						
3.35	59						
2	53						
1.18	47						
0.6	41						
0.425	38	SAND					
0.3	34						
0.15	27						
0.063	21						
		SILT/CLAY					

Sieve size (mm)	Percentage passing (%)
0.063	100
0.15	97
0.3	89
0.425	83
0.6	78
1.18	74
2	69
3.35	66
5	59
6.3	53
10	47
14	41
20	38
28	34
37.5	27
50	21
75	100

Results relate only to the specimen tested in as received condition unless otherwise noted. * denotes Customer supplied information. Opinions and interpretations are outside the scope of accreditation.
This report shall not be reproduced except in full without the written approval of the Laboratory.

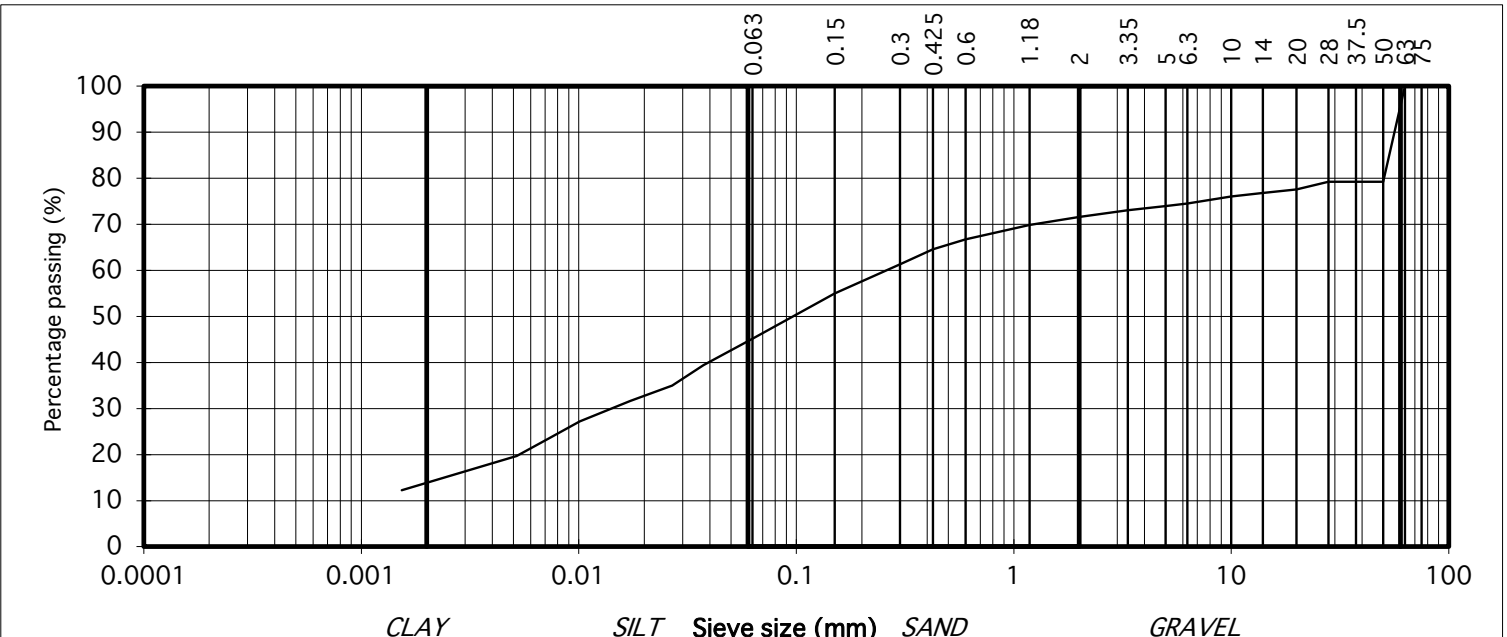


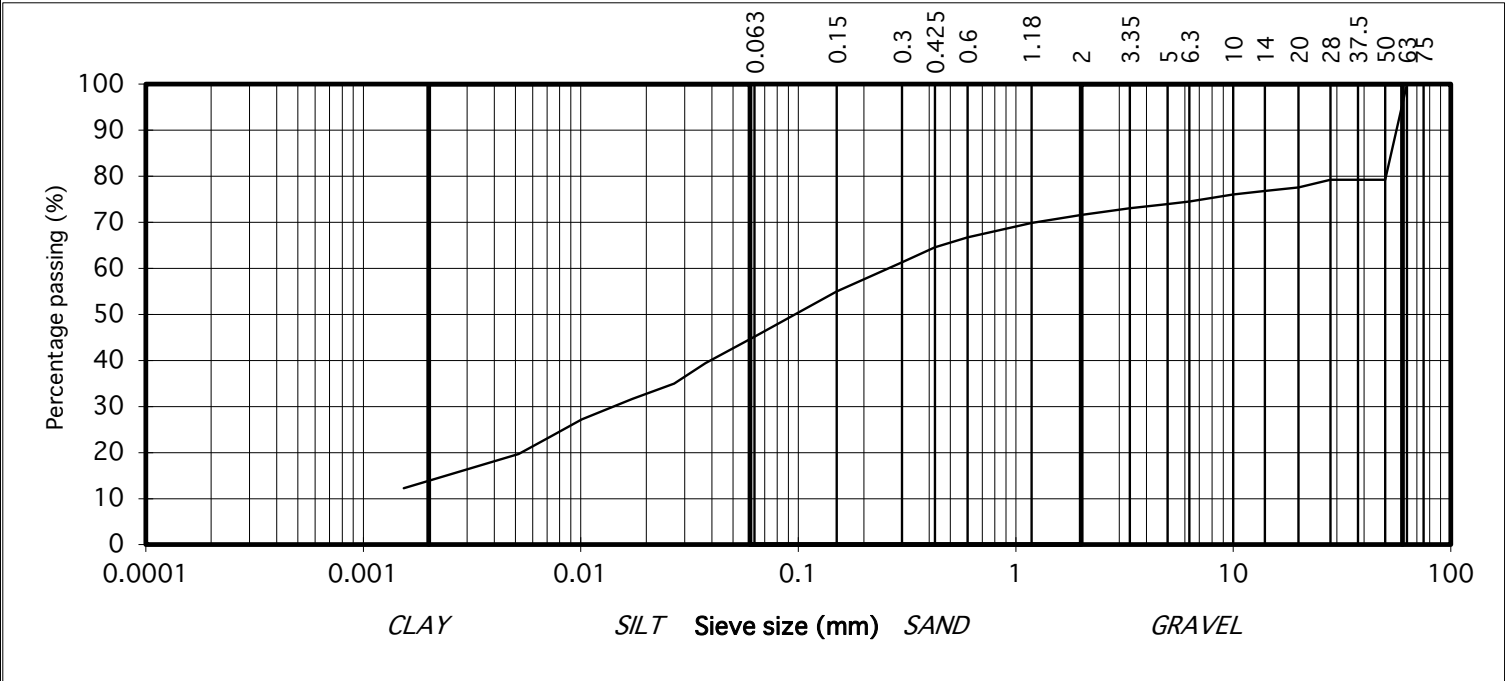
TEST REPORT

Determination of Particle Size Distribution

Tested in accordance with: BS1377:Part2:1990 , clause 9.2 & 9.5**
(note: Sedimentation stage not accredited)



particle size	% passing		Contract No.	25758	Report No.	R166171	Results relate only to the specimen tested in as received condition unless otherwise noted. * denotes Customer supplied information. Opinions and interpretations are outside the scope of accreditation. This report shall not be reproduced except in full without the written approval of the Laboratory.
			Contract Name :	MT Avenue Dundalk			
			BH/TP No.	TP75			
			Sample No.*	AA235751	Lab. Sample No.	A25/0234	
			Sample Type:	B			
			Depth* (m)	1.50	Customer:	DBFL	
			Date Received	28/01/2025	Date Testing started	28/01/2025	
			Description:	Brown slightly sandy, slightly gravelly, SILT/CLAY			
			Remarks	Note: **Clause 9.2 and Clause 9.5 of BS1377:Part 2:1990 have been superseded by ISO17892-4 Sample size did not meet the requirements of BS1377			
75	100	COBBLES					
63	100						
50	79						
37.5	79						
28	79						
20	78						
14	77						
10	76						
6.3	75	GRAVEL					
5	74						
3.35	73						
2	72						
1.18	70						
0.6	67						
0.425	65						
0.3	61						
0.15	55	SAND					
0.063	45						
0.037	39						
0.027	35						
0.017	32						
0.010	27						
0.007	23						
0.005	20						
0.002	12	SILT/CLAY					



IGSL Ltd Materials Laboratory	Approved by:	Date:	Page no:
	<i>H Byrne</i>	28/04/25	1 of 1

Persons authorised to approve report: J Barrett (Quality Manager) H Byrne (Laboratory Manager)

TEST REPORT

Determination of Particle Size Distribution

Tested in accordance with: BS1377:Part2:1990 , clause 9.2 & 9.5**
(note: Sedimentation stage not accredited)



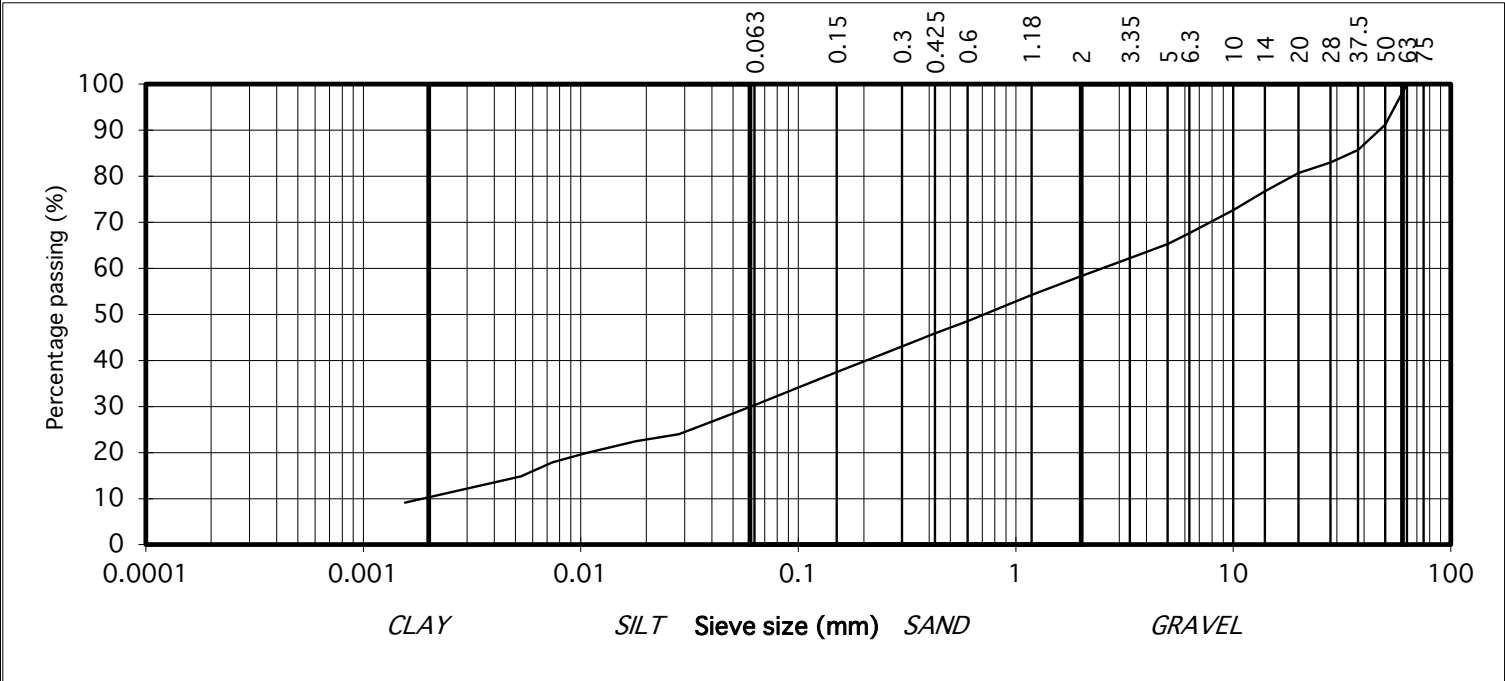
particle size	% passing		Contract No.	25758	Report No.	R166486 <th></th>	
			Contract Name :	MT Avenue Dundalk			
			BH/TP No.	TP84			
			Sample No.*	AA246841	Lab. Sample No.	A25/0237	
			Sample Type:	B			
			Depth* (m)	1.80	Customer:	DBFL	
			Date Received	28/01/2025	Date Testing started	17/02/2025	
			Description:	Grey slightly sandy, gravelly, SILT/CLAY			
			Remarks	Note: **Clause 9.2 and Clause 9.5 of BS1377:Part 2:1990 have been superseded by ISO17892-4:2016 .			
75	100	COBBLES	Results relate only to the specimen tested in as received condition unless otherwise noted. * denotes Customer supplied information. Opinions and interpretations are outside the scope of accreditation. This report shall not be reproduced except in full without the written approval of the Laboratory.				
63	100						
50	91						
37.5	86						
28	83						
20	81						
14	77						
10	73	GRAVEL					
6.3	68						
5	65						
3.35	62						
2	58						
1.18	54						
0.6	49						
0.425	46	SAND					
0.3	43						
0.15	37						
0.063	30						
0.040	27						
0.028	24						
0.018	22						
0.010	20	SILT/CLAY					
0.007	18						
0.005	15						
0.002	9						

Percentage passing (%)

Sieve size (mm)

CLAY SILT SAND GRAVEL

Sieve Size (mm)	Percentage Passing (%)
75	100
63	100
50	91
37.5	86
28	83
20	81
14	77
10	73
6.3	68
5	65
3.35	62
2	58
1.18	54
0.6	49
0.425	46
0.3	43
0.15	37
0.063	30
0.040	27
0.028	24
0.018	22
0.010	20
0.007	18
0.005	15
0.002	9



IGSL Ltd Materials Laboratory	Approved by:	Date:	Page no:
	<i>H Byrne</i>	28/04/25	1 of 1
Persons authorised to approve report: J Barrett (Quality Manager) H Byrne (Laboratory Manager)			

IGSL Ltd Materials Laboratory Unit J5,M7 Business Park Naas Co. Kildare 045 899324	Test Report																																								
	Determination of Moisture Condition Value at Natural Moisture Content																																								
	Tested in accordance with BS1377-2:2022, clause 13																																								
<table border="0" style="width: 100%;"> <tr> <td style="width: 50%;">Report No.</td> <td style="width: 50%;">R166014</td> </tr> <tr> <td>Contract No.</td> <td>25758</td> </tr> <tr> <td>Contract Name:</td> <td>MT Avenue Dundalk</td> </tr> <tr> <td>Customer:</td> <td>DBFL</td> </tr> <tr> <td>BH/TP*</td> <td>TP32</td> </tr> <tr> <td>Sample No.*</td> <td>AA236786</td> </tr> <tr> <td>Depth* (m)</td> <td>1.40</td> </tr> <tr> <td>Sample Type:</td> <td>B</td> </tr> <tr> <td>Lab Sample No.</td> <td>A25/0219</td> </tr> <tr> <td>Source* (if applicable)</td> <td>N/A</td> </tr> <tr> <td>Material Type* (if applicable):</td> <td>B</td> </tr> <tr> <td>Sample Received:</td> <td>28/01/25</td> </tr> <tr> <td>Date Tested:</td> <td>29/01/25</td> </tr> <tr> <td>Sample Cert:</td> <td>N/A</td> </tr> <tr> <td>Water Content (%):</td> <td>16.0</td> </tr> <tr> <td>% Particles > 20mm (By dry mass):</td> <td>12</td> </tr> <tr> <td>MCV:</td> <td>6.3</td> </tr> <tr> <td>Interpretation of Plot:</td> <td>Steepest Straight Line</td> </tr> <tr> <td>Description of Soil:</td> <td>Brown sandy gravelly SILT/CLAY</td> </tr> </table>				Report No.	R166014	Contract No.	25758	Contract Name:	MT Avenue Dundalk	Customer:	DBFL	BH/TP*	TP32	Sample No.*	AA236786	Depth* (m)	1.40	Sample Type:	B	Lab Sample No.	A25/0219	Source* (if applicable)	N/A	Material Type* (if applicable):	B	Sample Received:	28/01/25	Date Tested:	29/01/25	Sample Cert:	N/A	Water Content (%):	16.0	% Particles > 20mm (By dry mass):	12	MCV:	6.3	Interpretation of Plot:	Steepest Straight Line	Description of Soil:	Brown sandy gravelly SILT/CLAY
Report No.	R166014																																								
Contract No.	25758																																								
Contract Name:	MT Avenue Dundalk																																								
Customer:	DBFL																																								
BH/TP*	TP32																																								
Sample No.*	AA236786																																								
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IGSL Ltd Materials Laboratory		Approved by	Date																																						
			28/04/25																																						
		Page	1 of 1																																						

IGSL Ltd Materials Laboratory Unit J5,M7 Business Park Naas Co. Kildare 045 899324	Test Report																																								
	Determination of Moisture Condition Value at Natural Moisture Content																																								
	Tested in accordance with BS1377-2:2022, clause 13																																								
<table border="0" style="width: 100%;"> <tr> <td style="width: 50%;">Report No.</td> <td style="width: 50%;">R166153</td> </tr> <tr> <td>Contract No.</td> <td>25758</td> </tr> <tr> <td>Contract Name:</td> <td>MT Avenue Dundalk</td> </tr> <tr> <td>Customer:</td> <td>DBFL</td> </tr> <tr> <td>BH/TP*</td> <td>TP02</td> </tr> <tr> <td>Sample No.*</td> <td>AA245755</td> </tr> <tr> <td>Depth* (m)</td> <td>0.50</td> </tr> <tr> <td>Sample Type:</td> <td>B</td> </tr> <tr> <td>Lab Sample No.</td> <td>A25/0208</td> </tr> <tr> <td>Source* (if applicable)</td> <td>N/A</td> </tr> <tr> <td>Material Type* (if applicable):</td> <td>B</td> </tr> <tr> <td>Sample Received:</td> <td>28/01/25</td> </tr> <tr> <td>Date Tested:</td> <td>17/02/25</td> </tr> <tr> <td>Sample Cert:</td> <td>N/A</td> </tr> <tr> <td>Water Content (%):</td> <td>13.1</td> </tr> <tr> <td>% Particles > 20mm (By dry mass):</td> <td>32</td> </tr> <tr> <td>MCV:</td> <td>3.4</td> </tr> <tr> <td>Interpretation of Plot:</td> <td>Steepest Straight Line</td> </tr> <tr> <td>Description of Soil:</td> <td>Brown sandy gravelly SILT/CLAY</td> </tr> </table>				Report No.	R166153	Contract No.	25758	Contract Name:	MT Avenue Dundalk	Customer:	DBFL	BH/TP*	TP02	Sample No.*	AA245755	Depth* (m)	0.50	Sample Type:	B	Lab Sample No.	A25/0208	Source* (if applicable)	N/A	Material Type* (if applicable):	B	Sample Received:	28/01/25	Date Tested:	17/02/25	Sample Cert:	N/A	Water Content (%):	13.1	% Particles > 20mm (By dry mass):	32	MCV:	3.4	Interpretation of Plot:	Steepest Straight Line	Description of Soil:	Brown sandy gravelly SILT/CLAY
Report No.	R166153																																								
Contract No.	25758																																								
Contract Name:	MT Avenue Dundalk																																								
Customer:	DBFL																																								
BH/TP*	TP02																																								
Sample No.*	AA245755																																								
Depth* (m)	0.50																																								
Sample Type:	B																																								
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Sample Cert:	N/A																																								
Water Content (%):	13.1																																								
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MCV:	3.4																																								
Interpretation of Plot:	Steepest Straight Line																																								
Description of Soil:	Brown sandy gravelly SILT/CLAY																																								
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IGSL Ltd Materials Laboratory	Approved by 		Date 28/04/25																																						
			Page 1 of 1																																						

IGSL Ltd Materials Laboratory Unit J5,M7 Business Park Naas Co. Kildare 045 899324	Test Report																																								
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Report No.	R166154																																								
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Contract Name:	MT Avenue Dundalk																																								
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Lab Sample No.	A25/0221																																								
Source* (if applicable)	N/A																																								
Material Type* (if applicable):	B																																								
Sample Received:	28/01/25																																								
Date Tested:	28/01/25																																								
Sample Cert:	N/A																																								
Water Content (%):	18.5																																								
% Particles > 20mm (By dry mass):	11																																								
MCV:	3.6																																								
Interpretation of Plot:	Steepest Straight Line																																								
Description of Soil:	Brown sandy gravelly SILT/CLAY																																								
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Report No.	R166016																																								
Contract No.	25758																																								
Contract Name:	MT Avenue Dundalk																																								
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Sample Type:	B																																								
Lab Sample No.	A25/0236																																								
Source* (if applicable)	N/A																																								
Material Type* (if applicable):	B																																								
Sample Received:	28/01/25																																								
Date Tested:	25/02/25																																								
Sample Cert:	N/A																																								
Water Content (%):	17.0																																								
% Particles > 20mm (By dry mass):	4																																								
MCV:	8.8																																								
Interpretation of Plot:	Steepest Straight Line																																								
Description of Soil:	Brown sandy gravelly SILT/CLAY 2% Lime added																																								
Results relate only to the specimen tested, in as received condition unless otherwise noted. Opinions and interpretations are outside the scope of accreditation. * denotes Customer supplied information. This report shall not be reproduced except in full without written approval from the Laboratory.		Persons authorised to approve reports J Barrett (Quality Manager) H Byrne (Laboratory Manager)																																							
IGSL Ltd Materials Laboratory		Approved by	Date																																						
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		Page	1 of 1																																						

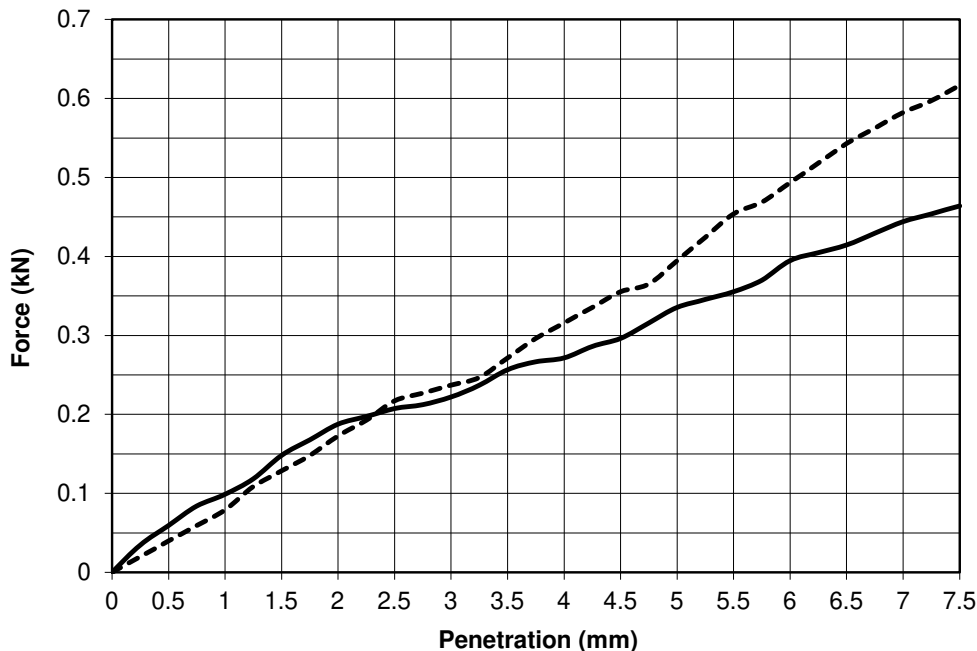
TEST REPORT

Determination of California Bearing Ratio (CBR)

Tested in accordance with BS1377:Part 2:2020, clause 15



Report No.	R166151	Contract	MT Avenue Dundalk
Contract No.	25758	Customer	DBFL
Date received	28/01/25	Date Tested	18/02/25
BH/TP No.*	TP02	Sample No.*	AA245755 Type: B
Depth* (m)	0.50	Lab sample No.	A25/0208



Key: ————— Top - - - - - Base

Description: Brown sandy gravelly SILT/CLAY			
Initial Condition:		Unsoaked	
Water Content (%):	11.9	Bulk Density (Mg/m³):	2.29
Surcharge (kg):	4	Dry Density (Mg/m³):	2.05
% Material >20mm:	14		
Method of compaction: Static Compaction Method 2			

Test Result	Top	Base
CBR %	1.7	2.0
Water Content %	11.7	12.0

Results relate only to the specimen tested, in as received condition unless otherwise noted

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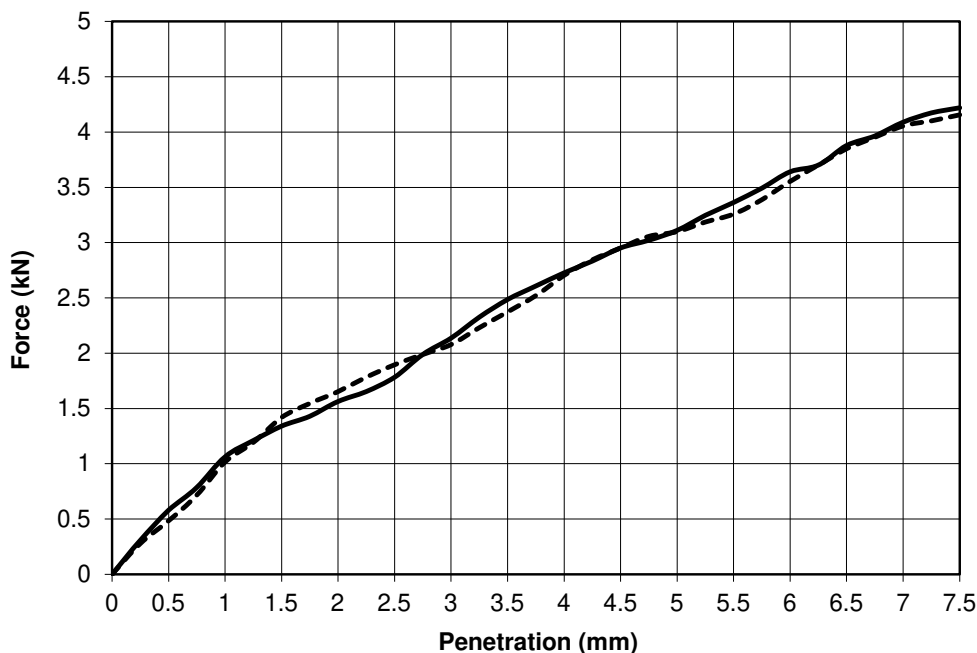
TEST REPORT

Determination of California Bearing Ratio (CBR)

Tested in accordance with BS1377:Part 2:2020, clause 15



Report No.	R166597	Contract	MT Avenue Dundalk
Contract No.	25758	Customer	DBFL
Date received	28/01/25	Date Tested	03/03/25
BH/TP No.*	TP02	Sample No.*	AA245755 Type: B
Depth* (m)	0.50	Lab sample No.	A25/0208



Key: ————— Top - - - - - Base

Description: Brown saandy gravelly SILT/CLAY 1% Lime added 3 Days Soaked			
Initial Condition:		Soaked	
Water Content (%):	13.8	Bulk Density (Mg/m³):	2.25
Surcharge (kg):	4	Dry Density (Mg/m³):	1.98
% Material >20mm:	14		
Method of compaction:		Static Compaction Method 2	

Test Result	Top	Base
CBR %	16	16
Water Content %	13.8	13.7

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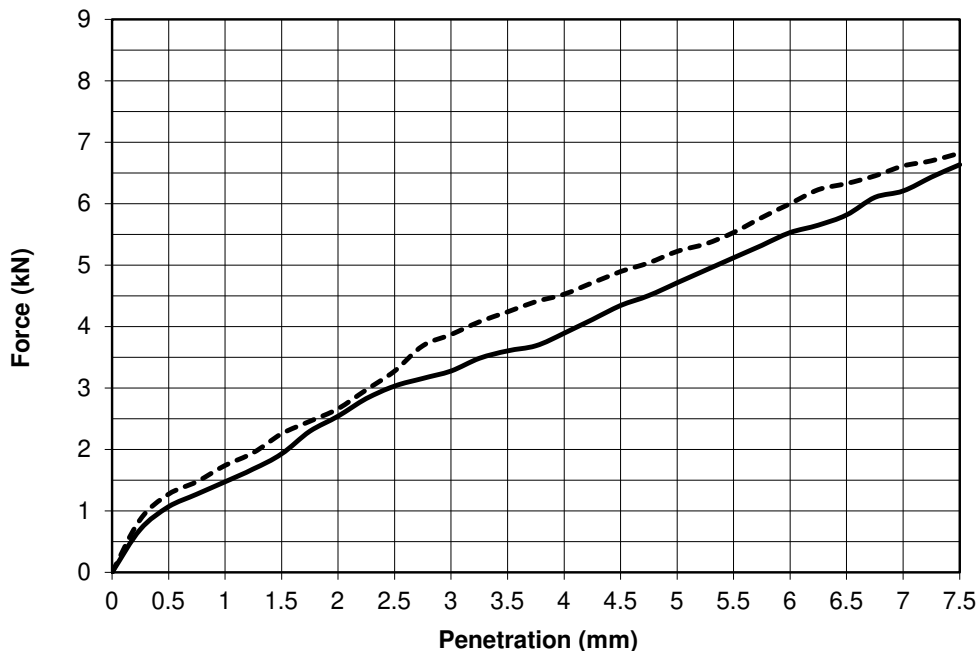
TEST REPORT

Determination of California Bearing Ratio (CBR)

Tested in accordance with BS1377:Part 2:2020, clause 15



Report No.	R166598	Contract	MT Avenue Dundalk
Contract No.	25758	Customer	DBFL
Date received	28/01/25	Date Tested	03/03/25
BH/TP No.*	TP02	Sample No.*	AA245755 Type: B
Depth* (m)	0.50	Lab sample No.	A25/0208



Key: ————— Top - - - - - Base

Description: Brown sandy gravelly SILT/CLAY 2% Lime added 3 Days Soaked			
Initial Condition:	Soaked		
Water Content (%):	13.0	Bulk Density (Mg/m³):	2.28
Surcharge (kg):	4	Dry Density (Mg/m³):	2.02
% Material >20mm:	14		
Method of compaction:	Static Compaction Method 2		

Test Result	Top	Base
CBR %	24	26
Water Content %	12.8	13.1

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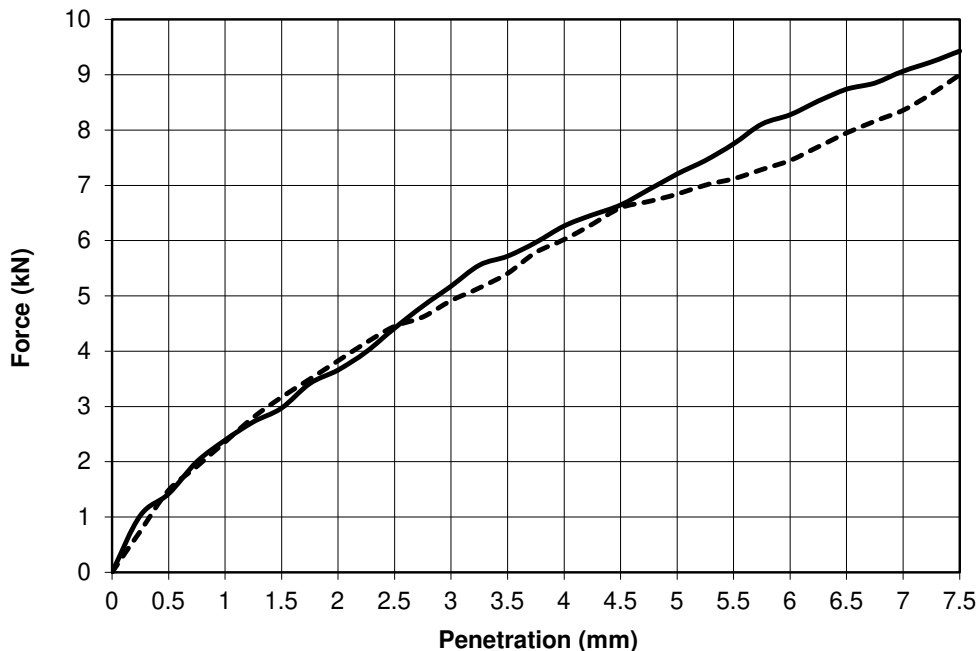
TEST REPORT

Determination of California Bearing Ratio (CBR)

Tested in accordance with BS1377:Part 2:2020, clause 15



Report No.	R166599	Contract	MT Avenue Dundalk
Contract No.	25758	Customer	DBFL
Date received	28/01/25	Date Tested	03/03/25
BH/TP No.*	TP02	Sample No.*	AA245755 Type: B
Depth* (m)	0.50	Lab sample No.	A25/0208



Key: ————— Top - - - - - Base

Description: Brown sandy gravelly SILT/CLAY 1% Lime, 2% Cement added 3 Days Soaked			
Initial Condition:		Soaked	
Water Content (%):	13.0	Bulk Density (Mg/m³):	2.26
Surcharge (kg):	4	Dry Density (Mg/m³):	2.00
% Material >20mm:	14		
Method of compaction: Static Compaction Method 2			

Test Result	Top	Base
CBR %	36	34
Water Content %	13.3	12.6

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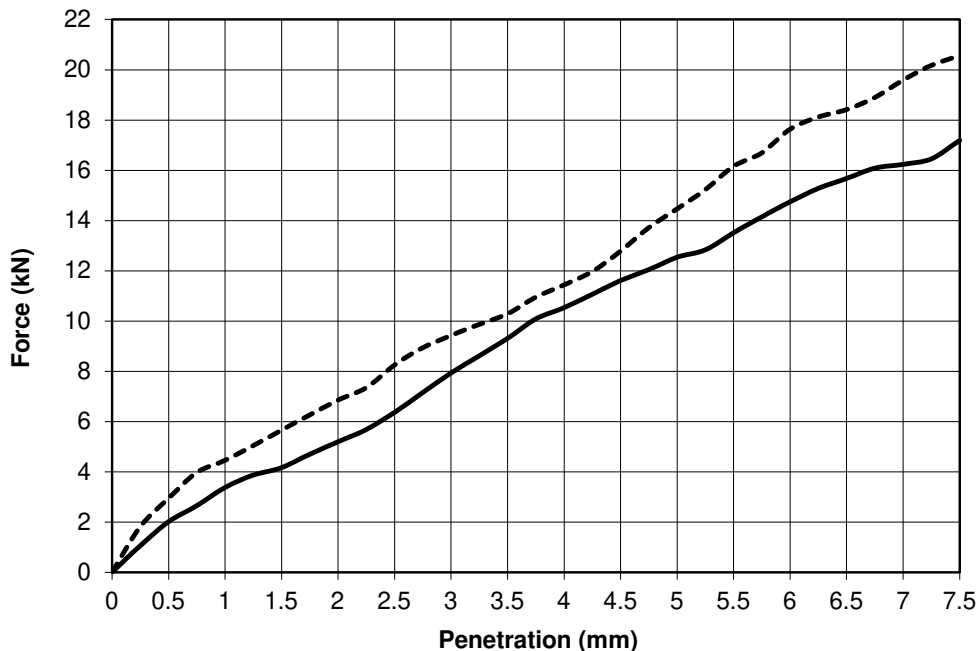
TEST REPORT

Determination of California Bearing Ratio (CBR)

Tested in accordance with BS1377:Part 2:2020, clause 15



Report No.	R166969	Contract	MT Avenue Dundalk
Contract No.	25758	Customer	DBFL
Date received	28/01/25	Date Tested	06/03/25
BH/TP No.*	TP03	Sample No.*	AA236755 Type: B
Depth* (m)	1.00	Lab sample No.	A25/0216



Key: ————— Top - - - - - Base

Description: Brown sandy gravelly SILT/CLAY 1% Lime, 2% Cement added 14 Days Soaked			
Initial Condition:		Unsoaked	
Water Content (%):	13.1	Bulk Density (Mg/m³):	2.26
Surcharge (kg):	4	Dry Density (Mg/m³):	2.00
% Material >20mm:	6.8		
Method of compaction:		Static Compaction Method 2	

Test Result	Top	Base
CBR %	63	73
Water Content %	12.8	13.4

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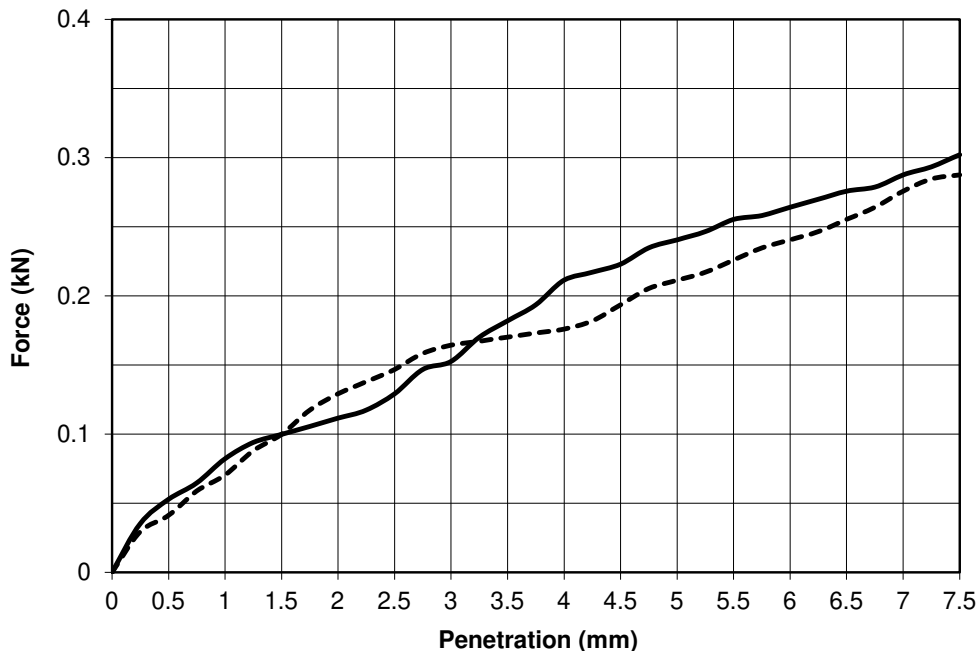
TEST REPORT

Determination of California Bearing Ratio (CBR)

Tested in accordance with BS1377:Part 2:2020, clause 15



Report No.	R166005	Contract	MT Avenue Dundalk
Contract No.	25758	Customer	DBFL
Date received	28/01/25	Date Tested	30/01/25
BH/TP No.*	TP12	Sample No.*	AA236760 Type: B
Depth* (m)	0.50	Lab sample No.	A25/0212



Key: ————— Top - - - - - Base

Description: Brown sandy gravelly SILT/CLAY			
Initial Condition:		Unsoaked	
Water Content (%):	16.6	Bulk Density (Mg/m³):	2.13
Surcharge (kg):	4	Dry Density (Mg/m³):	1.83
% Material >20mm:	6.1		
Method of compaction: Static Compaction Method 2			

Test Result	Top	Base
CBR %	1.2	1.1
Water Content %	15.9	17.3

Results relate only to the specimen tested, in as received condition unless otherwise noted

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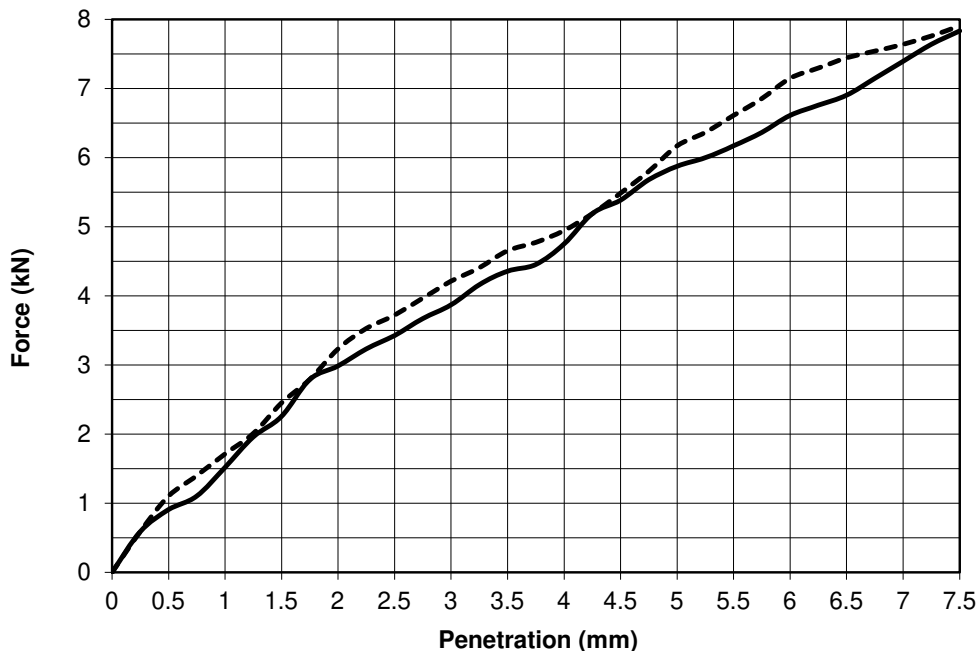
TEST REPORT

Determination of California Bearing Ratio (CBR)

Tested in accordance with BS1377:Part 2:2020, clause 15



Report No.	R166970	Contract	MT Avenue Dundalk
Contract No.	25758	Customer	DBFL
Date received	28/01/25	Date Tested	13/03/25
BH/TP No.*	TP12	Sample No.*	AA236760 Type: B
Depth* (m)	0.50	Lab sample No.	A25/0212



Key: ————— Top - - - - - Base

Description: Brown sandy gravelly SILT/CLAY 1% Lime added 14 Days Soaked			
Initial Condition:	Soaked		
Water Content (%):	14.7	Bulk Density (Mg/m³):	2.22
Surcharge (kg):	4	Dry Density (Mg/m³):	1.94
% Material >20mm:	6		
Method of compaction:	Static Compaction Method 2		

Test Result	Top	Base
CBR %	29	31
Water Content %	14.5	14.8

Results relate only to the specimen tested, in as received condition unless otherwise noted

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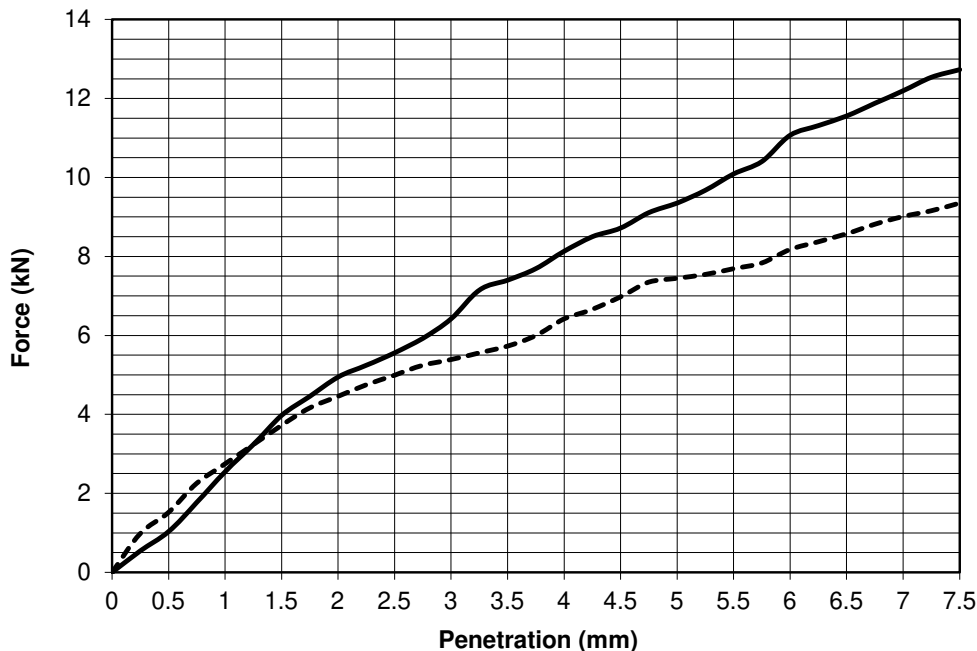
TEST REPORT

Determination of California Bearing Ratio (CBR)

Tested in accordance with BS1377:Part 2:2020, clause 15



Report No.	R166971	Contract	MT Avenue Dundalk
Contract No.	25758	Customer	DBFL
Date received	28/01/25	Date Tested	13/03/25
BH/TP No.*	TP12	Sample No.*	AA236760 Type: B
Depth* (m)	0.50	Lab sample No.	A25/0212



Key: ————— Top - - - - - Base

Description: Brown sandy gravelly SILT/CLAY 2% Lime added 14 Days Soaked			
Initial Condition:	Soaked		
Water Content (%):	15.2	Bulk Density (Mg/m³):	2.24
Surcharge (kg):	4	Dry Density (Mg/m³):	1.94
% Material >20mm:	6		
Method of compaction:	Static Compaction Method 2		

Test Result	Top	Base
CBR %	47	38
Water Content %	15.9	14.5

Results relate only to the specimen tested, in as received condition unless otherwise noted

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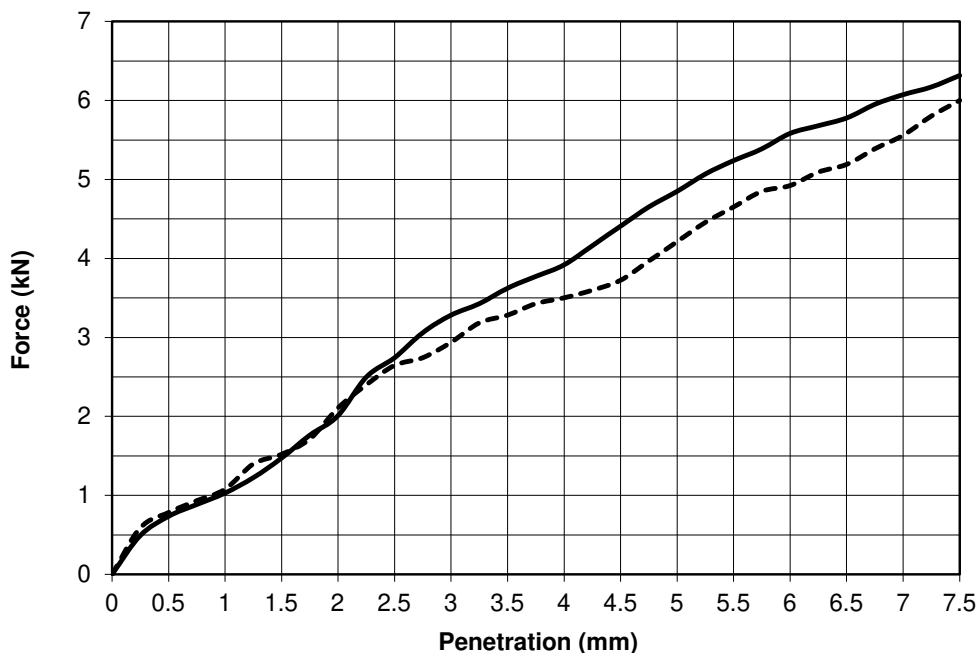
TEST REPORT

Determination of California Bearing Ratio (CBR)

Tested in accordance with BS1377:Part 2:2020, clause 15



Report No.	R166600	Contract	MT Avenue Dundalk
Contract No.	25758	Customer	DBFL
Date received	28/01/25	Date Tested	28/02/25
BH/TP No.*	TP23	Sample No.*	AA245771 Type: B
Depth* (m)	0.50	Lab sample No.	A25/0215



Key: ————— Top - - - - - Base

Description: Brown silty/clayey sandy GRAVEL 1% Lime, 2% Cement added 3 Days Soaked			
Initial Condition:		Soaked	
Water Content (%):	14.5	Bulk Density (Mg/m³):	2.25
Surcharge (kg):	4	Dry Density (Mg/m³):	1.96
% Material >20mm:	36		
Method of compaction: Static Compaction Method 2			

Test Result	Top	Base
CBR %	24	21
Water Content %	14.9	14.1

Results relate only to the specimen tested, in as received condition unless otherwise noted

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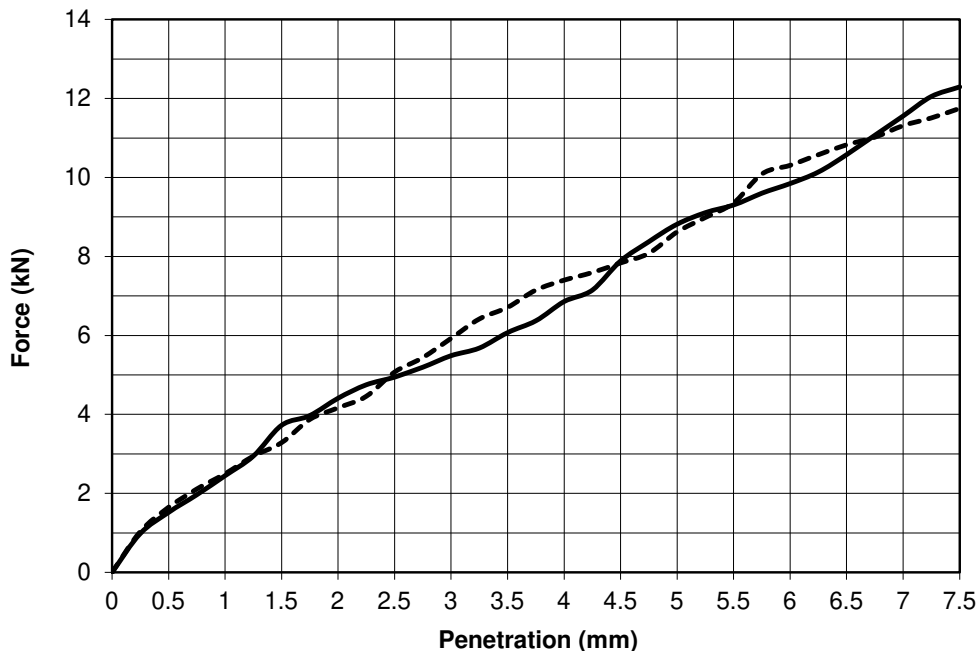
TEST REPORT

Determination of California Bearing Ratio (CBR)

Tested in accordance with BS1377:Part 2:2020, clause 15



Report No.	R166972	Contract	MT Avenue Dundalk
Contract No.	25758	Customer	DBFL
Date received	28/01/25	Date Tested	06/03/25
BH/TP No.*	TP29	Sample No.*	AA245789 Type: B
Depth* (m)	0.50	Lab sample No.	A25/0218



Key: ————— Top - - - - - Base

Description:	Brown sandy gravelly SILT/CLAY 1% Lime, 2% Cement added 14 Days Soaked		
Initial Condition:	Soaked		
Water Content (%):	15.8	Bulk Density (Mg/m³):	2.22
Surcharge (kg):	4	Dry Density (Mg/m³):	1.92
% Material >20mm:	8		
Method of compaction:	Static Compaction Method 2		

Test Result	Top	Base
CBR %	44	43
Water Content %	16.2	15.3

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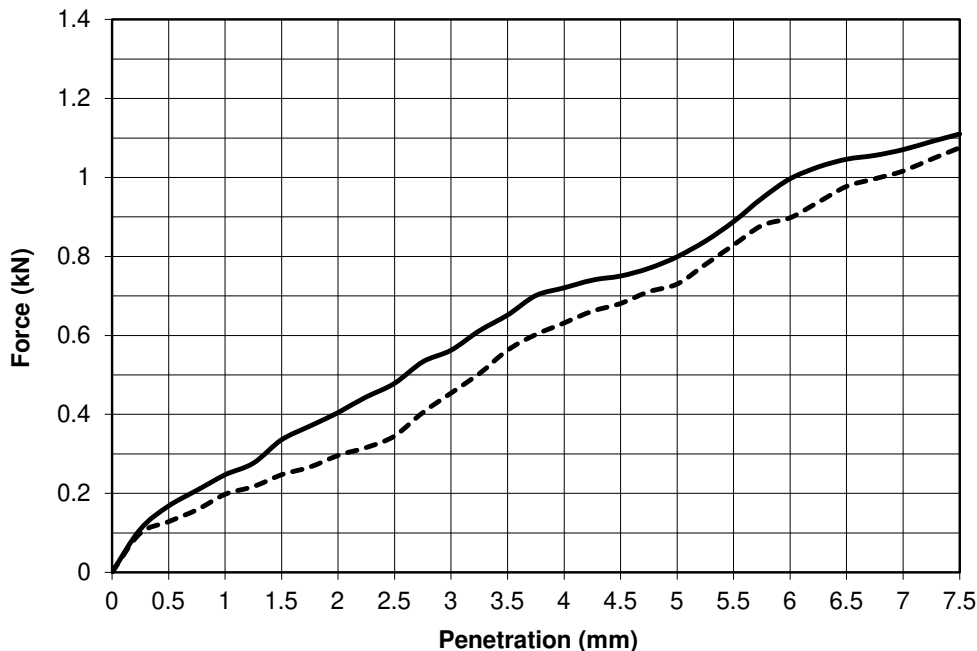
TEST REPORT

Determination of California Bearing Ratio (CBR)

Tested in accordance with BS1377:Part 2:2020, clause 15



Report No.	R166006	Contract	MT Avenue Dundalk
Contract No.	25758	Customer	DBFL
Date received	28/01/25	Date Tested	30/01/25
BH/TP No.*	TP32	Sample No.*	AA236786 Type: B
Depth* (m)	1.40	Lab sample No.	A25/0219



Key: ————— Top - - - - - Base

Description: Brown sandy gravelly SILT/CLAY			
Initial Condition:		Unsoaked	
Water Content (%):	15.9	Bulk Density (Mg/m³):	2.18
Surcharge (kg):	4	Dry Density (Mg/m³):	1.88
% Material >20mm:	1.2		
Method of compaction: Static Compaction Method 2			

Test Result	Top	Base
CBR %	4.0	3.7
Water Content %	16.1	15.7

Results relate only to the specimen tested, in as received condition unless otherwise noted

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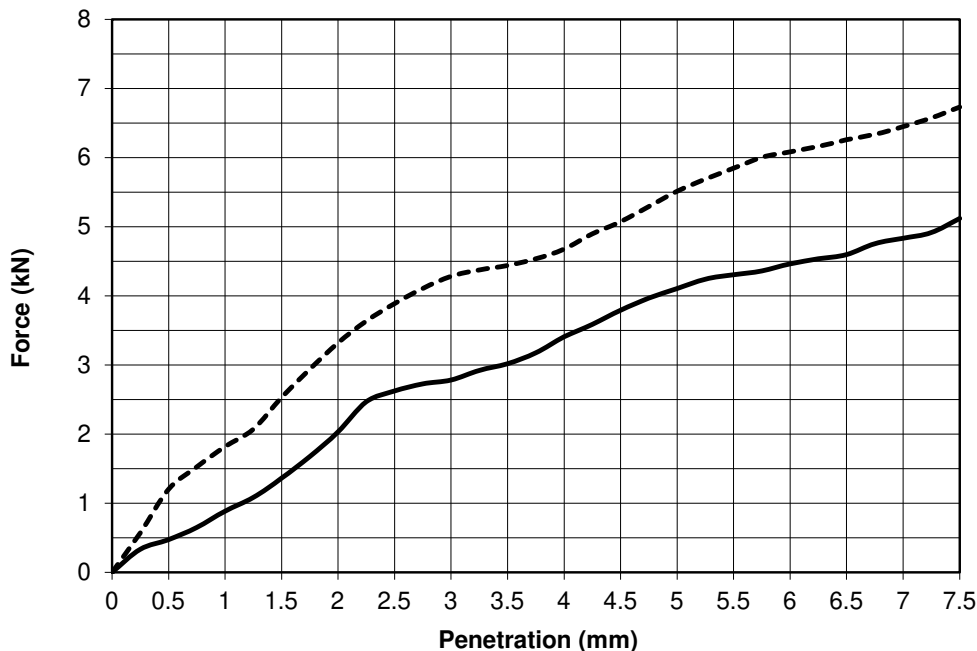
TEST REPORT

Determination of California Bearing Ratio (CBR)

Tested in accordance with BS1377:Part 2:2020, clause 15



Report No.	R166601	Contract	MT Avenue Dundalk
Contract No.	25758	Customer	DBFL
Date received	28/01/25	Date Tested	03/03/25
BH/TP No.*	TP32	Sample No.*	AA236786 Type: B
Depth* (m)	1.40	Lab sample No.	A25/0219



Key: ————— Top - - - - - Base

Description: Brown sandy gravelly SILT/CLAY 1% Lime added 3 Days Soaked			
Initial Condition:		soaked	
Water Content (%):	17.1	Bulk Density (Mg/m³):	2.25
Surcharge (kg):	4	Dry Density (Mg/m³):	1.92
% Material >20mm:	16		
Method of compaction:		Static Compaction Method 2	

Test Result	Top	Base
CBR %	21	29
Water Content %	17.8	16.4

Results relate only to the specimen tested, in as received condition unless otherwise noted

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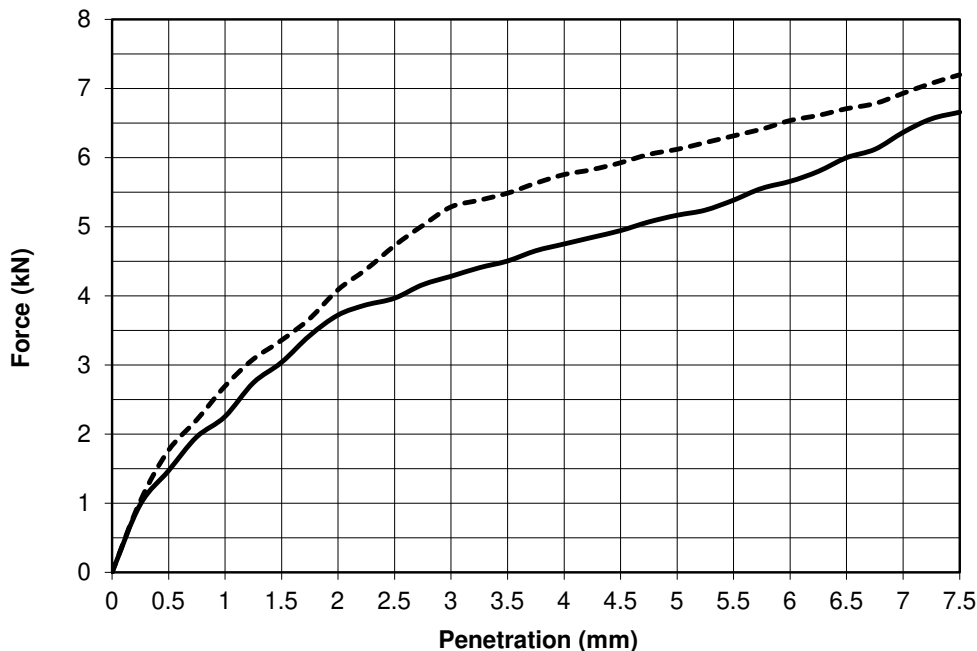
TEST REPORT

Determination of California Bearing Ratio (CBR)

Tested in accordance with BS1377:Part 2:2020, clause 15



Report No.	R166602	Contract	MT Avenue Dundalk
Contract No.	25758	Customer	DBFL
Date received	28/01/25	Date Tested	03/03/25
BH/TP No.*	TP32	Sample No.*	AA236786 Type: B
Depth* (m)	1.40	Lab sample No.	A25/0219



Key: ————— Top - - - - - Base

Description: Brown sandy gravelly SILT/CLAY 2% Lime added 3 Days Soaked			
Initial Condition:		soaked	
Water Content (%):	16.9	Bulk Density (Mg/m³):	2.22
Surcharge (kg):	4	Dry Density (Mg/m³):	1.90
% Material >20mm:	16		
Method of compaction: Static Compaction Method 2			

Test Result	Top	Base
CBR %	30	36
Water Content %	18.2	15.6

Results relate only to the specimen tested, in as received condition unless otherwise noted

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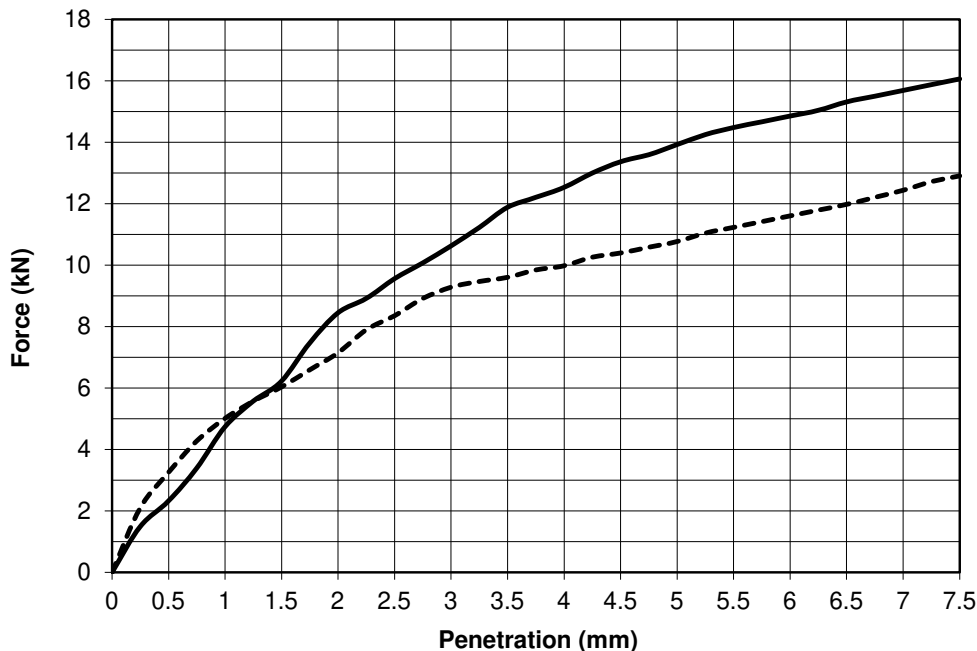
TEST REPORT

Determination of California Bearing Ratio (CBR)

Tested in accordance with BS1377:Part 2:2020, clause 15



Report No.	R166603	Contract	MT Avenue Dundalk
Contract No.	25758	Customer	DBFL
Date received	28/01/25	Date Tested	03/03/25
BH/TP No.*	TP32	Sample No.*	AA236786 Type: B
Depth* (m)	1.40	Lab sample No.	A25/0219



Key: ————— Top - - - - - Base

Description: Brown sandy gravelly SILT/CLAY 1% Lime, 2% Cement added 3 Days Soaked			
Initial Condition:		soaked	
Water Content (%):	16.0	Bulk Density (Mg/m³):	2.23
Surcharge (kg):	4	Dry Density (Mg/m³):	1.92
% Material >20mm:	16		
Method of compaction: Static Compaction Method 2			

Test Result	Top	Base
CBR %	72	63
Water Content %	16.3	15.7

Results relate only to the specimen tested, in as received condition unless otherwise noted

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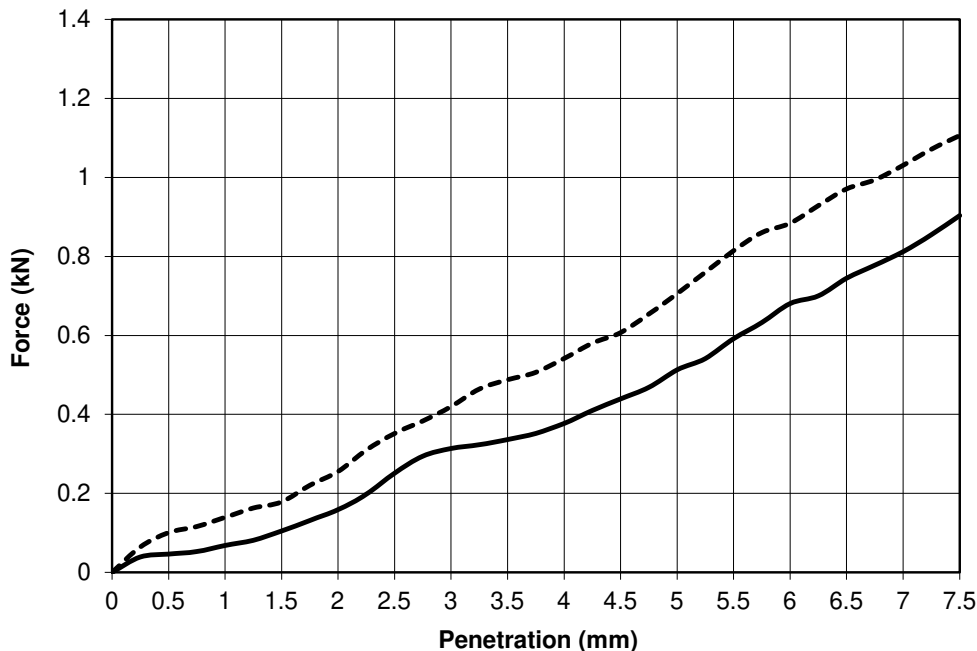
TEST REPORT

Determination of California Bearing Ratio (CBR)

Tested in accordance with BS1377:Part 2:2020, clause 15



Report No.	R166152	Contract	MT Avenue Dundalk
Contract No.	25758	Customer	DBFL
Date received	28/01/25	Date Tested	18/02/25
BH/TP No.*	TP34	Sample No.*	AA245791 Type: B
Depth* (m)	0.50	Lab sample No.	A25/0532



Key: ————— Top - - - - - Base

Description: Brown sandy gravelly SILT/CLAY			
Initial Condition:		Unsoaked	
Water Content (%):	13.3	Bulk Density (Mg/m³):	2.22
Surcharge (kg):	4	Dry Density (Mg/m³):	1.96
% Material >20mm:	24		
Method of compaction: Static Compaction Method 2			

Test Result	Top	Base
CBR %	2.6	3.5
Water Content %	13.1	13.4

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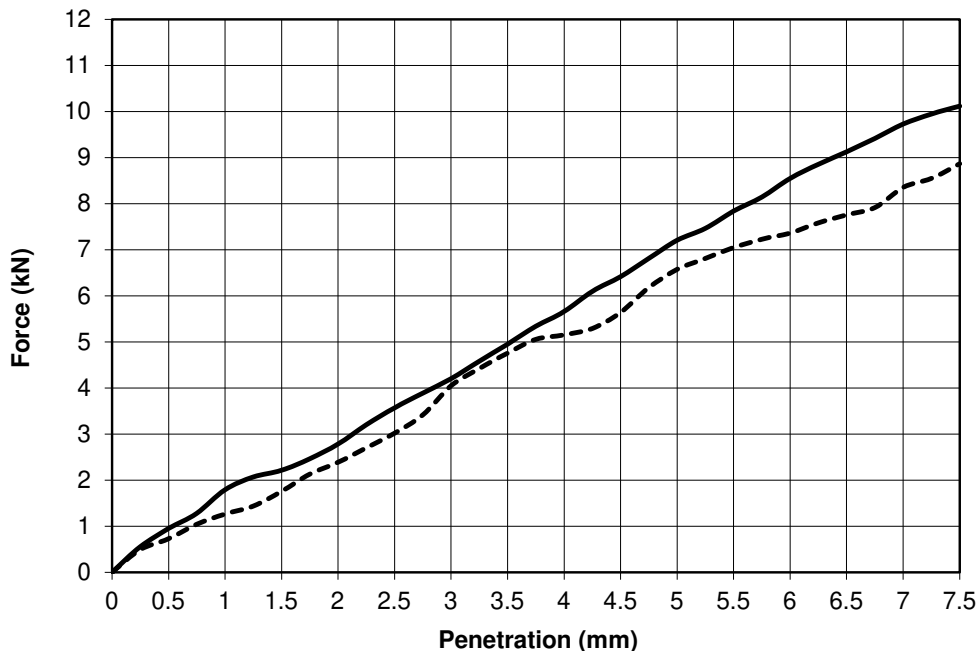
TEST REPORT

Determination of California Bearing Ratio (CBR)

Tested in accordance with BS1377:Part 2:2020, clause 15



Report No.	R166973	Contract	MT Avenue Dundalk
Contract No.	25758	Customer	DBFL
Date received	28/01/25	Date Tested	10/03/25
BH/TP No.*	TP34	Sample No.*	AA245791 Type: B
Depth* (m)	0.50	Lab sample No.	A25/0532



Key: ————— Top - - - - - Base

Description: Brown sandy gravelly SILT/CLAY 1% Lime added 14 Days Soaked			
Initial Condition:		soaked	
Water Content (%):	11.2	Bulk Density (Mg/m³):	2.28
Surcharge (kg):	4	Dry Density (Mg/m³):	2.05
% Material >20mm:	24		
Method of compaction:		Static Compaction Method 2	

Test Result	Top	Base
CBR %	36	33
Water Content %	11.1	11.2

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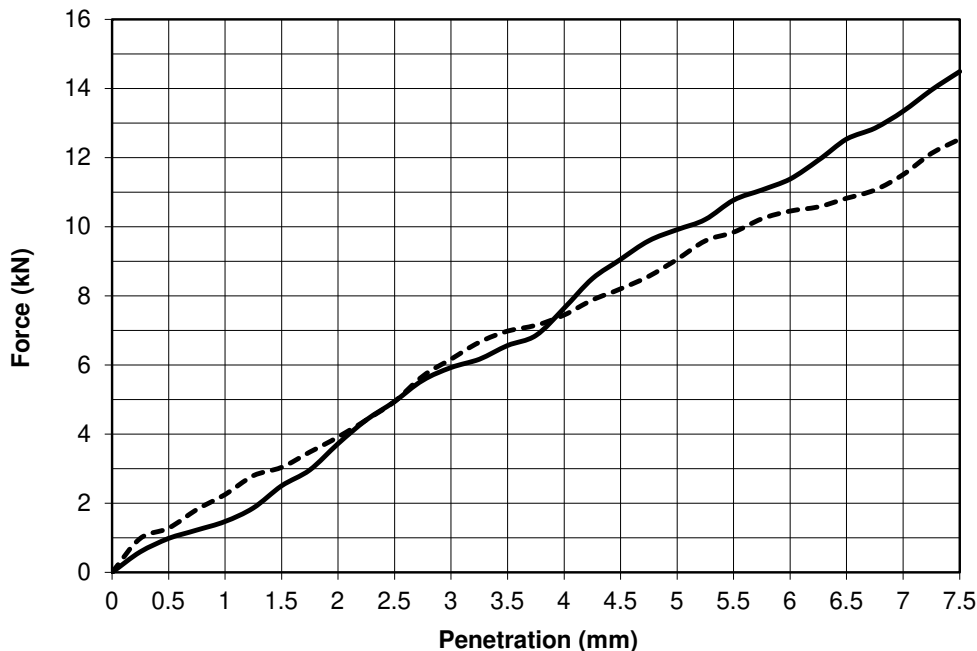
TEST REPORT

Determination of California Bearing Ratio (CBR)

Tested in accordance with BS1377:Part 2:2020, clause 15



Report No.	R166974	Contract	MT Avenue Dundalk
Contract No.	25758	Customer	DBFL
Date received	28/01/25	Date Tested	10/03/25
BH/TP No.*	TP34	Sample No.*	AA245791 Type: B
Depth* (m)	0.50	Lab sample No.	A25/0532



Key: ————— Top - - - - - Base

Description: Brown sandy gravelly SILT/CLAY 2% Lime added 14 Days Soaked			
Initial Condition:	Soaked		
Water Content (%):	11.2	Bulk Density (Mg/m³):	2.25
Surcharge (kg):	4	Dry Density (Mg/m³):	2.02
% Material >20mm:	24		
Method of compaction:	Static Compaction Method 2		

Test Result	Top	Base
CBR %	50	45
Water Content %	11.4	10.9

Results relate only to the specimen tested, in as received condition unless otherwise noted

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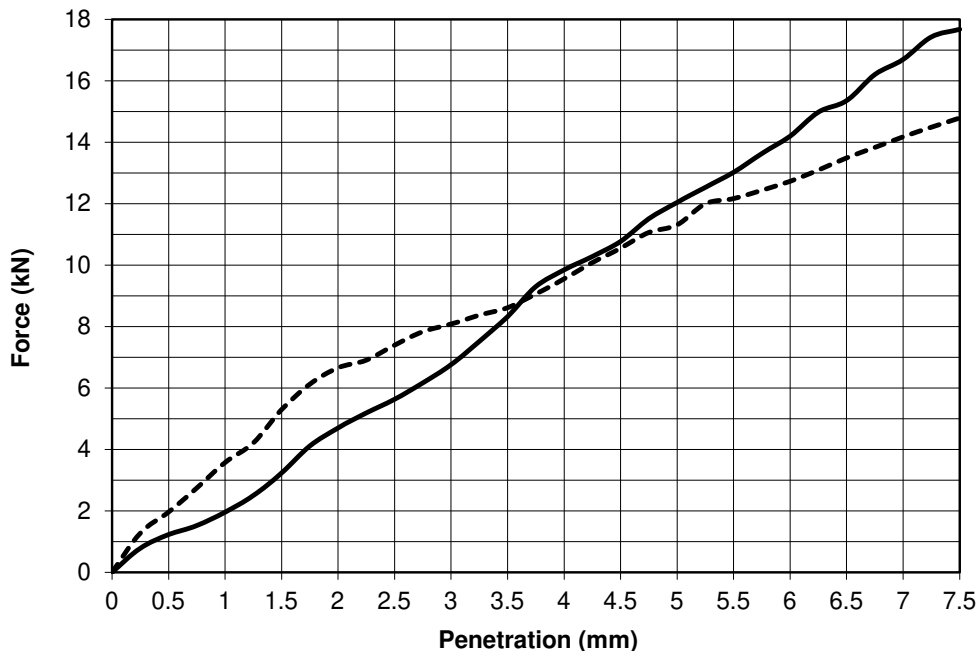
TEST REPORT

Determination of California Bearing Ratio (CBR)

Tested in accordance with BS1377:Part 2:2020, clause 15



Report No.	R166975	Contract	MT Avenue Dundalk
Contract No.	25758	Customer	DBFL
Date received	28/01/25	Date Tested	10/03/25
BH/TP No.*	TP34	Sample No.*	AA245791 Type: B
Depth* (m)	0.50	Lab sample No.	A25/0532



Key: ————— Top - - - - - Base

Description:	Brown sandy gravelly SILT/CLAY 1% Lime, 2% Cement added 14 Days Soaked		
Initial Condition:	soaked		
Water Content (%):	11.2	Bulk Density (Mg/m ³):	2.29
Surcharge (kg):	4	Dry Density (Mg/m ³):	2.05
% Material >20mm:	24		
Method of compaction:	Static Compaction Method 2		

Test Result	Top	Base
CBR %	60	57
Water Content %	11.7	11.3

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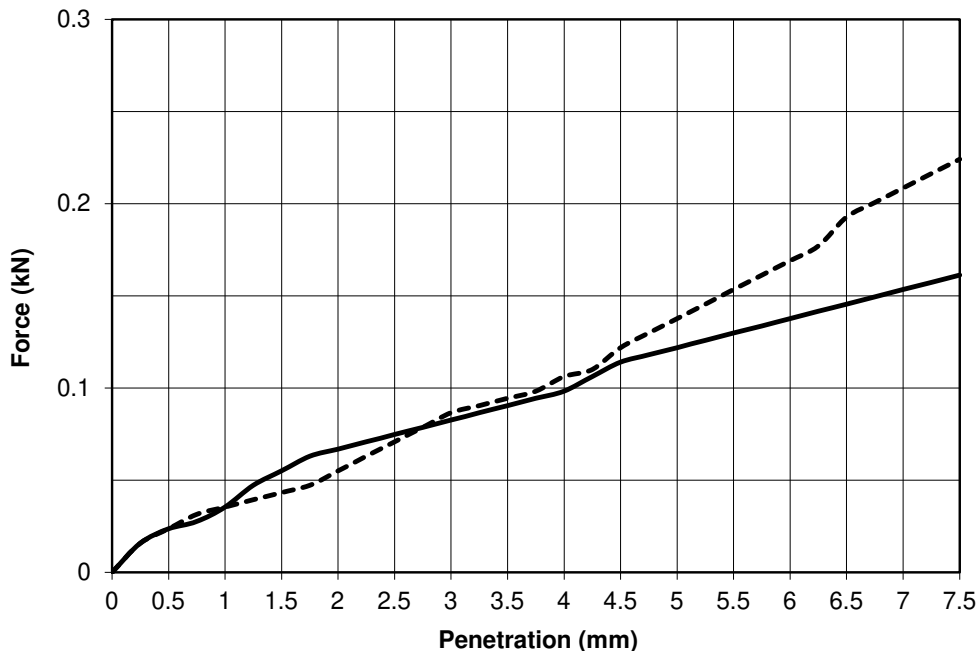
TEST REPORT

Determination of California Bearing Ratio (CBR)

Tested in accordance with BS1377:Part 2:2020, clause 15



Report No.	R166007	Contract	MT Avenue Dundalk
Contract No.	25758	Customer	DBFL
Date received	28/01/25	Date Tested	30/01/25
BH/TP No.*	TP41	Sample No.*	AA236802 Type: B
Depth* (m)	1.00	Lab sample No.	A25/0221



Key: ————— Top - - - - - Base

Description: Brown sandy gravelly SILT/CLAY			
Initial Condition:		Unsoaked	
Water Content (%):	18.7	Bulk Density (Mg/m³):	2.11
Surcharge (kg):	4	Dry Density (Mg/m³):	1.78
% Material >20mm:	8.9		
Method of compaction: Static Compaction Method 2			

Test Result	Top	Base
CBR %	0.6	0.7
Water Content %	18.2	19.2

Results relate only to the specimen tested, in as received condition unless otherwise noted

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Unit J5,M7 Business Park
Naas Co.Kildare
045 899324

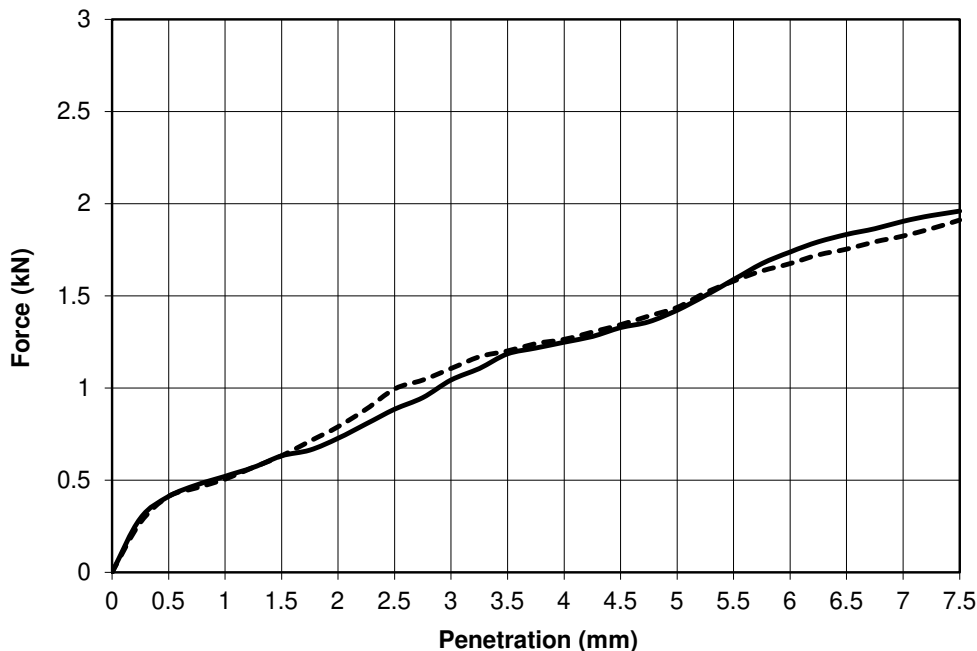
TEST REPORT

Determination of California Bearing Ratio (CBR)

Tested in accordance with BS1377:Part 2:2020, clause 15



Report No.	R166604	Contract	MT Avenue Dundalk
Contract No.	25758	Customer	DBFL
Date received	28/01/25	Date Tested	27/02/25
BH/TP No.*	TP41	Sample No.*	AA236802 Type: B
Depth* (m)	1.00	Lab sample No.	A25/0221



Key: ————— Top - - - - - Base

Description: Brown sandy gravelly SILT/CLAY 1% Lime added 3 Days Soaked			
Initial Condition:	soaked		
Water Content (%):	20.3	Bulk Density (Mg/m³):	2.05
Surcharge (kg):	4	Dry Density (Mg/m³):	1.70
% Material >20mm:	8.9		
Method of compaction:	Static Compaction Method 2		

Test Result	Top	Base
CBR %	7.1	7.5
Water Content %	20.3	20.3

Results relate only to the specimen tested, in as received condition unless otherwise noted

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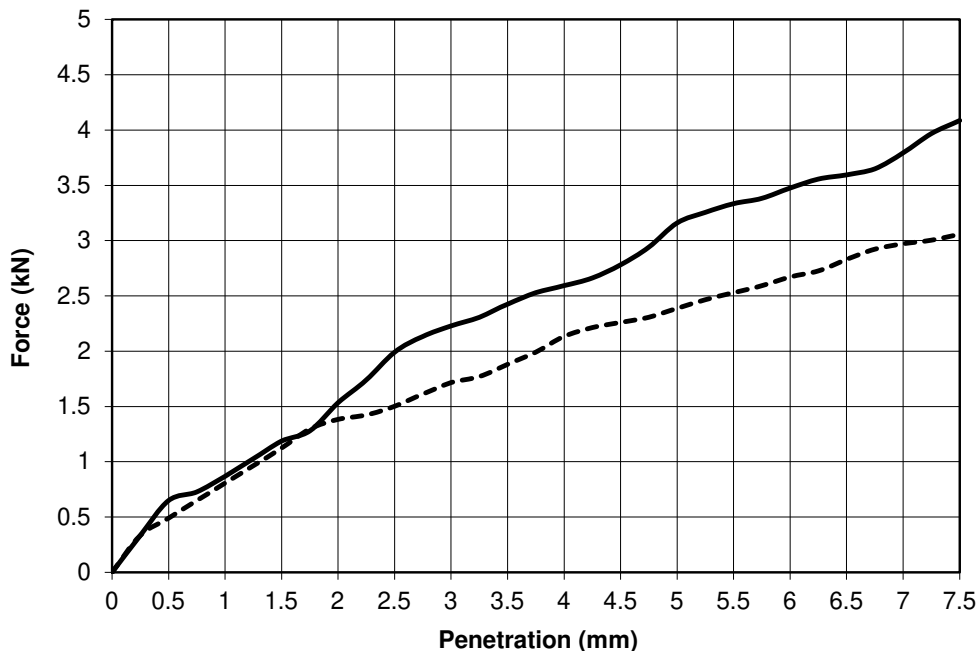
TEST REPORT

Determination of California Bearing Ratio (CBR)

Tested in accordance with BS1377:Part 2:2020, clause 15



Report No.	R166605	Contract	MT Avenue Dundalk
Contract No.	25758	Customer	DBFL
Date received	28/01/25	Date Tested	27/02/25
BH/TP No.*	TP41	Sample No.*	AA236802 Type: B
Depth* (m)	1.00	Lab sample No.	A25/0221



Key: ————— Top - - - - - Base

Description: Brown sandy gravelly SILT/CLAY 2% Lime added 3 Days Soaked			
Initial Condition:		soaked	
Water Content (%):	20.0	Bulk Density (Mg/m³):	2.09
Surcharge (kg):	4	Dry Density (Mg/m³):	1.74
% Material >20mm:	8.9		
Method of compaction: Static Compaction Method 2			

Test Result	Top	Base
CBR %	16	12
Water Content %	19.9	20.0

Results relate only to the specimen tested, in as received condition unless otherwise noted

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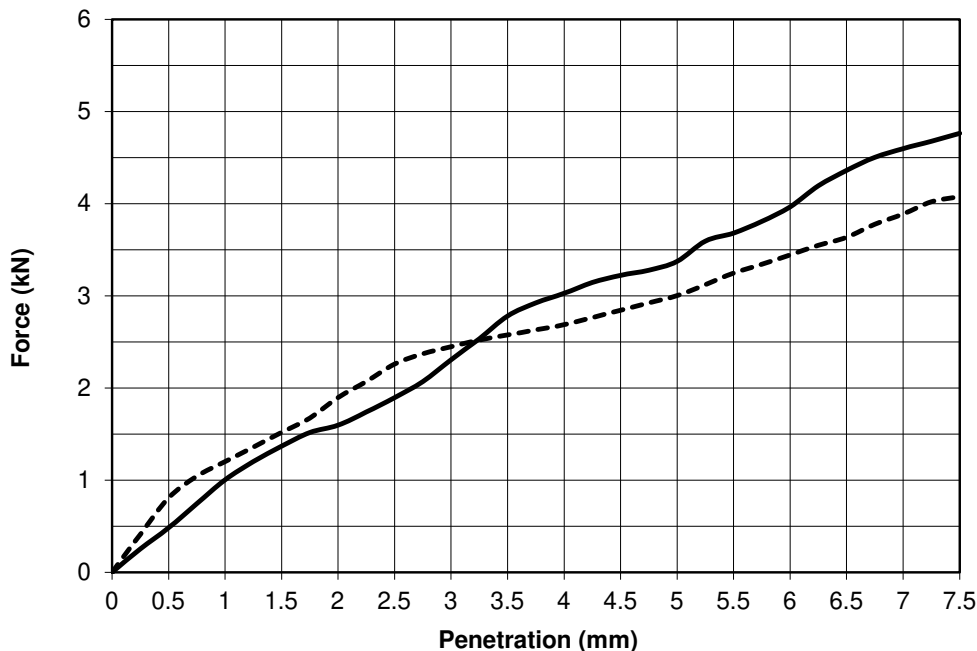
TEST REPORT

Determination of California Bearing Ratio (CBR)

Tested in accordance with BS1377:Part 2:2020, clause 15



Report No.	R166606	Contract	MT Avenue Dundalk
Contract No.	25758	Customer	DBFL
Date received	28/01/25	Date Tested	27/02/25
BH/TP No.*	TP41	Sample No.*	AA236802 Type: B
Depth* (m)	1.00	Lab sample No.	A25/0221



Key: ————— Top - - - - - Base

Description: Brown sandy gravelly SILT/CLAY 1% Lime, 2% Cement added 3 Days Soaked			
Initial Condition:		soaked	
Water Content (%):	20.0	Bulk Density (Mg/m³):	2.10
Surcharge (kg):	4	Dry Density (Mg/m³):	1.75
% Material >20mm:	8.9		
Method of compaction: Static Compaction Method 2			

Test Result	Top	Base
CBR %	17	17
Water Content %	20.2	19.7

Results relate only to the specimen tested, in as received condition unless otherwise noted

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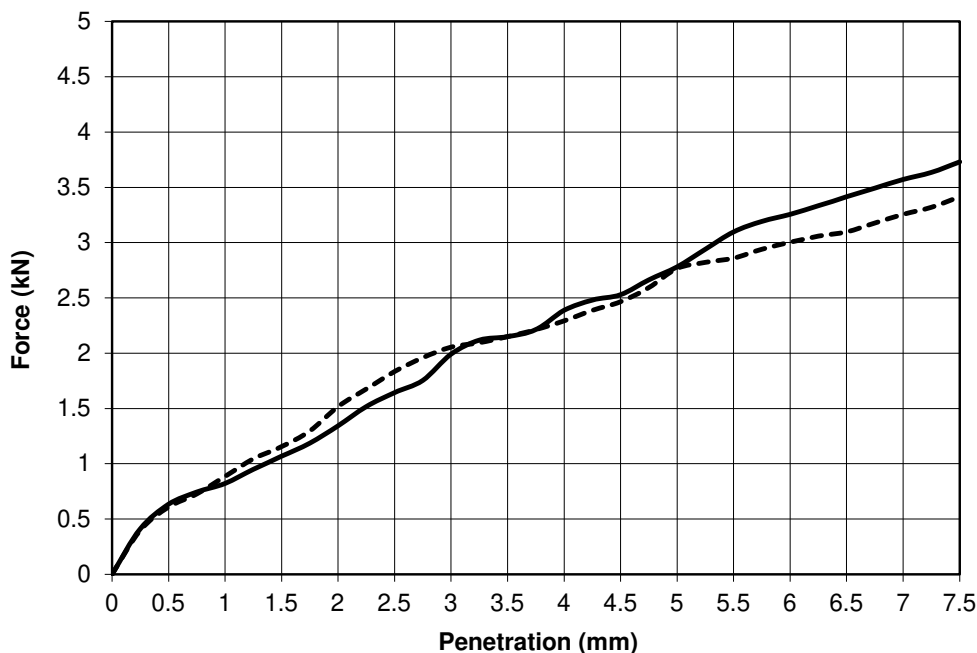
TEST REPORT

Determination of California Bearing Ratio (CBR)

Tested in accordance with BS1377:Part 2:2020, clause 15



Report No.	R166976	Contract	MT Avenue Dundalk
Contract No.	25758	Customer	DBFL
Date received	28/01/25	Date Tested	11/03/25
BH/TP No.*	TP44	Sample No.*	AA236813 Type: B
Depth* (m)	0.50	Lab sample No.	A25/0223



Key: ————— Top - - - - - Base

Description: Brown sandy gravelly SILT/CLAY with 1% Lime added 14 Days Soaked			
Initial Condition:		soaked	
Water Content (%):	16.9	Bulk Density (Mg/m³):	2.11
Surcharge (kg):	4	Dry Density (Mg/m³):	1.80
% Material >20mm:	6		
Method of compaction: Static Compaction Method 2			

Test Result	Top	Base
CBR %	14	14
Water Content %	16.9	16.9

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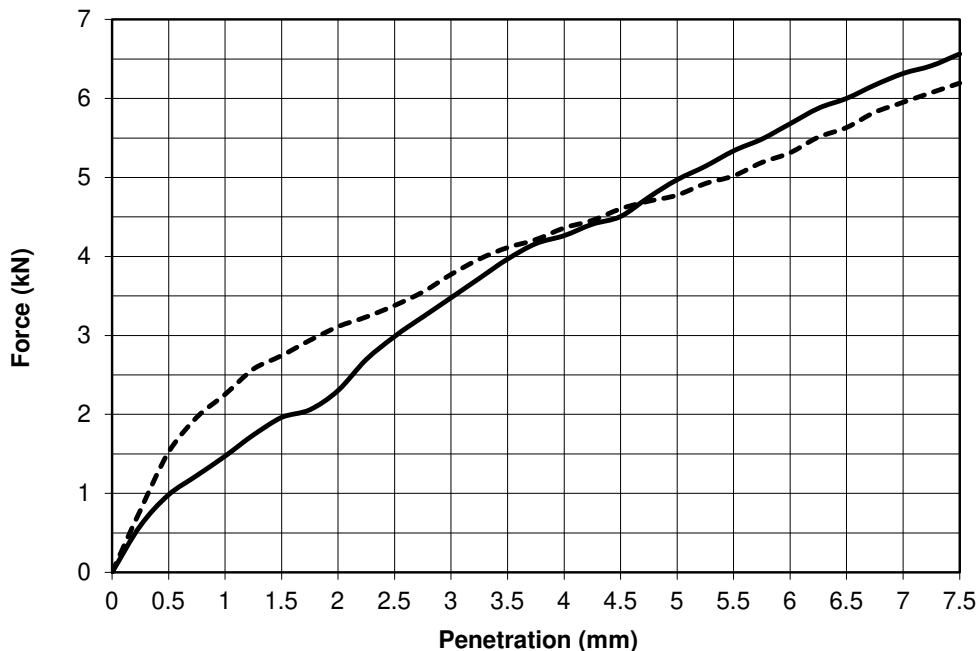
TEST REPORT

Determination of California Bearing Ratio (CBR)

Tested in accordance with BS1377:Part 2:2020, clause 15



Report No.	R166977	Contract	MT Avenue Dundalk
Contract No.	25758	Customer	DBFL
Date received	28/01/25	Date Tested	11/03/25
BH/TP No.*	TP44	Sample No.*	AA236813 Type: B
Depth* (m)	0.50	Lab sample No.	A25/0223



Key: ————— Top - - - - - Base

Description: Brown sandy gravelly SILT/CLAY 2% Lime added 14 Days Soaked			
Initial Condition:		soaked	
Water Content (%):	16.8	Bulk Density (Mg/m³):	2.18
Surcharge (kg):	4	Dry Density (Mg/m³):	1.87
% Material >20mm:	6		
Method of compaction:		Static Compaction Method 2	

Test Result	Top	Base
CBR %	25	26
Water Content %	16.8	16.7

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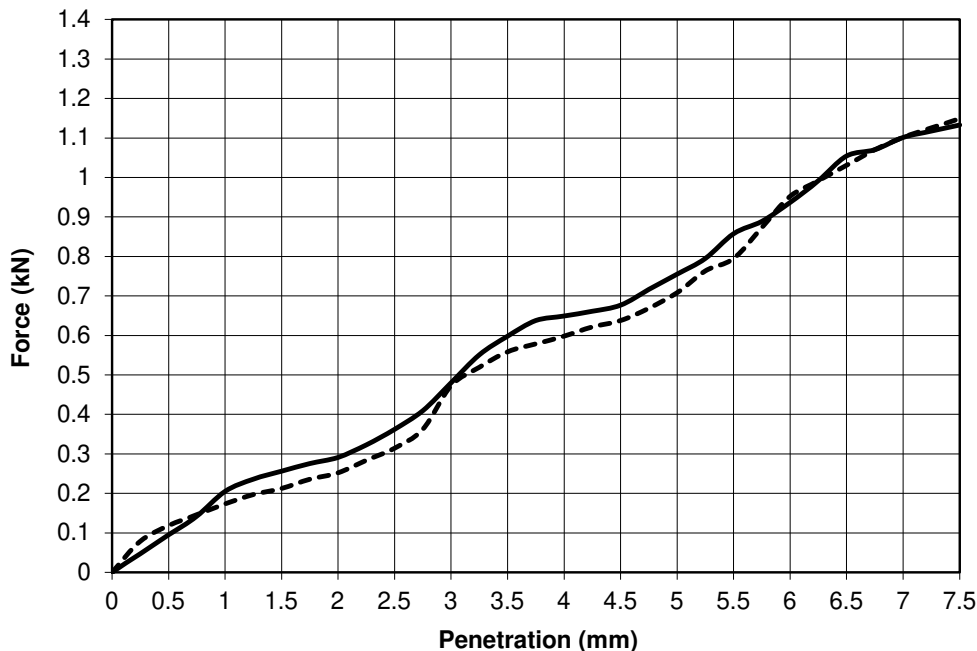
TEST REPORT

Determination of California Bearing Ratio (CBR)

Tested in accordance with BS1377:Part 2:2020, clause 15



Report No.	R166008	Contract	MT Avenue Dundalk
Contract No.	25758	Customer	DBFL
Date received	28/01/25	Date Tested	30/01/25
BH/TP No.*	TP48	Sample No.*	AA236830 Type: B
Depth* (m)	0.50	Lab sample No.	A25/0224



Key: ————— Top - - - - - Base

Description: Brown sandy gravelly SILT/CLAY			
Initial Condition:		Unsoaked	
Water Content (%):	23.2	Bulk Density (Mg/m³):	1.93
Surcharge (kg):	4	Dry Density (Mg/m³):	1.57
% Material >20mm:	7.4		
Method of compaction: Static Compaction Method 2			

Test Result	Top	Base
CBR %	3.8	3.6
Water Content %	23.9	22.5

Results relate only to the specimen tested, in as received condition unless otherwise noted

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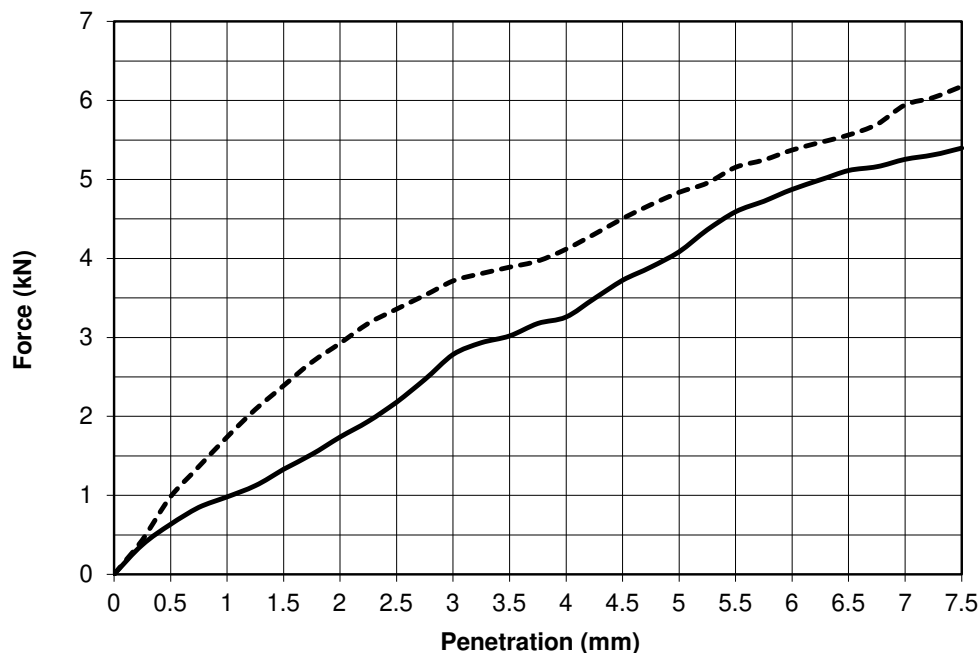
TEST REPORT

Determination of California Bearing Ratio (CBR)

Tested in accordance with BS1377:Part 2:2020, clause 15



Report No.	R166607	Contract	MT Avenue Dundalk
Contract No.	25758	Customer	DBFL
Date received	28/01/25	Date Tested	28/02/25
BH/TP No.*	TP48	Sample No.*	AA236830 Type: B
Depth* (m)	0.50	Lab sample No.	A25/0224



Key: ————— Top - - - - - Base

Description: Brown sandy gravelly SILT/CLAY with 1% Lime added 3 Days Soaked			
Initial Condition:		soaked	
Water Content (%):	16.6	Bulk Density (Mg/m³):	2.16
Surcharge (kg):	4	Dry Density (Mg/m³):	1.85
% Material >20mm:	7		
Method of compaction:		Static Compaction Method 2	

Test Result	Top	Base
CBR %	20	25
Water Content %	17.3	15.8

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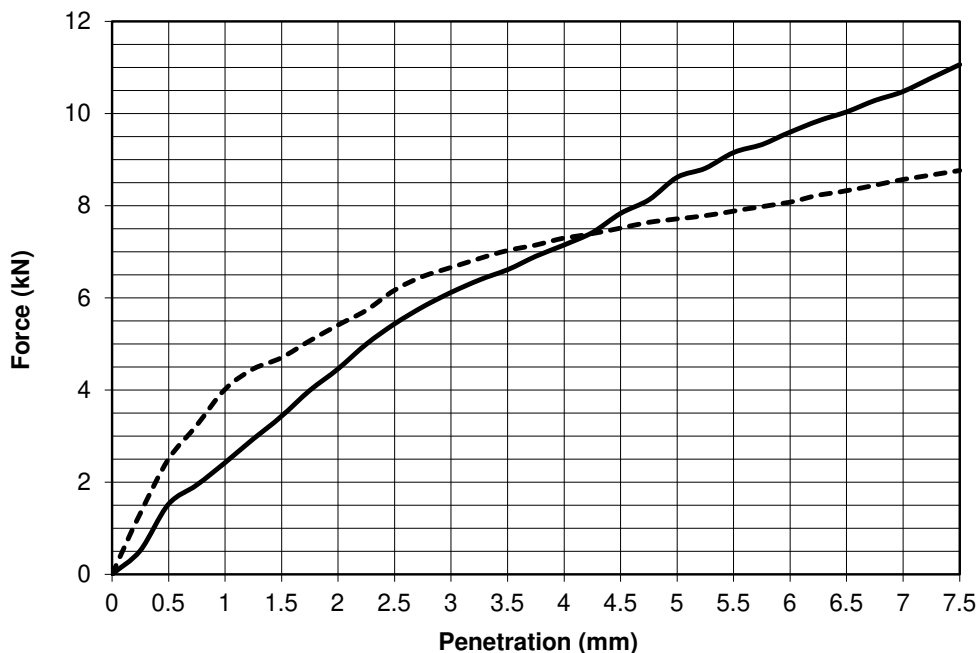
TEST REPORT

Determination of California Bearing Ratio (CBR)

Tested in accordance with BS1377:Part 2:2020, clause 15



Report No.	R166608	Contract	MT Avenue Dundalk
Contract No.	25758	Customer	DBFL
Date received	28/01/25	Date Tested	28/02/25
BH/TP No.*	TP48	Sample No.*	AA236830 Type: B
Depth* (m)	0.50	Lab sample No.	A25/0224



Key: ————— Top - - - - - Base

Description: Brown sandy gravelly SILT/CALY with 2% Lime added 3 Days Soaked			
Initial Condition:		soaked	
Water Content (%):	17.1	Bulk Density (Mg/m³):	2.15
Surcharge (kg):	4	Dry Density (Mg/m³):	1.84
% Material >20mm:	7		
Method of compaction:	Static Compaction Method 2		

Test Result	Top	Base
CBR %	43	47
Water Content %	17.9	16.3

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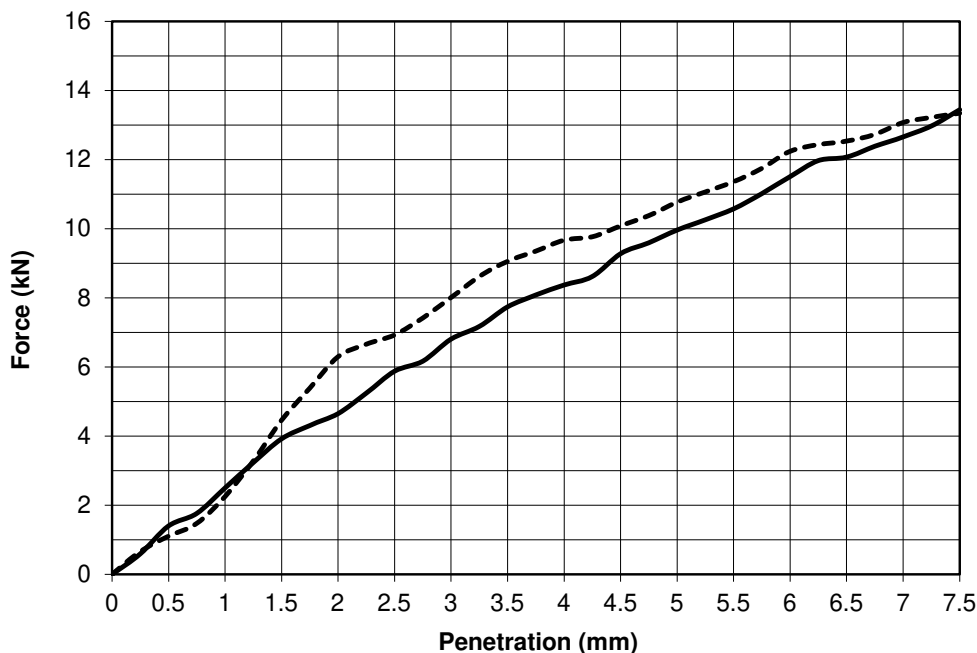
TEST REPORT

Determination of California Bearing Ratio (CBR)

Tested in accordance with BS1377:Part 2:2020, clause 15



Report No.	R166609	Contract	MT Avenue Dundalk
Contract No.	25758	Customer	DBFL
Date received	28/01/25	Date Tested	28/02/25
BH/TP No.*	TP48	Sample No.*	AA236830 Type: B
Depth* (m)	0.50	Lab sample No.	A25/0224



Key: ————— Top - - - - - Base

Description:	Brown sandy gravelly SILT/CLAY with 1% Lime, 2% Cement added 3 Days Soaked		
Initial Condition:	soaked		
Water Content (%):	16.6	Bulk Density (Mg/m ³):	2.14
Surcharge (kg):	4	Dry Density (Mg/m ³):	1.84
% Material >20mm:	7		
Method of compaction:	Static Compaction Method 2		

Test Result	Top	Base
CBR %	50	54
Water Content %	16.0	17.1

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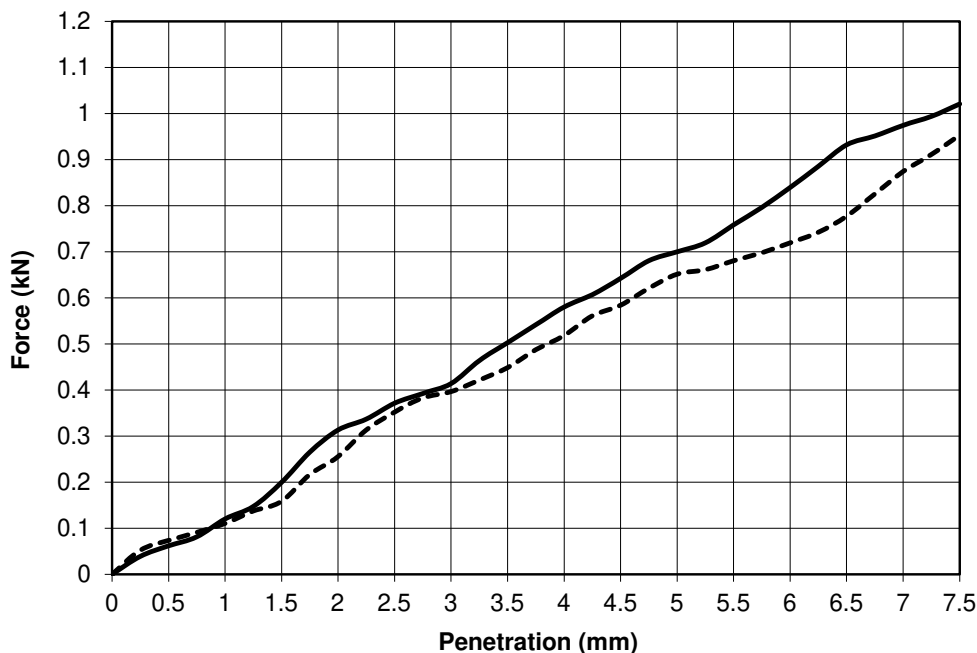
TEST REPORT

Determination of California Bearing Ratio (CBR)

Tested in accordance with BS1377:Part 2:2020, clause 15



Report No.	R166009	Contract	MT Avenue Dundalk
Contract No.	25758	Customer	DBFL
Date received	28/01/25	Date Tested	30/01/25
BH/TP No.*	TP53	Sample No.*	AA236845 Type: B
Depth* (m)	0.50	Lab sample No.	A25/0226



Key: ————— Top - - - - - Base

Description: Brown sandy gravelly SILT/CLAY			
Initial Condition:		Unsoaked	
Water Content (%):	12.4	Bulk Density (Mg/m ³):	2.22
Surcharge (kg):	4	Dry Density (Mg/m ³):	1.97
% Material >20mm:	12.5		
Method of compaction: Static Compaction Method 2			

Test Result	Top	Base
CBR %	3.5	3.3
Water Content %	12.2	12.6

Results relate only to the specimen tested, in as received condition unless otherwise noted

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Naas Co.Kildare
045 899324

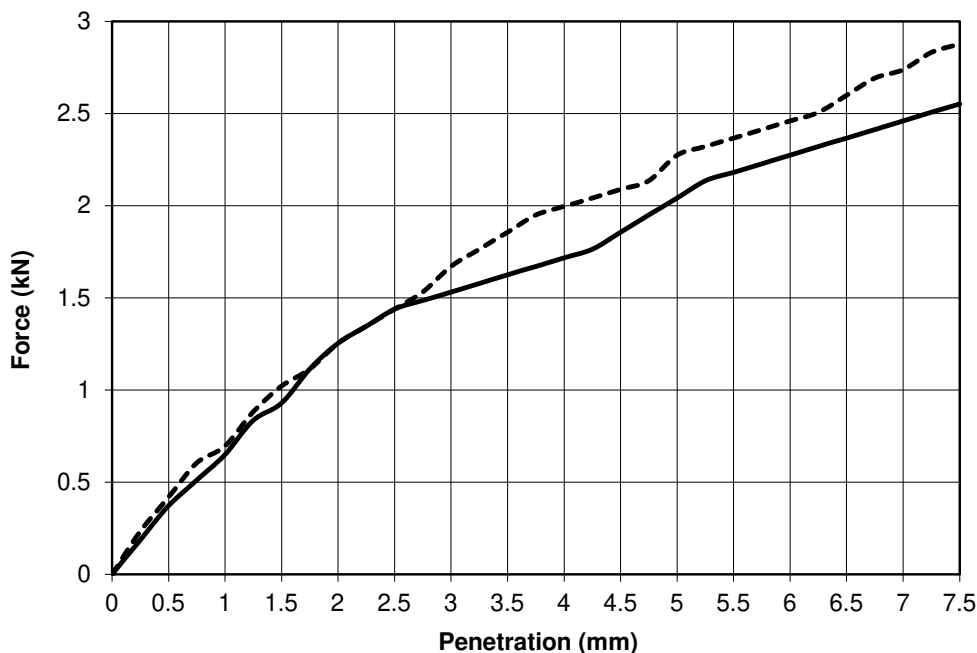
TEST REPORT

Determination of California Bearing Ratio (CBR)

Tested in accordance with BS1377:Part 2:2020, clause 15



Report No.	R166980	Contract	MT Avenue Dundalk
Contract No.	25758	Customer	DBFL
Date received	28/01/25	Date Tested	07/03/25
BH/TP No.*	TP53	Sample No.*	AA236845 Type: B
Depth* (m)	0.50	Lab sample No.	A25/0226



Key: ————— Top - - - - - Base

Description: Brown sandy gravelly SILT/CLAY with 1% Lime added 14 Days Soaked			
Initial Condition:		soaked	
Water Content (%):	17.2	Bulk Density (Mg/m ³):	2.26
Surcharge (kg):	4	Dry Density (Mg/m ³):	1.93
% Material >20mm:	13		
Method of compaction: Static Compaction Method 2			

Test Result	Top	Base
CBR %	10	11
Water Content %	17.6	16.8

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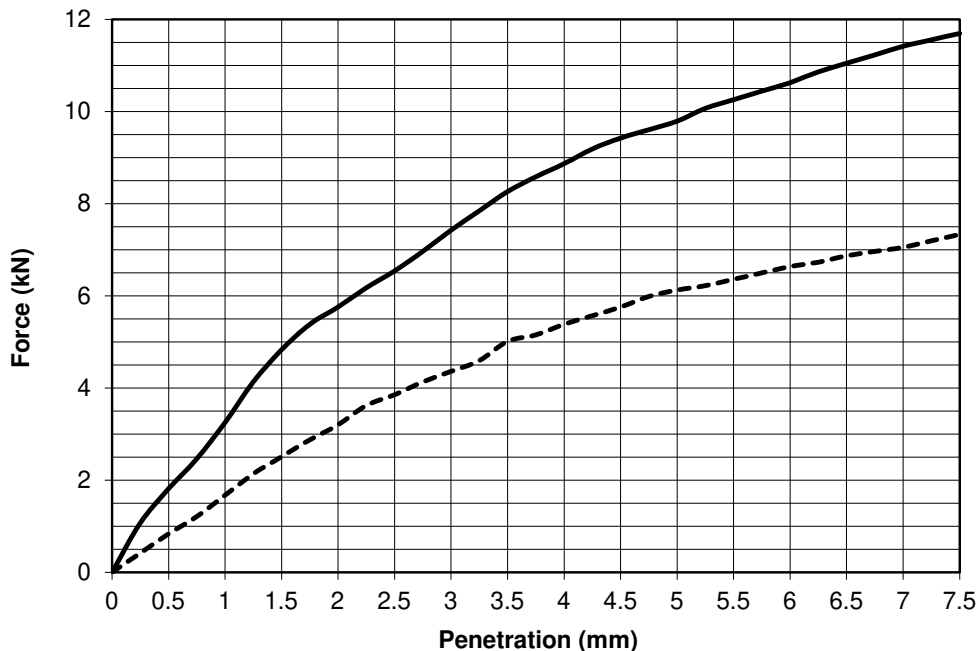
TEST REPORT

Determination of California Bearing Ratio (CBR)

Tested in accordance with BS1377:Part 2:2020, clause 15



Report No.	R166979	Contract	MT Avenue Dundalk
Contract No.	25758	Customer	DBFL
Date received	28/01/25	Date Tested	07/03/25
BH/TP No.*	TP53	Sample No.*	AA236845 Type: B
Depth* (m)	0.50	Lab sample No.	A25/0226



Key: ————— Top - - - - - Base

Description: Brown sandy gravelly SILTCLAY with 2% Lime added 14 Days Soaked

Initial Condition:	soaked		
Water Content (%):	14.3	Bulk Density (Mg/m ³):	2.28
Surcharge (kg):	4	Dry Density (Mg/m ³):	1.80
% Material >20mm:	13		
Method of compaction:	Static Compaction Method 2		

Test Result	Top	Base
CBR %	49	31
Water Content %	14.6	13.9

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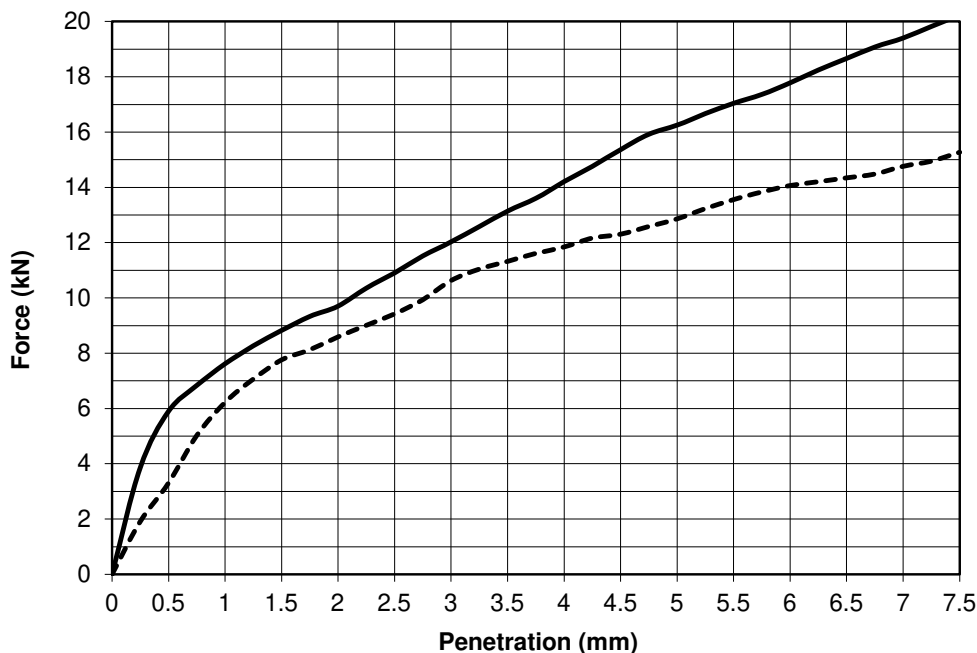
TEST REPORT

Determination of California Bearing Ratio (CBR)

Tested in accordance with BS1377:Part 2:2020, clause 15



Report No.	R166978	Contract	MT Avenue Dundalk
Contract No.	25758	Customer	DBFL
Date received	28/01/25	Date Tested	07/03/25
BH/TP No.*	TP53	Sample No.*	AA236845 Type: B
Depth* (m)	0.50	Lab sample No.	A25/0226



Key: ————— Top - - - - - Base

Description: Brown sandy gravelly SILT/CLAY with 1% Lime + 2 % Cement added 14 Days Soaked			
Initial Condition:		soaked	
Water Content (%):	12.1	Bulk Density (Mg/m³):	2.27
Surcharge (kg):	4	Dry Density (Mg/m³):	2.02
% Material >20mm:	13		
Method of compaction:		Static Compaction Method 2	

Test Result	Top	Base
CBR %	82	71
Water Content %	12.8	11.4

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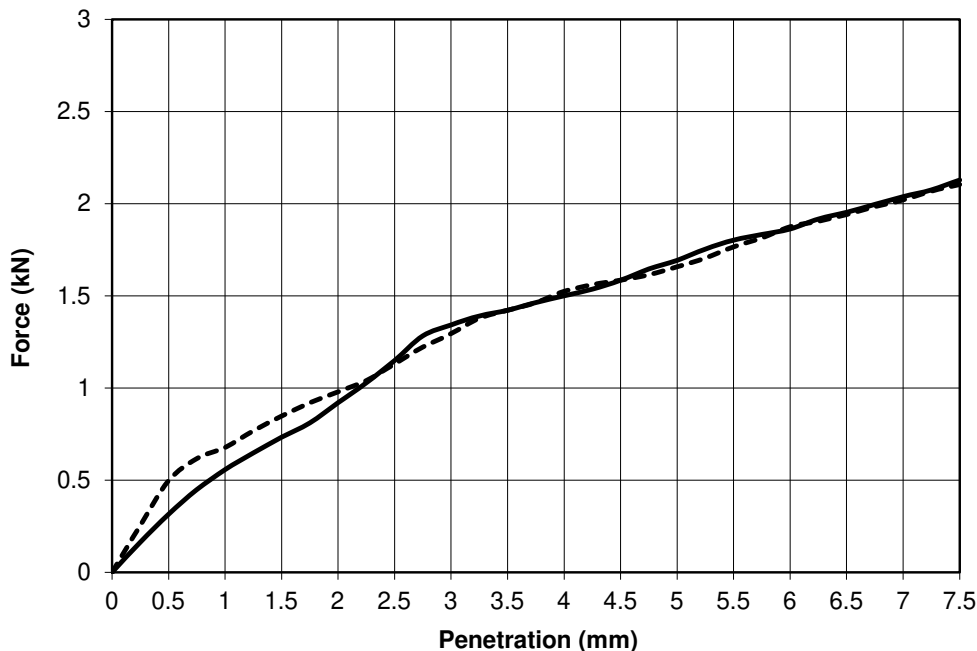
TEST REPORT

Determination of California Bearing Ratio (CBR)

Tested in accordance with BS1377:Part 2:2020, clause 15



Report No.	R166981	Contract	MT Avenue Dundalk
Contract No.	25758	Customer	DBFL
Date received	28/01/25	Date Tested	24/02/25
BH/TP No.*	TP60	Sample No.*	AA246818 Type: B
Depth* (m)	0.50	Lab sample No.	A25/0228



Key: ————— Top - - - - - Base

Description: Brown sandy gravelly SILT with 1% Lime added 3 Days Soaked			
Initial Condition:	soaked		
Water Content (%):	12.2	Bulk Density (Mg/m³):	2.22
Surcharge (kg):	4	Dry Density (Mg/m³):	1.98
% Material >20mm:	6		
Method of compaction:	Static Compaction Method 2		

Test Result	Top	Base
CBR %	8.7	8.5
Water Content %	11.9	12.4

Results relate only to the specimen tested, in as received condition unless otherwise noted

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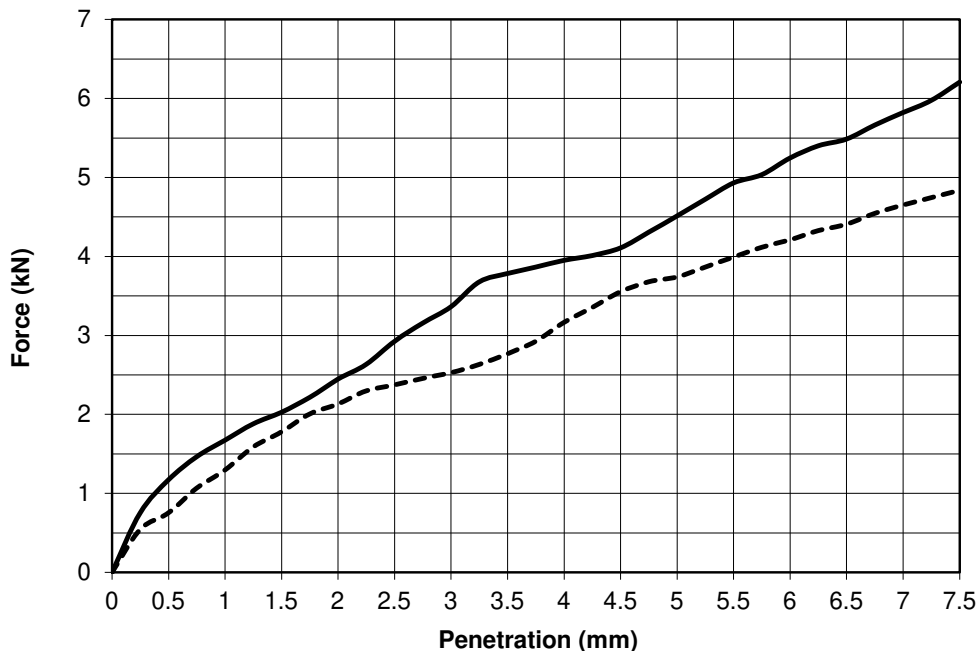
TEST REPORT

Determination of California Bearing Ratio (CBR)

Tested in accordance with BS1377:Part 2:2020, clause 15



Report No.	R166982	Contract	MT Avenue Dundalk
Contract No.	25758	Customer	DBFL
Date received	28/01/25	Date Tested	24/02/25
BH/TP No.*	TP60	Sample No.*	AA246818 Type: B
Depth* (m)	0.50	Lab sample No.	A25/0228



Key: ————— Top - - - - - Base

Description: Brown sandy gravelly SILT with 2% Lime added 3 Days Soaked			
Initial Condition:		soaked	
Water Content (%):	12.4	Bulk Density (Mg/m³):	2.19
Surcharge (kg):	4	Dry Density (Mg/m³):	1.95
% Material >20mm:	6		
Method of compaction:		Static Compaction Method 2	

Test Result	Top	Base
CBR %	23	19
Water Content %	12.2	12.5

Results relate only to the specimen tested, in as received condition unless otherwise noted

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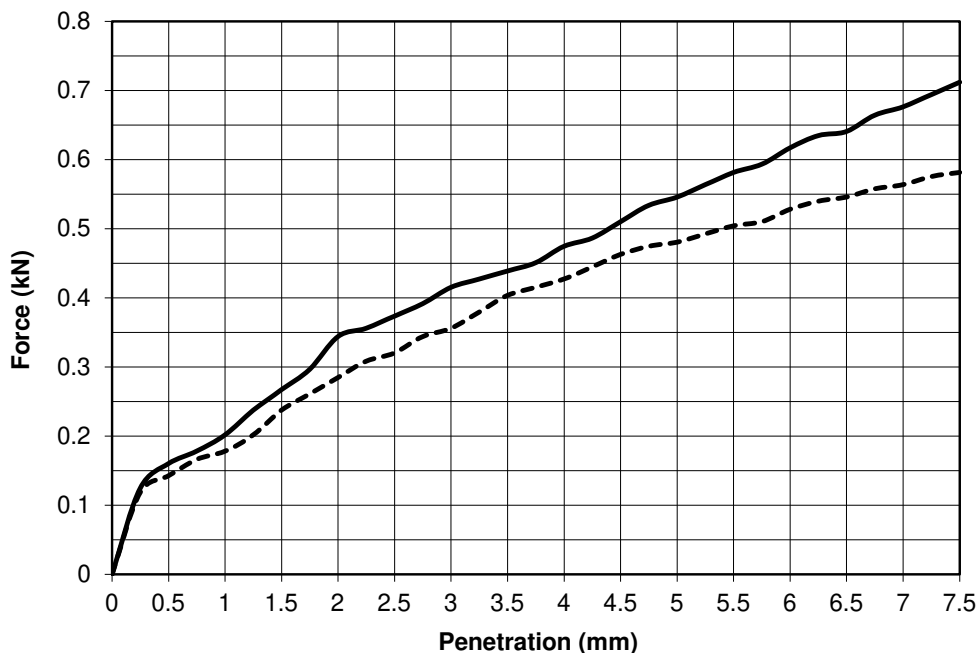
TEST REPORT

Determination of California Bearing Ratio (CBR)

Tested in accordance with BS1377:Part 2:2020, clause 15



Report No.	R166010	Contract	MT Avenue Dundalk
Contract No.	25758	Customer	DBFL
Date received	28/01/25	Date Tested	29/01/25
BH/TP No.*	TP64	Sample No.*	AA235762 Type: B
Depth* (m)	1.00	Lab sample No.	A25/0230



Key: ————— Top - - - - - Base

Description: Brown sandy gravelly SILT/CLAY			
Initial Condition:		Unsoaked	
Water Content (%):	15.6	Bulk Density (Mg/m³):	2.17
Surcharge (kg):	4	Dry Density (Mg/m³):	1.88
% Material >20mm:	15		
Method of compaction: Static Compaction Method 2			

Test Result	Top	Base
CBR %	2.7	2.4
Water Content %	15.0	16.2

Results relate only to the specimen tested, in as received condition unless otherwise noted

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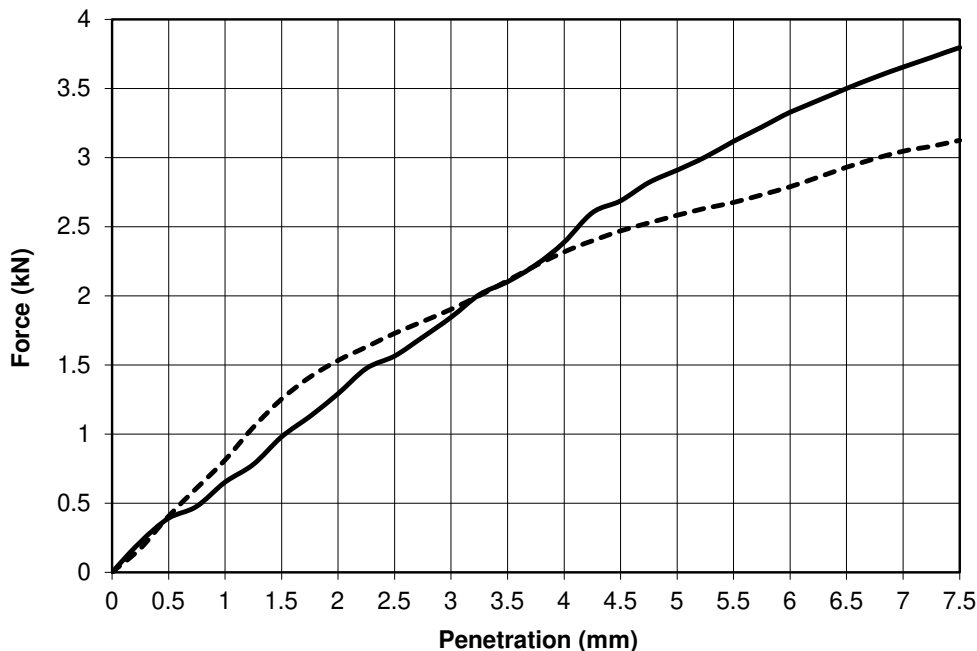
TEST REPORT

Determination of California Bearing Ratio (CBR)

Tested in accordance with BS1377:Part 2:2020, clause 15



Report No.	R166983	Contract	MT Avenue Dundalk
Contract No.	25758	Customer	DBFL
Date received	28/01/25	Date Tested	07/03/25
BH/TP No.*	TP64	Sample No.*	AA235762 Type: B
Depth* (m)	1.00	Lab sample No.	A25/0230



Key: ————— Top - - - - - Base

Description: Brown sandy gravelly SILT/CLAY with 1% Lime added 14 Days Soaked			
Initial Condition:		soaked	
Water Content (%):	17.7	Bulk Density (Mg/m ³):	2.16
Surcharge (kg):	4	Dry Density (Mg/m ³):	1.84
% Material >20mm:	15		
Method of compaction: Static Compaction Method 2			

Test Result	Top	Base
CBR %	15	13
Water Content %	17.3	18.0

Results relate only to the specimen tested, in as received condition unless otherwise noted

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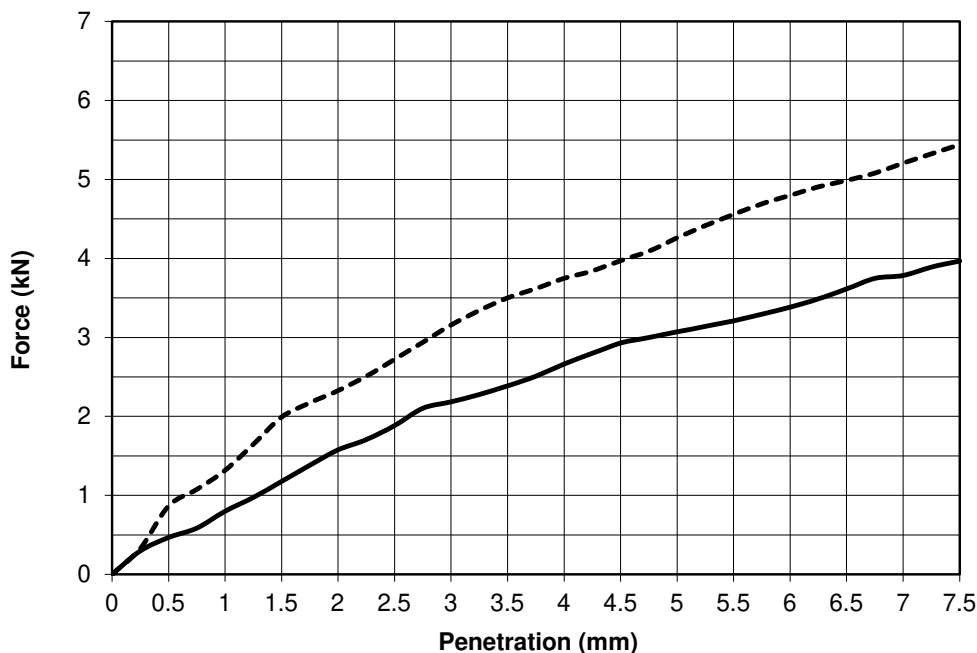
TEST REPORT

Determination of California Bearing Ratio (CBR)

Tested in accordance with BS1377:Part 2:2020, clause 15



Report No.	R166984	Contract	MT Avenue Dundalk
Contract No.	25758	Customer	DBFL
Date received	28/01/25	Date Tested	07/03/25
BH/TP No.*	TP64	Sample No.*	AA235762 Type: B
Depth* (m)	1.00	Lab sample No.	A25/0230



Key: ————— Top - - - - - Base

Description: Brown sandy gravelly SILT/CLAY with 2% Lime added 14 Days Soaked			
Initial Condition:		soaked	
Water Content (%):	17.8	Bulk Density (Mg/m ³):	2.17
Surcharge (kg):	4	Dry Density (Mg/m ³):	1.84
% Material >20mm:	15		
Method of compaction: Static Compaction Method 2			

Test Result	Top	Base
CBR %	15	21
Water Content %	19.0	16.6

Results relate only to the specimen tested, in as received condition unless otherwise noted

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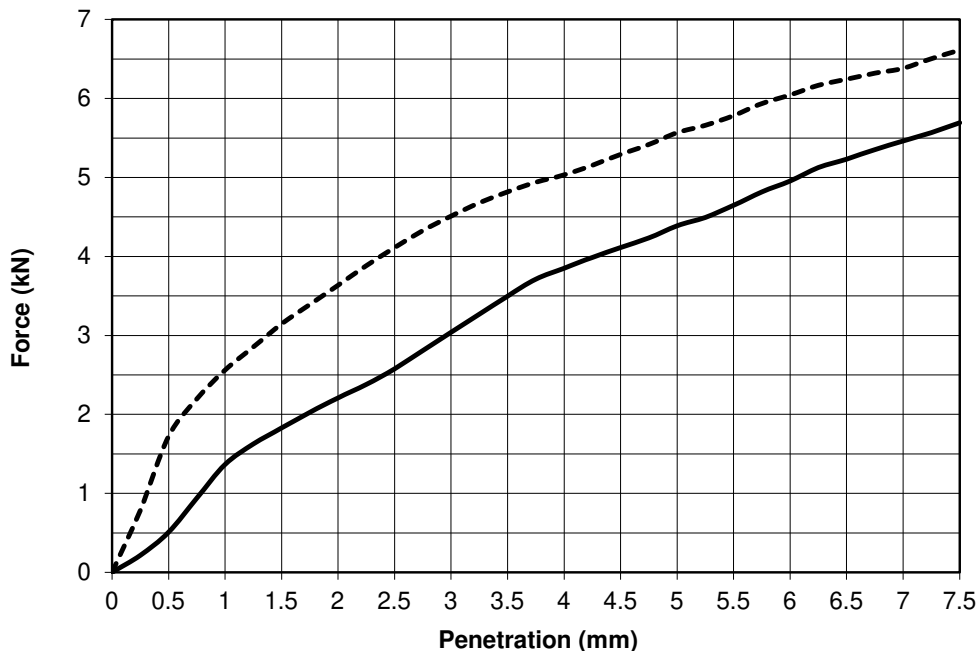
TEST REPORT

Determination of California Bearing Ratio (CBR)

Tested in accordance with BS1377:Part 2:2020, clause 15



Report No.	R166985	Contract	MT Avenue Dundalk
Contract No.	25758	Customer	DBFL
Date received	28/01/25	Date Tested	07/03/25
BH/TP No.*	TP64	Sample No.*	AA235762 Type: B
Depth* (m)	1.00	Lab sample No.	A25/0230



Key: ————— Top - - - - - Base

Description: Brown sandy gravelly SILT/CLAY with 1% Lime, 2% Cement added 14 Days Soaked			
Initial Condition:		soaked	
Water Content (%):	17.1	Bulk Density (Mg/m³):	2.18
Surcharge (kg):	4	Dry Density (Mg/m³):	1.86
% Material >20mm:	15		
Method of compaction: Static Compaction Method 2			

Test Result	Top	Base
CBR %	22	31
Water Content %	17.3	16.9

Results relate only to the specimen tested, in as received condition unless otherwise noted

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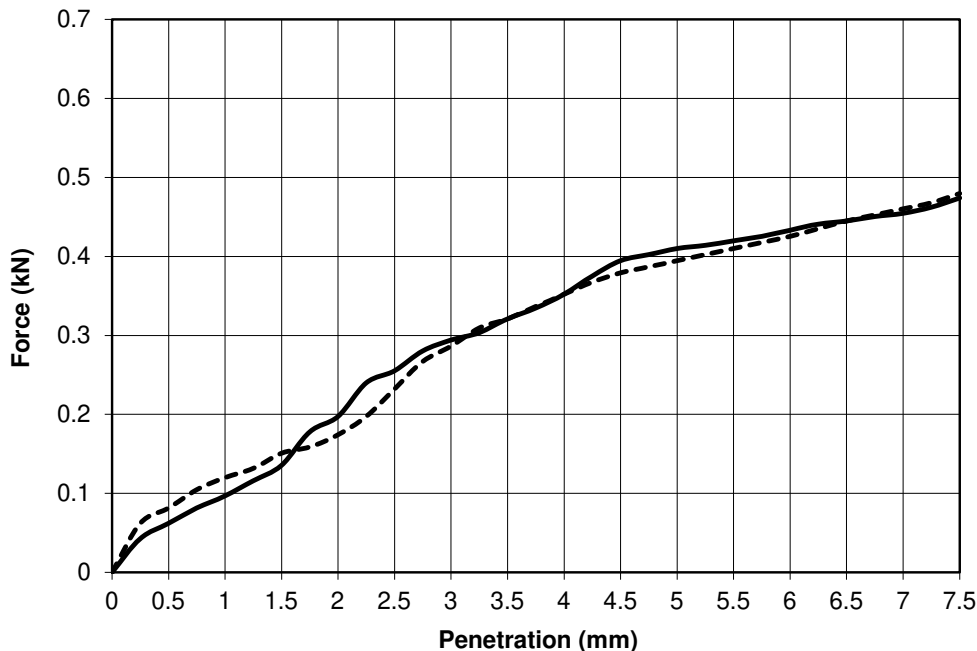
TEST REPORT

Determination of California Bearing Ratio (CBR)

Tested in accordance with BS1377:Part 2:2020, clause 15



Report No.	R166011	Contract	MT Avenue Dundalk
Contract No.	25758	Customer	DBFL
Date received	28/01/25	Date Tested	30/01/25
BH/TP No.*	TP71	Sample No.*	AA235788 Type: B
Depth* (m)	0.50	Lab sample No.	A25/0230



Key: ————— Top - - - - - Base

Description: Brown sandy gravelly SILT/CLAY			
Initial Condition:		Unsoaked	
Water Content (%):	17.5	Bulk Density (Mg/m³):	2.15
Surcharge (kg):	4	Dry Density (Mg/m³):	1.83
% Material >20mm:	6.6		
Method of compaction: Static Compaction Method 2			

Test Result	Top	Base
CBR %	2.1	2.0
Water Content %	17.3	17.6

Results relate only to the specimen tested, in as received condition unless otherwise noted

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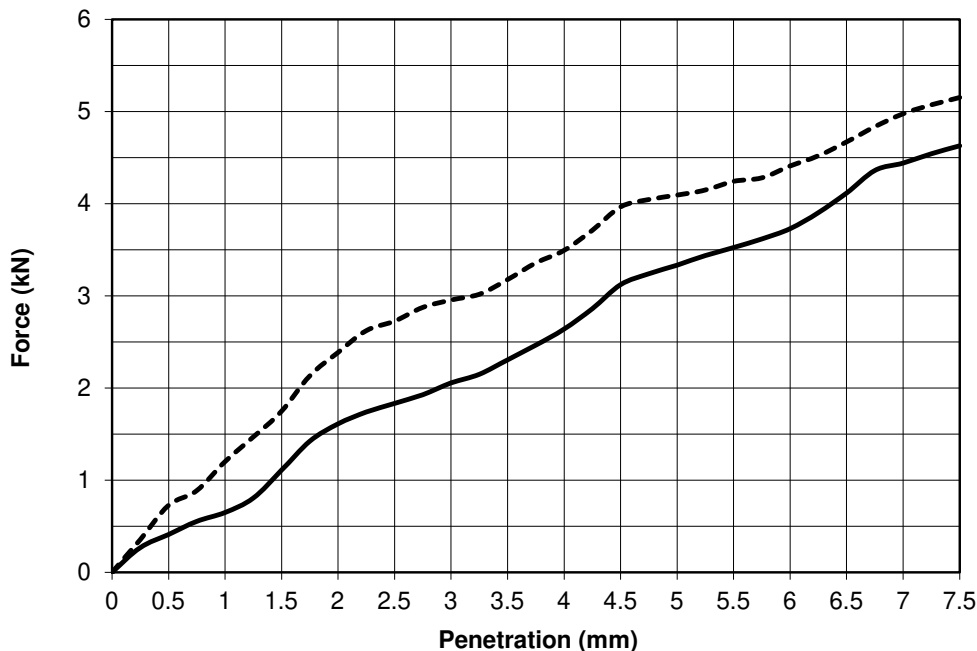
TEST REPORT

Determination of California Bearing Ratio (CBR)

Tested in accordance with BS1377:Part 2:2020, clause 15



Report No.	R166986	Contract	MT Avenue Dundalk
Contract No.	25758	Customer	DBFL
Date received	28/01/25	Date Tested	24/02/25
BH/TP No.*	TP71	Sample No.*	AA235788 Type: B
Depth* (m)	0.50	Lab sample No.	A25/0232



Key: ————— Top - - - - - Base

Description: Brown sandy gravelly SILT/CLAY with 1% Lime added			
Initial Condition:		soaked	
Water Content (%):	16.5	Bulk Density (Mg/m³):	2.17
Surcharge (kg):	4	Dry Density (Mg/m³):	1.86
% Material >20mm:	6.4		
Method of compaction: Static Compaction Method 2			

Test Result	Top	Base
CBR %	17	21
Water Content %	16.3	16.7

Results relate only to the specimen tested, in as received condition unless otherwise noted

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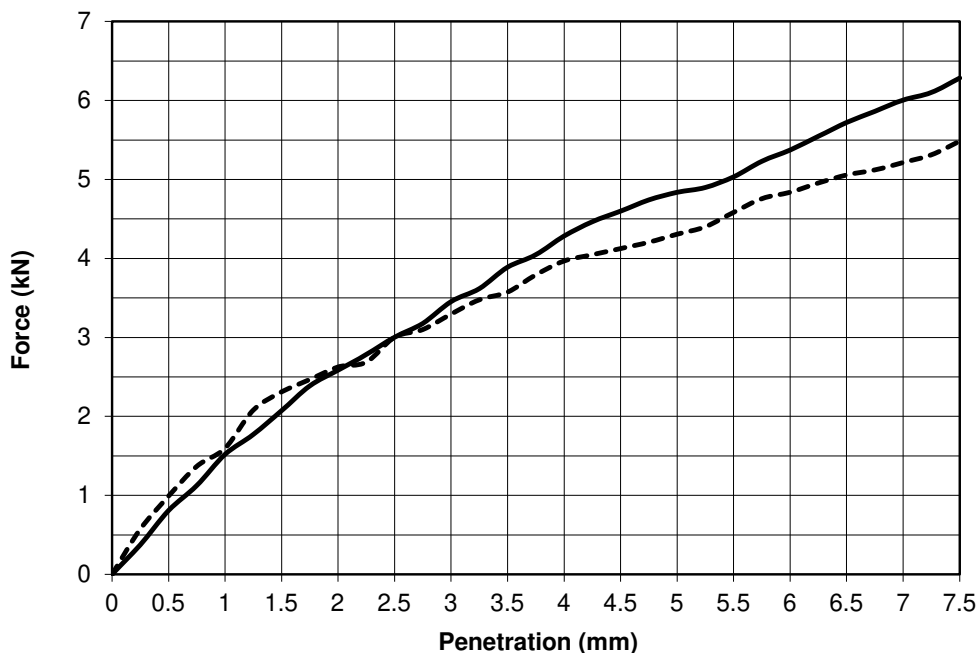
TEST REPORT

Determination of California Bearing Ratio (CBR)

Tested in accordance with BS1377:Part 2:2020, clause 15



Report No.	R166987	Contract	MT Avenue Dundalk
Contract No.	25758	Customer	DBFL
Date received	28/01/25	Date Tested	24/02/25
BH/TP No.*	TP71	Sample No.*	AA235788 Type: B
Depth* (m)	0.50	Lab sample No.	A25/0232



Key: ————— Top - - - - - Base

Description: Brown sandy gravelly SILT/CLAY with 2% Lime added 3 Days Soaked			
Initial Condition:		soaked	
Water Content (%):	15.3	Bulk Density (Mg/m³):	2.17
Surcharge (kg):	4	Dry Density (Mg/m³):	1.88
% Material >20mm:	6.4		
Method of compaction: Static Compaction Method 2			

Test Result	Top	Base
CBR %	24	23
Water Content %	15.2	15.3

Results relate only to the specimen tested, in as received condition unless otherwise noted

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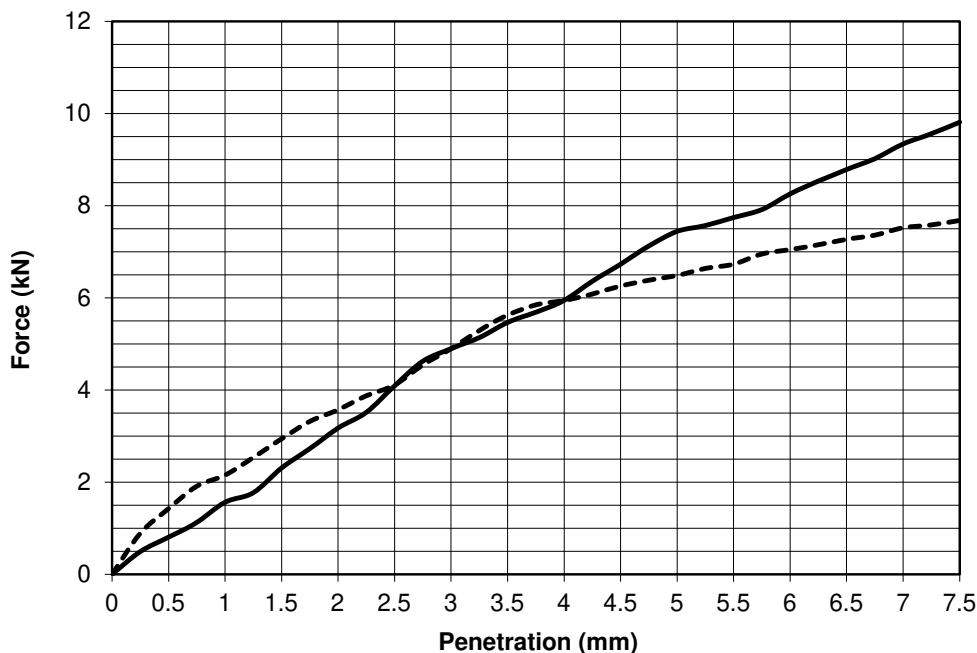
TEST REPORT

Determination of California Bearing Ratio (CBR)

Tested in accordance with BS1377:Part 2:2020, clause 15



Report No.	R166988	Contract	MT Avenue Dundalk
Contract No.	25758	Customer	DBFL
Date received	28/01/25	Date Tested	24/02/25
BH/TP No.*	TP71	Sample No.*	AA235788 Type: B
Depth* (m)	0.50	Lab sample No.	A25/0232



Key: ————— Top - - - - - Base

Description:	Brown sandy gravelly SILT/CLAY 1% Lime, 2% Cement added 3 Days Soaked		
Initial Condition:	soaked		
Water Content (%):	16.0	Bulk Density (Mg/m ³):	2.17
Surcharge (kg):	4	Dry Density (Mg/m ³):	1.87
% Material >20mm:	6.4		
Method of compaction:	Static Compaction Method 2		

Test Result	Top	Base
CBR %	37	33
Water Content %	16.2	15.8

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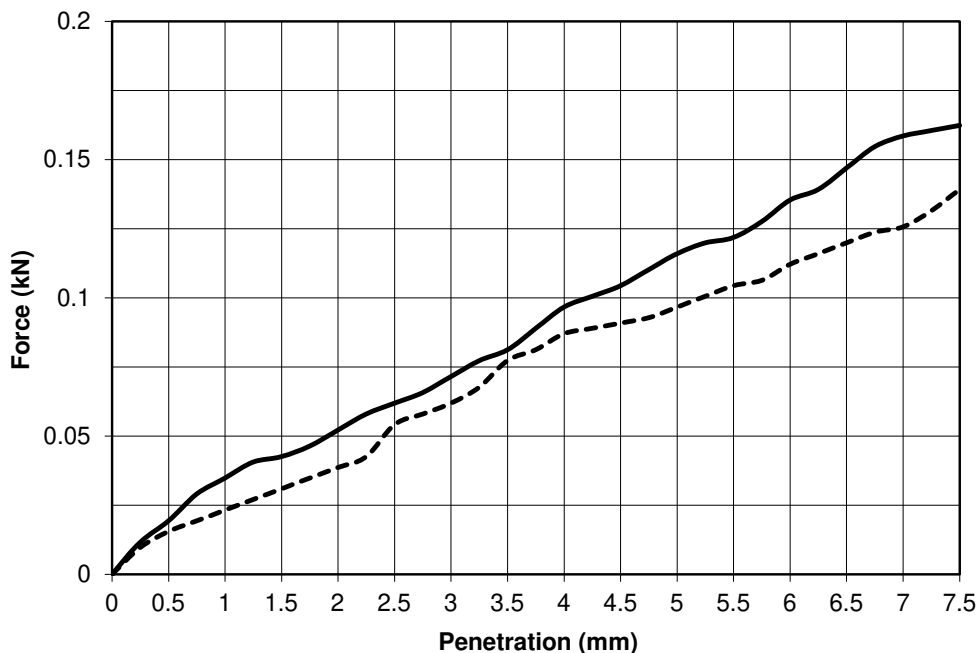
TEST REPORT

Determination of California Bearing Ratio (CBR)

Tested in accordance with BS1377:Part 2:2020, clause 15



Report No.	R166012	Contract	MT Avenue Dundalk
Contract No.	25758	Customer	DBFL
Date received	28/01/25	Date Tested	30/01/25
BH/TP No.*	TP82	Sample No.*	AA246836 Type: B
Depth* (m)	0.50	Lab sample No.	A25/0236



Key: ————— Top - - - - - Base

Description: Brown sandy gravelly SILT/CLAY			
Initial Condition:		Unsoaked	
Water Content (%):	19.9	Bulk Density (Mg/m³):	2.19
Surcharge (kg):	4	Dry Density (Mg/m³):	1.83
% Material >20mm:	3		
Method of compaction: Static Compaction Method 2			

Test Result	Top	Base
CBR %	0.6	0.5
Water Content %	20.0	19.7

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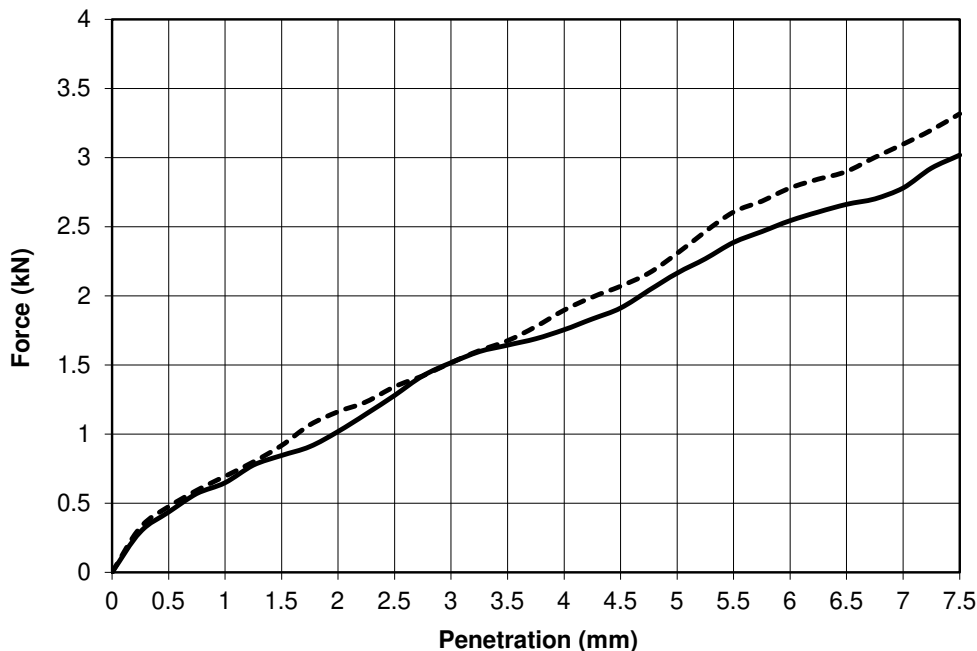
TEST REPORT

Determination of California Bearing Ratio (CBR)

Tested in accordance with BS1377:Part 2:2020, clause 15



Report No.	R166989	Contract	MT Avenue Dundalk
Contract No.	25758	Customer	DBFL
Date received	28/01/25	Date Tested	10/03/25
BH/TP No.*	TP82	Sample No.*	AA246836 Type: B
Depth* (m)	0.50	Lab sample No.	A25/0236



Key: ————— Top - - - - - Base

Description: Brown sandy gravelly SILT/CLAY 1% Lime added 14 Days Soaked			
Initial Condition:		soaked	
Water Content (%):	18.5	Bulk Density (Mg/m³):	2.17
Surcharge (kg):	4	Dry Density (Mg/m³):	1.83
% Material >20mm:	3		
Method of compaction: Static Compaction Method 2			

Test Result	Top	Base
CBR %	11	12
Water Content %	19.0	17.9

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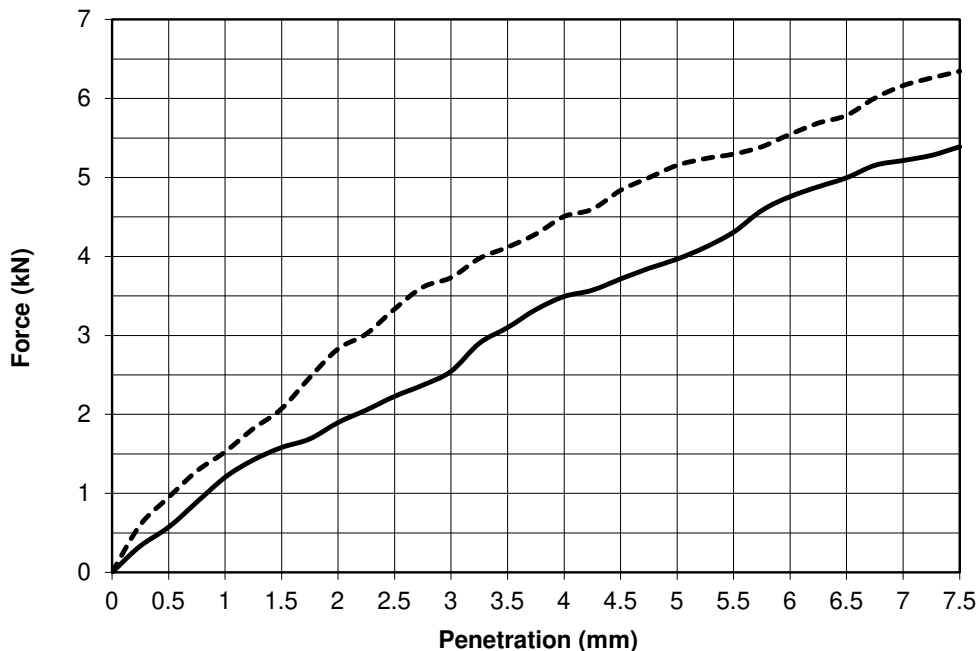
TEST REPORT

Determination of California Bearing Ratio (CBR)

Tested in accordance with BS1377:Part 2:2020, clause 15



Report No.	R166990	Contract	MT Avenue Dundalk
Contract No.	25758	Customer	DBFL
Date received	28/01/25	Date Tested	10/03/25
BH/TP No.*	TP82	Sample No.*	AA246836 Type: B
Depth* (m)	0.50	Lab sample No.	A25/0236



Key: ————— Top - - - - - Base

Description: Brown sandy gravelly SILT/CLAY 2% Lime added 14 Days Soaked			
Initial Condition:	soaked		
Water Content (%):	18.3	Bulk Density (Mg/m³):	2.18
Surcharge (kg):	4	Dry Density (Mg/m³):	1.84
% Material >20mm:	3		
Method of compaction:	Static Compaction Method 2		

Test Result	Top	Base
CBR %	20	26
Water Content %	18.2	18.3

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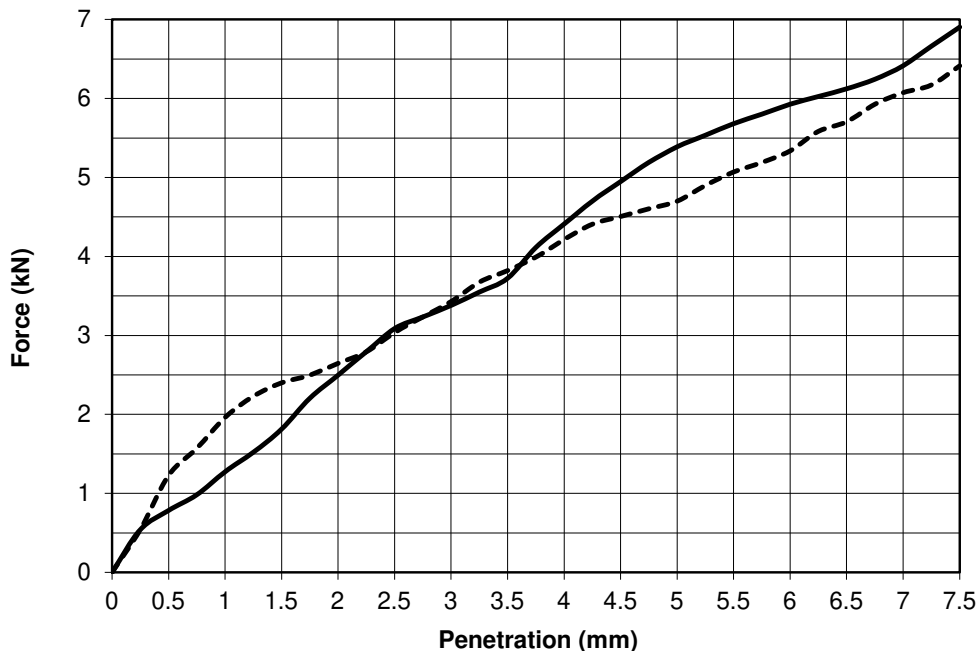
TEST REPORT

Determination of California Bearing Ratio (CBR)

Tested in accordance with BS1377:Part 2:2020, clause 15



Report No.	R166991	Contract	MT Avenue Dundalk
Contract No.	25758	Customer	DBFL
Date received	28/01/25	Date Tested	10/03/25
BH/TP No.*	TP82	Sample No.*	AA246836 Type: B
Depth* (m)	0.50	Lab sample No.	A25/0236



Key: ————— Top - - - - - Base

Description:	Brown sandy gravelly SILT/CLAY 1% Lime, 2% Cement added 14 Days Soaked		
Initial Condition:	soaked		
Water Content (%):	17.9	Bulk Density (Mg/m ³):	2.13
Surcharge (kg):	4	Dry Density (Mg/m ³):	1.81
% Material >20mm:	3		
Method of compaction:	Static Compaction Method 2		

Test Result	Top	Base
CBR %	27	24
Water Content %	17.5	18.3

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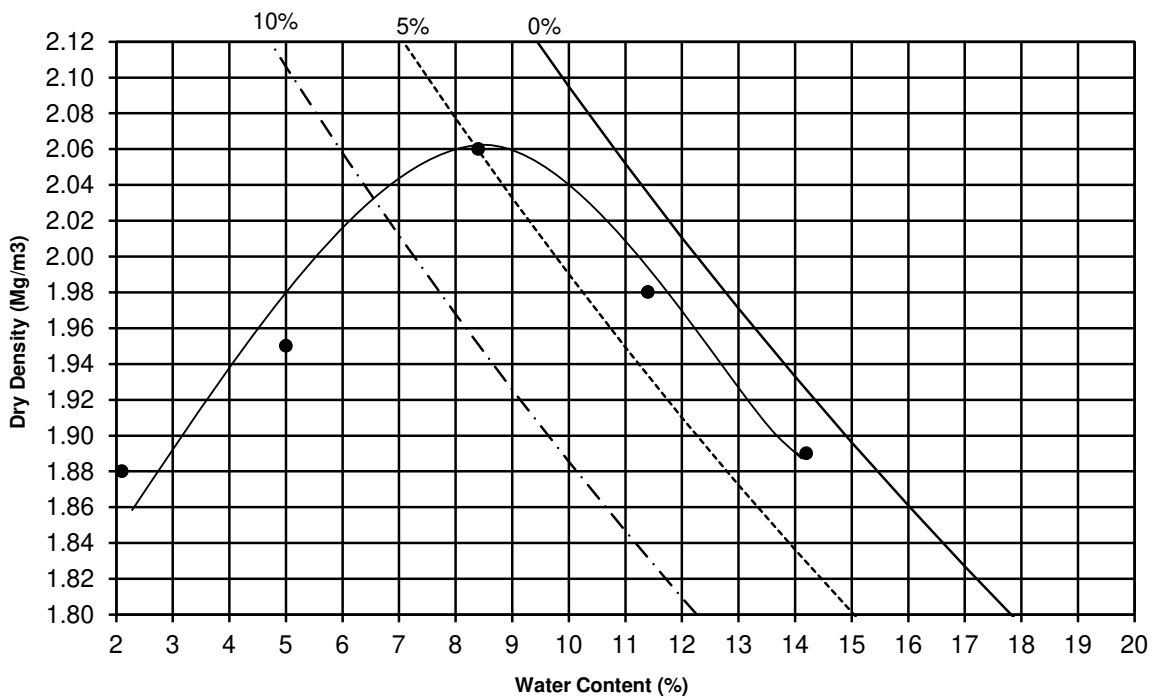
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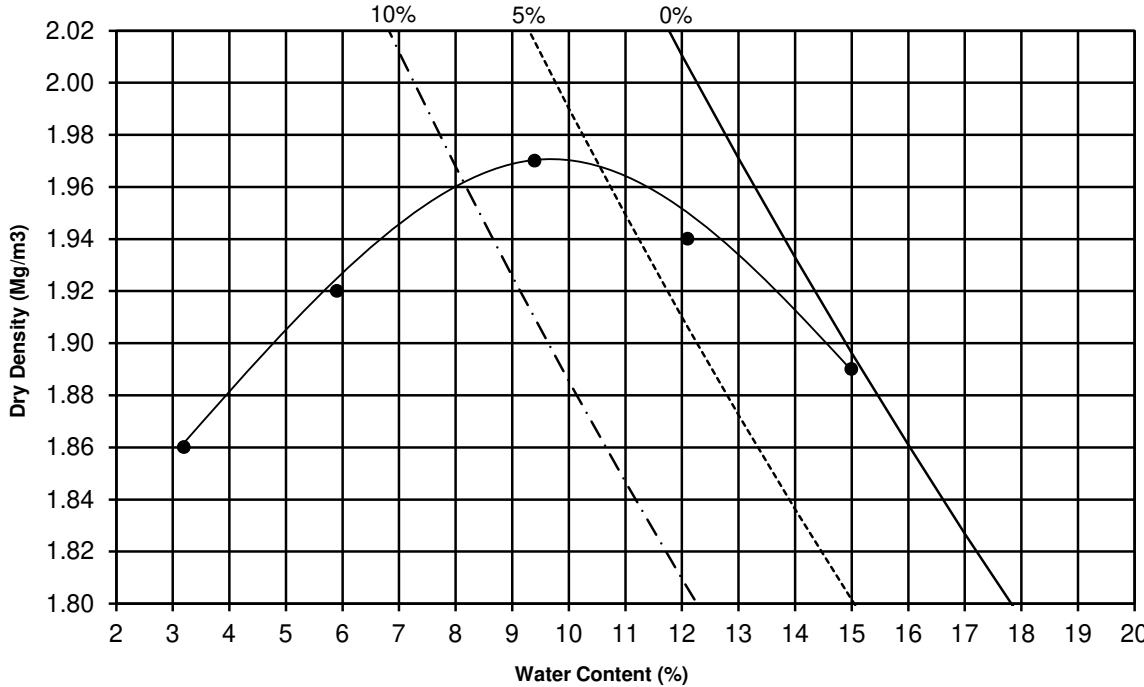
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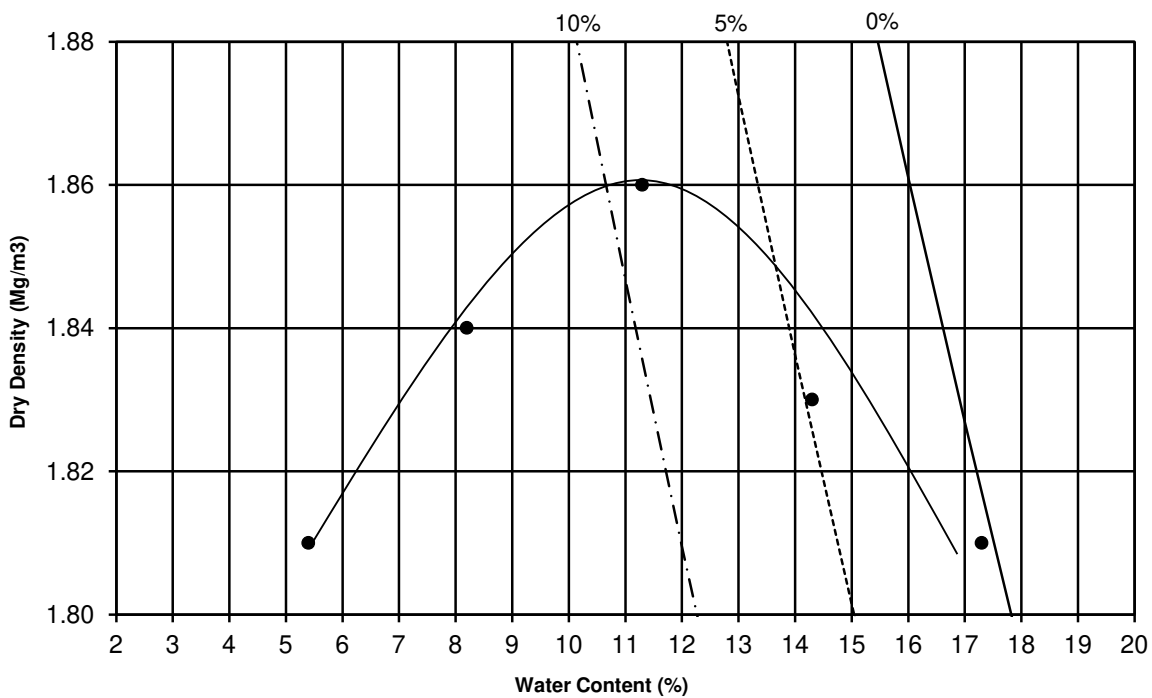
IGSL Ltd Materials Laboratory M7 Business Park Naas Co. Kildare	Test Report Dry Density/Moisture Content Relationship Tested in accordance with BS1377-2:2022 Cl11																	
Report No. R166593 Contract No. 25758 Contract Name: MT Avenue Dundalk Location*: TP02 Sample No*. AA245755 Depth* (m) 0.5 Material Type B Lab sample no. A25/0208 Customer: DBFL Date Received: 28/01/2025 Test Method: 2.5 Kg Rammer Date Tested: 28/02/2025 BS1377-2:2022 11.3																		
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">Dry Density (Mg/m³)</td> <td style="width: 12.5%;">1.89</td> <td style="width: 12.5%;">1.95</td> <td style="width: 12.5%;">2.06</td> <td style="width: 12.5%;">1.98</td> <td style="width: 12.5%;">1.88</td> <td style="width: 12.5%;"></td> <td style="width: 12.5%;"></td> </tr> <tr> <td>Water Content (%)</td> <td>14.2</td> <td>5.0</td> <td>8.4</td> <td>11.4</td> <td>2.1</td> <td>0</td> <td></td> </tr> </table>			Dry Density (Mg/m ³)	1.89	1.95	2.06	1.98	1.88			Water Content (%)	14.2	5.0	8.4	11.4	2.1	0	
Dry Density (Mg/m ³)	1.89	1.95	2.06	1.98	1.88													
Water Content (%)	14.2	5.0	8.4	11.4	2.1	0												
																		
Maximum Dry Density (Mg/m ³): 2.06 Optimum Water Content (%): 8.4 Description: Brown sandy gravelly CLAY Sample Preparation: Single / Separate samples used Particle Density (Mg/m ³): 2.65 Particle Density: Assumed % retained on 20/37.5mm sieve: 5/9 Grading Zone 3																		
Results relate only to the specimen tested, in as received condition unless otherwise noted. Opinions and interpretations are outside the scope of accreditation. * denotes Customer supplied information This report shall not be reproduced except in full without the written approval of the Laboratory.		Persons authorised to approve reports J Barrett (Quality Manager) H Byrne (Laboratory Manager)																
IGSL Materials Laboratory		Approved by  Date 28/04/25 Page 1 of 1																

IGSL Ltd Materials Laboratory M7 Business Park Naas Co. Kildare	Test Report Dry Density/Moisture Content Relationship Tested in accordance with BS1377-2:2022 Cl11																	
Report No. R166594 Contract No. 25758 Contract Name: MT Avenue Dundalk Location*: TP12 Sample No*. AA236760 Depth* (m) 0.5 Material Type B Lab sample no. A25/0212 Customer: DBFL Date Received: 28/01/2025 Test Method: 2.5 Kg Rammer Date Tested: 28/02/2025 BS1377-2:2022 11.3																		
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">Dry Density (Mg/m³)</td> <td style="width: 12.5%;">1.89</td> <td style="width: 12.5%;">1.92</td> <td style="width: 12.5%;">1.97</td> <td style="width: 12.5%;">1.94</td> <td style="width: 12.5%;">1.86</td> <td style="width: 12.5%;"></td> <td style="width: 12.5%;"></td> </tr> <tr> <td>Water Content (%)</td> <td>15.0</td> <td>5.9</td> <td>9.4</td> <td>12.1</td> <td>3.2</td> <td>0</td> <td></td> </tr> </table>			Dry Density (Mg/m ³)	1.89	1.92	1.97	1.94	1.86			Water Content (%)	15.0	5.9	9.4	12.1	3.2	0	
Dry Density (Mg/m ³)	1.89	1.92	1.97	1.94	1.86													
Water Content (%)	15.0	5.9	9.4	12.1	3.2	0												
																		
Maximum Dry Density (Mg/m ³): 1.97 Optimum Water Content (%): 9.4 Description: Brown sandy gravelly SILT/CLAY Sample Preparation: Single / Separate samples used Particle Density (Mg/m ³): 2.65 Particle Density: Assumed % retained on 20/37.5mm sieve: 5/0 Grading Zone 2																		
Results relate only to the specimen tested, in as received condition unless otherwise noted. Opinions and interpretations are outside the scope of accreditation. * denotes Customer supplied information This report shall not be reproduced except in full without the written approval of the Laboratory.		Persons authorised to approve reports J Barrett (Quality Manager) H Byrne (Laboratory Manager)																
IGSL Materials Laboratory	Approved by 	Date 28/04/25																
	Page 1 of 1																	

IGSL Ltd Materials Laboratory M7 Business Park Naas Co. Kildare	Test Report Dry Density/Moisture Content Relationship Tested in accordance with BS1377-2:2022 Cl11	

Report No.	R166595	Contract No.	25758
Contract Name:	MT Avenue Dundalk		
Location*:	TP32		
Sample No*.	AA236786	Depth* (m)	1.4
		Material Type	B
Lab sample no.	A25/0219	Customer:	DBFL
Date Received:	28/01/2025	Test Method:	2.5 Kg Rammer
Date Tested:	28/02/2025	BS1377-2:2022	11.3

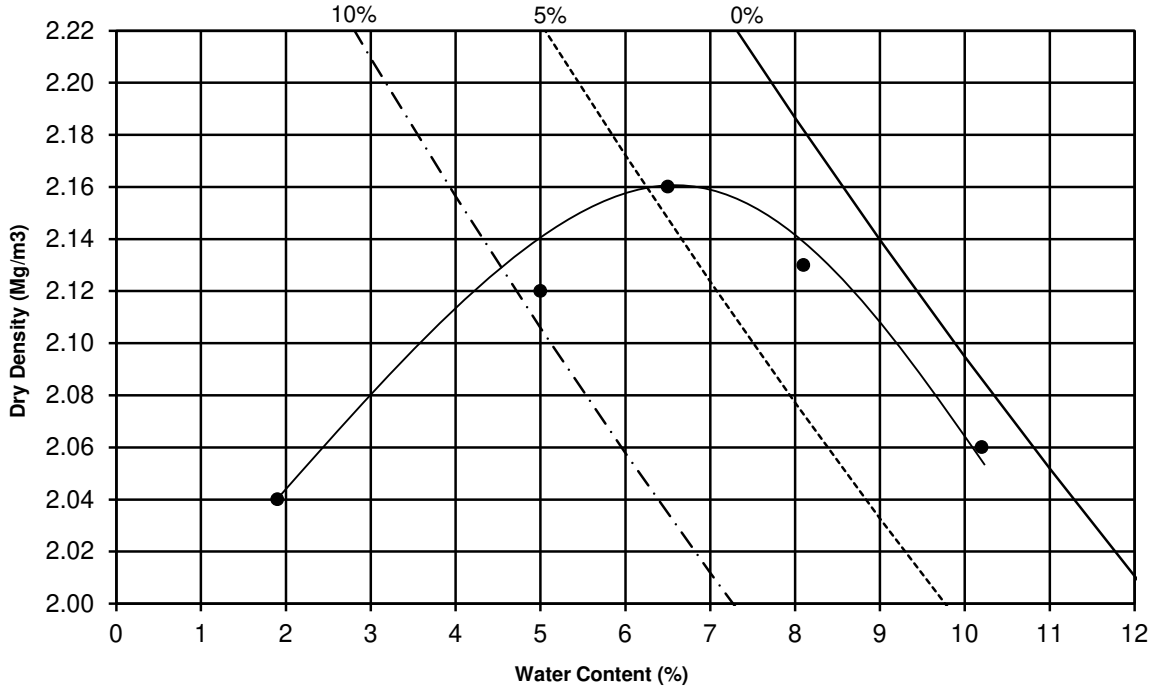
Dry Density (Mg/m ³)	1.81	1.81	1.84	1.86	1.83		
Water Content (%)	17.3	5.4	8.2	11.3	14.3	0	



Maximum Dry Density (Mg/m ³):	1.86	Optimum Water Content (%):	11.3
Description:	Brown sandy gravelly SILT/CLAY		
Sample Preparation:	Single / Separate samples used		
Particle Density (Mg/m ³):	2.65	Particle Density:	Assumed
% retained on 20/37.5mm sieve:	9/3	Grading Zone	3

Results relate only to the specimen tested, in as received condition unless otherwise noted. Opinions and interpretations are outside the scope of accreditation. * denotes Customer supplied information This report shall not be reproduced except in full without the written approval of the Laboratory.	Persons authorised to approve reports J Barrett (Quality Manager) H Byrne (Laboratory Manager)

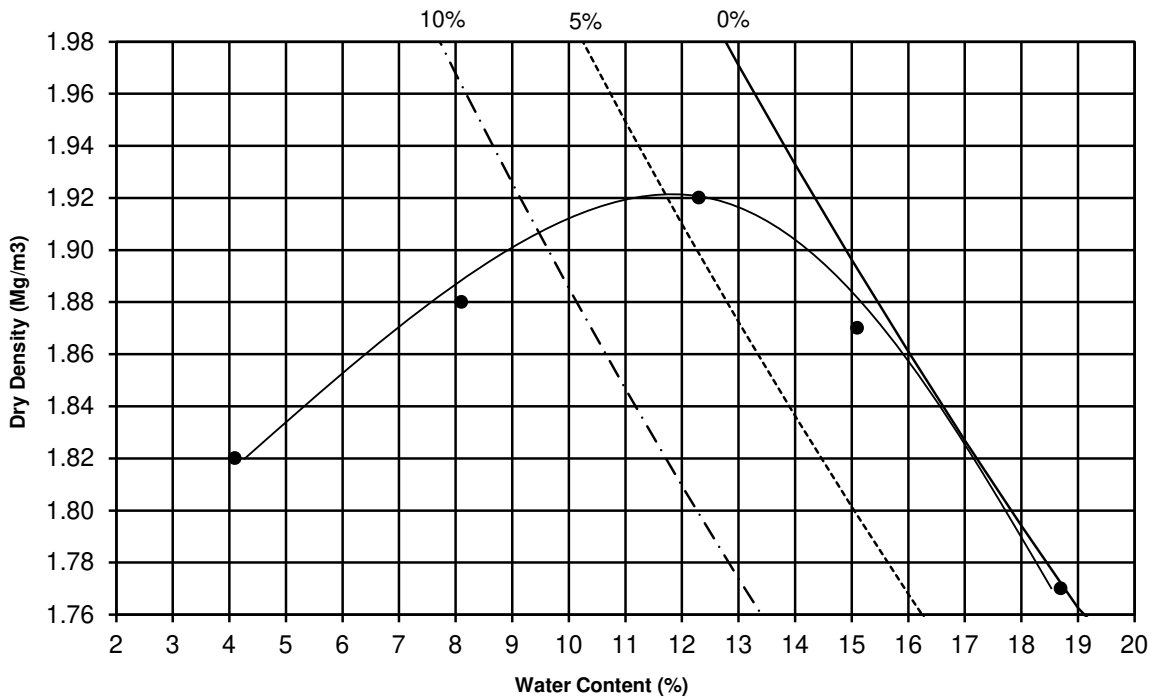
IGSL Materials Laboratory	Approved by	Date	Page
		28/04/25	1 of 1

IGSL Ltd Materials Laboratory M7 Business Park Naas Co. Kildare	Test Report Dry Density/Moisture Content Relationship Tested in accordance with BS1377-2:2022 Cl11																	
Report No. R166487 Contract No. 25758 Contract Name: MT Avenue Dundalk Location*: TP34 Sample No*. AA245791 Depth* (m) 0.5 Material Type B Lab sample no. A25/532 Customer: DBFL Date Received: 28/01/2025 Test Method: 2.5 Kg Rammer Date Tested: 26/02/2025 BS1377-2:2022 11.3																		
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">Dry Density (Mg/m³)</td> <td style="width: 12.5%;">2.06</td> <td style="width: 12.5%;">2.04</td> <td style="width: 12.5%;">2.12</td> <td style="width: 12.5%;">2.16</td> <td style="width: 12.5%;">2.13</td> <td style="width: 12.5%;"></td> <td style="width: 12.5%;"></td> </tr> <tr> <td>Water Content (%)</td> <td>10.2</td> <td>1.9</td> <td>5.0</td> <td>6.5</td> <td>8.1</td> <td>0</td> <td></td> </tr> </table>			Dry Density (Mg/m ³)	2.06	2.04	2.12	2.16	2.13			Water Content (%)	10.2	1.9	5.0	6.5	8.1	0	
Dry Density (Mg/m ³)	2.06	2.04	2.12	2.16	2.13													
Water Content (%)	10.2	1.9	5.0	6.5	8.1	0												
																		
Maximum Dry Density (Mg/m ³): 2.16 Optimum Water Content (%): 6.5 Description: Brown sandy gravelly SILT/CLAY Sample Preparation: Single / Separate samples used Particle Density (Mg/m ³): 2.65 Particle Density: Assumed % retained on 20/37.5mm sieve: 14/9 Grading Zone 5																		
Results relate only to the specimen tested, in as received condition unless otherwise noted. Opinions and interpretations are outside the scope of accreditation. * denotes Customer supplied information This report shall not be reproduced except in full without the written approval of the Laboratory.		Persons authorised to approve reports J Barrett (Quality Manager) H Byrne (Laboratory Manager)																
IGSL Materials Laboratory		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Approved by</td> <td style="width: 25%;">Date</td> <td style="width: 25%;">Page</td> </tr> <tr> <td style="text-align: center;">  </td> <td style="text-align: center;">28/04/25</td> <td style="text-align: center;">1 of 1</td> </tr> </table>	Approved by	Date	Page		28/04/25	1 of 1										
Approved by	Date	Page																
	28/04/25	1 of 1																

IGSL Ltd Materials Laboratory M7 Business Park Naas Co. Kildare	Test Report Dry Density/Moisture Content Relationship Tested in accordance with BS1377-2:2022 Cl11	

Report No.	R166488	Contract No.	25758
Contract Name:	MT Avenue Dundalk		
Location*:	TP41		
Sample No*.	AA236802	Depth* (m)	1
		Material Type	B
Lab sample no.	A25/0021	Customer:	DBFL
Date Received:	28/01/2025	Test Method:	2.5 Kg Rammer
Date Tested:	26/02/2025	BS1377-2:2022	11.3

Dry Density (Mg/m ³)	1.77	1.82	1.88	1.92	1.87		
Water Content (%)	18.7	4.1	8.1	12.3	15.1	0	



Maximum Dry Density (Mg/m ³):	1.92	Optimum Water Content (%):	12.3
Description:	Brown sandy gravelly SILT/CLAY		
Sample Preparation:	Single / Separate samples used		
Particle Density (Mg/m ³):	2.65	Particle Density:	Assumed
% retained on 20/37.5mm sieve:	6/3	Grading Zone	3

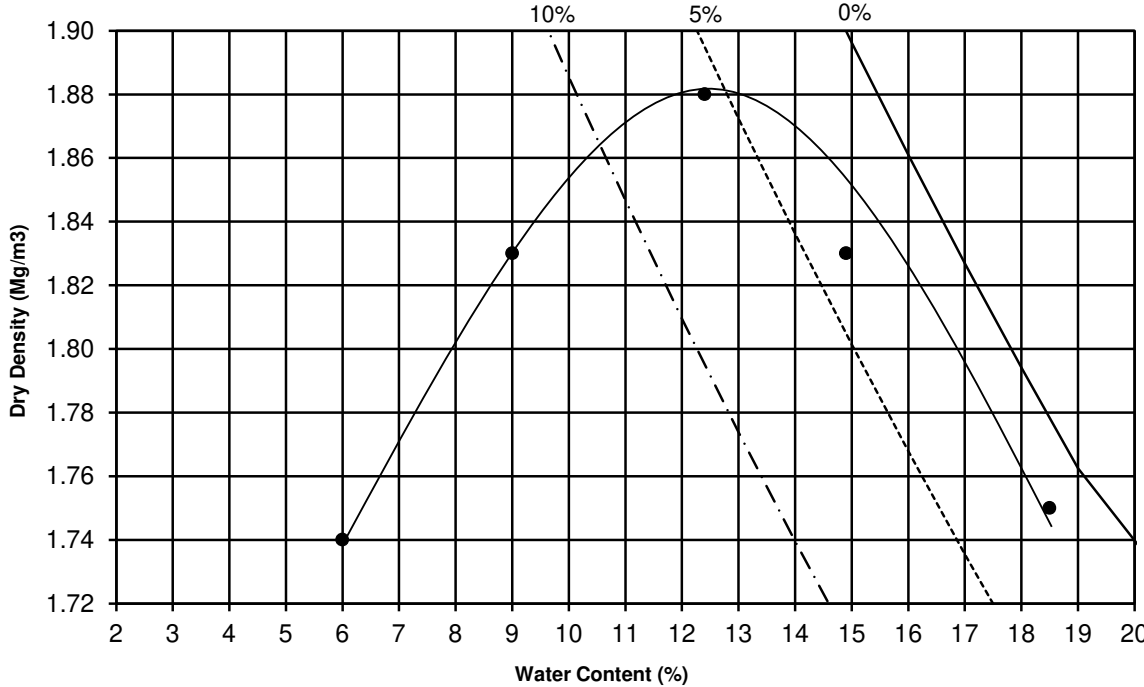
Results relate only to the specimen tested, in as received condition unless otherwise noted. Opinions and interpretations are outside the scope of accreditation. * denotes Customer supplied information This report shall not be reproduced except in full without the written approval of the Laboratory.	Persons authorised to approve reports J Barrett (Quality Manager) H Byrne (Laboratory Manager)

IGSL Materials Laboratory	Approved by	Date	Page
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IGSL Ltd Materials Laboratory M7 Business Park Naas Co. Kildare	Test Report Dry Density/Moisture Content Relationship Tested in accordance with BS1377-2:2022 Cl11	

Report No.	R166489	Contract No.	25758
Contract Name:	MT Avenue Dundalk		
Location*:	TP48		
Sample No*.	AA2336830	Depth* (m)	0.5
		Material Type	B
Lab sample no.	A25/0024	Customer:	DBFL
Date Received:	28/01/2025	Test Method:	2.5 Kg Rammer
Date Tested:	25/02/2025	BS1377-2:2022	11.3

Dry Density (Mg/m ³)	1.75	1.74	1.83	1.88	1.83		
Water Content (%)	18.5	6.0	9.0	12.4	14.9	0	



The graph plots Dry Density (Mg/m³) on the y-axis (1.72 to 1.90) against Water Content (%) on the x-axis (2 to 20). A solid curve represents the compaction data, with a peak at 12.4% water content and 1.88 Mg/m³ dry density. Three dashed lines represent moisture limits: 10%, 5%, and 0%. Data points from the table are plotted on the graph.

Maximum Dry Density (Mg/m ³):	1.88	Optimum Water Content (%):	12.4
Description:	Brown sandy gravelly SILT/CLAY		
Sample Preparation:	Single / Separate samples used		
Particle Density (Mg/m ³):	2.65	Particle Density:	Assumed
% retained on 20/37.5mm sieve:	5/2	Grading Zone	3

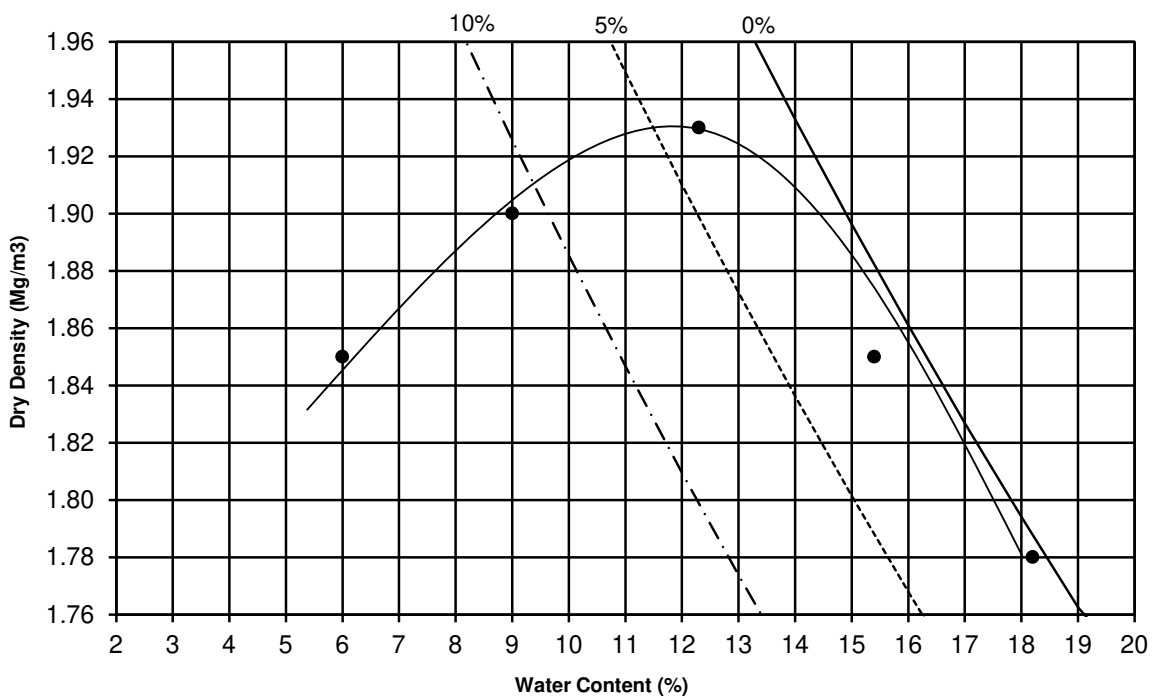
Results relate only to the specimen tested, in as received condition unless otherwise noted. Opinions and interpretations are outside the scope of accreditation. * denotes Customer supplied information This report shall not be reproduced except in full without the written approval of the Laboratory.	Persons authorised to approve reports J Barrett (Quality Manager) H Byrne (Laboratory Manager)

IGSL Materials Laboratory	Approved by	Date	Page
		28/04/25	1 of 1

IGSL Ltd Materials Laboratory M7 Business Park Naas Co. Kildare	Test Report Dry Density/Moisture Content Relationship Tested in accordance with BS1377-2:2022 Cl11	

Report No.	R166490	Contract No.	25758
Contract Name:	MT Avenue Dundalk		
Location*:	TP53		
Sample No*.	AA236845	Depth* (m)	0.5
		Material Type	B
Lab sample no.	A25/0026	Customer:	DBFL
Date Received:	28/01/2025	Test Method:	2.5 Kg Rammer
Date Tested:	25/02/2025	BS1377-2:2022	11.3

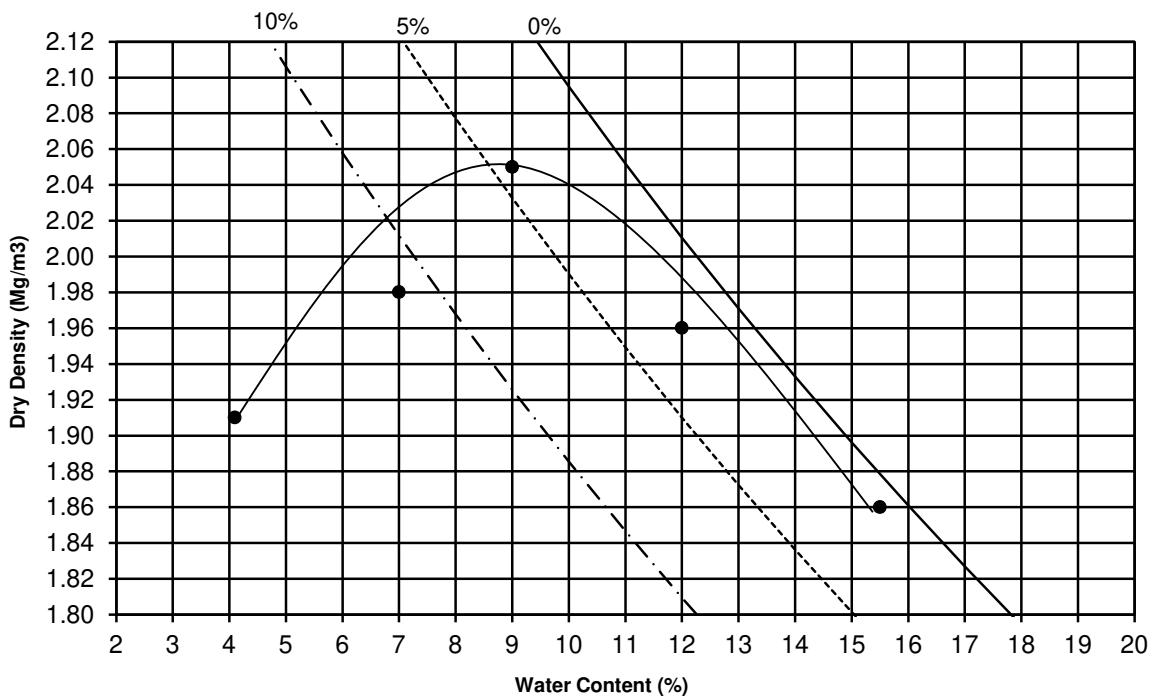
Dry Density (Mg/m ³)	1.78	1.85	1.90	1.93	1.85		
Water Content (%)	18.2	6.0	9.0	12.3	15.4	0	



Maximum Dry Density (Mg/m ³):	1.93	Optimum Water Content (%):	12.3
Description:	Brown sandy gravelly SILT/CLAY		
Sample Preparation:	Single / Separate samples used		
Particle Density (Mg/m ³):	2.65	Particle Density:	Assumed
% retained on 20/37.5mm sieve:	7/6	Grading Zone	4

Results relate only to the specimen tested, in as received condition unless otherwise noted. Opinions and interpretations are outside the scope of accreditation. * denotes Customer supplied information This report shall not be reproduced except in full without the written approval of the Laboratory.	Persons authorised to approve reports J Barrett (Quality Manager) H Byrne (Laboratory Manager)

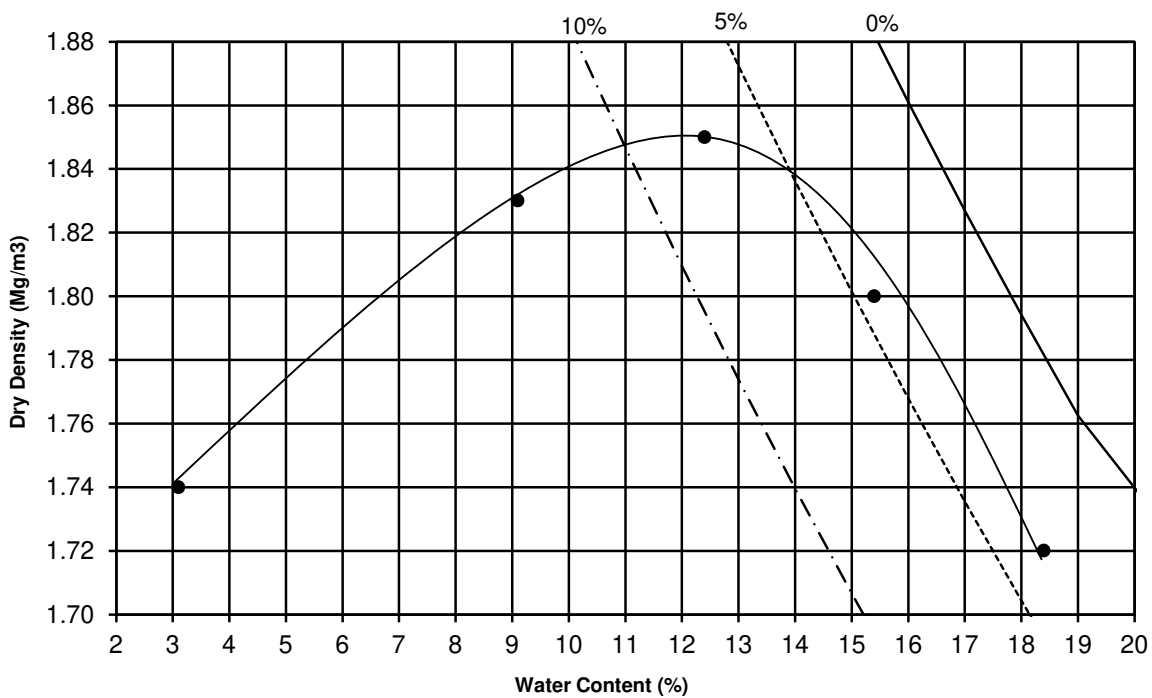
IGSL Materials Laboratory	Approved by	Date	Page
		28/04/25	1 of 1

IGSL Ltd Materials Laboratory M7 Business Park Naas Co. Kildare	Test Report Dry Density/Moisture Content Relationship Tested in accordance with BS1377-2:2022 Cl11																	
Report No. R166491 Contract No. 25758 Contract Name: MT Avenue Dundalk Location*: TP64 Sample No*. AA235762 Depth* (m) 1 Material Type B Lab sample no. A25/0230 Customer: DBFL Date Received: 28/01/2025 Test Method: 2.5 Kg Rammer Date Tested: 26/02/2025 BS1377-2:2022 11.3																		
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">Dry Density (Mg/m³)</td> <td style="width: 12.5%;">1.86</td> <td style="width: 12.5%;">1.91</td> <td style="width: 12.5%;">1.98</td> <td style="width: 12.5%;">2.05</td> <td style="width: 12.5%;">1.96</td> <td style="width: 12.5%;"></td> <td style="width: 12.5%;"></td> </tr> <tr> <td>Water Content (%)</td> <td>15.5</td> <td>4.1</td> <td>7.0</td> <td>9.0</td> <td>12.0</td> <td>0</td> <td></td> </tr> </table>			Dry Density (Mg/m ³)	1.86	1.91	1.98	2.05	1.96			Water Content (%)	15.5	4.1	7.0	9.0	12.0	0	
Dry Density (Mg/m ³)	1.86	1.91	1.98	2.05	1.96													
Water Content (%)	15.5	4.1	7.0	9.0	12.0	0												
																		
Maximum Dry Density (Mg/m ³): 2.05 Optimum Water Content (%): 9.0 Description: Brown sandy gravelly SILT/CLAY Sample Preparation: Single / Separate samples used Particle Density (Mg/m ³): 2.65 Particle Density: Assumed % retained on 20/37.5mm sieve: 9/6 Grading Zone 4																		
Results relate only to the specimen tested, in as received condition unless otherwise noted. Opinions and interpretations are outside the scope of accreditation. * denotes Customer supplied information This report shall not be reproduced except in full without the written approval of the Laboratory.		Persons authorised to approve reports J Barrett (Quality Manager) H Byrne (Laboratory Manager)																
IGSL Materials Laboratory		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Approved by</td> <td style="width: 25%;">Date</td> <td style="width: 25%;">Page</td> </tr> <tr> <td style="text-align: center;">  </td> <td style="text-align: center;">28/04/25</td> <td style="text-align: center;">1 of 1</td> </tr> </table>	Approved by	Date	Page		28/04/25	1 of 1										
Approved by	Date	Page																
	28/04/25	1 of 1																

IGSL Ltd Materials Laboratory M7 Business Park Naas Co. Kildare	Test Report Dry Density/Moisture Content Relationship Tested in accordance with BS1377-2:2022 C111	

Report No.	R166596	Contract No.	25758
Contract Name:	MT Avenue Dundalk		
Location*:	TP71		
Sample No*.	AA235788	Depth* (m)	0.5
		Material Type	B
Lab sample no.	A25/0232	Customer:	DBFL
Date Received:	28/01/2025	Test Method:	2.5 Kg Rammer
Date Tested:	28/02/2025	BS1377-2:2022	11.3

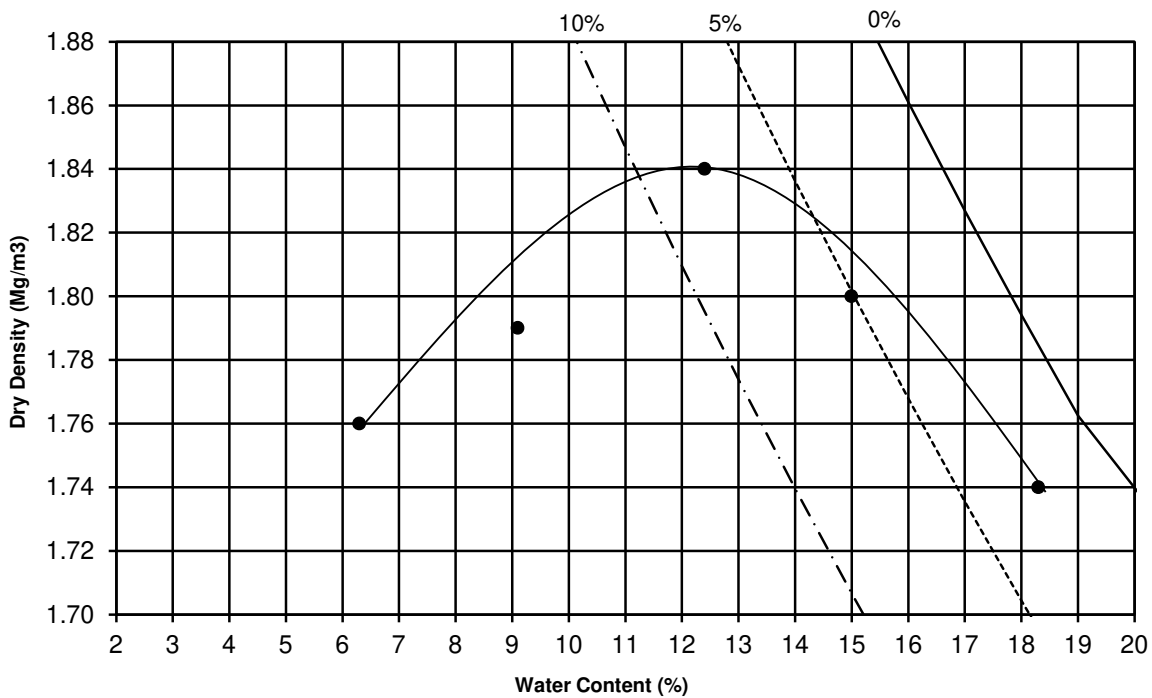
Dry Density (Mg/m ³)	1.80	1.74	1.72	1.83	1.85		
Water Content (%)	15.4	3.1	18.4	9.1	12.4	0	



Maximum Dry Density (Mg/m ³):	1.85	Optimum Water Content (%):	12.4
Description:	Brown sandy gravelly SILT/CLAY		
Sample Preparation:	Single / Separate samples used		
Particle Density (Mg/m ³):	2.65	Particle Density:	Assumed
% retained on 20/37.5mm sieve:	6/0	Grading Zone	3

Results relate only to the specimen tested, in as received condition unless otherwise noted. Opinions and interpretations are outside the scope of accreditation. * denotes Customer supplied information This report shall not be reproduced except in full without the written approval of the Laboratory.	Persons authorised to approve reports J Barrett (Quality Manager) H Byrne (Laboratory Manager)

IGSL Materials Laboratory	Approved by	Date	Page
		28/04/25	1 of 1

IGSL Ltd Materials Laboratory M7 Business Park Naas Co. Kildare	Test Report Dry Density/Moisture Content Relationship Tested in accordance with BS1377-2:2022 Cl11																	
Report No. R166492 Contract No. 25758 Contract Name: MT Avenue Dundalk Location*: TP82 Sample No*. AA246836 Depth* (m) 0.5 Material Type B Lab sample no. A25/0236 Customer: DBFL Date Received: 28/01/2025 Test Method: 2.5 Kg Rammer Date Tested: 25/02/2025 BS1377-2:2022 11.3																		
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">Dry Density (Mg/m³)</td> <td style="width: 12.5%;">1.74</td> <td style="width: 12.5%;">1.76</td> <td style="width: 12.5%;">1.79</td> <td style="width: 12.5%;">1.84</td> <td style="width: 12.5%;">1.80</td> <td style="width: 12.5%;"></td> <td style="width: 12.5%;"></td> </tr> <tr> <td>Water Content (%)</td> <td>18.3</td> <td>6.3</td> <td>9.1</td> <td>12.4</td> <td>15.0</td> <td>0</td> <td></td> </tr> </table>			Dry Density (Mg/m ³)	1.74	1.76	1.79	1.84	1.80			Water Content (%)	18.3	6.3	9.1	12.4	15.0	0	
Dry Density (Mg/m ³)	1.74	1.76	1.79	1.84	1.80													
Water Content (%)	18.3	6.3	9.1	12.4	15.0	0												
																		
Maximum Dry Density (Mg/m ³): 1.84 Optimum Water Content (%): 12.4 Description: Brown sandy gravelly SILT/CLAY Sample Preparation: Single / Separate samples used Particle Density (Mg/m ³): 2.65 Particle Density: Assumed % retained on 20/37.5mm sieve: 3/0 Grading Zone 1																		
Results relate only to the specimen tested, in as received condition unless otherwise noted. Opinions and interpretations are outside the scope of accreditation. * denotes Customer supplied information This report shall not be reproduced except in full without the written approval of the Laboratory.		Persons authorised to approve reports J Barrett (Quality Manager) H Byrne (Laboratory Manager)																
IGSL Materials Laboratory		Approved by  Date 28/04/25 Page 1 of 1																

IGSL Ltd Materials Laboratory M7 Business Park Naas Co. Kildare 045 899324	Test Report			
	Determination of Frost Heave Tested in accordance with BS 812 Part 124 2009			
Report No. R168165 Contract No. 25758 Sample No. A25/0226				
Customer: DBFL				
Contract Name: Mt Avenue Dundalk		Customer Ref*: TP64 @ 1m		
Material Type*: Soil 2% Lime added				
Sample Received: 28/01/2025	Date tested: 12/03/2025	Sample Cert: Not Provided		
Location*: TP64 @ 1m		Source*: Not Stated		
Maximum Frost Heave after 96 hours	Sp1	19		
	Sp2	23		
	Sp3	20		
Mean Frost Heave		21		
Mean heave of Reference sandy Mixture		9.5		
Maximum Dry Density :	2.05 Mg/m3			
Optimum Water Content:	9.0 %			
Actual Dry Density :	2.06 Mg/m3			
Actual Water Content:	8.5 %			
Results relate only to the specimen tested, in as received condition unless otherwise noted. Opinions and interpretations are outside the scope of accreditation. * denotes Customer supplied information. This report shall not be reproduced except in full without written approval from the Laboratory.			Approved signatories J Barrett (Quality Manager) H Byrne (Laboratory Manager)	
IGSL Materials Laboratory	Approved by		Date	Page
			28/04/2025	1 of 1



Test Report

Incremental Loading Oedometer Test (EN ISO 17892-5:2017)

Report Number R161777

Contract Mount Avenue Dundalk

Contract Number 25758

Client Adwood Ltd

BH: 04 Sample No. 241994 Depth (m): 2.00

Description Brown sandy gravelly SILT/CLAY

Initial Height (mm) 20.0 Diameter (mm) 75.0 Initial Voids Ratio 0.335

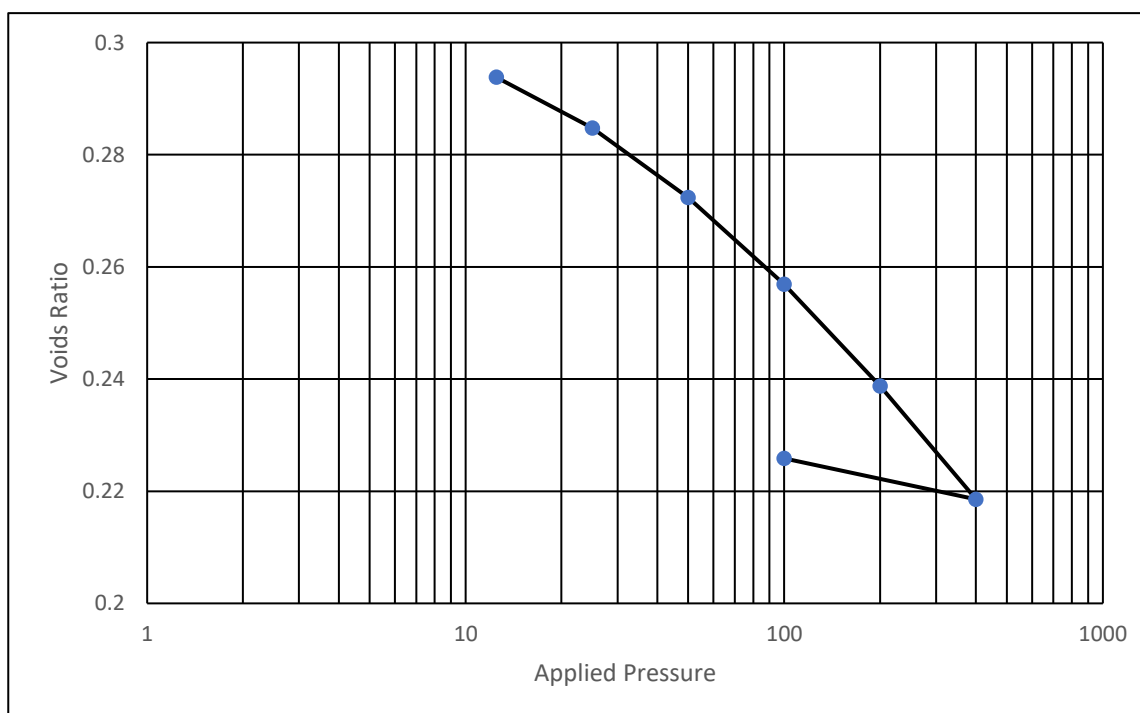
Initial Water Content (%) 14 Assumed Particle Density (Mg/m^3) 2.65

Initial Bulk Density (Mg/m^3) 2.27 Initial Dry Density (Mg/m^3) 1.99

Laboratory Temperature: 20 +/- 4 degrees C unless otherwise stated

Preparation: Cutting Ring pushed vertically into sample. Water Content derived from trimmings

Applied Pressure (kPa)	m_v (m^2/MN)	c_v (m^2/Year)	Voids Ratio
12.5	2.467	1.563	0.29381
25	0.561	2.384	0.28474
50	0.385	3.366	0.27238
100	0.243	5.352	0.25690
200	0.144	7.471	0.23874
400	0.081	9.319	0.21855
100	Unloading	Stage	0.22586



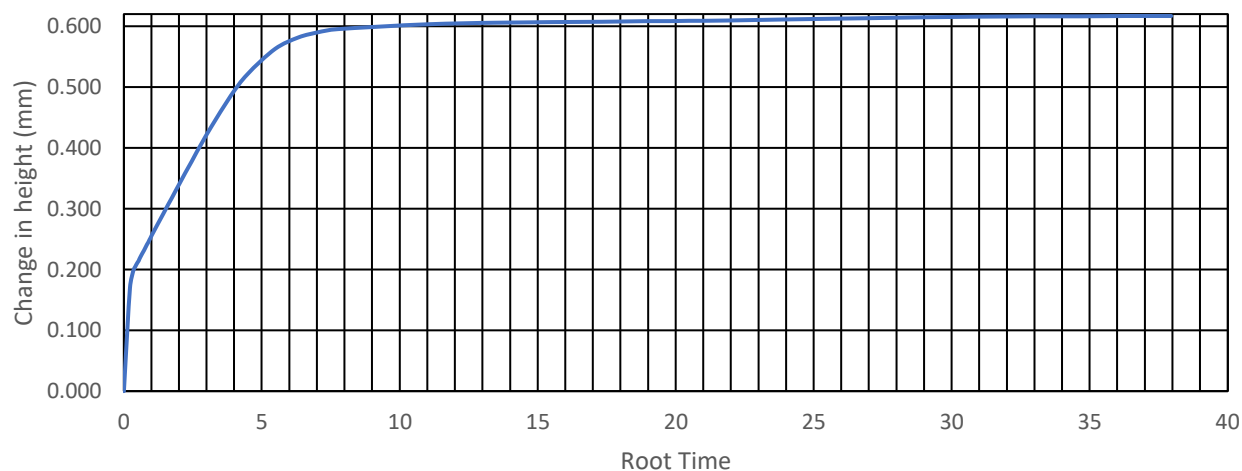


Test Report

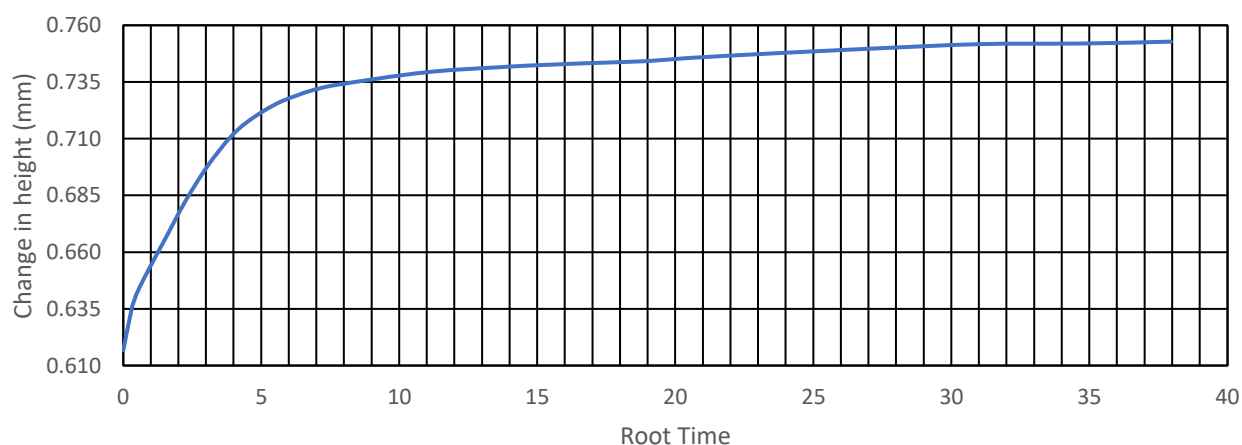
Incremental Loading Oedometer Test (EN ISO 17892-5:2017)

Report Number R161777

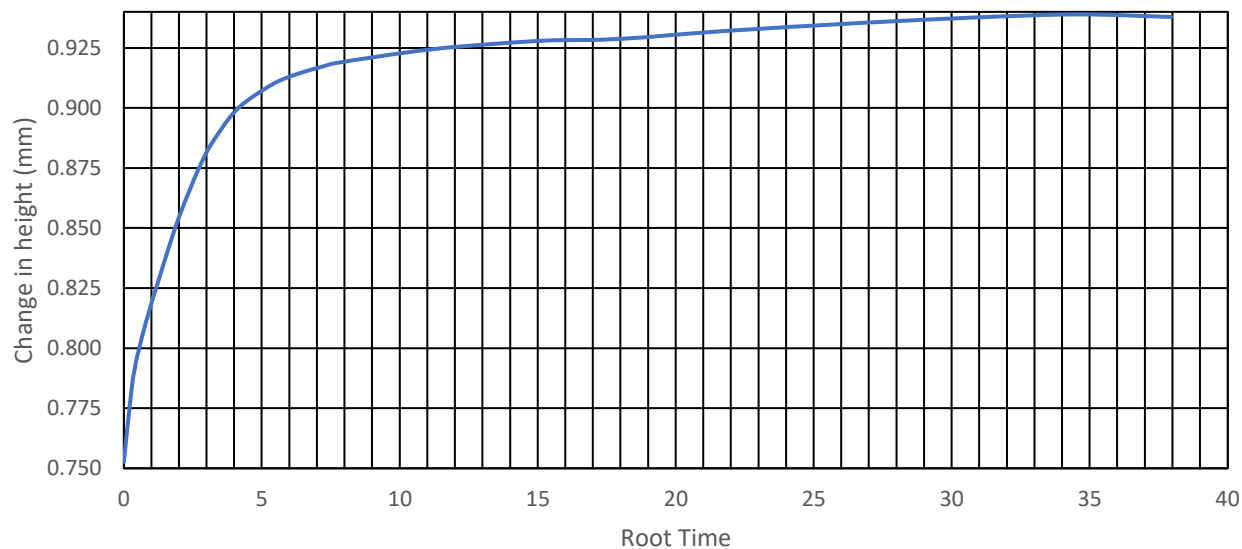
Applied Pressure (kPa) 12.5



Applied Pressure (kPa) 25



Applied Pressure (kPa) 50



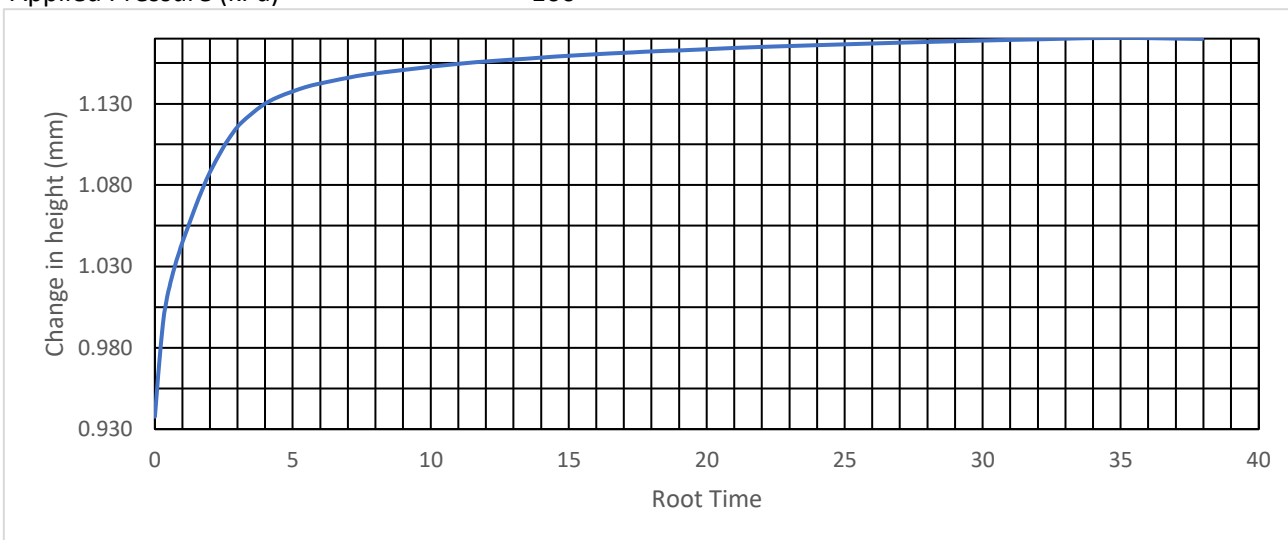


Test Report

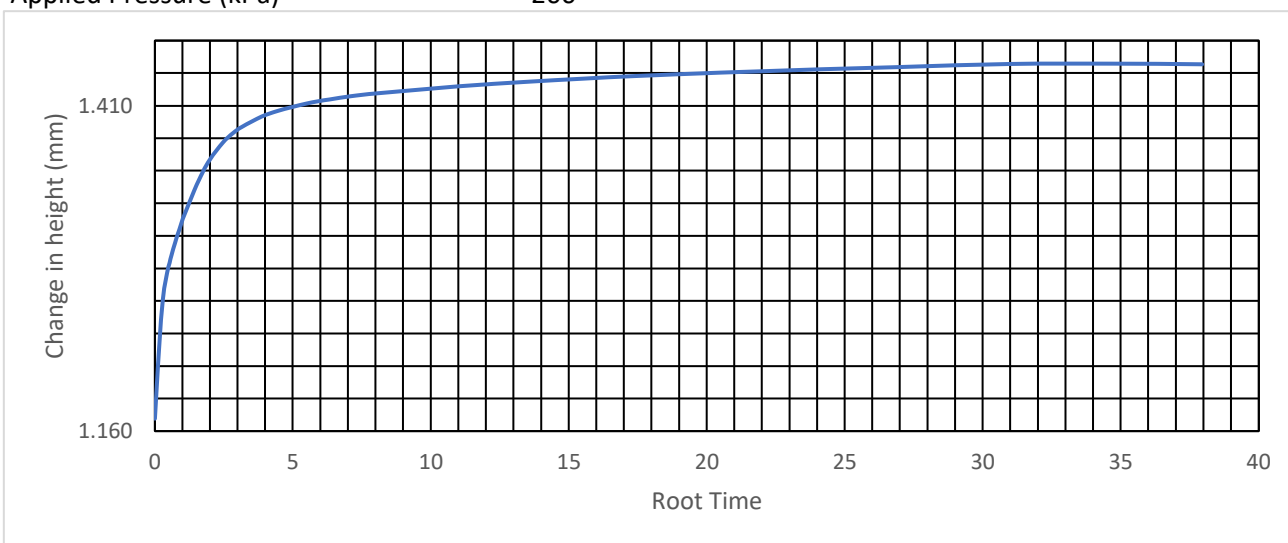
Incremental Loading Oedometer Test (EN ISO 17892-5:2017)

Report Number R161777

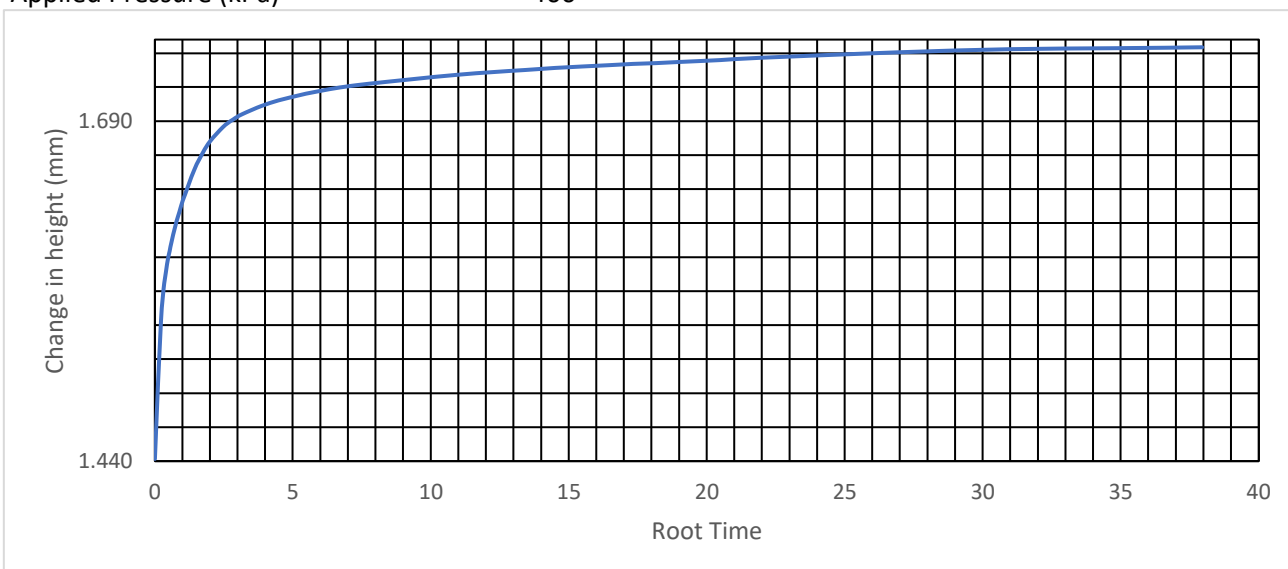
Applied Pressure (kPa) 100



Applied Pressure (kPa) 200



Applied Pressure (kPa) 400



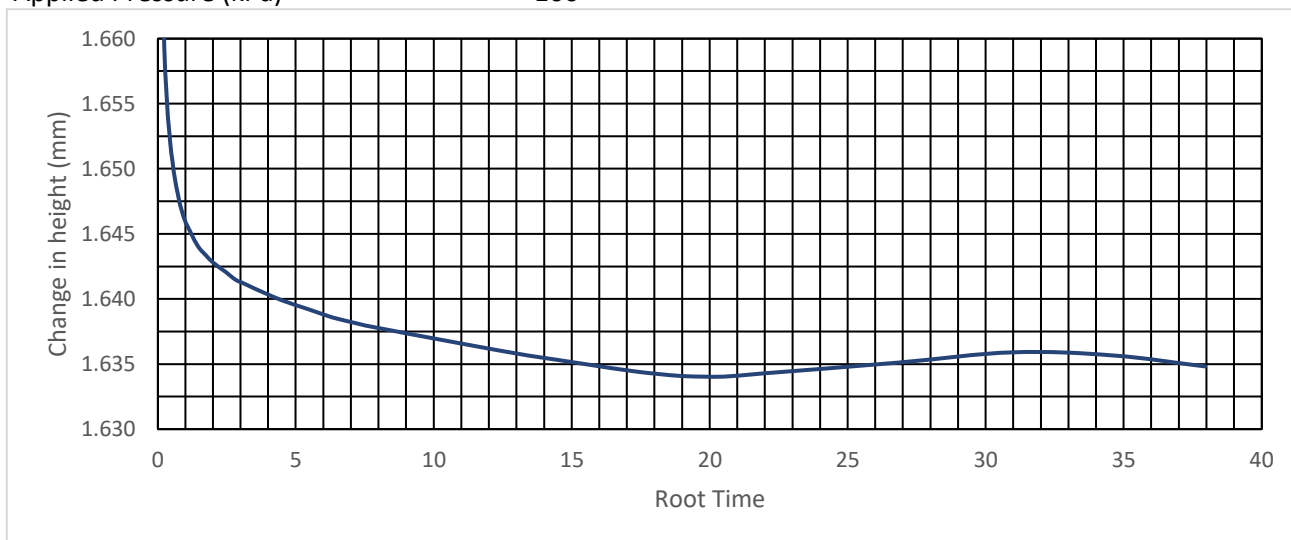


Test Report

Incremental Loading Oedometer Test (EN ISO 17892-5:2017)

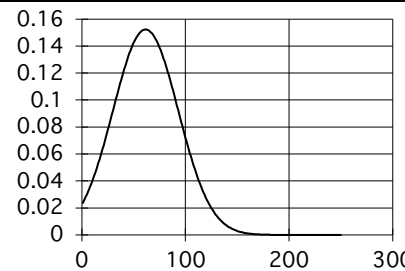
Report Number R161777

Applied Pressure (kPa) 100



Appendix 8

Geotechnical Laboratory Results (Rock)

(Diametrial) POINT LOAD STRENGTH INDEX TEST DATA										
Contract: Mount Avenue, Dundalk			Sample Type: Core							
Contract no. 25758			Date of test: 05/03/2025							
RC No.	Depth m	D (Diameter) mm	P (failure load) kN	F	Is (index strength) Mpa	Is(50) (index strength) Mpa	*UCS MPa	Type	Orientation	
RC11	8.4	78	21.0	1.222	3.45	4.22	84	d	//	
	8.9	78	6.0	1.222	0.99	1.20	24	d	//	
	9.2	78	4.0	1.222	0.66	0.80	16	d	//	
	9.9	78	18.0	1.222	2.96	3.61	72	d	//	
	10.2	78	21.0	1.222	3.45	4.22	84	d	//	
	10.9	78	14.0	1.222	2.30	2.81	56	d	//	
RC13	6.2	78	4.0	1.222	0.66	0.80	16	d	//	
	6.9	78	8.0	1.222	1.31	1.61	32	d	//	
	7.3	78	19.0	1.222	3.12	3.81	76	d	//	
	7.5	78	22.0	1.222	3.62	4.42	88	d	//	
	8.1	78	26.0	1.222	4.27	5.22	104	d	//	
	8.6	78	21.0	1.222	3.45	4.22	84	d	//	
Statistical Summary Data			Is(50)	UCS*	*UCS Normal Distribution Curve			Abbreviations		
Number of Samples Tested			12	12				i	irregular	
Minimum			0.80	16				a	axial	
Average			3.08	62				b	block	
Maximum			5.22	104				d	diametral	
Standard Dev.			1.57	31				approx. orientation to planes of weakness/bedding		
Upper 95% Confidence Limit			6.16	123.21						
Lower 95% Confidence Limit			0.00	-0.07						
Comments:										
*UCS taken as k x Point Load Is(50):			k=	20				U	unknown	
									P	perpendicular
									//	parallel

Appendix 9

Chemical & Environmental Test Records (Soil)



Final Report

Report No.: 25-03228-1

Initial Date of Issue: 18-Feb-2025

Re-Issue Details:

Client IGSL

Client Address: M7 Business Park
Naas
County Kildare
Ireland

Contact(s): Darren Keogh

Project 25758 Mount Avenue Dundalk

Quotation No.: Q24-34387

Date Received: 30-Jan-2025

Order No.:

Date Instructed: 30-Jan-2025

No. of Samples: 46

Turnaround (Wkdays): 7

Results Due: 07-Feb-2025

Date Approved: 18-Feb-2025

Approved By:

Details: David Smith, Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Leachate

Project: 25758 Mount Avenue Dundalk

Client: IGSL	Chemtest Job No.:					25-03228	25-03228	25-03228	25-03228	25-03228	25-03228	25-03228	25-03228	25-03228
Quotation No.: Q24-34387	Chemtest Sample ID.:					1925207	1925208	1925210	1925211	1925213	1925214	1925216	1925217	1925218
Order No.:	Client Sample Ref.:					TP2	TP4	TP12	TP14	TP16	TP18	TP22	TP24	TP26
	Sample Location:													
	Sample Type:					SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):					0.50	1.40	1.40	0.50	0.50	1.20	1.60	1.80	0.50
	Date Sampled:					26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024
Determinand	Accred.	SOP	Type	Units	LOD									
Ammonium	U	1220	10:1	mg/l	0.050	0.17	0.054	0.051	0.063	< 0.050	0.064	0.056	0.14	< 0.050
Ammonium	N	1220	10:1	mg/kg	0.10	2.0	0.65	0.60	0.69	0.60	0.67	0.69	1.4	0.50

Results - Leachate

Project: 25758 Mount Avenue Dundalk

Client: IGSL	Chemtest Job No.:					25-03228	25-03228	25-03228	25-03228	25-03228	25-03228	25-03228	25-03228	25-03228
Quotation No.: Q24-34387	Chemtest Sample ID.:					1925219	1925220	1925221	1925223	1925225	1925226	1925227	1925229	1925230
Order No.:	Client Sample Ref.:					TP28	TP30	TP34	TP38	TP40	TP42	TP44	TP48	TP50
	Sample Location:													
	Sample Type:					SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):					2.10	1.20	0.50	0.50	1.50	1.00	0.50	1.90	0.50
	Date Sampled:					26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024
Determinand	Accred.	SOP	Type	Units	LOD									
Ammonium	U	1220	10:1	mg/l	0.050	0.056	0.076	0.11	0.060	0.051	0.058	< 0.050	< 0.050	< 0.050
Ammonium	N	1220	10:1	mg/kg	0.10	0.58	0.78	1.1	0.64	0.53	0.58	0.48	0.43	0.39

Results - Leachate

Project: 25758 Mount Avenue Dundalk

Client: IGSL	Chemtest Job No.:					25-03228	25-03228	25-03228	25-03228	25-03228	25-03228	25-03228	25-03228	25-03228
Quotation No.: Q24-34387	Chemtest Sample ID.:					1925231	1925232	1925234	1925236	1925237	1925238	1925240	1925241	1925242
Order No.:	Client Sample Ref.:					TP52	TP54	TP58	TP60	TP62	TP64	TP66	TP68	TP70
	Sample Location:													
	Sample Type:					SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):					1.70	1.00	1.50	2.00	0.50	1.00	0.50	1.80	1.50
	Date Sampled:					26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024
Determinand	Accred.	SOP	Type	Units	LOD									
Ammonium	U	1220	10:1	mg/l	0.050	< 0.050	0.067	0.061	< 0.050	< 0.050	< 0.050	0.057	0.050	< 0.050
Ammonium	N	1220	10:1	mg/kg	0.10	0.49	0.70	0.63	0.65	0.50	0.27	0.57	0.52	0.51

Results - Leachate

Project: 25758 Mount Avenue Dundalk

Client: IGSL	Chemtest Job No.:						25-03228	25-03228	25-03228	25-03228	25-03228	25-03228	25-03228
Quotation No.: Q24-34387	Chemtest Sample ID.:						1925243	1925244	1925246	1925247	1925249	1925250	1925338
Order No.:	Client Sample Ref.:						TP72	TP74	TP76	TP78	TP82	TP86	
	Sample Location:												TP8
	Sample Type:						SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):						0.50	1.20	0.50	1.50	1.70	1.40	
	Date Sampled:						26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024
Determinand	Accred.	SOP	Type	Units	LOD								
Ammonium	U	1220	10:1	mg/l	0.050	0.056	< 0.050	< 0.050	0.057	< 0.050	< 0.050		I/S
Ammonium	N	1220	10:1	mg/kg	0.10	0.56	0.27	0.30	0.57	0.39	0.46		I/S

Results - Soil

Project: 25758 Mount Avenue Dundalk

Client: IGSL		Chemtest Job No.: 25-03228 25-03228 25-03228 25-03228 25-03228 25-03228 25-03228										
Quotation No.: Q24-34387		Chemtest Sample ID.: 1925206 1925207 1925208 1925209 1925210 1925211 1925212										
Order No.:		Client Sample Ref.: TP1 TP2 TP4 TP5 TP12 TP14 TP15										
		Sample Location:										
		Sample Type: SOIL SOIL SOIL SOIL SOIL SOIL SOIL										
		Top Depth (m): 1.70 0.50 1.40 1.60 1.40 0.50 1.40										
		Date Sampled: 26-Jan-2024 26-Jan-2024 26-Jan-2024 26-Jan-2024 26-Jan-2024 26-Jan-2024 26-Jan-2024										
		Asbestos Lab: DURHAM DURHAM DURHAM DURHAM DURHAM IN-TRAN-D										
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
ACM Type		U	2192		N/A		-	-		-	-	
Asbestos Identification		U	2192		N/A		No Asbestos Detected	No Asbestos Detected		No Asbestos Detected	No Asbestos Detected	
Moisture		N	2030	%	0.020	18	13	9.5	11	8.9	9.7	14
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones	Stones	Stones	Stones	Stones	Stones
Soil Texture		N	2040		N/A	Clay	Clay	Sand	Clay	Sand	Sand	Loam
pH at 20C		M	2010		4.0		[B] 7.2	[B] 7.6		[B] 7.8	[B] 7.9	
pH (2.5:1) at 20C		N	2010		4.0	[B] 7.0			[B] 7.4			[B] 7.4
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40		[B] < 0.40	[B] < 0.40		[B] < 0.40	[B] < 0.40	
Magnesium (Water Soluble)		N	2120	g/l	0.010	[B] < 0.010			[B] < 0.010			[B] < 0.010
Sulphate (2:1 Water Soluble) as SO4		M	2120	g/l	0.010	[B] < 0.010			[B] < 0.010			[B] < 0.010
Total Sulphur		U	2175	%	0.010	[B] 0.010			[B] 0.010			[B] 0.010
Sulphur (Elemental)		M	2180	mg/kg	1.0		[B] < 1.0	[B] 3.6		[B] < 1.0	[B] < 1.0	
Chloride (Water Soluble)		M	2220	g/l	0.010	[B] < 0.010			[B] < 0.010			[B] < 0.010
Nitrate (Water Soluble)		N	2220	g/l	0.010	< 0.010			< 0.010			< 0.010
Cyanide (Complex)		M	2300	mg/kg	0.50		[B] < 0.50	[B] < 0.50		[B] 0.70	[B] < 0.50	
Cyanide (Free)		M	2300	mg/kg	0.50		[B] < 0.50	[B] < 0.50		[B] < 0.50	[B] < 0.50	
Cyanide (Total)		M	2300	mg/kg	0.50		[B] < 0.50	[B] < 0.50		[B] 0.70	[B] < 0.50	
Sulphide (Easily Liberatable)		N	2325	mg/kg	0.50		[B] 2.2	[B] 2.5		[B] 3.5	[B] 2.2	
Ammonium (Water Soluble)		M	2220	g/l	0.01	< 0.01			< 0.01			< 0.01
Sulphate (Total)		U	2430	%	0.010		[B] 0.030	[B] 0.091		[B] 0.026	[B] 0.041	
Sulphate (Acid Soluble)		U	2430	%	0.010	[B] 0.025			[B] 0.012			[B] 0.015
Arsenic		M	2455	mg/kg	0.5		11	7.0		12	10	
Barium		M	2455	mg/kg	0.5		71	71		46	39	
Cadmium		M	2455	mg/kg	0.10		0.12	0.27		0.12	0.17	
Chromium		M	2455	mg/kg	0.5		51	54		62	44	
Molybdenum		M	2455	mg/kg	0.5		< 0.5	< 0.5		< 0.5	< 0.5	
Antimony		N	2455	mg/kg	2.0		< 2.0	< 2.0		< 2.0	< 2.0	
Copper		M	2455	mg/kg	0.50		24	31		27	24	
Mercury		M	2455	mg/kg	0.05		0.06	< 0.05		< 0.05	< 0.05	
Nickel		M	2455	mg/kg	0.50		53	60		74	53	
Lead		M	2455	mg/kg	0.50		19	36		23	23	
Selenium		M	2455	mg/kg	0.25		0.37	0.54		0.41	0.47	
Zinc		M	2455	mg/kg	0.50		73	140		95	73	
Chromium (Trivalent)		N	2490	mg/kg	1.0		51	54		62	44	
Chromium (Hexavalent)		N	2490	mg/kg	0.50		< 0.50	< 0.50		< 0.50	< 0.50	

Results - Soil

Project: 25758 Mount Avenue Dundalk

Client: IGSL		Chemtest Job No.:	25-03228	25-03228	25-03228	25-03228	25-03228	25-03228	25-03228
Quotation No.: Q24-34387		Chemtest Sample ID.:	1925206	1925207	1925208	1925209	1925210	1925211	1925212
Order No.:		Client Sample Ref.:	TP1	TP2	TP4	TP5	TP12	TP14	TP15
		Sample Location:							
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	1.70	0.50	1.40	1.60	1.40	0.50	1.40
		Date Sampled:	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024
		Asbestos Lab:		DURHAM	DURHAM		DURHAM	DURHAM	IN-TRAN-D
Determinand	HWOL Code	Accred.	SOP	Units	LOD				
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05		[B] < 0.05	[B] < 0.05	
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05		[B] < 0.05	[B] < 0.05	
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05		[B] < 0.05	[B] < 0.05	
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10		[B] < 0.10	[B] < 0.10	
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05		[B] < 0.05	[B] < 0.05	
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25		[B] < 0.25	[B] < 0.25	
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00		[B] 2.2	[B] 3.4	
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00		[B] 1.7	[B] < 1.0	
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00		[B] 4.9	[B] 3.3	
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00		[B] 30	[B] 31	
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00		[B] < 10	[B] < 10	
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00		[B] 39	[B] 38	
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00		[B] 39	[B] 38	
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05		[B] < 0.05	[B] < 0.05	
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05		[B] < 0.05	[B] < 0.05	
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05		[B] < 0.05	[B] < 0.05	
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25		[B] < 0.25	[B] < 0.25	
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00		[B] 1.1	[B] 1.1	
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00		[B] < 1.0	[B] < 1.0	
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00		[B] 7.7	[B] 5.1	
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00		[B] 24	[B] 17	
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00		[B] 36	[B] 25	
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00		[B] 34	[B] 24	
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00		[B] 69	[B] 49	
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50		[B] < 0.50	[B] < 0.50	
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00		[B] 72	[B] 61	
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00		[B] 110	[B] 86	
Mineral Oil EPH		N	2670	mg/kg	10		39	38	
Benzene		M	2760	µg/kg	1.0		[B] < 1.0	[B] < 1.0	
Toluene		M	2760	µg/kg	1.0		[B] < 1.0	[B] < 1.0	
Ethylbenzene		M	2760	µg/kg	1.0		[B] < 1.0	[B] < 1.0	
m & p-Xylene		M	2760	µg/kg	1.0		[B] < 1.0	[B] < 1.0	
o-Xylene		M	2760	µg/kg	1.0		[B] < 1.0	[B] < 1.0	
Methyl Tert-Butyl Ether		M	2760	µg/kg	1.0		[B] < 1.0	[B] < 1.0	
Naphthalene		M	2800	mg/kg	0.10		< 0.10	< 0.10	
Acenaphthylene		N	2800	mg/kg	0.10		< 0.10	< 0.10	
Acenaphthene		M	2800	mg/kg	0.10		< 0.10	< 0.10	
Fluorene		M	2800	mg/kg	0.10		< 0.10	< 0.10	

Results - Soil

Project: 25758 Mount Avenue Dundalk

Client: IGSL		Chemtest Job No.:						25-03228	25-03228	25-03228	25-03228	25-03228	25-03228	25-03228
Quotation No.: Q24-34387		Chemtest Sample ID.:						1925206	1925207	1925208	1925209	1925210	1925211	1925212
Order No.:		Client Sample Ref.:						TP1	TP2	TP4	TP5	TP12	TP14	TP15
		Sample Location:												
		Sample Type:						SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):						1.70	0.50	1.40	1.60	1.40	0.50	1.40
		Date Sampled:						26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024
		Asbestos Lab:							DURHAM	DURHAM		DURHAM	DURHAM	IN-TRAN-D
Determinand	HWOL Code	Accred.	SOP	Units	LOD									
Phenanthrene		M	2800	mg/kg	0.10			< 0.10	< 0.10			< 0.10	< 0.10	
Anthracene		M	2800	mg/kg	0.10			< 0.10	< 0.10			< 0.10	< 0.10	
Fluoranthene		M	2800	mg/kg	0.10			0.16	< 0.10			< 0.10	< 0.10	
Pyrene		M	2800	mg/kg	0.10			0.10	< 0.10			< 0.10	< 0.10	
Benzo[a]anthracene		M	2800	mg/kg	0.10			< 0.10	< 0.10			< 0.10	< 0.10	
Chrysene		M	2800	mg/kg	0.10			< 0.10	< 0.10			< 0.10	< 0.10	
Benzo[b]fluoranthene		M	2800	mg/kg	0.10			< 0.10	< 0.10			< 0.10	< 0.10	
Benzo[k]fluoranthene		M	2800	mg/kg	0.10			< 0.10	< 0.10			< 0.10	< 0.10	
Benzo[a]pyrene		M	2800	mg/kg	0.10			< 0.10	< 0.10			< 0.10	< 0.10	
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10			< 0.10	< 0.10			< 0.10	< 0.10	
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10			< 0.10	< 0.10			< 0.10	< 0.10	
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10			< 0.10	< 0.10			< 0.10	< 0.10	
Coronene		N	2800	mg/kg	0.10			< 0.10	< 0.10			< 0.10	< 0.10	
Total Of 16 PAH's		N	2800	mg/kg	2.0			< 2.0	< 2.0			< 2.0	< 2.0	
Total Of 17 PAH's		N	2800	mg/kg	2.0			< 2.0	< 2.0			< 2.0	< 2.0	
PCB 28		U	2815	mg/kg	0.010			[B] < 0.010	[B] < 0.010			[B] < 0.010	[B] < 0.010	
PCB 52		U	2815	mg/kg	0.010			[B] < 0.010	[B] < 0.010			[B] < 0.010	[B] < 0.010	
PCB 101		U	2815	mg/kg	0.010			[B] < 0.010	[B] < 0.010			[B] < 0.010	[B] < 0.010	
PCB 118		U	2815	mg/kg	0.010			[B] < 0.010	[B] < 0.010			[B] < 0.010	[B] < 0.010	
PCB 153		U	2815	mg/kg	0.010			[B] < 0.010	[B] < 0.010			[B] < 0.010	[B] < 0.010	
PCB 138		U	2815	mg/kg	0.010			[B] < 0.010	[B] < 0.010			[B] < 0.010	[B] < 0.010	
PCB 180		U	2815	mg/kg	0.010			[B] < 0.010	[B] < 0.010			[B] < 0.010	[B] < 0.010	
Tot PCBs Low (7 Congeners)		N	2815	mg/kg	0.05			[B] < 0.05	[B] < 0.05			[B] < 0.05	[B] < 0.05	
Total Phenols		M	2920	mg/kg	0.10			< 0.10	< 0.10			< 0.10	< 0.10	

Results - Soil

Project: 25758 Mount Avenue Dundalk

Client: IGSL		Chemtest Job No.:		25-03228	25-03228	25-03228	25-03228	25-03228	25-03228	25-03228	25-03228	25-03228
Quotation No.: Q24-34387		Chemtest Sample ID.:		1925213	1925214	1925215	1925216	1925217	1925218	1925219		
Order No.:		Client Sample Ref.:		TP16	TP18	TP20	TP22	TP24	TP26	TP28		
		Sample Location:										
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
		Top Depth (m):		0.50	1.20	2.30	1.60	1.80	0.50	2.10		
		Date Sampled:		26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024		
		Asbestos Lab:		DURHAM	DURHAM	IN-TRAN-D	DURHAM	DURHAM	DURHAM	DURHAM		
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
ACM Type		U	2192		N/A	-	-		-	-	-	-
Asbestos Identification		U	2192		N/A	No Asbestos Detected	No Asbestos Detected		No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture		N	2030	%	0.020	12	13	8.4	9.0	13	11	9.6
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones	Stones	Stones	Stones	Stones	Stones
Soil Texture		N	2040		N/A	Sand	Clay	Clay	Sand	Clay	Clay	Sand
pH at 20C		M	2010		4.0		[B] 8.0			[B] 8.0	[B] 7.4	[B] 7.7
pH (2.5:1) at 20C		N	2010		4.0			[B] 8.3				
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	[B] < 0.40	[B] < 0.40		[B] < 0.40	[B] < 0.40	[B] < 0.40	[B] < 0.40
Magnesium (Water Soluble)		N	2120	g/l	0.010			[B] < 0.010				
Sulphate (2:1 Water Soluble) as SO4		M	2120	g/l	0.010			[B] < 0.010				
Total Sulphur		U	2175	%	0.010			[B] 0.010				
Sulphur (Elemental)		M	2180	mg/kg	1.0	[B] 3.6	[B] < 1.0		[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Chloride (Water Soluble)		M	2220	g/l	0.010			[B] < 0.010				
Nitrate (Water Soluble)		N	2220	g/l	0.010			< 0.010				
Cyanide (Complex)		M	2300	mg/kg	0.50		[B] < 0.50			[B] < 0.50	[B] < 0.50	[B] < 0.50
Cyanide (Free)		M	2300	mg/kg	0.50		[B] < 0.50			[B] < 0.50	[B] < 0.50	[B] < 0.50
Cyanide (Total)		M	2300	mg/kg	0.50	[B] < 0.50	[B] < 0.50		[B] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50
Sulphide (Easily Liberatable)		N	2325	mg/kg	0.50	[B] 2.6	[B] 3.0		[B] 13	[B] < 0.50	[B] 3.2	[B] 2.4
Ammonium (Water Soluble)		M	2220	g/l	0.01			< 0.01				
Sulphate (Total)		U	2430	%	0.010	[B] 0.023	[B] 0.055		[B] 0.013	[B] 0.064	[B] 0.016	[B] 0.034
Sulphate (Acid Soluble)		U	2430	%	0.010			[B] < 0.010				
Arsenic		M	2455	mg/kg	0.5	13	22		17	14	12	9.8
Barium		M	2455	mg/kg	0.5	62	99		61	61	100	47
Cadmium		M	2455	mg/kg	0.10	0.28	0.18		0.49	0.13	0.13	0.25
Chromium		M	2455	mg/kg	0.5	56	77		48	60	59	46
Molybdenum		M	2455	mg/kg	0.5	< 0.5	< 0.5		0.5	< 0.5	< 0.5	< 0.5
Antimony		N	2455	mg/kg	2.0	< 2.0	< 2.0		< 2.0	< 2.0	< 2.0	< 2.0
Copper		M	2455	mg/kg	0.50	38	27		43	28	40	33
Mercury		M	2455	mg/kg	0.05	< 0.05	0.08		< 0.05	< 0.05	< 0.05	< 0.05
Nickel		M	2455	mg/kg	0.50	70	72		58	61	68	48
Lead		M	2455	mg/kg	0.50	28	29		22	21	31	18
Selenium		M	2455	mg/kg	0.25	0.67	0.69		1.1	0.47	0.72	0.37
Zinc		M	2455	mg/kg	0.50	110	94		92	80	100	68
Chromium (Trivalent)		N	2490	mg/kg	1.0	56	77		48	60	59	46
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50

Results - Soil

Project: 25758 Mount Avenue Dundalk

Client: IGSL		Chemtest Job No.:	25-03228	25-03228	25-03228	25-03228	25-03228	25-03228	25-03228
Quotation No.: Q24-34387		Chemtest Sample ID.:	1925213	1925214	1925215	1925216	1925217	1925218	1925219
Order No.:		Client Sample Ref.:	TP16	TP18	TP20	TP22	TP24	TP26	TP28
		Sample Location:							
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0.50	1.20	2.30	1.60	1.80	0.50	2.10
		Date Sampled:	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024
		Asbestos Lab:	DURHAM	DURHAM	IN-TRAN-D	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD				
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	[B] < 0.05	[B] < 0.05		[B] < 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	[B] < 0.05	[B] < 0.05		[B] < 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	[B] < 0.05	[B] < 0.05		[B] < 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	[B] < 0.10	[B] < 0.10		[B] < 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	[B] < 0.05	[B] < 0.05		[B] < 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	[B] < 0.25	[B] < 0.25		[B] < 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	[B] 2.7	[B] 2.6		[B] 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	[B] 1.1	[B] < 1.0		[B] 1.3
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	[B] 2.2	[B] 3.0		[B] < 2.0
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	[B] 29	[B] 31		[B] 27
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	[B] < 10	[B] 13		[B] < 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	[B] 35	[B] 37		[B] 31
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	[B] 35	[B] 50		[B] 31
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	[B] < 0.05	[B] < 0.05		[B] < 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	[B] < 0.05	[B] < 0.05		[B] < 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	[B] < 0.05	[B] < 0.05		[B] < 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	[B] < 0.25	[B] < 0.25		[B] < 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	[B] 1.1	[B] 1.3		[B] 1.4
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	[B] < 1.0	[B] < 1.0		[B] < 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	[B] 5.7	[B] 6.3		[B] 4.4
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	[B] 13	[B] 19		[B] 11
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	[B] 26	[B] 27		[B] 26
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	[B] 20	[B] 27		[B] 17
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	[B] 46	[B] 55		[B] 43
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	[B] < 0.50	[B] < 0.50		[B] < 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	[B] 55	[B] 64		[B] 48
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	[B] 82	[B] 100		[B] 74
Mineral Oil EPH		N	2670	mg/kg	10	35	50		31
Benzene		M	2760	µg/kg	1.0	[B] < 1.0	[B] < 1.0		[B] < 1.0
Toluene		M	2760	µg/kg	1.0	[B] < 1.0	[B] < 1.0		[B] < 1.0
Ethylbenzene		M	2760	µg/kg	1.0	[B] < 1.0	[B] < 1.0		[B] < 1.0
m & p-Xylene		M	2760	µg/kg	1.0	[B] < 1.0	[B] < 1.0		[B] < 1.0
o-Xylene		M	2760	µg/kg	1.0	[B] < 1.0	[B] < 1.0		[B] < 1.0
Methyl Tert-Butyl Ether		M	2760	µg/kg	1.0	[B] < 1.0	[B] < 1.0		[B] < 1.0
Naphthalene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10

Results - Soil

Project: 25758 Mount Avenue Dundalk

Client: IGSL		Chemtest Job No.:		25-03228	25-03228	25-03228	25-03228	25-03228	25-03228	25-03228	25-03228
Quotation No.: Q24-34387		Chemtest Sample ID.:		1925213	1925214	1925215	1925216	1925217	1925218	1925219	
Order No.:		Client Sample Ref.:		TP16	TP18	TP20	TP22	TP24	TP26	TP28	
		Sample Location:									
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
		Top Depth (m):		0.50	1.20	2.30	1.60	1.80	0.50	2.10	
		Date Sampled:		26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	
		Asbestos Lab:		DURHAM	DURHAM	IN-TRAN-D	DURHAM	DURHAM	DURHAM	DURHAM	
Determinand	HWOL Code	Accred.	SOP	Units	LOD						
Phenanthrene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10
Anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10
Pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10
Benzo[a]anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10
Chrysene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10
Coronene		N	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0		< 2.0		< 2.0	< 2.0	< 2.0
Total Of 17 PAH's		N	2800	mg/kg	2.0		< 2.0		< 2.0	< 2.0	< 2.0
PCB 28		U	2815	mg/kg	0.010	[B] < 0.010	[B] < 0.010		[B] < 0.010	[B] < 0.010	[B] < 0.010
PCB 52		U	2815	mg/kg	0.010	[B] < 0.010	[B] < 0.010		[B] < 0.010	[B] < 0.010	[B] < 0.010
PCB 101		U	2815	mg/kg	0.010	[B] < 0.010	[B] < 0.010		[B] < 0.010	[B] < 0.010	[B] < 0.010
PCB 118		U	2815	mg/kg	0.010	[B] < 0.010	[B] < 0.010		[B] < 0.010	[B] < 0.010	[B] < 0.010
PCB 153		U	2815	mg/kg	0.010	[B] < 0.010	[B] < 0.010		[B] < 0.010	[B] < 0.010	[B] < 0.010
PCB 138		U	2815	mg/kg	0.010	[B] < 0.010	[B] < 0.010		[B] < 0.010	[B] < 0.010	[B] < 0.010
PCB 180		U	2815	mg/kg	0.010	[B] < 0.010	[B] < 0.010		[B] < 0.010	[B] < 0.010	[B] < 0.010
Tot PCBs Low (7 Congeners)		N	2815	mg/kg	0.05	[B] < 0.05	[B] < 0.05		[B] < 0.05	[B] < 0.05	[B] < 0.05
Total Phenols		M	2920	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10

Results - Soil

Project: 25758 Mount Avenue Dundalk

Client: IGSL		Chemtest Job No.:		25-03228	25-03228	25-03228	25-03228	25-03228	25-03228	25-03228	25-03228
Quotation No.: Q24-34387		Chemtest Sample ID.:		1925220	1925221	1925222	1925223	1925224	1925225	1925226	
Order No.:		Client Sample Ref.:		TP30	TP34	TP35	TP38	TP40	TP40	TP42	
		Sample Location:									
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
		Top Depth (m):		1.20	0.50	1.20	0.50	0.50	1.50	1.00	
		Date Sampled:		26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	
		Asbestos Lab:		DURHAM	DURHAM		DURHAM	IN-TRAN-D	DURHAM	DURHAM	
Determinand	HWOL Code	Accred.	SOP	Units	LOD						
ACM Type		U	2192		N/A	-	-		-		-
Asbestos Identification		U	2192		N/A	No Asbestos Detected	No Asbestos Detected		No Asbestos Detected		No Asbestos Detected
Moisture		N	2030	%	0.020	11	11	12	11	14	8.7
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones	Stones	Stones	Stones	Stones
Soil Texture		N	2040		N/A	Clay	Clay	Clay	Loam	Loam	Loam
pH at 20C		M	2010		4.0		[B] 7.4				[B] 7.4
pH (2.5:1) at 20C		N	2010		4.0	[B] 7.4		[B] 7.3		[B] 7.7	
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	[B] < 0.40	[B] < 0.40		[B] 0.43		[B] < 0.40
Magnesium (Water Soluble)		N	2120	g/l	0.010			[B] < 0.010		[B] < 0.010	
Sulphate (2:1 Water Soluble) as SO4		M	2120	g/l	0.010			[B] 0.052		[B] 0.077	
Total Sulphur		U	2175	%	0.010			[B] 0.010		[B] 0.010	
Sulphur (Elemental)		M	2180	mg/kg	1.0	[B] < 1.0	[B] < 1.0		[B] < 1.0		[B] < 1.0
Chloride (Water Soluble)		M	2220	g/l	0.010			[B] < 0.010		[B] < 0.010	
Nitrate (Water Soluble)		N	2220	g/l	0.010			0.018		< 0.010	
Cyanide (Complex)		M	2300	mg/kg	0.50		[B] < 0.50				[B] < 0.50
Cyanide (Free)		M	2300	mg/kg	0.50		[B] < 0.50				[B] < 0.50
Cyanide (Total)		M	2300	mg/kg	0.50	[B] < 0.50	[B] < 0.50		[B] < 0.50		[B] < 0.50
Sulphide (Easily Liberatable)		N	2325	mg/kg	0.50	[B] 2.1	[B] 3.0		[B] 9.5		[B] 2.7
Ammonium (Water Soluble)		M	2220	g/l	0.01			< 0.01		< 0.01	
Sulphate (Total)		U	2430	%	0.010	[B] < 0.010	[B] 0.052		[B] 0.021		[B] < 0.010
Sulphate (Acid Soluble)		U	2430	%	0.010			[B] 0.019		[B] < 0.010	
Arsenic		M	2455	mg/kg	0.5	15	6.7		5.1		13
Barium		M	2455	mg/kg	0.5	110	67		72		140
Cadmium		M	2455	mg/kg	0.10	0.30	0.14		< 0.10		0.26
Chromium		M	2455	mg/kg	0.5	69	74		57		60
Molybdenum		M	2455	mg/kg	0.5	< 0.5	< 0.5		< 0.5		< 0.5
Antimony		N	2455	mg/kg	2.0	< 2.0	< 2.0		< 2.0		< 2.0
Copper		M	2455	mg/kg	0.50	70	45		15		56
Mercury		M	2455	mg/kg	0.05	< 0.05	0.08		< 0.05		< 0.05
Nickel		M	2455	mg/kg	0.50	87	100		55		71
Lead		M	2455	mg/kg	0.50	28	25		20		25
Selenium		M	2455	mg/kg	0.25	0.93	0.70		0.48		0.85
Zinc		M	2455	mg/kg	0.50	120	110		83		90
Chromium (Trivalent)		N	2490	mg/kg	1.0	69	74		57		60
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50		< 0.50		< 0.50

Results - Soil

Project: 25758 Mount Avenue Dundalk

Client: IGSL		Chemtest Job No.:	25-03228	25-03228	25-03228	25-03228	25-03228	25-03228	25-03228
Quotation No.: Q24-34387		Chemtest Sample ID.:	1925220	1925221	1925222	1925223	1925224	1925225	1925226
Order No.:		Client Sample Ref.:	TP30	TP34	TP35	TP38	TP40	TP40	TP42
		Sample Location:							
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	1.20	0.50	1.20	0.50	0.50	1.50	1.00
		Date Sampled:	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024
		Asbestos Lab:	DURHAM	DURHAM		DURHAM	IN-TRAN-D	DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD				
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	[B] < 0.05	[B] < 0.05		[B] < 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	[B] < 0.05	[B] < 0.05		[B] < 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	[B] < 0.05	[B] < 0.05		[B] < 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	[B] < 0.10	[B] < 0.10		[B] < 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	[B] < 0.05	[B] < 0.05		[B] < 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	[B] < 0.25	[B] < 0.25		[B] < 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	[B] 2.4	[B] 2.9		[B] < 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	[B] < 1.0	[B] < 1.0		[B] < 1.0
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	[B] < 2.0	[B] < 2.0		[B] < 2.0
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	[B] 27	[B] 26		[B] 25
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	[B] < 10	[B] < 10		[B] < 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	[B] 32	[B] 31		[B] 28
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	[B] 32	[B] 31		[B] 28
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	[B] < 0.05	[B] < 0.05		[B] < 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	[B] < 0.05	[B] < 0.05		[B] < 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	[B] < 0.05	[B] < 0.05		[B] < 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	[B] < 0.25	[B] < 0.25		[B] < 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	[B] < 1.0	[B] 1.1		[B] 1.1
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	[B] < 1.0	[B] < 1.0		[B] < 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	[B] 3.6	[B] 3.8		[B] 2.2
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	[B] 11	[B] 15		[B] 12
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	[B] 26	[B] 26		[B] 23
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	[B] 15	[B] 20		[B] 15
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	[B] 41	[B] 46		[B] 38
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	[B] < 0.50	[B] < 0.50		[B] < 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	[B] 47	[B] 51		[B] 43
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	[B] 73	[B] 77		[B] 67
Mineral Oil EPH		N	2670	mg/kg	10	32	31		28
Benzene		M	2760	µg/kg	1.0	[B] < 1.0	[B] < 1.0		[B] < 1.0
Toluene		M	2760	µg/kg	1.0	[B] < 1.0	[B] < 1.0		[B] < 1.0
Ethylbenzene		M	2760	µg/kg	1.0	[B] < 1.0	[B] < 1.0		[B] < 1.0
m & p-Xylene		M	2760	µg/kg	1.0	[B] < 1.0	[B] < 1.0		[B] < 1.0
o-Xylene		M	2760	µg/kg	1.0	[B] < 1.0	[B] < 1.0		[B] < 1.0
Methyl Tert-Butyl Ether		M	2760	µg/kg	1.0	[B] < 1.0	[B] < 1.0		[B] < 1.0
Naphthalene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10

Results - Soil

Project: 25758 Mount Avenue Dundalk

Client: IGSL		Chemtest Job No.:		25-03228	25-03228	25-03228	25-03228	25-03228	25-03228	25-03228
Quotation No.: Q24-34387		Chemtest Sample ID.:		1925220	1925221	1925222	1925223	1925224	1925225	1925226
Order No.:		Client Sample Ref.:		TP30	TP34	TP35	TP38	TP40	TP40	TP42
		Sample Location:								
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):		1.20	0.50	1.20	0.50	0.50	1.50	1.00
		Date Sampled:		26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024
		Asbestos Lab:		DURHAM	DURHAM		DURHAM	IN-TRAN-D	DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD					
Phenanthrene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10
Anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10
Pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10
Benzo[a]anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10
Chrysene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10
Coronene		N	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0	< 2.0	< 2.0			< 2.0
Total Of 17 PAH's		N	2800	mg/kg	2.0		< 2.0			< 2.0
PCB 28		U	2815	mg/kg	0.010	[B] < 0.010	[B] < 0.010		[B] < 0.010	[B] < 0.010
PCB 52		U	2815	mg/kg	0.010	[B] < 0.010	[B] < 0.010		[B] < 0.010	[B] < 0.010
PCB 101		U	2815	mg/kg	0.010	[B] < 0.010	[B] < 0.010		[B] < 0.010	[B] < 0.010
PCB 118		U	2815	mg/kg	0.010	[B] < 0.010	[B] < 0.010		[B] < 0.010	[B] < 0.010
PCB 153		U	2815	mg/kg	0.010	[B] < 0.010	[B] < 0.010		[B] < 0.010	[B] < 0.010
PCB 138		U	2815	mg/kg	0.010	[B] < 0.010	[B] < 0.010		[B] < 0.010	[B] < 0.010
PCB 180		U	2815	mg/kg	0.010	[B] < 0.010	[B] < 0.010		[B] < 0.010	[B] < 0.010
Tot PCBs Low (7 Congeners)		N	2815	mg/kg	0.05	[B] < 0.05	[B] < 0.05		[B] < 0.05	[B] < 0.05
Total Phenols		M	2920	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10

Results - Soil

Project: 25758 Mount Avenue Dundalk

Client: IGSL		Chemtest Job No.:		25-03228	25-03228	25-03228	25-03228	25-03228	25-03228	25-03228	25-03228
Quotation No.: Q24-34387		Chemtest Sample ID.:		1925227	1925228	1925229	1925230	1925231	1925232	1925233	
Order No.:		Client Sample Ref.:		TP44	TP45	TP48	TP50	TP52	TP54	TP55	
		Sample Location:									
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
		Top Depth (m):		0.50	0.90	1.90	0.50	1.70	1.00	1.90	
		Date Sampled:		26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	
		Asbestos Lab:		DURHAM	IN-TRAN-D	DURHAM	DURHAM	DURHAM	DURHAM	IN-TRAN-D	
Determinand	HWOL Code	Accred.	SOP	Units	LOD						
ACM Type		U	2192		N/A	-		-	-	-	
Asbestos Identification		U	2192		N/A	No Asbestos Detected		No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	
Moisture		N	2030	%	0.020	15	13	12	14	8.6	12
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones	Stones	Stones	Stones	Stones
Soil Texture		N	2040		N/A	Clay	Clay	Sand	Clay	Clay	Clay
pH at 20C		M	2010		4.0	[B] 7.6			[B] 7.5	[B] 8.0	[B] 8.0
pH (2.5:1) at 20C		N	2010		4.0		[B] 8.1				[B] 7.6
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	[B] < 0.40		[B] < 0.40	[B] < 0.40	[B] < 0.40	[B] < 0.40
Magnesium (Water Soluble)		N	2120	g/l	0.010		[B] < 0.010				[B] < 0.010
Sulphate (2:1 Water Soluble) as SO4		M	2120	g/l	0.010		[B] < 0.010				[B] < 0.010
Total Sulphur		U	2175	%	0.010		[B] 0.010				[B] 0.010
Sulphur (Elemental)		M	2180	mg/kg	1.0	[B] < 1.0		[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Chloride (Water Soluble)		M	2220	g/l	0.010		[B] < 0.010				[B] < 0.010
Nitrate (Water Soluble)		N	2220	g/l	0.010		< 0.010				< 0.010
Cyanide (Complex)		M	2300	mg/kg	0.50	[B] < 0.50			[B] < 0.50	[B] < 0.50	[B] < 0.50
Cyanide (Free)		M	2300	mg/kg	0.50	[B] < 0.50			[B] < 0.50	[B] < 0.50	[B] < 0.50
Cyanide (Total)		M	2300	mg/kg	0.50	[B] < 0.50		[B] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50
Sulphide (Easily Liberatable)		N	2325	mg/kg	0.50	[B] 2.1		[B] 5.8	[B] 1.5	[B] 2.8	[B] 1.7
Ammonium (Water Soluble)		M	2220	g/l	0.01		< 0.01				< 0.01
Sulphate (Total)		U	2430	%	0.010	[B] 0.025		[B] 0.032	[B] 0.043	[B] 0.030	[B] 0.019
Sulphate (Acid Soluble)		U	2430	%	0.010		[B] < 0.010				[B] 0.011
Arsenic		M	2455	mg/kg	0.5	8.8		11	13	16	8.7
Barium		M	2455	mg/kg	0.5	96		170	83	97	83
Cadmium		M	2455	mg/kg	0.10	< 0.10		0.19	0.23	0.32	0.29
Chromium		M	2455	mg/kg	0.5	58		65	55	65	55
Molybdenum		M	2455	mg/kg	0.5	< 0.5		< 0.5	< 0.5	< 0.5	< 0.5
Antimony		N	2455	mg/kg	2.0	< 2.0		< 2.0	< 2.0	< 2.0	< 2.0
Copper		M	2455	mg/kg	0.50	33		19	53	57	38
Mercury		M	2455	mg/kg	0.05	< 0.05		0.07	< 0.05	< 0.05	< 0.05
Nickel		M	2455	mg/kg	0.50	57		59	68	77	68
Lead		M	2455	mg/kg	0.50	19		23	19	28	27
Selenium		M	2455	mg/kg	0.25	0.46		0.63	0.47	0.68	0.36
Zinc		M	2455	mg/kg	0.50	75		70	93	100	110
Chromium (Trivalent)		N	2490	mg/kg	1.0	58		65	55	65	55
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50

Results - Soil

Project: 25758 Mount Avenue Dundalk

Client: IGSL		Chemtest Job No.:	25-03228	25-03228	25-03228	25-03228	25-03228	25-03228	25-03228
Quotation No.: Q24-34387		Chemtest Sample ID.:	1925227	1925228	1925229	1925230	1925231	1925232	1925233
Order No.:		Client Sample Ref.:	TP44	TP45	TP48	TP50	TP52	TP54	TP55
		Sample Location:							
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0.50	0.90	1.90	0.50	1.70	1.00	1.90
		Date Sampled:	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024
		Asbestos Lab:	DURHAM	IN-TRAN-D	DURHAM	DURHAM	DURHAM	DURHAM	IN-TRAN-D
Determinand	HWOL Code	Accred.	SOP	Units	LOD				
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	[B] < 0.05		[B] < 0.05	[B] < 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	[B] < 0.05		[B] < 0.05	[B] < 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	[B] < 0.05		[B] < 0.05	[B] < 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	[B] < 0.10		[B] < 0.10	[B] < 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	[B] < 0.05		[B] < 0.05	[B] < 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	[B] < 0.25		[B] < 0.25	[B] < 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	[B] 2.4		[B] < 2.0	[B] 2.3
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	[B] < 1.0		[B] < 1.0	[B] < 1.0
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	[B] < 2.0		[B] < 2.0	[B] < 2.0
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	[B] 27		[B] 30	[B] 29
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	[B] < 10		[B] 10	[B] 11
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	[B] 30		[B] 32	[B] 33
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	[B] 30		[B] 43	[B] 43
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	[B] < 0.05		[B] < 0.05	[B] < 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	[B] < 0.05		[B] < 0.05	[B] < 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	[B] < 0.05		[B] < 0.05	[B] < 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	[B] < 0.25		[B] < 0.25	[B] < 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	[B] < 1.0		[B] 1.2	[B] 2.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	[B] < 1.0		[B] < 1.0	[B] < 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	[B] 2.8		[B] < 2.0	[B] < 2.0
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	[B] 12		[B] 10	[B] 13
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	[B] 25		[B] 25	[B] 32
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	[B] 15		[B] 13	[B] 17
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	[B] 41		[B] 38	[B] 49
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	[B] < 0.50		[B] < 0.50	[B] < 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	[B] 46		[B] 45	[B] 50
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	[B] 71		[B] 81	[B] 92
Mineral Oil EPH		N	2670	mg/kg	10	30		43	43
Benzene		M	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	[B] < 1.0
Toluene		M	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	[B] < 1.0
Ethylbenzene		M	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	[B] < 1.0
m & p-Xylene		M	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	[B] < 1.0
o-Xylene		M	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	[B] < 1.0
Methyl Tert-Butyl Ether		M	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	[B] < 1.0
Naphthalene		M	2800	mg/kg	0.10	< 0.10		< 0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10		< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10		< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10		< 0.10	< 0.10

Results - Soil

Project: 25758 Mount Avenue Dundalk

Client: IGSL		Chemtest Job No.:		25-03228	25-03228	25-03228	25-03228	25-03228	25-03228	25-03228
Quotation No.: Q24-34387		Chemtest Sample ID.:		1925227	1925228	1925229	1925230	1925231	1925232	1925233
Order No.:		Client Sample Ref.:		TP44	TP45	TP48	TP50	TP52	TP54	TP55
		Sample Location:								
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):		0.50	0.90	1.90	0.50	1.70	1.00	1.90
		Date Sampled:		26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024
		Asbestos Lab:		DURHAM	IN-TRAN-D	DURHAM	DURHAM	DURHAM	DURHAM	IN-TRAN-D
Determinand	HWOL Code	Accred.	SOP	Units	LOD					
Phenanthrene		M	2800	mg/kg	0.10	< 0.10		< 0.10	< 0.10	< 0.10
Anthracene		M	2800	mg/kg	0.10	< 0.10		< 0.10	< 0.10	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	< 0.10		< 0.10	< 0.10	< 0.10
Pyrene		M	2800	mg/kg	0.10	< 0.10		< 0.10	< 0.10	< 0.10
Benzo[a]anthracene		M	2800	mg/kg	0.10	< 0.10		< 0.10	< 0.10	< 0.10
Chrysene		M	2800	mg/kg	0.10	< 0.10		< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10		< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10		< 0.10	< 0.10	< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10	< 0.10		< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10		< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10		< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10		< 0.10	< 0.10	< 0.10
Coronene		N	2800	mg/kg	0.10	< 0.10		< 0.10	< 0.10	< 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0	< 2.0		< 2.0	< 2.0	< 2.0
Total Of 17 PAH's		N	2800	mg/kg	2.0	< 2.0		< 2.0	< 2.0	< 2.0
PCB 28		U	2815	mg/kg	0.010	[B] < 0.010		[B] < 0.010	[B] < 0.010	[B] < 0.010
PCB 52		U	2815	mg/kg	0.010	[B] < 0.010		[B] < 0.010	[B] < 0.010	[B] < 0.010
PCB 101		U	2815	mg/kg	0.010	[B] < 0.010		[B] < 0.010	[B] < 0.010	[B] < 0.010
PCB 118		U	2815	mg/kg	0.010	[B] < 0.010		[B] < 0.010	[B] < 0.010	[B] < 0.010
PCB 153		U	2815	mg/kg	0.010	[B] < 0.010		[B] < 0.010	[B] < 0.010	[B] < 0.010
PCB 138		U	2815	mg/kg	0.010	[B] < 0.010		[B] < 0.010	[B] < 0.010	[B] < 0.010
PCB 180		U	2815	mg/kg	0.010	[B] < 0.010		[B] < 0.010	[B] < 0.010	[B] < 0.010
Tot PCBs Low (7 Congeners)		N	2815	mg/kg	0.05	[B] < 0.05		[B] < 0.05	[B] < 0.05	[B] < 0.05
Total Phenols		M	2920	mg/kg	0.10	< 0.10		< 0.10	< 0.10	< 0.10

Results - Soil

Project: 25758 Mount Avenue Dundalk

Client: IGSL		Chemtest Job No.:		25-03228	25-03228	25-03228	25-03228	25-03228	25-03228	25-03228	25-03228
Quotation No.: Q24-34387		Chemtest Sample ID.:		1925234	1925235	1925236	1925237	1925238	1925239	1925240	
Order No.:		Client Sample Ref.:		TP58	TP60	TP60	TP62	TP64	TP65	TP66	
		Sample Location:									
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
		Top Depth (m):		1.50	0.50	2.00	0.50	1.00	1.50	0.50	
		Date Sampled:		26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	
		Asbestos Lab:		DURHAM	IN-TRAN-D	DURHAM	DURHAM	DURHAM		DURHAM	
Determinand	HWOL Code	Accred.	SOP	Units	LOD						
ACM Type		U	2192		N/A	-		-	-	-	-
Asbestos Identification		U	2192		N/A	No Asbestos Detected		No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture		N	2030	%	0.020	11	15	7.2	10	11	18
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones	Stones	Stones	Stones	Stones
Soil Texture		N	2040		N/A	Sand	Loam	Sand	Loam	Clay	Clay
pH at 20C		M	2010		4.0						
pH (2.5:1) at 20C		N	2010		4.0		[B] 7.1			[B] 7.5	
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	[B] < 0.40		[B] < 0.40	[B] 0.42	[B] < 0.40	[B] 0.60
Magnesium (Water Soluble)		N	2120	g/l	0.010		[B] < 0.010			[B] < 0.010	
Sulphate (2:1 Water Soluble) as SO4		M	2120	g/l	0.010		[B] 0.016			[B] 0.023	
Total Sulphur		U	2175	%	0.010		[B] 0.030			[B] < 0.010	
Sulphur (Elemental)		M	2180	mg/kg	1.0	[B] < 1.0		[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Chloride (Water Soluble)		M	2220	g/l	0.010		[B] < 0.010			[B] < 0.010	
Nitrate (Water Soluble)		N	2220	g/l	0.010		0.018			< 0.010	
Cyanide (Complex)		M	2300	mg/kg	0.50						
Cyanide (Free)		M	2300	mg/kg	0.50						
Cyanide (Total)		M	2300	mg/kg	0.50	[B] < 0.50		[B] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50
Sulphide (Easily Liberatable)		N	2325	mg/kg	0.50	[B] 3.8		[B] 3.0	[B] 11	[B] 3.0	[B] 3.6
Ammonium (Water Soluble)		M	2220	g/l	0.01		< 0.01			< 0.01	
Sulphate (Total)		U	2430	%	0.010	[B] 0.016		[B] 0.014	[B] 0.017	[B] < 0.010	[B] 0.043
Sulphate (Acid Soluble)		U	2430	%	0.010		[B] 0.010			[B] 0.011	
Arsenic		M	2455	mg/kg	0.5	7.6		11	6.0	9.3	6.7
Barium		M	2455	mg/kg	0.5	50		44	47	57	76
Cadmium		M	2455	mg/kg	0.10	< 0.10		0.32	< 0.10	0.22	0.14
Chromium		M	2455	mg/kg	0.5	29		48	25	39	40
Molybdenum		M	2455	mg/kg	0.5	< 0.5		< 0.5	< 0.5	< 0.5	0.8
Antimony		N	2455	mg/kg	2.0	< 2.0		< 2.0	< 2.0	< 2.0	< 2.0
Copper		M	2455	mg/kg	0.50	18		35	18	25	15
Mercury		M	2455	mg/kg	0.05	< 0.05		< 0.05	< 0.05	< 0.05	< 0.05
Nickel		M	2455	mg/kg	0.50	29		59	37	45	33
Lead		M	2455	mg/kg	0.50	15		15	9.6	17	18
Selenium		M	2455	mg/kg	0.25	0.35		1.0	< 0.25	0.45	0.40
Zinc		M	2455	mg/kg	0.50	50		76	40	71	86
Chromium (Trivalent)		N	2490	mg/kg	1.0	29		48	25	39	40
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50

Results - Soil

Project: 25758 Mount Avenue Dundalk

Client: IGSL		Chemtest Job No.:	25-03228	25-03228	25-03228	25-03228	25-03228	25-03228	25-03228
Quotation No.: Q24-34387		Chemtest Sample ID.:	1925234	1925235	1925236	1925237	1925238	1925239	1925240
Order No.:		Client Sample Ref.:	TP58	TP60	TP60	TP62	TP64	TP65	TP66
		Sample Location:							
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	1.50	0.50	2.00	0.50	1.00	1.50	0.50
		Date Sampled:	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024
		Asbestos Lab:	DURHAM	IN-TRAN-D	DURHAM	DURHAM	DURHAM		DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD				
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	[B] < 0.05		[B] < 0.05	[B] < 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	[B] < 0.05		[B] < 0.05	[B] < 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	[B] < 0.05		[B] < 0.05	[B] < 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	[B] < 0.10		[B] < 0.10	[B] < 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	[B] < 0.05		[B] < 0.05	[B] < 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	[B] < 0.25		[B] < 0.25	[B] < 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	[B] < 2.0		[B] 25	[B] 2.2
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	[B] < 1.0		[B] 63	[B] 2.1
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	[B] < 2.0		[B] 67	[B] 4.1
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	[B] 25		[B] 190	[B] 26
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	[B] < 10		[B] 80	[B] < 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	[B] 28		[B] 340	[B] 34
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	[B] 28		[B] 420	[B] 34
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	[B] < 0.05		[B] < 0.05	[B] < 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	[B] < 0.05		[B] < 0.05	[B] < 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	[B] < 0.05		[B] < 0.05	[B] < 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	[B] < 0.25		[B] < 0.25	[B] < 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	[B] 1.4		[B] 12	[B] 1.3
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	[B] < 1.0		[B] 31	[B] < 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	[B] < 2.0		[B] 20	[B] 2.9
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	[B] 9.9		[B] 9.4	[B] 16
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	[B] 23		[B] 21	[B] 26
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	[B] 13		[B] 72	[B] 20
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	[B] 36		[B] 93	[B] 47
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	[B] < 0.50		[B] < 0.50	[B] < 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	[B] 40		[B] 420	[B] 55
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	[B] 64		[B] 520	[B] 81
Mineral Oil EPH		N	2670	mg/kg	10	28		420	34
Benzene		M	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	[B] < 1.0
Toluene		M	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	[B] < 1.0
Ethylbenzene		M	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	[B] < 1.0
m & p-Xylene		M	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	[B] < 1.0
o-Xylene		M	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	[B] < 1.0
Methyl Tert-Butyl Ether		M	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	[B] < 1.0
Naphthalene		M	2800	mg/kg	0.10	< 0.10		< 0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10		< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10		< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10		< 0.10	< 0.10

Results - Soil

Project: 25758 Mount Avenue Dundalk

Client: IGSL		Chemtest Job No.:						25-03228	25-03228	25-03228	25-03228	25-03228	25-03228	25-03228
Quotation No.: Q24-34387		Chemtest Sample ID.:						1925234	1925235	1925236	1925237	1925238	1925239	1925240
Order No.:		Client Sample Ref.:						TP58	TP60	TP60	TP62	TP64	TP65	TP66
		Sample Location:												
		Sample Type:						SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):						1.50	0.50	2.00	0.50	1.00	1.50	0.50
		Date Sampled:						26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024
		Asbestos Lab:						DURHAM	IN-TRAN-D	DURHAM	DURHAM	DURHAM		DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD									
Phenanthrene		M	2800	mg/kg	0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10			< 0.10
Anthracene		M	2800	mg/kg	0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10			< 0.10
Fluoranthene		M	2800	mg/kg	0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10			< 0.10
Pyrene		M	2800	mg/kg	0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10			< 0.10
Benzo[a]anthracene		M	2800	mg/kg	0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10			< 0.10
Chrysene		M	2800	mg/kg	0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10			< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10			< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10			< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10			< 0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10			< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10			< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10			< 0.10
Coronene		N	2800	mg/kg	0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10			< 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0									
Total Of 17 PAH's		N	2800	mg/kg	2.0									
PCB 28		U	2815	mg/kg	0.010	[B] < 0.010		[B] < 0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010			[B] < 0.010
PCB 52		U	2815	mg/kg	0.010	[B] < 0.010		[B] < 0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010			[B] < 0.010
PCB 101		U	2815	mg/kg	0.010	[B] < 0.010		[B] < 0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010			[B] < 0.010
PCB 118		U	2815	mg/kg	0.010	[B] < 0.010		[B] < 0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010			[B] < 0.010
PCB 153		U	2815	mg/kg	0.010	[B] < 0.010		[B] < 0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010			[B] < 0.010
PCB 138		U	2815	mg/kg	0.010	[B] < 0.010		[B] < 0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010			[B] < 0.010
PCB 180		U	2815	mg/kg	0.010	[B] < 0.010		[B] < 0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010			[B] < 0.010
Tot PCBs Low (7 Congeners)		N	2815	mg/kg	0.05	[B] < 0.05		[B] < 0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05			[B] < 0.05
Total Phenols		M	2920	mg/kg	0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10			< 0.10

Results - Soil

Project: 25758 Mount Avenue Dundalk

Client: IGSL		Chemtest Job No.:		25-03228	25-03228	25-03228	25-03228	25-03228	25-03228	25-03228	25-03228	25-03228
Quotation No.: Q24-34387		Chemtest Sample ID.:		1925241	1925242	1925243	1925244	1925245	1925246	1925247		
Order No.:		Client Sample Ref.:		TP68	TP70	TP72	TP74	TP75	TP76	TP78		
		Sample Location:										
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
		Top Depth (m):		1.80	1.50	0.50	1.20	1.80	0.50	1.50		
		Date Sampled:		26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024		
		Asbestos Lab:		DURHAM	DURHAM	DURHAM	DURHAM		DURHAM	DURHAM		
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
ACM Type		U	2192		N/A	-	-	-	-		-	-
Asbestos Identification		U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected		No Asbestos Detected	No Asbestos Detected
Moisture		N	2030	%	0.020	11	8.7	16	15	17	9.1	12
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones	Stones and Roots	Stones	Stones	Stones and Roots	Stones
Soil Texture		N	2040		N/A	Clay	Clay	Clay	Clay	Clay	Loam	Clay
pH at 20C		M	2010		4.0							
pH (2.5:1) at 20C		N	2010		4.0		[B] 8.6			[B] 7.2		
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	[B] < 0.40	[B] < 0.40	[B] 0.48	[B] 0.45		[B] 0.45	[B] 0.56
Magnesium (Water Soluble)		N	2120	g/l	0.010		[B] < 0.010			[B] < 0.010		
Sulphate (2:1 Water Soluble) as SO4		M	2120	g/l	0.010		[B] 0.015			[B] 0.022		
Total Sulphur		U	2175	%	0.010		[B] 0.030			[B] < 0.010		
Sulphur (Elemental)		M	2180	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0		[B] 6.8	[B] 1.6
Chloride (Water Soluble)		M	2220	g/l	0.010		[B] < 0.010			[B] < 0.010		
Nitrate (Water Soluble)		N	2220	g/l	0.010		< 0.010			< 0.010		
Cyanide (Complex)		M	2300	mg/kg	0.50							
Cyanide (Free)		M	2300	mg/kg	0.50							
Cyanide (Total)		M	2300	mg/kg	0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50		[B] < 0.50	[B] < 0.50
Sulphide (Easily Liberatable)		N	2325	mg/kg	0.50	[B] 3.7	[B] 4.1	[B] 2.0	[B] 2.1		[B] 2.5	[B] 2.8
Ammonium (Water Soluble)		M	2220	g/l	0.01		< 0.01			< 0.01		
Sulphate (Total)		U	2430	%	0.010	[B] 0.026	[B] 0.027	[B] 0.037	[B] 0.012		[B] 0.021	[B] 0.018
Sulphate (Acid Soluble)		U	2430	%	0.010		[B] 0.010			[B] 0.016		
Arsenic		M	2455	mg/kg	0.5	21	25	14	12		10	5.0
Barium		M	2455	mg/kg	0.5	80	61	61	140		77	47
Cadmium		M	2455	mg/kg	0.10	0.47	0.45	0.34	0.20		0.17	0.11
Chromium		M	2455	mg/kg	0.5	49	55	44	38		35	49
Molybdenum		M	2455	mg/kg	0.5	< 0.5	0.5	0.9	< 0.5		< 0.5	< 0.5
Antimony		N	2455	mg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0		< 2.0	< 2.0
Copper		M	2455	mg/kg	0.50	48	39	31	43		38	23
Mercury		M	2455	mg/kg	0.05	< 0.05	< 0.05	0.06	< 0.05		< 0.05	0.05
Nickel		M	2455	mg/kg	0.50	61	66	50	55		44	53
Lead		M	2455	mg/kg	0.50	28	24	24	15		16	14
Selenium		M	2455	mg/kg	0.25	0.61	0.58	0.96	0.76		0.73	0.46
Zinc		M	2455	mg/kg	0.50	120	100	93	63		62	72
Chromium (Trivalent)		N	2490	mg/kg	1.0	49	55	44	38		35	49
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50

Results - Soil

Project: 25758 Mount Avenue Dundalk

Client: IGSL		Chemtest Job No.:	25-03228	25-03228	25-03228	25-03228	25-03228	25-03228	25-03228
Quotation No.: Q24-34387		Chemtest Sample ID.:	1925241	1925242	1925243	1925244	1925245	1925246	1925247
Order No.:		Client Sample Ref.:	TP68	TP70	TP72	TP74	TP75	TP76	TP78
		Sample Location:							
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	1.80	1.50	0.50	1.20	1.80	0.50	1.50
		Date Sampled:	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024
		Asbestos Lab:	DURHAM	DURHAM	DURHAM	DURHAM		DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD				
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	[B] < 0.10	[B] < 0.10	[B] < 0.10	[B] < 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	[B] < 0.25	[B] < 0.25	[B] < 0.25	[B] < 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	[B] 3.3	[B] < 2.0	[B] 2.3	[B] 3.7
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	[B] 1.4	[B] < 1.0	[B] 2.4	[B] 2.5
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	[B] 2.2	[B] < 2.0	[B] 2.4	[B] < 2.0
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	[B] 24	[B] 23	[B] 26	[B] < 3.0
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	[B] < 10	[B] < 10	[B] < 10	[B] < 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	[B] 31	[B] 27	[B] 33	[B] 6.2
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	[B] 31	[B] 27	[B] 33	[B] < 10
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	[B] < 0.25	[B] < 0.25	[B] < 0.25	[B] < 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	[B] 1.4	[B] 1.2	[B] 1.5	[B] < 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	[B] 2.4	[B] < 2.0	[B] 2.4	[B] < 2.0
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	[B] 11	[B] 10	[B] 13	[B] < 2.0
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	[B] 24	[B] 24	[B] 23	[B] < 1.0
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	[B] 15	[B] 12	[B] 17	[B] < 5.0
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	[B] 39	[B] 36	[B] 41	[B] < 10
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	[B] 46	[B] 40	[B] 50	[B] < 10
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	[B] 71	[B] 63	[B] 74	[B] < 10
Mineral Oil EPH		N	2670	mg/kg	10	31	27	33	< 10
Benzene		M	2760	µg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Toluene		M	2760	µg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Ethylbenzene		M	2760	µg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
m & p-Xylene		M	2760	µg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
o-Xylene		M	2760	µg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Methyl Tert-Butyl Ether		M	2760	µg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Naphthalene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Soil

Project: 25758 Mount Avenue Dundalk

Client: IGSL		Chemtest Job No.:		25-03228	25-03228	25-03228	25-03228	25-03228	25-03228	25-03228	25-03228
Quotation No.: Q24-34387		Chemtest Sample ID.:		1925241	1925242	1925243	1925244	1925245	1925246	1925247	
Order No.:		Client Sample Ref.:		TP68	TP70	TP72	TP74	TP75	TP76	TP78	
		Sample Location:									
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
		Top Depth (m):		1.80	1.50	0.50	1.20	1.80	0.50	1.50	
		Date Sampled:		26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	
		Asbestos Lab:		DURHAM	DURHAM	DURHAM	DURHAM		DURHAM	DURHAM	
Determinand	HWOL Code	Accred.	SOP	Units	LOD						
Phenanthrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Coronene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0						
Total Of 17 PAH's		N	2800	mg/kg	2.0						
PCB 28		U	2815	mg/kg	0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010
PCB 52		U	2815	mg/kg	0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010
PCB 101		U	2815	mg/kg	0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010
PCB 118		U	2815	mg/kg	0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010
PCB 153		U	2815	mg/kg	0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010
PCB 138		U	2815	mg/kg	0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010
PCB 180		U	2815	mg/kg	0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010
Tot PCBs Low (7 Congeners)		N	2815	mg/kg	0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05
Total Phenols		M	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Soil

Project: 25758 Mount Avenue Dundalk

Client: IGSL		Chemtest Job No.:		25-03228	25-03228	25-03228	25-03228
Quotation No.: Q24-34387		Chemtest Sample ID.:		1925248	1925249	1925250	1925338
Order No.:		Client Sample Ref.:		TP80	TP82	TP86	
		Sample Location:					TP8
		Sample Type:		SOIL	SOIL	SOIL	SOIL
		Top Depth (m):		1.60	1.70	1.40	
		Date Sampled:		26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024
		Asbestos Lab:			DURHAM	DURHAM	NEW-ASB
Determinand	HWOL Code	Accred.	SOP	Units	LOD		
ACM Type		U	2192		N/A		-
Asbestos Identification		U	2192		N/A	No Asbestos Detected	No Asbestos Detected
Moisture		N	2030	%	0.020	15	8.8
Soil Colour		N	2040		N/A	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones
Soil Texture		N	2040		N/A	Clay	Loam
pH at 20C		M	2010		4.0		
pH (2.5:1) at 20C		N	2010		4.0	[B] 7.5	[B] 8.5
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	[B] < 0.40	[B] 0.66
Magnesium (Water Soluble)		N	2120	g/l	0.010	[B] < 0.010	[B] < 0.010
Sulphate (2:1 Water Soluble) as SO4		M	2120	g/l	0.010	[B] 0.019	[B] 0.021
Total Sulphur		U	2175	%	0.010	[B] < 0.010	[B] 0.39
Sulphur (Elemental)		M	2180	mg/kg	1.0	[B] < 1.0	[B] < 1.0
Chloride (Water Soluble)		M	2220	g/l	0.010	[B] < 0.010	[B] < 0.010
Nitrate (Water Soluble)		N	2220	g/l	0.010	< 0.010	0.037
Cyanide (Complex)		M	2300	mg/kg	0.50		
Cyanide (Free)		M	2300	mg/kg	0.50		
Cyanide (Total)		M	2300	mg/kg	0.50	[B] < 0.50	[B] < 0.50
Sulphide (Easily Liberatable)		N	2325	mg/kg	0.50	[B] 1.7	[B] 2.7
Ammonium (Water Soluble)		M	2220	g/l	0.01	< 0.01	< 0.01
Sulphate (Total)		U	2430	%	0.010	[B] < 0.010	[B] 0.031
Sulphate (Acid Soluble)		U	2430	%	0.010	[B] < 0.010	[B] 0.037
Arsenic		M	2455	mg/kg	0.5	9.9	5.8
Barium		M	2455	mg/kg	0.5	84	63
Cadmium		M	2455	mg/kg	0.10	0.17	< 0.10
Chromium		M	2455	mg/kg	0.5	32	37
Molybdenum		M	2455	mg/kg	0.5	< 0.5	< 0.5
Antimony		N	2455	mg/kg	2.0	< 2.0	< 2.0
Copper		M	2455	mg/kg	0.50	31	17
Mercury		M	2455	mg/kg	0.05	< 0.05	< 0.05
Nickel		M	2455	mg/kg	0.50	43	44
Lead		M	2455	mg/kg	0.50	16	14
Selenium		M	2455	mg/kg	0.25	0.52	0.43
Zinc		M	2455	mg/kg	0.50	61	73
Chromium (Trivalent)		N	2490	mg/kg	1.0	32	37
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50

Results - Soil

Project: 25758 Mount Avenue Dundalk

Client: IGSL		Chemtest Job No.:				25-03228	25-03228	25-03228	25-03228
Quotation No.: Q24-34387		Chemtest Sample ID.:				1925248	1925249	1925250	1925338
Order No.:		Client Sample Ref.:				TP80	TP82	TP86	
		Sample Location:							TP8
		Sample Type:				SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				1.60	1.70	1.40	
		Date Sampled:				26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024
		Asbestos Lab:					DURHAM	DURHAM	NEW-ASB
Determinand	HWOL Code	Accred.	SOP	Units	LOD				
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05		[B] < 0.05	[B] < 0.05	[BC] < 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05		[B] < 0.05	[B] < 0.05	[BC] < 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05		[B] < 0.05	[B] < 0.05	[BC] < 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10		[B] < 0.10	[B] < 0.10	[BC] < 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05		[B] < 0.05	[B] < 0.05	[BC] < 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25		[B] < 0.25	[B] < 0.25	[BC] < 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL #1	M	2690	mg/kg	2.00		[B] < 2.0	[B] < 2.0	[BC] < 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL #1	M	2690	mg/kg	1.00		[B] < 1.0	[B] < 1.0	[BC] < 1.0
Aliphatic EPH >C16-C21 MC	EH_2D_AL #1	M	2690	mg/kg	2.00		[B] < 2.0	[B] < 2.0	[BC] < 2.0
Aliphatic EPH >C21-C35 MC	EH_2D_AL #1	M	2690	mg/kg	3.00		[B] < 3.0	[B] < 3.0	[BC] < 3.0
Aliphatic EPH >C35-C40 MC	EH_2D_AL #1	N	2690	mg/kg	10.00		[B] < 10	[B] < 10	[BC] < 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL #1	M	2690	mg/kg	5.00		[B] < 5.0	[B] < 5.0	[BC] < 5.0
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL #1	N	2690	mg/kg	10.00		[B] < 10	[B] < 10	[BC] < 10
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05		[B] < 0.05	[B] < 0.05	[BC] < 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05		[B] < 0.05	[B] < 0.05	[BC] < 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05		[B] < 0.05	[B] < 0.05	[BC] < 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25		[B] < 0.25	[B] < 0.25	[BC] < 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR #1	U	2690	mg/kg	1.00		[B] < 1.0	[B] < 1.0	[BC] < 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR #1	U	2690	mg/kg	1.00		[B] < 1.0	[B] < 1.0	[BC] < 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR #1	U	2690	mg/kg	2.00		[B] < 2.0	[B] < 2.0	[BC] < 2.0
Aromatic EPH >C21-C35 MC	EH_2D_AR #1	U	2690	mg/kg	2.00		[B] < 2.0	[B] 3.6	[BC] < 2.0
Aromatic EPH >C35-C40 MC	EH_2D_AR #1	N	2690	mg/kg	1.00		[B] < 1.0	[B] < 1.0	[BC] 1.2
Total Aromatic EPH >C10-C35 MC	EH_2D_AR #1	U	2690	mg/kg	5.00		[B] < 5.0	[B] < 5.0	[BC] < 5.0
Total Aromatic EPH >C10-C40 MC	EH_2D_AR #1	N	2690	mg/kg	10.00		[B] < 10	[B] < 10	[BC] < 10
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50		[B] < 0.50	[B] < 0.50	[BC] < 0.50
Total EPH >C10-C35 MC	EH_2D_Total #1	U	2690	mg/kg	10.00		[B] < 10	[B] < 10	[BC] < 10
Total EPH >C10-C40 MC	EH_2D_Total #1	N	2690	mg/kg	10.00		[B] < 10	[B] < 10	[BC] < 10
Mineral Oil EPH		N	2670	mg/kg	10		< 10	< 10	< 10
Benzene		M	2760	µg/kg	1.0		[B] < 1.0	[B] < 1.0	
Toluene		M	2760	µg/kg	1.0		[B] < 1.0	[B] < 1.0	
Ethylbenzene		M	2760	µg/kg	1.0		[B] < 1.0	[B] < 1.0	
m & p-Xylene		M	2760	µg/kg	1.0		[B] < 1.0	[B] < 1.0	
o-Xylene		M	2760	µg/kg	1.0		[B] < 1.0	[B] < 1.0	
Methyl Tert-Butyl Ether		M	2760	µg/kg	1.0		[B] < 1.0	[B] < 1.0	[BC] < 1.0
Naphthalene		M	2800	mg/kg	0.10		< 0.10	< 0.10	
Acenaphthylene		N	2800	mg/kg	0.10		< 0.10	< 0.10	
Acenaphthene		M	2800	mg/kg	0.10		< 0.10	< 0.10	
Fluorene		M	2800	mg/kg	0.10		< 0.10	< 0.10	

Results - Soil

Project: 25758 Mount Avenue Dundalk

Client: IGSL		Chemtest Job No.:		25-03228	25-03228	25-03228	25-03228
Quotation No.: Q24-34387		Chemtest Sample ID.:		1925248	1925249	1925250	1925338
Order No.:		Client Sample Ref.:		TP80	TP82	TP86	
		Sample Location:					TP8
		Sample Type:		SOIL	SOIL	SOIL	SOIL
		Top Depth (m):		1.60	1.70	1.40	
		Date Sampled:		26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024
		Asbestos Lab:			DURHAM	DURHAM	NEW-ASB
Determinand	HWOL Code	Accred.	SOP	Units	LOD		
Phenanthrene		M	2800	mg/kg	0.10		< 0.10
Anthracene		M	2800	mg/kg	0.10		< 0.10
Fluoranthene		M	2800	mg/kg	0.10		< 0.10
Pyrene		M	2800	mg/kg	0.10		< 0.10
Benzo[a]anthracene		M	2800	mg/kg	0.10		< 0.10
Chrysene		M	2800	mg/kg	0.10		< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10		< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10		< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10		< 0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10		< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10		< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10		< 0.10
Coronene		N	2800	mg/kg	0.10		< 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0		
Total Of 17 PAH's		N	2800	mg/kg	2.0		
PCB 28		U	2815	mg/kg	0.010		[B] < 0.010
PCB 52		U	2815	mg/kg	0.010		[B] < 0.010
PCB 101		U	2815	mg/kg	0.010		[B] < 0.010
PCB 118		U	2815	mg/kg	0.010		[B] < 0.010
PCB 153		U	2815	mg/kg	0.010		[B] < 0.010
PCB 138		U	2815	mg/kg	0.010		[B] < 0.010
PCB 180		U	2815	mg/kg	0.010		[B] < 0.010
Tot PCBs Low (7 Congeners)		N	2815	mg/kg	0.05		[B] < 0.05
Total Phenols		M	2920	mg/kg	0.10		< 0.10

Results - Single Stage WAC

Project: 25758 Mount Avenue Dundalk

Project: 20100 Mount Avenue Dundalk						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-03228 Chemtest Sample ID: 1925207 Sample Ref: TP2 Sample ID: Sample Location: Top Depth(m): 0.50 Bottom Depth(m): Sampling Date: 26-Jan-2024						Limits		
						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	[B] 0.38	3	5	6
Loss On Ignition	2610		M	%	2.0	--	--	10
Total BTEX	2760		M	mg/kg	[B] < 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D Total	M	mg/kg	[B] < 10	500	--	--
Total (Of 17) PAH's	2800		N	mg/kg	< 1.0 < 2.0	100	--	--
pH at 20C	2010		M		7.2	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	< 0.0020	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0004	0.0045	0.5	2	25
Barium	1455		U	0.007	0.070	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0044	0.044	0.5	10	70
Copper	1455		U	0.0056	0.056	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0004	0.0042	0.5	10	30
Nickel	1455		U	0.0030	0.030	0.4	10	40
Lead	1455		U	0.0007	0.0073	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.005	0.053	4	50	200
Chloride	1220		U	1.4	14	800	15000	25000
Fluoride	1220		U	0.13	1.3	10	150	500
Sulphate	1220		U	3.4	34	1000	20000	50000
Total Dissolved Solids	1020		N	130	1300	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	4.5	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	17
WAC Sample Weight	

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25758 Mount Avenue Dundalk

Project: 20100 Mount Avenue Dundalk						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-03228 Chemtest Sample ID: 1925208 Sample Ref: TP4 Sample ID: Sample Location: Top Depth(m): 1.40 Bottom Depth(m): Sampling Date: 26-Jan-2024						Limits		
						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	[B] 1.3	3	5	6
Loss On Ignition	2610		M	%	0.87	--	--	10
Total BTEX	2760		M	mg/kg	[B] < 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D Total	M	mg/kg	[B] < 10	500	--	--
Total (Of 17) PAH's	2800		N	mg/kg	< 1.0 < 2.0	100	--	--
pH at 20C	2010		M		7.6	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.015	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0011	0.011	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0052	0.052	0.5	10	70
Copper	1455		U	0.0039	0.039	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0009	0.0091	0.5	10	30
Nickel	1455		U	0.0032	0.032	0.4	10	40
Lead	1455		U	0.0007	0.0072	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	< 0.003	< 0.025	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.14	1.4	10	150	500
Sulphate	1220		U	< 1.0	< 10	1000	20000	50000
Total Dissolved Solids	1020		N	52	520	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	2.7	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	14
WAC Sample Weight	

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25758 Mount Avenue Dundalk

Project: 20100 Mount Avenue Damdam						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-03228 Chemtest Sample ID: 1925210 Sample Ref: TP12 Sample ID: Sample Location: Top Depth(m): 1.40 Bottom Depth(m): Sampling Date: 26-Jan-2024						Limits		
						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	[B] 0.23	3	5	6
Loss On Ignition	2610		M	%	0.64	--	--	10
Total BTEX	2760		M	mg/kg	[B] < 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	[B] < 10	500	--	--
Total (Of 17) PAH's	2800		N	mg/kg	< 1.0 < 2.0	100	--	--
pH at 20C	2010		M		7.8	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.0090	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0005	0.0051	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0050	0.051	0.5	10	70
Copper	1455		U	0.0024	0.024	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0005	0.0048	0.5	10	30
Nickel	1455		U	0.0029	0.029	0.4	10	40
Lead	1455		U	< 0.0005	< 0.0050	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	< 0.003	< 0.025	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.13	1.3	10	150	500
Sulphate	1220		U	< 1.0	< 10	1000	20000	50000
Total Dissolved Solids	1020		N	39	390	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	2.5	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	11
WAC Sample Weight	

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25758 Mount Avenue Dundalk

Project: 20100 Mount Avenue Damdam						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-03228 Chemtest Sample ID: 1925211 Sample Ref: TP14 Sample ID: Sample Location: Top Depth(m): 0.50 Bottom Depth(m): Sampling Date: 26-Jan-2024						Limits		
						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	[B] 0.49	3	5	6
Loss On Ignition	2610		M	%	1.8	--	--	10
Total BTEX	2760		M	mg/kg	[B] < 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D Total	M	mg/kg	[B] < 10	500	--	--
Total (Of 17) PAH's	2800		N	mg/kg	< 1.0 < 2.0	100	--	--
pH at 20C	2010		M		7.9	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	< 0.0020	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0011	0.011	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0059	0.059	0.5	10	70
Copper	1455		U	0.0034	0.034	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0005	0.0052	0.5	10	30
Nickel	1455		U	0.0039	0.039	0.4	10	40
Lead	1455		U	0.0018	0.018	0.5	10	50
Antimony	1455		U	0.0007	0.0068	0.06	0.7	5
Selenium	1455		U	0.0008	0.0081	0.1	0.5	7
Zinc	1455		U	0.003	0.034	4	50	200
Chloride	1220		U	1.2	12	800	15000	25000
Fluoride	1220		U	0.12	1.2	10	150	500
Sulphate	1220		U	1.7	17	1000	20000	50000
Total Dissolved Solids	1020		N	22	220	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	3.3	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	11
WAC Sample Weight	

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25758 Mount Avenue Dundalk

Project: 20100 Mount Avenue Damdam						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-03228 Chemtest Sample ID: 1925213 Sample Ref: TP16 Sample ID: Sample Location: Top Depth(m): 0.50 Bottom Depth(m): Sampling Date: 26-Jan-2024						Limits		
						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	[B] < 0.20	3	5	6
Loss On Ignition	2610		M	%	1.2	--	--	10
Total BTEX	2760		M	mg/kg	[B] < 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	[B] < 10	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	< 1.0	100	--	--
pH at 20C	2010		M		8.1	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	< 0.0020	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0006	0.0058	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0043	0.043	0.5	10	70
Copper	1455		U	0.0025	0.025	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0003	0.0030	0.5	10	30
Nickel	1455		U	0.0025	0.025	0.4	10	40
Lead	1455		U	0.0005	0.0051	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	0.0006	0.0057	0.1	0.5	7
Zinc	1455		U	0.003	0.034	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.13	1.3	10	150	500
Sulphate	1220		U	< 1.0	< 10	1000	20000	50000
Total Dissolved Solids	1020		N	97	970	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	3.5	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	6.0
WAC Sample Weight	

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25758 Mount Avenue Dundalk

Project: 20100 Mount Avenue Damdam						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-03228 Chemtest Sample ID: 1925214 Sample Ref: TP18 Sample ID: Sample Location: Top Depth(m): 1.20 Bottom Depth(m): Sampling Date: 26-Jan-2024						Limits		
						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	[B] < 0.20	3	5	6
Loss On Ignition	2610		M	%	2.4	--	--	10
Total BTEX	2760		M	mg/kg	[B] < 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	[B] < 10	500	--	--
Total (Of 17) PAH's	2800		N	mg/kg	< 1.0 < 2.0	100	--	--
pH at 20C	2010		M		8.0	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.0070	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0018	0.018	0.5	2	25
Barium	1455		U	0.006	0.063	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0067	0.067	0.5	10	70
Copper	1455		U	0.0023	0.023	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0006	0.0058	0.5	10	30
Nickel	1455		U	0.0038	0.038	0.4	10	40
Lead	1455		U	0.0010	0.010	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	0.0007	0.0065	0.1	0.5	7
Zinc	1455		U	0.003	0.031	4	50	200
Chloride	1220		U	1.4	14	800	15000	25000
Fluoride	1220		U	0.17	1.7	10	150	500
Sulphate	1220		U	1.9	19	1000	20000	50000
Total Dissolved Solids	1020		N	20	190	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	3.5	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	17
WAC Sample Weight	

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25758 Mount Avenue Dundalk

Project: 20100 Mount Avenue Bundan						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-03228 Chemtest Sample ID: 1925216 Sample Ref: TP22 Sample ID: Sample Location: Top Depth(m): 1.60 Bottom Depth(m): Sampling Date: 26-Jan-2024						Limits		
						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	[B] 0.30	3	5	6
Loss On Ignition	2610		M	%	1.4	--	--	10
Total BTEX	2760		M	mg/kg	[B] < 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D Total	M	mg/kg	[B] < 10	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	< 1.0	100	--	--
pH at 20C	2010		M		8.3	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.038	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0006	0.0058	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0049	0.049	0.5	10	70
Copper	1455		U	0.0023	0.023	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0005	0.0055	0.5	10	30
Nickel	1455		U	0.0027	0.027	0.4	10	40
Lead	1455		U	< 0.0005	< 0.0050	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.003	0.028	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.12	1.2	10	150	500
Sulphate	1220		U	< 1.0	< 10	1000	20000	50000
Total Dissolved Solids	1020		N	51	510	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	< 2.5	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	5.2
WAC Sample Weight	

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25758 Mount Avenue Dundalk

Project: 20100 Mount Avenue Bundan						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-03228 Chemtest Sample ID: 1925217 Sample Ref: TP24 Sample ID: Sample Location: Top Depth(m): 1.80 Bottom Depth(m): Sampling Date: 26-Jan-2024						Limits		
						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	[B] < 0.20	3	5	6
Loss On Ignition	2610		M	%	1.6	--	--	10
Total BTEX	2760		M	mg/kg	[B] < 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	[B] < 10	500	--	--
Total (Of 17) PAH's	2800		N	mg/kg	< 1.0 < 2.0	100	--	--
pH at 20C	2010		M		8.0	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.0030	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0007	0.0070	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0058	0.058	0.5	10	70
Copper	1455		U	0.0018	0.018	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0007	0.0071	0.5	10	30
Nickel	1455		U	0.0035	0.035	0.4	10	40
Lead	1455		U	< 0.0005	< 0.0050	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.003	0.026	4	50	200
Chloride	1220		U	2.0	20	800	15000	25000
Fluoride	1220		U	0.18	1.8	10	150	500
Sulphate	1220		U	< 1.0	< 10	1000	20000	50000
Total Dissolved Solids	1020		N	16	160	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	< 2.5	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	15
WAC Sample Weight	

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25758 Mount Avenue Dundalk

Project: 20100 Mount Avenue Damdam						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-03228 Chemtest Sample ID: 1925218 Sample Ref: TP26 Sample ID: Sample Location: Top Depth(m): 0.50 Bottom Depth(m): Sampling Date: 26-Jan-2024						Limits		
						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	[B] < 0.20	3	5	6
Loss On Ignition	2610		M	%	2.0	--	--	10
Total BTEX	2760		M	mg/kg	[B] < 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	[B] < 10	500	--	--
Total (Of 17) PAH's	2800		N	mg/kg	< 1.0 < 2.0	100	--	--
pH at 20C	2010		M		7.4	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.010	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0005	0.0050	0.5	2	25
Barium	1455		U	0.005	0.054	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0047	0.047	0.5	10	70
Copper	1455		U	0.0050	0.050	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0003	0.0026	0.5	10	30
Nickel	1455		U	0.0036	0.036	0.4	10	40
Lead	1455		U	0.0018	0.018	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	0.0008	0.0075	0.1	0.5	7
Zinc	1455		U	0.007	0.070	4	50	200
Chloride	1220		U	1.1	11	800	15000	25000
Fluoride	1220		U	0.23	2.3	10	150	500
Sulphate	1220		U	3.9	39	1000	20000	50000
Total Dissolved Solids	1020		N	15	150	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	3.0	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	13
WAC Sample Weight	

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25758 Mount Avenue Dundalk

Project: 20100 Mount Avenue Bundan						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-03228 Chemtest Sample ID: 1925219 Sample Ref: TP28 Sample ID: Sample Location: Top Depth(m): 2.10 Bottom Depth(m): Sampling Date: 26-Jan-2024						Limits		
						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	[B] 0.21	3	5	6
Loss On Ignition	2610		M	%	1.0	--	--	10
Total BTEX	2760		M	mg/kg	[B] < 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	[B] < 10	500	--	--
Total (Of 17) PAH's	2800		N	mg/kg	< 1.0 < 2.0	100	--	--
pH at 20C	2010		M		7.7	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.015	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0004	0.0039	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0044	0.044	0.5	10	70
Copper	1455		U	0.0028	0.028	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0007	0.0074	0.5	10	30
Nickel	1455		U	0.0027	0.027	0.4	10	40
Lead	1455		U	< 0.0005	< 0.0050	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.003	0.031	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.14	1.4	10	150	500
Sulphate	1220		U	< 1.0	< 10	1000	20000	50000
Total Dissolved Solids	1020		N	41	410	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	< 2.5	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	12
WAC Sample Weight	

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25758 Mount Avenue Dundalk

Project: 20100 Mount Avenue Damdam						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-03228 Chemtest Sample ID: 1925220 Sample Ref: TP30 Sample ID: Sample Location: Top Depth(m): 1.20 Bottom Depth(m): Sampling Date: 26-Jan-2024						Limits		
						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	[B] < 0.20	3	5	6
Loss On Ignition	2610		M	%	1.8	--	--	10
Total BTEX	2760		M	mg/kg	[B] < 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D Total	M	mg/kg	[B] < 10	500	--	--
Total (Of 17) PAH's	2800		N	mg/kg	< 1.0 < 2.0	100	--	--
pH at 20C	2010		M		7.6	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	< 0.0020	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0005	0.0051	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0051	0.051	0.5	10	70
Copper	1455		U	0.0019	0.019	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0003	0.0032	0.5	10	30
Nickel	1455		U	0.0034	0.034	0.4	10	40
Lead	1455		U	< 0.0005	< 0.0050	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.003	0.032	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.13	1.3	10	150	500
Sulphate	1220		U	1.3	13	1000	20000	50000
Total Dissolved Solids	1020		N	14	140	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	2.6	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	14
WAC Sample Weight	

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25758 Mount Avenue Dundalk

Project: 20100 Mount Avenue Bundan						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-03228 Chemtest Sample ID: 1925221 Sample Ref: TP34 Sample ID: Sample Location: Top Depth(m): 0.50 Bottom Depth(m): Sampling Date: 26-Jan-2024						Limits		
						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	[B] 0.26	3	5	6
Loss On Ignition	2610		M	%	2.7	--	--	10
Total BTEX	2760		M	mg/kg	[B] < 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D Total	M	mg/kg	[B] < 10	500	--	--
Total (Of 17) PAH's	2800		N	mg/kg	< 1.0 < 2.0	100	--	--
pH at 20C	2010		M		7.4	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.0030	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0010	0.0095	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0059	0.059	0.5	10	70
Copper	1455		U	0.0053	0.053	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0004	0.0037	0.5	10	30
Nickel	1455		U	0.0037	0.037	0.4	10	40
Lead	1455		U	0.0010	0.010	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	0.0007	0.0067	0.1	0.5	7
Zinc	1455		U	0.004	0.039	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.13	1.3	10	150	500
Sulphate	1220		U	1.9	19	1000	20000	50000
Total Dissolved Solids	1020		N	18	180	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	3.1	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	11
WAC Sample Weight	

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25758 Mount Avenue Dundalk

Project: 20100 Mount Avenue Damdam						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-03228 Chemtest Sample ID: 1925223 Sample Ref: TP38 Sample ID: Sample Location: Top Depth(m): 0.50 Bottom Depth(m): Sampling Date: 26-Jan-2024						Limits		
						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	[B] 0.50	3	5	6
Loss On Ignition	2610		M	%	4.0	--	--	10
Total BTEX	2760		M	mg/kg	[B] < 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	[B] 22	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	< 1.0	100	--	--
pH at 20C	2010		M		7.1	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.0050	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0003	0.0031	0.5	2	25
Barium	1455		U	0.006	0.059	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0047	0.047	0.5	10	70
Copper	1455		U	0.0068	0.068	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0004	0.0043	0.5	10	30
Nickel	1455		U	0.0034	0.034	0.4	10	40
Lead	1455		U	0.0010	0.010	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	0.0006	0.0062	0.1	0.5	7
Zinc	1455		U	0.010	0.098	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.19	1.9	10	150	500
Sulphate	1220		U	1.4	14	1000	20000	50000
Total Dissolved Solids	1020		N	25	250	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	3.3	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	8.1
WAC Sample Weight	

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25758 Mount Avenue Dundalk

Project: 20100 Mount Avenue Bundan						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-03228 Chemtest Sample ID: 1925225 Sample Ref: TP40 Sample ID: Sample Location: Top Depth(m): 1.50 Bottom Depth(m): Sampling Date: 26-Jan-2024						Limits		
						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	[B] < 0.20	3	5	6
Loss On Ignition	2610		M	%	3.4	--	--	10
Total BTEX	2760		M	mg/kg	[B] < 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D Total	M	mg/kg	[B] < 10	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	< 1.0	100	--	--
pH at 20C	2010		M		7.4	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.0020	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0016	0.016	0.5	2	25
Barium	1455		U	0.005	0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0055	0.055	0.5	10	70
Copper	1455		U	0.0060	0.060	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0004	0.0035	0.5	10	30
Nickel	1455		U	0.0033	0.033	0.4	10	40
Lead	1455		U	0.0015	0.015	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.005	0.048	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.13	1.3	10	150	500
Sulphate	1220		U	1.1	11	1000	20000	50000
Total Dissolved Solids	1020		N	18	180	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	2.5	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	7.0
WAC Sample Weight	

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25758 Mount Avenue Dundalk

Project: 20100 Mount Avenue Damdam						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-03228 Chemtest Sample ID: 1925226 Sample Ref: TP42 Sample ID: Sample Location: Top Depth(m): 1.00 Bottom Depth(m): Sampling Date: 26-Jan-2024						Limits		
						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	[B] < 0.20	3	5	6
Loss On Ignition	2610		M	%	2.1	--	--	10
Total BTEX	2760		M	mg/kg	[B] < 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	[B] < 10	500	--	--
Total (Of 17) PAH's	2800		N	mg/kg	< 1.0 < 2.0	100	--	--
pH at 20C	2010		M		7.4	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	< 0.0020	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0004	0.0044	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0046	0.046	0.5	10	70
Copper	1455		U	0.0018	0.018	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0002	0.0023	0.5	10	30
Nickel	1455		U	0.0029	0.030	0.4	10	40
Lead	1455		U	< 0.0005	< 0.0050	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	< 0.003	< 0.025	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.10	1.0	10	150	500
Sulphate	1220		U	1.7	17	1000	20000	50000
Total Dissolved Solids	1020		N	19	190	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	< 2.5	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	18
WAC Sample Weight	

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25758 Mount Avenue Dundalk

Project: 20100 Mount Avenue Bundan						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-03228 Chemtest Sample ID: 1925227 Sample Ref: TP44 Sample ID: Sample Location: Top Depth(m): 0.50 Bottom Depth(m): Sampling Date: 26-Jan-2024						Limits		
						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	[B] 0.23	3	5	6
Loss On Ignition	2610		M	%	1.8	--	--	10
Total BTEX	2760		M	mg/kg	[B] < 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	[B] < 10	500	--	--
Total (Of 17) PAH's	2800		N	mg/kg	< 1.0 < 2.0	100	--	--
pH at 20C	2010		M		7.6	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.0030	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0005	0.0052	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0057	0.057	0.5	10	70
Copper	1455		U	0.0025	0.025	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0003	0.0029	0.5	10	30
Nickel	1455		U	0.0035	0.035	0.4	10	40
Lead	1455		U	< 0.0005	< 0.0050	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.003	0.034	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.12	1.2	10	150	500
Sulphate	1220		U	1.9	19	1000	20000	50000
Total Dissolved Solids	1020		N	27	260	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	< 2.5	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	18
WAC Sample Weight	

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25758 Mount Avenue Dundalk

Project: 20100 Mount Avenue Bundan						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-03228 Chemtest Sample ID: 1925229 Sample Ref: TP48 Sample ID: Sample Location: Top Depth(m): 1.90 Bottom Depth(m): Sampling Date: 26-Jan-2024						Limits		
						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	[B] < 0.20	3	5	6
Loss On Ignition	2610		M	%	1.9	--	--	10
Total BTEX	2760		M	mg/kg	[B] < 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	[B] < 10	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	< 1.0	100	--	--
pH at 20C	2010		M		7.3	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	< 0.0020	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0004	0.0037	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0045	0.045	0.5	10	70
Copper	1455		U	0.0050	0.050	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0003	0.0034	0.5	10	30
Nickel	1455		U	0.0027	0.027	0.4	10	40
Lead	1455		U	0.0007	0.0068	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.006	0.064	4	50	200
Chloride	1220		U	1.1	11	800	15000	25000
Fluoride	1220		U	0.11	1.1	10	150	500
Sulphate	1220		U	2.9	29	1000	20000	50000
Total Dissolved Solids	1020		N	21	210	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	2.6	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	5.5
WAC Sample Weight	

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25758 Mount Avenue Dundalk

Project: 20100 Mount Avenue Bundan						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-03228 Chemtest Sample ID: 1925230 Sample Ref: TP50 Sample ID: Sample Location: Top Depth(m): 0.50 Bottom Depth(m): Sampling Date: 26-Jan-2024						Limits		
						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	[B] 0.25	3	5	6
Loss On Ignition	2610		M	%	2.6	--	--	10
Total BTEX	2760		M	mg/kg	[B] < 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D Total	M	mg/kg	[B] < 10	500	--	--
Total (Of 17) PAH's	2800		N	mg/kg	< 1.0 < 2.0	100	--	--
pH at 20C	2010		M		7.5	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.0050	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0004	0.0044	0.5	2	25
Barium	1455		U	0.015	0.15	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0051	0.051	0.5	10	70
Copper	1455		U	0.0076	0.076	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0002	0.0024	0.5	10	30
Nickel	1455		U	0.0033	0.033	0.4	10	40
Lead	1455		U	0.0015	0.015	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	0.0007	0.0070	0.1	0.5	7
Zinc	1455		U	0.011	0.11	4	50	200
Chloride	1220		U	1.4	14	800	15000	25000
Fluoride	1220		U	0.20	2.0	10	150	500
Sulphate	1220		U	5.3	53	1000	20000	50000
Total Dissolved Solids	1020		N	19	190	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	5.2	52	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	15
WAC Sample Weight	

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25758 Mount Avenue Dundalk

Project: 20100 Mount Avenue Damdam						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-03228 Chemtest Sample ID: 1925231 Sample Ref: TP52 Sample ID: Sample Location: Top Depth(m): 1.70 Bottom Depth(m): Sampling Date: 26-Jan-2024						Limits		
						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	[B] < 0.20	3	5	6
Loss On Ignition	2610		M	%	0.98	--	--	10
Total BTEX	2760		M	mg/kg	[B] < 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	[B] < 10	500	--	--
Total (Of 17) PAH's	2800		N	mg/kg	< 1.0 < 2.0	100	--	--
pH at 20C	2010		M		8.0	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.037	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0003	0.0033	0.5	2	25
Barium	1455		U	0.006	0.064	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0034	0.034	0.5	10	70
Copper	1455		U	0.0049	0.049	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0007	0.0066	0.5	10	30
Nickel	1455		U	0.0020	0.020	0.4	10	40
Lead	1455		U	< 0.0005	< 0.0050	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.005	0.049	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.11	1.1	10	150	500
Sulphate	1220		U	1.2	12	1000	20000	50000
Total Dissolved Solids	1020		N	17	170	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	< 2.5	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	11
WAC Sample Weight	

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25758 Mount Avenue Dundalk

Project: 20100 Mount Avenue Damdam						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-03228 Chemtest Sample ID: 1925232 Sample Ref: TP54 Sample ID: Sample Location: Top Depth(m): 1.00 Bottom Depth(m): Sampling Date: 26-Jan-2024						Limits		
						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	[B] < 0.20	3	5	6
Loss On Ignition	2610		M	%	1.3	--	--	10
Total BTEX	2760		M	mg/kg	[B] < 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	[B] < 10	500	--	--
Total (Of 17) PAH's	2800		N	mg/kg	< 1.0 < 2.0	100	--	--
pH at 20C	2010		M		8.0	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	< 0.0020	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0004	0.0040	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0050	0.050	0.5	10	70
Copper	1455		U	0.0023	0.023	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0002	0.0022	0.5	10	30
Nickel	1455		U	0.0031	0.031	0.4	10	40
Lead	1455		U	< 0.0005	< 0.0050	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	< 0.003	< 0.025	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.098	< 1.0	10	150	500
Sulphate	1220		U	2.8	28	1000	20000	50000
Total Dissolved Solids	1020		N	17	170	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	< 2.5	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	14
WAC Sample Weight	

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25758 Mount Avenue Dundalk

Project: 20100 Mount Avenue Damdam						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-03228 Chemtest Sample ID: 1925234 Sample Ref: TP58 Sample ID: Sample Location: Top Depth(m): 1.50 Bottom Depth(m): Sampling Date: 26-Jan-2024						Limits		
						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	[B] < 0.20	3	5	6
Loss On Ignition	2610		M	%	1.9	--	--	10
Total BTEX	2760		M	mg/kg	[B] < 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	[B] < 10	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	< 1.0	100	--	--
pH at 20C	2010		M		7.7	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.0090	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	< 0.0002	< 0.0020	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0041	0.041	0.5	10	70
Copper	1455		U	0.0045	0.045	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0002	0.0022	0.5	10	30
Nickel	1455		U	0.0023	0.023	0.4	10	40
Lead	1455		U	< 0.0005	< 0.0050	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.008	0.085	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.12	1.2	10	150	500
Sulphate	1220		U	< 1.0	< 10	1000	20000	50000
Total Dissolved Solids	1020		N	16	160	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	< 2.5	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	8.5
WAC Sample Weight	

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25758 Mount Avenue Dundalk

Project: 20100 Mount Avenue Damdam						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-03228 Chemtest Sample ID: 1925236 Sample Ref: TP60 Sample ID: Sample Location: Top Depth(m): 2.00 Bottom Depth(m): Sampling Date: 26-Jan-2024						Limits		
						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	[B] 0.40	3	5	6
Loss On Ignition	2610		M	%	1.8	--	--	10
Total BTEX	2760		M	mg/kg	[B] < 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D Total	M	mg/kg	[B] < 10	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	< 1.0	100	--	--
pH at 20C	2010		M		7.9	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.050	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0004	0.0044	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0042	0.042	0.5	10	70
Copper	1455		U	0.0022	0.022	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0003	0.0034	0.5	10	30
Nickel	1455		U	0.0022	0.022	0.4	10	40
Lead	1455		U	< 0.0005	< 0.0050	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	< 0.003	< 0.025	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.11	1.1	10	150	500
Sulphate	1220		U	< 1.0	< 10	1000	20000	50000
Total Dissolved Solids	1020		N	44	440	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	< 2.5	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	6.7
WAC Sample Weight	

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25758 Mount Avenue Dundalk

Project: 20100 Mount Avenue Bundan						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-03228 Chemtest Sample ID: 1925237 Sample Ref: TP62 Sample ID: Sample Location: Top Depth(m): 0.50 Bottom Depth(m): Sampling Date: 26-Jan-2024						Limits		
						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	[B] 0.31	3	5	6
Loss On Ignition	2610		M	%	3.0	--	--	10
Total BTEX	2760		M	mg/kg	[B] < 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D Total	M	mg/kg	[B] < 10	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	< 1.0	100	--	--
pH at 20C	2010		M		7.5	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.0040	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	< 0.0002	< 0.0020	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0036	0.036	0.5	10	70
Copper	1455		U	0.0045	0.045	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0004	0.0039	0.5	10	30
Nickel	1455		U	0.0026	0.027	0.4	10	40
Lead	1455		U	0.0006	0.0059	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.007	0.070	4	50	200
Chloride	1220		U	1.1	11	800	15000	25000
Fluoride	1220		U	0.12	1.2	10	150	500
Sulphate	1220		U	1.4	14	1000	20000	50000
Total Dissolved Solids	1020		N	26	260	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	3.4	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	15
WAC Sample Weight	

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25758 Mount Avenue Dundalk

Project: 20100 Mount Avenue Bundan						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-03228						Limits		
Chemtest Sample ID: 1925238						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample Ref: TP64								
Sample ID:								
Sample Location:								
Top Depth(m): 1.00								
Bottom Depth(m):								
Sampling Date: 26-Jan-2024								
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	[B] < 0.20	3	5	6
Loss On Ignition	2610		M	%	2.0	--	--	10
Total BTEX	2760		M	mg/kg	[B] < 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	[B] < 10	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	< 1.0	100	--	--
pH at 20C	2010		M		7.6	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.0020	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0005	0.0048	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0045	0.045	0.5	10	70
Copper	1455		U	0.0052	0.052	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0004	0.0039	0.5	10	30
Nickel	1455		U	0.0029	0.029	0.4	10	40
Lead	1455		U	0.0008	0.0080	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	0.0005	0.0053	0.1	0.5	7
Zinc	1455		U	0.011	0.11	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.20	2.0	10	150	500
Sulphate	1220		U	2.3	23	1000	20000	50000
Total Dissolved Solids	1020		N	12	120	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	2.7	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	12
WAC Sample Weight	

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25758 Mount Avenue Dundalk

Project: 20100 Mount Avenue Bundan						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-03228 Chemtest Sample ID: 1925240 Sample Ref: TP66 Sample ID: Sample Location: Top Depth(m): 0.50 Bottom Depth(m): Sampling Date: 26-Jan-2024						Limits		
						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	[B] 0.91	3	5	6
Loss On Ignition	2610		M	%	4.1	--	--	10
Total BTEX	2760		M	mg/kg	[B] < 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	[B] < 10	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	< 1.0	100	--	--
pH at 20C	2010		M		6.9	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	< 0.0020	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	< 0.0002	< 0.0020	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0035	0.035	0.5	10	70
Copper	1455		U	0.0051	0.051	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0003	0.0031	0.5	10	30
Nickel	1455		U	0.0026	0.026	0.4	10	40
Lead	1455		U	< 0.0005	< 0.0050	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.010	0.097	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.099	< 1.0	10	150	500
Sulphate	1220		U	5.2	52	1000	20000	50000
Total Dissolved Solids	1020		N	19	190	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	4.3	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	19
WAC Sample Weight	

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25758 Mount Avenue Dundalk

Project: 20100 Mount Avenue Dundalk						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-03228 Chemtest Sample ID: 1925241 Sample Ref: TP68 Sample ID: Sample Location: Top Depth(m): 1.80 Bottom Depth(m): Sampling Date: 26-Jan-2024						Limits		
						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	[B] < 0.20	3	5	6
Loss On Ignition	2610		M	%	1.0	--	--	10
Total BTEX	2760		M	mg/kg	[B] < 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	[B] < 10	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	< 1.0	100	--	--
pH at 20C	2010		M		7.9	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.034	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0003	0.0028	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0048	0.048	0.5	10	70
Copper	1455		U	0.0020	0.020	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0005	0.0053	0.5	10	30
Nickel	1455		U	0.0029	0.029	0.4	10	40
Lead	1455		U	< 0.0005	< 0.0050	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	< 0.003	< 0.025	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.14	1.4	10	150	500
Sulphate	1220		U	1.1	11	1000	20000	50000
Total Dissolved Solids	1020		N	44	430	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	< 2.5	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	11
WAC Sample Weight	

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25758 Mount Avenue Dundalk

Project: 20100 Mount Avenue Damdam						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-03228 Chemtest Sample ID: 1925242 Sample Ref: TP70 Sample ID: Sample Location: Top Depth(m): 1.50 Bottom Depth(m): Sampling Date: 26-Jan-2024						Limits		
						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	[B] < 0.20	3	5	6
Loss On Ignition	2610		M	%	1.6	--	--	10
Total BTEX	2760		M	mg/kg	[B] < 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D Total	M	mg/kg	[B] < 10	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	< 1.0	100	--	--
pH at 20C	2010		M		8.2	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.028	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0004	0.0040	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0047	0.047	0.5	10	70
Copper	1455		U	0.0024	0.024	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0007	0.0066	0.5	10	30
Nickel	1455		U	0.0027	0.027	0.4	10	40
Lead	1455		U	< 0.0005	< 0.0050	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.003	0.032	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.17	1.7	10	150	500
Sulphate	1220		U	< 1.0	< 10	1000	20000	50000
Total Dissolved Solids	1020		N	44	430	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	< 2.5	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	10
WAC Sample Weight	

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25758 Mount Avenue Dundalk

Project: 20100 Mount Avenue Dundalk						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-03228 Chemtest Sample ID: 1925243 Sample Ref: TP72 Sample ID: Sample Location: Top Depth(m): 0.50 Bottom Depth(m): Sampling Date: 26-Jan-2024						Limits		
						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	[B] 0.38	3	5	6
Loss On Ignition	2610		M	%	3.1	--	--	10
Total BTEX	2760		M	mg/kg	[B] < 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	[B] 21	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	< 1.0	100	--	--
pH at 20C	2010		M		6.8	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	< 0.0020	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0002	0.0022	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0044	0.044	0.5	10	70
Copper	1455		U	0.0050	0.051	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0003	0.0034	0.5	10	30
Nickel	1455		U	0.0029	0.029	0.4	10	40
Lead	1455		U	0.0007	0.0074	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.004	0.040	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.094	< 1.0	10	150	500
Sulphate	1220		U	2.2	22	1000	20000	50000
Total Dissolved Solids	1020		N	18	170	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	3.6	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	14
WAC Sample Weight	

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25758 Mount Avenue Dundalk

Project: 20100 Mount Avenue Bundan						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-03228 Chemtest Sample ID: 1925244 Sample Ref: TP74 Sample ID: Sample Location: Top Depth(m): 1.20 Bottom Depth(m): Sampling Date: 26-Jan-2024						Limits		
						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	[B] < 0.20	3	5	6
Loss On Ignition	2610		M	%	3.3	--	--	10
Total BTEX	2760		M	mg/kg	[B] < 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	[B] < 10	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	< 1.0	100	--	--
pH at 20C	2010		M		6.7	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	< 0.0020	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0005	0.0049	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0044	0.044	0.5	10	70
Copper	1455		U	0.0017	0.017	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	< 0.0002	< 0.0020	0.5	10	30
Nickel	1455		U	0.0029	0.029	0.4	10	40
Lead	1455		U	< 0.0005	< 0.0050	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	< 0.003	< 0.025	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.10	1.0	10	150	500
Sulphate	1220		U	3.1	31	1000	20000	50000
Total Dissolved Solids	1020		N	18	170	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	< 2.5	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	17
WAC Sample Weight	

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25758 Mount Avenue Dundalk

Project: 20100 Mount Avenue Bundabur						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-03228						Limits		
Chemtest Sample ID: 1925246						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample Ref: TP76								
Sample ID:								
Sample Location:								
Top Depth(m): 0.50								
Bottom Depth(m):								
Sampling Date: 26-Jan-2024								
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	[B] 0.24	3	5	6
Loss On Ignition	2610		M	%	1.8	--	--	10
Total BTEX	2760		M	mg/kg	[B] < 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	[B] < 10	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	< 1.0	100	--	--
pH at 20C	2010		M		6.6	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	< 0.0020	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0005	0.0046	0.5	2	25
Barium	1455		U	0.012	0.12	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0046	0.046	0.5	10	70
Copper	1455		U	0.0066	0.066	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0004	0.0037	0.5	10	30
Nickel	1455		U	0.0031	0.031	0.4	10	40
Lead	1455		U	0.0008	0.0082	0.5	10	50
Antimony	1455		U	0.0006	0.0060	0.06	0.7	5
Selenium	1455		U	0.0009	0.0094	0.1	0.5	7
Zinc	1455		U	0.023	0.23	4	50	200
Chloride	1220		U	1.1	11	800	15000	25000
Fluoride	1220		U	0.12	1.2	10	150	500
Sulphate	1220		U	3.0	30	1000	20000	50000
Total Dissolved Solids	1020		N	17	170	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	3.8	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	13
WAC Sample Weight	

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25758 Mount Avenue Dundalk

Project: 20100 Mount Avenue Damdam						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-03228 Chemtest Sample ID: 1925247 Sample Ref: TP78 Sample ID: Sample Location: Top Depth(m): 1.50 Bottom Depth(m): Sampling Date: 26-Jan-2024						Limits		
						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	[B] 0.30	3	5	6
Loss On Ignition	2610		M	%	3.0	--	--	10
Total BTEX	2760		M	mg/kg	[B] < 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D Total	M	mg/kg	[B] < 10	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	< 1.0	100	--	--
pH at 20C	2010		M		6.4	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	< 0.0020	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0011	0.011	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0060	0.060	0.5	10	70
Copper	1455		U	0.0055	0.055	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0003	0.0035	0.5	10	30
Nickel	1455		U	0.0039	0.039	0.4	10	40
Lead	1455		U	0.0013	0.013	0.5	10	50
Antimony	1455		U	0.0006	0.0057	0.06	0.7	5
Selenium	1455		U	0.0008	0.0085	0.1	0.5	7
Zinc	1455		U	0.004	0.038	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.15	1.5	10	150	500
Sulphate	1220		U	1.6	16	1000	20000	50000
Total Dissolved Solids	1020		N	19	190	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	3.8	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	10
WAC Sample Weight	

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25758 Mount Avenue Dundalk

Project: 20100 Mount Avenue Dundalk						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-03228 Chemtest Sample ID: 1925249 Sample Ref: TP82 Sample ID: Sample Location: Top Depth(m): 1.70 Bottom Depth(m): Sampling Date: 26-Jan-2024						Limits		
						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	[B] < 0.20	3	5	6
Loss On Ignition	2610		M	%	1.9	--	--	10
Total BTEX	2760		M	mg/kg	[B] < 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	[B] 42	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	< 1.0	100	--	--
pH at 20C	2010		M		6.4	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	< 0.0020	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0004	0.0044	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0056	0.056	0.5	10	70
Copper	1455		U	0.0017	0.017	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0003	0.0030	0.5	10	30
Nickel	1455		U	0.0031	0.031	0.4	10	40
Lead	1455		U	< 0.0005	< 0.0050	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	< 0.003	< 0.025	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.10	1.0	10	150	500
Sulphate	1220		U	1.9	19	1000	20000	50000
Total Dissolved Solids	1020		N	19	190	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	2.7	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	11
WAC Sample Weight	

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25758 Mount Avenue Dundalk

Project: 20100 Mount Avenue Bundan						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-03228 Chemtest Sample ID: 1925250 Sample Ref: TP86 Sample ID: Sample Location: Top Depth(m): 1.40 Bottom Depth(m): Sampling Date: 26-Jan-2024						Limits		
						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	[B] 0.74	3	5	6
Loss On Ignition	2610		M	%	4.0	--	--	10
Total BTEX	2760		M	mg/kg	[B] < 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	[B] < 10	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	< 1.0	100	--	--
pH at 20C	2010		M		8.5	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	< 0.0020	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0004	0.0044	0.5	2	25
Barium	1455		U	0.006	0.063	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0057	0.057	0.5	10	70
Copper	1455		U	0.0024	0.024	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0004	0.0037	0.5	10	30
Nickel	1455		U	0.0039	0.039	0.4	10	40
Lead	1455		U	0.0007	0.0065	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.004	0.044	4	50	200
Chloride	1220		U	1.3	13	800	15000	25000
Fluoride	1220		U	0.11	1.1	10	150	500
Sulphate	1220		U	1.6	16	1000	20000	50000
Total Dissolved Solids	1020		N	22	220	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	3.5	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	13
WAC Sample Weight	

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25758 Mount Avenue Dundalk

Chemtest Job No: 25-03228						Landfill Waste Acceptance Criteria		
Chemtest Sample ID: 1925338						Limits		
Sample Ref:						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID:								
Sample Location: TP8								
Top Depth(m):								
Bottom Depth(m):								
Sampling Date: 26-Jan-2024								
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	[B] 0.26	3	5	6
Loss on Ignition						--	--	10
Total BTEX	2760		M	mg/kg	[BC] < 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH CU 1D Total	M	mg/kg	[BC] < 10	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	< 1.0	100	--	--
pH						--	>6	--
Acid Neutralisation Capacity						--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic						0.5	2	25
Barium	1455		U	I/S		20	100	300
Cadmium						0.04	1	5
Chromium	1455		U	I/S		0.5	10	70
Copper	1455		U	I/S		2	50	100
Mercury	1455		U	I/S		0.01	0.2	2
Molybdenum	1455		U	I/S		0.5	10	30
Nickel	1455		U	I/S		0.4	10	40
Lead	1455		U	I/S		0.5	10	50
Antimony	1455		U	I/S		0.06	0.7	5
Selenium	1455		U	I/S		0.1	0.5	7
Zinc						4	50	200
Chloride	1220		U	I/S		800	15000	25000
Fluoride						10	150	500
Sulphate	1220		U	I/S		1000	20000	50000
Total Dissolved Solids	1020		N	150		4000	60000	100000
Phenol Index	1920		U	< 0.030		1	-	-
Dissolved Organic Carbon	1610		U	I/S		500	800	1000

Solid Information	
Dry mass of test portion/kg	
Moisture (%)	14
WAC Sample Weight	

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Deviations

In accordance with UKAS Policy on Deviating Samples TPS 63. Chemtest have a procedure to ensure 'upon receipt of each sample a competent laboratory shall assess whether the sample is suitable with regard to the requested test(s)'. This policy and the respective holding times applied, can be supplied upon request. The reason a sample is declared as deviating is detailed below. Where applicable the analysis remains UKAS/MCERTs accredited but the results may be compromised.

Sample:	Sample Ref:	Sample ID:	Sample Location:	Sampled Date:	Deviation Code(s):	Containers Received:
1925206	TP1			26-Jan-2024	B	Amber Glass 250ml
1925206	TP1			26-Jan-2024	B	Plastic Tub 500g
1925207	TP2			26-Jan-2024	B	Amber Glass 250ml
1925207	TP2			26-Jan-2024	B	Plastic Tub 500g
1925208	TP4			26-Jan-2024	B	Amber Glass 250ml
1925208	TP4			26-Jan-2024	B	Plastic Tub 500g
1925209	TP5			26-Jan-2024	B	Amber Glass 250ml
1925209	TP5			26-Jan-2024	B	Plastic Tub 500g
1925210	TP12			26-Jan-2024	B	Amber Glass 250ml
1925210	TP12			26-Jan-2024	B	Plastic Tub 500g
1925211	TP14			26-Jan-2024	B	Amber Glass 250ml
1925211	TP14			26-Jan-2024	B	Plastic Tub 500g
1925212	TP15			26-Jan-2024	B	Amber Glass 250ml
1925212	TP15			26-Jan-2024	B	Plastic Tub 500g
1925213	TP16			26-Jan-2024	B	Amber Glass 250ml
1925213	TP16			26-Jan-2024	B	Plastic Tub 500g
1925214	TP18			26-Jan-2024	B	Amber Glass 250ml
1925214	TP18			26-Jan-2024	B	Plastic Tub 500g
1925215	TP20			26-Jan-2024	B	Amber Glass 250ml
1925215	TP20			26-Jan-2024	B	Plastic Tub 500g
1925216	TP22			26-Jan-2024	B	Amber Glass 250ml
1925216	TP22			26-Jan-2024	B	Plastic Tub 500g

Deviations

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Sample:	Sample Ref:	Sample ID:	Sample Location:	Sampled Date:	Deviation Code(s):	Containers Received:
1925217	TP24			26-Jan-2024	B	Amber Glass 250ml
1925217	TP24			26-Jan-2024	B	Plastic Tub 500g
1925218	TP26			26-Jan-2024	B	Amber Glass 250ml
1925218	TP26			26-Jan-2024	B	Plastic Tub 500g
1925219	TP28			26-Jan-2024	B	Amber Glass 250ml
1925219	TP28			26-Jan-2024	B	Plastic Tub 500g
1925220	TP30			26-Jan-2024	B	Amber Glass 250ml
1925220	TP30			26-Jan-2024	B	Plastic Tub 500g
1925221	TP34			26-Jan-2024	B	Amber Glass 250ml
1925221	TP34			26-Jan-2024	B	Plastic Tub 500g
1925222	TP35			26-Jan-2024	B	Amber Glass 250ml
1925222	TP35			26-Jan-2024	B	Plastic Tub 500g
1925223	TP38			26-Jan-2024	B	Amber Glass 250ml
1925223	TP38			26-Jan-2024	B	Plastic Tub 500g
1925224	TP40			26-Jan-2024	B	Amber Glass 250ml
1925224	TP40			26-Jan-2024	B	Plastic Tub 500g
1925225	TP40			26-Jan-2024	B	Amber Glass 250ml
1925225	TP40			26-Jan-2024	B	Plastic Tub 500g
1925226	TP42			26-Jan-2024	B	Amber Glass 250ml
1925226	TP42			26-Jan-2024	B	Plastic Tub 500g
1925227	TP44			26-Jan-2024	B	Amber Glass 250ml
1925227	TP44			26-Jan-2024	B	Plastic Tub 500g

Deviations

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Sample:	Sample Ref:	Sample ID:	Sample Location:	Sampled Date:	Deviation Code(s):	Containers Received:
1925228	TP45			26-Jan-2024	B	Amber Glass 250ml
1925228	TP45			26-Jan-2024	B	Plastic Tub 500g
1925229	TP48			26-Jan-2024	B	Amber Glass 250ml
1925229	TP48			26-Jan-2024	B	Plastic Tub 500g
1925230	TP50			26-Jan-2024	B	Amber Glass 250ml
1925230	TP50			26-Jan-2024	B	Plastic Tub 500g
1925231	TP52			26-Jan-2024	B	Amber Glass 250ml
1925231	TP52			26-Jan-2024	B	Plastic Tub 500g
1925232	TP54			26-Jan-2024	B	Amber Glass 250ml
1925232	TP54			26-Jan-2024	B	Plastic Tub 500g
1925233	TP55			26-Jan-2024	B	Amber Glass 250ml
1925233	TP55			26-Jan-2024	B	Plastic Tub 500g
1925234	TP58			26-Jan-2024	B	Amber Glass 250ml
1925234	TP58			26-Jan-2024	B	Plastic Tub 500g
1925235	TP60			26-Jan-2024	B	Amber Glass 250ml
1925235	TP60			26-Jan-2024	B	Plastic Tub 500g
1925236	TP60			26-Jan-2024	B	Amber Glass 250ml
1925236	TP60			26-Jan-2024	B	Plastic Tub 500g
1925237	TP62			26-Jan-2024	B	Amber Glass 250ml
1925237	TP62			26-Jan-2024	B	Plastic Tub 500g
1925238	TP64			26-Jan-2024	B	Amber Glass 250ml
1925238	TP64			26-Jan-2024	B	Plastic Tub 500g

Deviations

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Sample:	Sample Ref:	Sample ID:	Sample Location:	Sampled Date:	Deviation Code(s):	Containers Received:
1925239	TP65			26-Jan-2024	B	Amber Glass 250ml
1925239	TP65			26-Jan-2024	B	Plastic Tub 500g
1925240	TP66			26-Jan-2024	B	Amber Glass 250ml
1925240	TP66			26-Jan-2024	B	Plastic Tub 500g
1925241	TP68			26-Jan-2024	B	Amber Glass 250ml
1925241	TP68			26-Jan-2024	B	Plastic Tub 500g
1925242	TP70			26-Jan-2024	B	Amber Glass 250ml
1925242	TP70			26-Jan-2024	B	Plastic Tub 500g
1925243	TP72			26-Jan-2024	B	Amber Glass 250ml
1925243	TP72			26-Jan-2024	B	Plastic Tub 500g
1925244	TP74			26-Jan-2024	B	Amber Glass 250ml
1925244	TP74			26-Jan-2024	B	Plastic Tub 500g
1925245	TP75			26-Jan-2024	B	Amber Glass 250ml
1925245	TP75			26-Jan-2024	B	Plastic Tub 500g
1925246	TP76			26-Jan-2024	B	Amber Glass 250ml
1925246	TP76			26-Jan-2024	B	Plastic Tub 500g
1925247	TP78			26-Jan-2024	B	Amber Glass 250ml
1925247	TP78			26-Jan-2024	B	Plastic Tub 500g
1925248	TP80			26-Jan-2024	B	Amber Glass 250ml
1925248	TP80			26-Jan-2024	B	Plastic Tub 500g
1925249	TP82			26-Jan-2024	B	Amber Glass 250ml
1925249	TP82			26-Jan-2024	B	Plastic Tub 500g

Deviations

In accordance with UKAS Policy on Deviating Samples TPS 63. Chemtest have a procedure to ensure 'upon receipt of each sample a competent laboratory shall assess whether the sample is suitable with regard to the requested test(s)'. This policy and the respective holding times applied, can be supplied upon request. The reason a sample is declared as deviating is detailed below. Where applicable the analysis remains UKAS/MCERTs accredited but the results may be compromised.

Sample:	Sample Ref:	Sample ID:	Sample Location:	Sampled Date:	Deviation Code(s):	Containers Received:
1925250	TP86			26-Jan-2024	B	Amber Glass 250ml
1925250	TP86			26-Jan-2024	B	Plastic Tub 500g
1925338			TP8	26-Jan-2024	BC	Plastic Tub 500g

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
1010	pH Value of Waters	pH at 20°C	pH Meter	
1020	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Electrical Conductivity at 25°C and Total Dissolved Solids (TDS) in Waters	Conductivity Meter	
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.	RE PW PL LE DW GW
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).	RE PW PL SW DW GW
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation	PL SW GW
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.	
2010	pH Value of Soils	pH at 20°C	pH Meter	
2015	Acid Neutralisation Capacity	Acid Reserve	Titration	
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <30°C.	
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES	
2175	Total Sulphur in Soils	Total Sulphur	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.	
2180	Sulphur (Elemental) in Soils by HPLC	Sulphur	Dichloromethane extraction / HPLC with UV detection	
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry	
2220	Water soluble Chloride in Soils	Chloride	Aqueous extraction and measurement by 'Aquakem 600' Discrete Analyser using ferric nitrate / mercuric thiocyanate.	
2300	Cyanides & Thiocyanate in Soils	Free (or easily liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.	
2325	Sulphide in Soils	Sulphide	Steam distillation with sulphuric acid / analysis by 'Aquakem 600' Discrete Analyser, using N,N-dimethyl-p-phenylenediamine.	
2430	Total Sulphate in soils	Total Sulphate	Acid digestion followed by determination of sulphate in extract by ICP-OES.	
2455	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.	
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.	
2610	Loss on Ignition	loss on ignition (LOI)	Determination of the proportion by mass that is lost from a soil by ignition at 550°C.	
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.	
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID	

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
2690	EPH A/A Split	Aliphatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40 Aromatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40	Acetone/Heptane extraction / GCxGC FID detection	
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.	
2780	VPH A/A Split	Aliphatics: >C5–C6, >C6–C7,>C7–C8,>C8–C10 Aromatics: >C5–C7,>C7–C8,>C8–C10	Water extraction / Headspace GCxGC FID detection	
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenz[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS	
2815	Polychlorinated Biphenyls (PCB) ICES7Congeners in Soils by GC-MS	ICES7 PCB congeners	Acetone/Hexane extraction / GC-MS. Reported PCB 101 results may contain contributions from PCB 90 due to inseparable chromatography.	
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.	
640	Characterisation of Waste (Leaching C10)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge	

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.

Any comments or interpretations are outside the scope of UKAS accreditation.

The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.

Uncertainty of measurement for the determinands tested are available upon request .

None of the results in this report have been recovery corrected.

All results are expressed on a dry weight basis.

The following tests were analysed on samples 'as received' and the results subsequently corrected to a dry weight basis EPH, VPH, TPH, BTEX, VOCs, SVOCs, PCBs, Phenols.

For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ prior to analysis.

All Asbestos testing is performed at the indicated laboratory .

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1.

NEW_ASB	Eurofins Chemtest Limited, 11 Depot Road, Newmarket, CB8 0AL
DURHAM	Eurofins Chemtest Limited, Unit A North Wing, Prospect Business Park, Crookhall Lane, Consett, Co Durham, DH8 7PW

Sample Deviation Codes

As a result of any of the below deviations applying, the test results may be unreliable

A - Date of sampling not supplied

B - Sample age exceeds stability time (sampling to extraction)

C - Sample not received in appropriate containers

D - Broken Container

E - The required amount of sample for analysis was not received

H - Appropriate cooling measures were not taken for sample transportation

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt.

All water samples will be retained for 14 days from the date of receipt.

Charges may apply to extended sample storage.

Report Information

Water Sample Category Key for Accreditation

DW - Drinking Water
GW - Ground Water
LE - Land Leachate
NA - Not Applicable
PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

Asbestos Tests LOD = LOQ

Limit of Detection = Limit of Quantification for asbestos results only

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com



Final Report

Report No.: 25-05117-1

Initial Date of Issue: 06-Mar-2025

Re-Issue Details:

Client IGSL

Client Address: M7 Business Park
Naas
County Kildare
Ireland

Contact(s): Darren Keogh

Project Mount Avenue

Quotation No.: Q24-34387

Date Received: 14-Feb-2025

Order No.:

Date Instructed: 14-Feb-2025

No. of Samples: 8

Turnaround (Wkdays): 7

Results Due: 24-Feb-2025

Date Approved: 06-Mar-2025

Approved By:

Details: David Smith, Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Leachate

Project: Mount Avenue

Client: IGSL	Chemtest Job No.:					25-05117	25-05117	25-05117	25-05117	25-05117
Quotation No.: Q24-34387	Chemtest Sample ID.:					1932538	1932539	1932541	1932543	1932545
Order No.:	Client Sample Ref.:					BH3	BH7	BH1	BH14	BH15A
	Sample Type:					SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):					0.50	2.00	2.00	0.50	1.00
	Date Sampled:					11-Feb-2025	11-Feb-2025	11-Feb-2025	11-Feb-2025	11-Feb-2025
Determinand	Accred.	SOP	Type	Units	LOD					
Ammonium	U	1220	10:1	mg/l	0.050	< 0.050	< 0.050	0.093	0.076	0.063
Ammonium	N	1220	10:1	mg/kg	0.10	0.61	0.50	0.95	0.77	0.86

Results - Soil

Project: Mount Avenue

Client: IGSL		Chemtest Job No.:		25-05117	25-05117	25-05117	25-05117	25-05117	25-05117	25-05117	25-05117
Quotation No.: Q24-34387		Chemtest Sample ID.:		1932538	1932539	1932540	1932541	1932542	1932543	1932544	
Order No.:		Client Sample Ref.:		BH3	BH7	BH9	BH1	BH12	BH14	BH14	
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
		Top Depth (m):		0.50	2.00	4.00	2.00	3.00	0.50	3.00	
		Date Sampled:		11-Feb-2025	11-Feb-2025	11-Feb-2025	11-Feb-2025	11-Feb-2025	11-Feb-2025	11-Feb-2025	
		Asbestos Lab:		DURHAM	DURHAM		DURHAM		DURHAM		
Determinand	HWOL Code	Accred.	SOP	Units	LOD						
ACM Type		N	2192		N/A	-	-		-		-
Asbestos Identification		U	2192		N/A	No Asbestos Detected	No Asbestos Detected		No Asbestos Detected		No Asbestos Detected
Moisture		N	2030	%	0.020	9.9	20	22	14	10	20
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones	Stones	Stones and Roots	Stones	Stones
Soil Texture		N	2040		N/A	Clay	Clay	Clay	Clay	Clay	Clay
pH (2.5:1) at 20C		N	2010		4.0			7.3		8.3	
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	< 0.40	0.44		< 0.40		0.54
Magnesium (Water Soluble)		N	2120	g/l	0.010			< 0.010		< 0.010	
Sulphate (2:1 Water Soluble) as SO4		M	2120	g/l	0.010			0.040		0.025	
Total Sulphur		U	2175	%	0.010			0.030		0.030	
Sulphur (Elemental)		M	2180	mg/kg	1.0	< 1.0	3.8		< 1.0		< 1.0
Chloride (Water Soluble)		M	2220	g/l	0.010			< 0.010		< 0.010	
Nitrate (Water Soluble)		N	2220	g/l	0.010			< 0.010		< 0.010	
Cyanide (Total)		M	2300	mg/kg	0.50	< 0.50	< 0.50		< 0.50		0.50
Sulphide (Easily Liberatable)		N	2325	mg/kg	0.50	4.8	4.7		6.7		3.3
Ammonium (Water Soluble)		M	2220	g/l	0.01			< 0.01		< 0.01	
Sulphate (Total)		U	2430	%	0.010	0.052	0.050		0.029		0.062
Sulphate (Acid Soluble)		U	2430	%	0.010			0.053		0.017	
Arsenic		M	2455	mg/kg	0.5	9.9	5.2		16		6.7
Barium		M	2455	mg/kg	0.5	75	100		99		76
Cadmium		M	2455	mg/kg	0.10	0.38	0.23		0.47		0.30
Chromium		M	2455	mg/kg	0.5	40	42		94		51
Molybdenum		M	2455	mg/kg	0.5	0.5	< 0.5		0.6		0.8
Antimony		N	2455	mg/kg	2.0	< 2.0	< 2.0		< 2.0		< 2.0
Copper		M	2455	mg/kg	0.50	31	13		42		26
Mercury		M	2455	mg/kg	0.05	< 0.05	0.05		0.06		0.07
Nickel		M	2455	mg/kg	0.50	44	34		96		49
Lead		M	2455	mg/kg	0.50	18	16		29		24
Selenium		M	2455	mg/kg	0.25	0.72	0.71		1.5		0.92
Zinc		M	2455	mg/kg	0.50	64	65		110		86
Chromium (Trivalent)		N	2490	mg/kg	1.0	40	42		94		51
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50		< 0.50		< 0.50
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05		[C] < 0.05		< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05		[C] < 0.05		< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05		[C] < 0.05		< 0.05
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05		[C] < 0.05		< 0.05

Results - Soil

Project: Mount Avenue

Client: IGS		Chemtest Job No.:		25-05117	25-05117	25-05117	25-05117	25-05117	25-05117	25-05117
Quotation No.: Q24-34387		Chemtest Sample ID.:		1932538	1932539	1932540	1932541	1932542	1932543	1932544
Order No.:		Client Sample Ref.:		BH3	BH7	BH9	BH1	BH12	BH14	BH14
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):		0.50	2.00	4.00	2.00	3.00	0.50	3.00
		Date Sampled:		11-Feb-2025	11-Feb-2025	11-Feb-2025	11-Feb-2025	11-Feb-2025	11-Feb-2025	11-Feb-2025
		Asbestos Lab:		DURHAM	DURHAM		DURHAM		DURHAM	
Determinand	HWOL Code	Accred.	SOP	Units	LOD					
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25		[C] < 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0	< 2.0		[C] < 2.0	< 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	< 1.0	< 1.0		[C] < 1.0	< 1.0
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0	< 2.0		[C] < 2.0	< 2.0
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	< 3.0	< 3.0		[C] < 3.0	9.9
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10		[C] < 10	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	< 5.0	< 5.0		[C] < 5.0	11
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05		[C] < 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05		[C] < 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05		[C] < 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25		[C] < 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0		[C] < 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0		[C] < 1.0	< 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	< 2.0	< 2.0		[C] < 2.0	< 2.0
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	< 2.0	< 2.0		[C] < 2.0	< 2.0
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	< 1.0	< 1.0		[C] < 1.0	< 1.0
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	< 5.0	< 5.0		[C] < 5.0	< 5.0
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50		[C] < 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	< 10	< 10		[C] < 10	14
Mineral Oil EPH		N	2670	mg/kg	10	< 10	< 10		< 10	11
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0		[C] < 1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0		[C] < 1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	1.0	< 1.0	< 1.0		[C] < 1.0	< 1.0
m & p-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0		[C] < 1.0	< 1.0
o-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0		[C] < 1.0	< 1.0
Methyl Tert-Butyl Ether		M	2760	µg/kg	1.0	< 1.0	< 1.0		[C] < 1.0	< 1.0
Naphthalene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10
Anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10
Pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10
Benzo[a]anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10
Chrysene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10

Results - Soil

Project: Mount Avenue

Client: IGSL		Chemtest Job No.:		25-05117	25-05117	25-05117	25-05117	25-05117	25-05117	25-05117
Quotation No.: Q24-34387		Chemtest Sample ID.:		1932538	1932539	1932540	1932541	1932542	1932543	1932544
Order No.:		Client Sample Ref.:		BH3	BH7	BH9	BH1	BH12	BH14	BH14
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):		0.50	2.00	4.00	2.00	3.00	0.50	3.00
		Date Sampled:		11-Feb-2025	11-Feb-2025	11-Feb-2025	11-Feb-2025	11-Feb-2025	11-Feb-2025	11-Feb-2025
		Asbestos Lab:		DURHAM	DURHAM		DURHAM		DURHAM	
Determinand	HWOL Code	Accred.	SOP	Units	LOD					
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Coronene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	
PCB 28		U	2815	mg/kg	0.010	< 0.010	< 0.010	[C] < 0.010	< 0.010	
PCB 52		U	2815	mg/kg	0.010	< 0.010	< 0.010	[C] < 0.010	< 0.010	
PCB 101		U	2815	mg/kg	0.010	< 0.010	< 0.010	[C] < 0.010	< 0.010	
PCB 118		U	2815	mg/kg	0.010	< 0.010	< 0.010	[C] < 0.010	< 0.010	
PCB 153		U	2815	mg/kg	0.010	< 0.010	< 0.010	[C] < 0.010	< 0.010	
PCB 138		U	2815	mg/kg	0.010	< 0.010	< 0.010	[C] < 0.010	< 0.010	
PCB 180		U	2815	mg/kg	0.010	< 0.010	< 0.010	[C] < 0.010	< 0.010	
Tot PCBs Low (7 Congeners)		N	2815	mg/kg	0.05	< 0.05	< 0.05	[C] < 0.05	< 0.05	
Total Phenols		M	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	

Results - Soil

Project: Mount Avenue

Client: IGSL		Chemtest Job No.:		25-05117	
Quotation No.: Q24-34387		Chemtest Sample ID.:		1932545	
Order No.:		Client Sample Ref.:		BH15A	
		Sample Type:		SOIL	
		Top Depth (m):		1.00	
		Date Sampled:		11-Feb-2025	
		Asbestos Lab:		DURHAM	
Determinand	HWOL Code	Accred.	SOP	Units	LOD
ACM Type		N	2192		N/A
Asbestos Identification		U	2192		N/A
Moisture		N	2030	%	0.020
Soil Colour		N	2040		N/A
Other Material		N	2040		N/A
Soil Texture		N	2040		N/A
pH (2.5:1) at 20C		N	2010		4.0
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40
Magnesium (Water Soluble)		N	2120	g/l	0.010
Sulphate (2:1 Water Soluble) as SO4		M	2120	g/l	0.010
Total Sulphur		U	2175	%	0.010
Sulphur (Elemental)		M	2180	mg/kg	1.0
Chloride (Water Soluble)		M	2220	g/l	0.010
Nitrate (Water Soluble)		N	2220	g/l	0.010
Cyanide (Total)		M	2300	mg/kg	0.50
Sulphide (Easily Liberatable)		N	2325	mg/kg	0.50
Ammonium (Water Soluble)		M	2220	g/l	0.01
Sulphate (Total)		U	2430	%	0.010
Sulphate (Acid Soluble)		U	2430	%	0.010
Arsenic		M	2455	mg/kg	0.5
Barium		M	2455	mg/kg	0.5
Cadmium		M	2455	mg/kg	0.10
Chromium		M	2455	mg/kg	0.5
Molybdenum		M	2455	mg/kg	0.5
Antimony		N	2455	mg/kg	2.0
Copper		M	2455	mg/kg	0.50
Mercury		M	2455	mg/kg	0.05
Nickel		M	2455	mg/kg	0.50
Lead		M	2455	mg/kg	0.50
Selenium		M	2455	mg/kg	0.25
Zinc		M	2455	mg/kg	0.50
Chromium (Trivalent)		N	2490	mg/kg	1.0
Chromium (Hexavalent)		N	2490	mg/kg	0.50
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05

Results - Soil

Project: Mount Avenue

Client: IGSL		Chemtest Job No.:		25-05117		
Quotation No.: Q24-34387		Chemtest Sample ID.:		1932545		
Order No.:		Client Sample Ref.:		BH15A		
		Sample Type:		SOIL		
		Top Depth (m):		1.00		
		Date Sampled:		11-Feb-2025		
		Asbestos Lab:		DURHAM		
Determinand	HWOL Code	Accred.	SOP	Units	LOD	
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	< 1.0
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	9.8
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	11
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	< 2.0
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	< 2.0
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	< 1.0
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	< 5.0
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	12
Mineral Oil EPH		N	2670	mg/kg	10	11
Benzene		M	2760	µg/kg	1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	1.0	< 1.0
m & p-Xylene		M	2760	µg/kg	1.0	< 1.0
o-Xylene		M	2760	µg/kg	1.0	< 1.0
Methyl Tert-Butyl Ether		M	2760	µg/kg	1.0	< 1.0
Naphthalene		M	2800	mg/kg	0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	< 0.10
Anthracene		M	2800	mg/kg	0.10	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	< 0.10
Pyrene		M	2800	mg/kg	0.10	< 0.10
Benzo[a]anthracene		M	2800	mg/kg	0.10	< 0.10
Chrysene		M	2800	mg/kg	0.10	< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10	< 0.10

Results - Soil

Project: Mount Avenue

Client: IGSL		Chemtest Job No.:		25-05117		
Quotation No.: Q24-34387		Chemtest Sample ID.:		1932545		
Order No.:		Client Sample Ref.:		BH15A		
		Sample Type:		SOIL		
		Top Depth (m):		1.00		
		Date Sampled:		11-Feb-2025		
		Asbestos Lab:		DURHAM		
Determinand	HWOL Code	Accred.	SOP	Units	LOD	
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10
Coronene		N	2800	mg/kg	0.10	< 0.10
PCB 28		U	2815	mg/kg	0.010	< 0.010
PCB 52		U	2815	mg/kg	0.010	< 0.010
PCB 101		U	2815	mg/kg	0.010	< 0.010
PCB 118		U	2815	mg/kg	0.010	< 0.010
PCB 153		U	2815	mg/kg	0.010	< 0.010
PCB 138		U	2815	mg/kg	0.010	< 0.010
PCB 180		U	2815	mg/kg	0.010	< 0.010
Tot PCBs Low (7 Congeners)		N	2815	mg/kg	0.05	< 0.05
Total Phenols		M	2920	mg/kg	0.10	< 0.10

Results - Single Stage WAC

Project: Mount Avenue

Project: Mount Avenue						Landfill Waste Acceptance Criteria Limits		
Chemtest Job No: 25-05117						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Chemtest Sample ID: 1932538								
Sample Ref: BH3								
Sample ID:								
Sample Location:								
Top Depth(m): 0.50								
Bottom Depth(m):								
Sampling Date: 11-Feb-2025								
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	0.52	3	5	6
Loss On Ignition	2610		M	%	1.6	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	< 10	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	< 1.0	100	--	--
pH at 20C	2010		M		8.0	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.034	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0004	0.0044	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0032	0.033	0.5	10	70
Copper	1455		U	0.0015	0.015	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0013	0.013	0.5	10	30
Nickel	1455		U	0.0022	0.022	0.4	10	40
Lead	1455		U	< 0.0005	< 0.0050	0.5	10	50
Antimony	1455		U	0.0007	0.0073	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.005	0.052	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.22	2.2	10	150	500
Sulphate	1220		U	2.5	25	1000	20000	50000
Total Dissolved Solids	1020		N	47	470	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	3.7	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	3.7
WAC Sample Weight	

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: Mount Avenue

Project: Inland Avenue						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-05117						Limits		
Chemtest Sample ID: 1932539						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample Ref: BH7								
Sample ID:								
Sample Location:								
Top Depth(m): 2.00								
Bottom Depth(m):								
Sampling Date: 11-Feb-2025								
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	0.43	3	5	6
Loss On Ignition	2610		M	%	3.2	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D Total	M	mg/kg	< 10	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	< 1.0	100	--	--
pH at 20C	2010		M		7.6	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	< 0.0020	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0011	0.011	0.5	2	25
Barium	1455		U	0.007	0.072	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0064	0.064	0.5	10	70
Copper	1455		U	0.0018	0.018	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0004	0.0044	0.5	10	30
Nickel	1455		U	0.0035	0.035	0.4	10	40
Lead	1455		U	0.0011	0.011	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.014	0.15	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.16	1.6	10	150	500
Sulphate	1220		U	3.1	31	1000	20000	50000
Total Dissolved Solids	1020		N	16	160	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	3.6	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	8.8
WAC Sample Weight	

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: Mount Avenue

Project: Mount Avenue						Landfill Waste Acceptance Criteria Limits		
Chemtest Job No: 25-05117						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Chemtest Sample ID: 1932541								
Sample Ref: BH1								
Sample ID:								
Sample Location:								
Top Depth(m): 2.00								
Bottom Depth(m):								
Sampling Date: 11-Feb-2025								
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	0.51	3	5	6
Loss On Ignition	2610		M	%	2.4	--	--	10
Total BTEX	2760		M	mg/kg	[C] < 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	[C] < 10	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	< 1.0	100	--	--
pH at 20C	2010		M		8.1	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.015	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0011	0.011	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0035	0.035	0.5	10	70
Copper	1455		U	0.0031	0.031	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0015	0.015	0.5	10	30
Nickel	1455		U	0.0024	0.024	0.4	10	40
Lead	1455		U	0.0007	0.0074	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.006	0.057	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.48	4.8	10	150	500
Sulphate	1220		U	1.4	14	1000	20000	50000
Total Dissolved Solids	1020		N	52	520	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	19	190	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	4.4
WAC Sample Weight	

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: Mount Avenue

Project: Incident Avenue						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-05117						Limits		
Chemtest Sample ID: 1932543						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample Ref: BH14								
Sample ID:								
Sample Location:								
Top Depth(m): 0.50								
Bottom Depth(m):								
Sampling Date: 11-Feb-2025								
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	1.1	3	5	6
Loss On Ignition	2610		M	%	3.8	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	< 10	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	< 1.0	100	--	--
pH at 20C	2010		M		7.4	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	< 0.0020	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0015	0.015	0.5	2	25
Barium	1455		U	0.007	0.068	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0062	0.062	0.5	10	70
Copper	1455		U	0.0044	0.044	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0009	0.0095	0.5	10	30
Nickel	1455		U	0.0047	0.047	0.4	10	40
Lead	1455		U	0.0017	0.017	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.012	0.12	4	50	200
Chloride	1220		U	1.2	12	800	15000	25000
Fluoride	1220		U	0.20	2.0	10	150	500
Sulphate	1220		U	1.5	15	1000	20000	50000
Total Dissolved Solids	1020		N	22	220	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	13	130	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	2.9
WAC Sample Weight	

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: Mount Avenue

Project: Mount Avenue						Landfill Waste Acceptance Criteria Limits		
Chemtest Job No: 25-05117						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Chemtest Sample ID: 1932545								
Sample Ref: BH15A								
Sample ID:								
Sample Location:								
Top Depth(m): 1.00								
Bottom Depth(m):								
Sampling Date: 11-Feb-2025								
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	1.2	3	5	6
Loss On Ignition	2610		M	%	2.3	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	< 10	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	< 1.0	100	--	--
pH at 20C	2010		M		8.2	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.020	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0003	0.0028	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0069	0.069	0.5	10	70
Copper	1455		U	0.0016	0.016	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0011	0.012	0.5	10	30
Nickel	1455		U	0.0062	0.062	0.4	10	40
Lead	1455		U	< 0.0005	< 0.0050	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.005	0.049	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.18	1.8	10	150	500
Sulphate	1220		U	1.5	15	1000	20000	50000
Total Dissolved Solids	1020		N	41	410	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	2.9	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	4.3
WAC Sample Weight	

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Deviations

In accordance with UKAS Policy on Deviating Samples TPS 63. Chemtest have a procedure to ensure 'upon receipt of each sample a competent laboratory shall assess whether the sample is suitable with regard to the requested test(s)'. This policy and the respective holding times applied, can be supplied upon request. The reason a sample is declared as deviating is detailed below. Where applicable the analysis remains UKAS/MCERTs accredited but the results may be compromised.

Sample:	Sample Ref:	Sample ID:	Sample Location:	Sampled Date:	Deviation Code(s):	Containers Received:
1932541	BH1			11-Feb-2025	C	Plastic Tub 500g

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
1010	pH Value of Waters	pH at 20°C	pH Meter	
1020	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Electrical Conductivity at 25°C and Total Dissolved Solids (TDS) in Waters	Conductivity Meter	
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.	RE PW PL LE DW GW
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).	RE PW PL SW DW GW
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation	PL SW GW
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.	
2010	pH Value of Soils	pH at 20°C	pH Meter	
2015	Acid Neutralisation Capacity	Acid Reserve	Titration	
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <30°C.	
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES	
2175	Total Sulphur in Soils	Total Sulphur	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.	
2180	Sulphur (Elemental) in Soils by HPLC	Sulphur	Dichloromethane extraction / HPLC with UV detection	
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry	
2220	Water soluble Chloride in Soils	Chloride	Aqueous extraction and measurement by 'Aquakem 600' Discrete Analyser using ferric nitrate / mercuric thiocyanate.	
2300	Cyanides & Thiocyanate in Soils	Free (or easily liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.	
2325	Sulphide in Soils	Sulphide	Steam distillation with sulphuric acid / analysis by 'Aquakem 600' Discrete Analyser, using N,N-dimethyl-p-phenylenediamine.	
2430	Total Sulphate in soils	Total Sulphate	Acid digestion followed by determination of sulphate in extract by ICP-OES.	
2455	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.	
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.	
2610	Loss on Ignition	loss on ignition (LOI)	Determination of the proportion by mass that is lost from a soil by ignition at 550°C.	
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.	
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID	

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
2690	EPH A/A Split	Aliphatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40 Aromatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40	Acetone/Heptane extraction / GCxGC FID detection	
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.	
2780	VPH A/A Split	Aliphatics: >C5–C6, >C6–C7,>C7–C8,>C8–C10 Aromatics: >C5–C7,>C7–C8,>C8–C10	Water extraction / Headspace GCxGC FID detection	
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenz[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS	
2815	Polychlorinated Biphenyls (PCB) ICES7Congeners in Soils by GC-MS	ICES7 PCB congeners	Acetone/Hexane extraction / GC-MS. Reported PCB 101 results may contain contributions from PCB 90 due to inseparable chromatography.	
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.	
640	Characterisation of Waste (Leaching C10)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge	

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.

Any comments or interpretations are outside the scope of UKAS accreditation.

The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.

Uncertainty of measurement for the determinands tested are available upon request .

None of the results in this report have been recovery corrected.

All results are expressed on a dry weight basis.

The following tests were analysed on samples 'as received' and the results subsequently corrected to a dry weight basis EPH, VPH, TPH, BTEX, VOCs, SVOCs, PCBs, Phenols.

For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ prior to analysis.

All Asbestos testing is performed at the indicated laboratory .

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1.

NEW_ASB	Eurofins Chemtest Limited, 11 Depot Road, Newmarket, CB8 0AL
DURHAM	Eurofins Chemtest Limited, Unit A North Wing, Prospect Business Park, Crookhall Lane, Consett, Co Durham, DH8 7PW

Sample Deviation Codes

As a result of any of the below deviations applying, the test results may be unreliable

A - Date of sampling not supplied

B - Sample age exceeds stability time (sampling to extraction)

C - Sample not received in appropriate containers

D - Broken Container

E - The required amount of sample for analysis was not received

H - Appropriate cooling measures were not taken for sample transportation

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt.

All water samples will be retained for 14 days from the date of receipt.

Charges may apply to extended sample storage.

Report Information

Water Sample Category Key for Accreditation

DW - Drinking Water
GW - Ground Water
LE - Land Leachate
NA - Not Applicable
PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

Asbestos Tests LOD = LOQ

Limit of Detection = Limit of Quantification for asbestos results only

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com



IGSL
Unit F
M7 Business Park
Naas

Analytical Test Report: L25/01403/IGS - 25-57236

Your Project Reference:	25758 Mount Aveune Dundalk		
Your Order Number:	23378	Testing Received / Instructed:	10/02/2025 / 10/02/2025
Report Issue Number:	1	Sample Tested:	10/02 to 19/02/2025
Samples Analysed:	9 Samples	Report issued:	19/02/2025

Signed

James Gane
Analytical Services Manager
CTS

Notes:

This report shall not be reproduce except in full
Samples will be retained for 14 days after issue of this report unless otherwise requested.
The results included within the report are representative of the samples submitted for analysis.
A certificate of sampling was not supplied
Samples were supplied by customer, results apply to the samples as received.
Within the report any information provided by the client is identified with a 'H'
Where specification limits are included these are for guidance only. Where a measured value has been highlighted this is not implying acceptance or failure and certainty of measurement values have not been taken into account.
Uncertainty of measurement values are available on request.

Accreditation Key

UKAS = UKAS Accreditation, u = Unaccredited

Date of Issue: 05.12.2024

Issued by: J. Gane

Issue No: 1

Rev No: 3



L25/01403/IGS - 25-57236

Project Reference - 25758 Mount Aveune Dundalk

Analytical Test Results

Lab Reference	450119	450120	450121	450122	450123
Client Sample Reference	A25/0212	A25/0212	A25/0221	A25/0221	A25/0230
Material	Soil	Soil	Soil	Soil	Soil
Source / Client Ref	TP12 0.5M Nat	TP12 0.5M 2% Lime	TP41 1M Nat	TP41 1M 2% Lime	TP64 1M Nat
Sample Description	Brown silty clay	Brown silty clay	Brown silty clay	Brown silty clay	Brown silty clay

	Units	Accreditation					
EN 1744 Determinations							
Total Sulphur content (as S) by HTC	(%)	UKAS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Total Sulphur content (as S) by HTC	(%)	UKAS	0.01	0.03	0.02	0.04	0.02
Acid soluble sulphate content (as SO ₃)	(%)	UKAS	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acid soluble sulphate content (as SO ₄)	(%)	u	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Acid soluble sulphate content (as SO ₃)	(%)	UKAS	0.02	0.06	0.03	0.06	0.01
Acid soluble sulphate content (as SO ₄)	(%)	u	0.02	0.07	0.03	0.07	0.02
Water soluble sulphate content (as SO ₃)	(%)	UKAS	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Water soluble sulphate content (as SO ₃)	(mg/l)	u	< 50	< 50	< 50	< 50	< 50
Water soluble sulphate content (as SO ₄)	(%)	u	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Water soluble sulphate content (as SO ₄)	(mg/l)	u	< 60	< 60	< 60	< 60	< 60



L25/01403/IGS - 25-57236

Project Reference - 25758 Mount Aveune Dundalk

Analytical Test Results

Lab Reference	450124	450125	450126	450127
Client Sample Reference	A25/0230	A25/0219	A25/0219	A25/0236
Material	Soil	Soil	Soil	Soil
Source / Client Ref	TP64 1M 2% Lime	TP32 1.4M Nat	TP32 1.4M 2% Lime	TP82 0.5 Nat
Sample Description	Brown silty clay	Brown silty clay	Brown silty clay	Brown silty clay

	Units	Accreditation				
EN 1744 Determinations						
Total Sulphur content (as S) by HTC	(%)	UKAS	< 0.1	< 0.1	< 0.1	< 0.1
Total Sulphur content (as S) by HTC	(%)	UKAS	0.04	0.02	0.07	0.03
Acid soluble sulphate content (as SO ₃)	(%)	UKAS	< 0.1	< 0.1	< 0.1	< 0.1
Acid soluble sulphate content (as SO ₄)	(%)	u	< 0.1	< 0.1	< 0.1	< 0.1
Acid soluble sulphate content (as SO ₃)	(%)	UKAS	0.07	0.01	0.10	0.02
Acid soluble sulphate content (as SO ₄)	(%)	u	0.08	0.01	0.12	0.03
Water soluble sulphate content (as SO ₃)	(%)	UKAS	< 0.01	< 0.01	< 0.01	< 0.01
Water soluble sulphate content (as SO ₃)	(mg/l)	u	< 50	< 50	< 50	< 50
Water soluble sulphate content (as SO ₄)	(%)	u	< 0.01	< 0.01	< 0.01	< 0.01
Water soluble sulphate content (as SO ₄)	(mg/l)	u	< 60	< 60	< 60	< 60



L25/01403/IGS - 25-57236

Project Reference - 25758 Mount Aveune Dundalk

Analysis Methodologies

Test Title	Details and Test method used
Suite A - EN 1744 ASS WSS TS (Cl.12+10.1+11.2)	Total sulphur testing was in accordance with BS EN 1744-1:2009 + A1:2012 clause 11. Acid soluble sulphate testing was in accordance with BS EN 1744-1:2009 + A1:2012 clause 12. Water soluble sulphate testing was in accordance with BS EN 1744-1:2009 + A1:2012 clause 10.

Appendix 10

Exploratory Hole Location Plan

Mount Avenue, Dundalk, Co. Louth

Mount Avenue, Dundalk, Co. Louth

- Cable Percussive Boreholes
- Plate Load Test
- Rotary Coreholes
- Soakaway Test
- Trial Pits + Dynamic Probe

400 m

Google Earth

Image © 2025 Airbus

Appendix 11

Waste Characterization Assessment

Unit 15
Melbourne Business Park
Model Farm Road
Cork T12 WR89



T: 021 434 5366
E: admin@ocallaghanmoran.com
www.ocallaghanmoran.com

Waste Characterisation Assessment

Mount Avenue,

Dundalk,

Co. Louth

Prepared For: -

IGSL Limited
Unit F
M7 Business Park
Naas
County Kildare

Prepared By: -

O'Callaghan Moran & Associates
Unit 15 Melbourne Business Park
Model Farm Road
Cork

March 2025

Project	Waste Characterisation: Mount Avenue, Dundalk			
Client	IGSL Limited			
Report No	Date	Status	Prepared By	Reviewed By
250011101	12/03/2025	Final	Austin Hynes PGeo MSc	Sean Moran B.Sc. MSc

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APPENDICES

APPENDIX 1	-	Trial Pit and Borehole Logs
APPENDIX 2	-	Laboratory Results
APPENDIX 3	-	Waste Classification Report

1 INTRODUCTION

IGSL Limited requested O’Callaghan Moran & Associates (OCM) to undertake a waste characterisation assessment of thirty-eight (38 No.) samples of natural ground collected from thirty-three (33 No.) trial pits and five (5 No.) cable percussion boreholes from a site in Mount Avenue, Dundalk, Co. Louth.

1.1 Methodology

IGSL provided a description of the ground conditions and collected samples of the soils from the trial pits and borehole locations. The samples were analysed at an accredited laboratory and the results formed the basis for a waste classification assessment, which was undertaken by OCM in accordance with the Environmental Protection Agency (EPA) Guidelines on the Classification of Waste (2015).

2 WASTE CLASSIFICATION ASSESSMENT

2.1 Soil Sampling and Laboratory Analysis

2.1.1 Site Investigation

The site investigation was undertaken in December 2024 and included the collection thirty-eight (38 No.) samples of natural ground collected from thirty-three (33 No.) trial pits and five (5 No.) cable percussion boreholes. The location of the samples is shown on Figure 2.1. The logs are in Appendix 1.

There is topsoil at the surface of all locations. The subsurface of the trial pits is composed of Natural Ground.

The Natural Ground across the site is composed of alternating layers of firm to stiff, sandy gravelly CLAY with cobble content, and medium dense to dense, clayey sandy GRAVEL to 3.00 mbgl. The alternating layers are circa 1.00-1.50m in thickness.

2.1.2 Sample Collection

IGSL collected the samples and placed them in laboratory prepared containers that were stored in coolers prior to shipment to Chemtest Ltd.

2.1.3 Laboratory Analysis

The samples were tested for, metals (arsenic, barium, cadmium, chromium, copper, mercury, molybdenum, nickel, lead, antimony, selenium and zinc, total organic carbon (TOC), BTEX (benzene, toluene, ethylbenzene and xylene) aliphatic and aromatic hydrocarbons, polychlorinated biphenyls (PCB), mineral oil, polyaromatic hydrocarbons (PAH) and asbestos. Leachate generated from the samples was tested for arsenic, barium, cadmium, chromium, copper, mercury, molybdenum, nickel, lead, antimony, selenium and zinc, chloride, fluoride, soluble sulphate, phenols, dissolved organic carbon (DOC), total dissolved solids (TDS).

This parameter range facilitates an assessment of the hazardous properties of the waste, and also allows a determination of appropriate off-site management options based on the Waste Acceptance Criteria (WAC) applied by landfill operators.

The analytical methods were all ISO/CEN approved and the method detection limits were below the relevant guidance/threshold values. The full laboratory report is in Appendix 2.



O'Callaghan Moran & Associates,
Unit 15 Melbourne Business Park,
Model Farm Road, Cork.
Tel. (021) 4345366
Email: info@ocallaghanmoran.com

Title:

Figure 2.1 Sample Location Plan

Legend

Client:

IGSL Limited

This drawing is the property of O'Callaghan Moran & Associates and shall not be used, reproduced or disclosed to anyone without the prior written permission of O'Callaghan Moran & Associates and shall be returned upon request.

2.2 Waste Classification

The Haz Waste Online Classification Engine, developed in the UK by One Touch Data Ltd, was used to determine the waste classification. This tool was developed specifically to establish whether waste is non-hazardous or hazardous and has been approved for use in Ireland by the Environmental Protection Agency. The full Waste Classification Report is in Appendix 3 and the results are summarised in Table 2.1.

Table 2.1 Waste Classification

Sample No.	Depth	Classification	LoW Code	Sample No.	Depth	Classification	LoW Code
TP2	0.50	Non-Hazardous	17 05 04	TP54	1.00	Non-Hazardous	17 05 04
TP4	1.40	Non-Hazardous	17 05 04	TP58	1.50	Non-Hazardous	17 05 04
TP12	1.40	Non-Hazardous	17 05 04	TP60	2.00	Non-Hazardous	17 05 04
TP14	0.50	Non-Hazardous	17 05 04	TP62	0.50	Non-Hazardous	17 05 04
TP16	0.50	Non-Hazardous	17 05 04	TP64	1.00	Non-Hazardous	17 05 04
TP18	1.20	Non-Hazardous	17 05 04	TP66	0.50	Non-Hazardous	17 05 04
TP22	1.60	Non-Hazardous	17 05 04	TP68	1.80	Non-Hazardous	17 05 04
TP24	1.80	Non-Hazardous	17 05 04	TP70	1.50	Non-Hazardous	17 05 04
TP26	0.50	Non-Hazardous	17 05 04	TP72	0.50	Non-Hazardous	17 05 04
TP28	2.10	Non-Hazardous	17 05 04	TP74	1.20	Non-Hazardous	17 05 04
TP30	1.20	Non-Hazardous	17 05 04	TP76	0.50	Non-Hazardous	17 05 04
TP34	0.50	Non-Hazardous	17 05 04	TP78	1.50	Non-Hazardous	17 05 04
TP38	0.50	Non-Hazardous	17 05 04	TP82	1.70	Non-Hazardous	17 05 04
TP40	1.50	Non-Hazardous	17 05 04	TP86	1.40	Non-Hazardous	17 05 04
TP42	1.00	Non-Hazardous	17 05 04	BH3	0.50	Non-Hazardous	17 05 04
TP44	0.50	Non-Hazardous	17 05 04	BH7	2.00	Non-Hazardous	17 05 04
TP48	1.90	Non-Hazardous	17 05 04	BH1	2.00	Non-Hazardous	17 05 04
TP50	0.50	Non-Hazardous	17 05 04	BH14	0.50	Non-Hazardous	17 05 04
TP52	1.70	Non-Hazardous	17 05 04	BH15A	1.00	Non-Hazardous	17 05 04

Asbestos was not detected in any of the samples tested.

All samples are classified as non-hazardous and the appropriate List of Waste Code is 17 05 04 (Soil and Stone other than those mentioned in 17 05 03*).

2.3 Waste Acceptance Criteria

The results of the WAC testing are presented in Table 2.2-2.4, which includes for comparative purposes the WAC for Inert, Non Hazardous and Hazardous Waste Landfills pursuant to Article 16 of the EU Landfill Directive 1999/31/EC Annex II which establishes criteria and procedures for the acceptance of waste at landfills.

All samples meet the inert WAC.

Table 2.2 WAC Results

Parameter	Unit	TP2	TP4	TP12	TP14	TP16	TP18	TP22	TP24	TP26	TP28	TP30	TP34	TP38	Inert Landfill	Inert Landfill Increased Limits	Non- Hazardous Landfill	Hazardous Landfill
Depth	m	0.50	1.40	1.40	0.50	0.50	1.20	1.60	1.80	0.50	2.10	1.20	0.50	0.50				
Antimony	mg/kg	< 0.0050	< 0.0050	< 0.0050	0.0068	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.06	0.18	0.7	5
Arsenic	mg/kg	0.0045	0.011	0.0051	0.011	0.0058	0.018	0.0058	0.0070	0.0050	0.0039	0.0051	0.0095	0.0031	0.5	1.5	2	25
Barium	mg/kg	0.070	< 0.050	< 0.050	< 0.050	< 0.050	0.063	< 0.050	< 0.050	0.054	< 0.050	< 0.050	< 0.050	0.059	20	20	100	300
Cadmium	mg/kg	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	0.04	0.04	1	5
Chromium	mg/kg	0.044	0.052	0.051	0.059	0.043	0.067	0.049	0.058	0.047	0.044	0.051	0.059	0.047	0.5	0.5	10	70
Copper	mg/kg	0.056	0.039	0.024	0.034	0.025	0.023	0.023	0.018	0.050	0.028	0.019	0.053	0.068	2	2	50	100
Lead	mg/kg	0.0073	0.0072	< 0.0050	0.018	0.0051	0.010	< 0.0050	< 0.0050	0.018	< 0.0050	< 0.0050	0.010	0.010	0.5	0.5	10	50
Molybdenum	mg/kg	0.0042	0.0091	0.0048	0.0052	0.0030	0.0058	0.0055	0.0071	0.0026	0.0074	0.0032	0.0037	0.0043	0.5	1.5	10	30
Nickel	mg/kg	0.030	0.032	0.029	0.039	0.025	0.038	0.027	0.035	0.036	0.027	0.034	0.037	0.034	0.4	0.4	10	40
Selenium	mg/kg	< 0.0050	< 0.0050	< 0.0050	0.0081	0.0057	0.0065	< 0.0050	< 0.0050	0.0075	< 0.0050	< 0.0050	0.0067	0.0062	0.1	0.3	0.5	7
Zinc	mg/kg	0.053	< 0.025	< 0.025	0.034	0.034	0.031	0.028	0.026	0.070	0.031	0.032	0.039	0.098	4	4	50	200
Mercury	mg/kg	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	< 0.00050	0.01	0.01	0.2	2
Phenol	mg/kg	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	< 0.30	1	1	NE	NE
Fluoride	mg/kg	1.3	1.4	1.3	1.2	1.3	1.7	1.2	1.8	2.3	1.4	1.3	1.3	1.9	10	10	150	500
Chloride	mg/kg	14	< 10	< 10	12	< 10	14	< 10	20	11	< 10	< 10	< 10	< 10	800	2,400	15,000	25,000
Sulphate	mg/kg	34	< 10	< 10	17	< 10	19	< 10	< 10	39	< 10	13	19	14	1000*	3,000	20000*	50,000
DOC **	mg/kg	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	500	500	800	1,000
pH	pH units	7.2	7.6	7.8	7.9	8.1	8.0	8.3	8.0	7.4	7.7	7.6	7.4	7.1	NE	NE	NE	NE
TDS ***	mg/kg	1300	520	390	220	970	190	510	160	150	410	140	180	250	4,000	12,000	60,000	100,000
TOC	%	0.38	1.3	0.23	0.49	< 0.20	< 0.20	0.3	< 0.20	< 0.20	0.21	< 0.20	0.26	0.5	3	6	NE	6
Benzene	mg/kg	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	6	6	NE	NE
Toluene	mg/kg	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	6	6	NE	NE
Ethylbenzene	mg/kg	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	6	6	NE	NE
m/p-Xylene	mg/kg	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	6	6	NE	NE
o-Xylene	mg/kg	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	6	6	NE	NE
PCB Total of 7	mg/kg	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	1	1	NE	NE
Total 17 PAH's	mg/kg	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	NE	100	NE	NE
Mineral Oil	mg/kg	39	38	37	46	35	50	31	45	32	33	32	31	32	500	500	NE	NE
Asbestos	% mass	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NE	NE	NE	NE

NAD denotes No Asbestos Detected

* denotes sulphate level exceeding inert waste limit may be considered as complying if the TDS value does not exceed 6,000mg/kg at L/S = 10l/kg.

** denotes a higher limit may be accepted provided the DOC alternative values of 500mg/kg is achieved

*** denotes TDS. The values for TDS can be used to sulphate and chloride.

 PAH over 1mg/kg and Mineral Oil over 50 mg/kg exceeds limit at soil recovery site in Ireland

Table 2.3 WAC Results

Parameter	Unit	TP40	TP42	TP44	TP48	TP50	TP52	TP54	TP58	TP60	TP62	TP64	TP66	TP68	Inert Landfill	Inert Landfill Increased Limits	Non-Hazardous Landfill	Hazardous Landfill
Depth	m	1.50	1.00	0.50	1.90	0.50	1.70	1.00	1.50	2.00	0.50	1.00	0.50	1.80				
Antimony	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.06	0.18	0.7	5
Arsenic	mg/kg	0.016	0.0044	0.0052	0.0037	0.0044	0.0033	0.0040	<0.0020	0.0044	<0.0020	0.0048	<0.0020	0.0028	0.5	1.5	2	25
Barium	mg/kg	0.050	<0.050	<0.050	<0.050	0.15	0.064	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	20	20	100	300
Cadmium	mg/kg	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	0.04	0.04	1	5
Chromium	mg/kg	0.055	0.046	0.057	0.045	0.051	0.034	0.050	0.041	0.042	0.036	0.045	0.035	0.048	0.5	0.5	10	70
Copper	mg/kg	0.060	0.018	0.025	0.050	0.076	0.049	0.023	0.045	0.022	0.045	0.052	0.051	0.020	2	2	50	100
Lead	mg/kg	0.015	<0.0050	<0.0050	0.0068	0.015	<0.0050	<0.0050	<0.0050	<0.0050	0.0059	0.0080	<0.0050	<0.0050	0.5	0.5	10	50
Molybdenum	mg/kg	0.0035	0.0023	0.0029	0.0034	0.0024	0.0066	0.0022	0.0022	0.0034	0.0039	0.0039	0.0031	0.0053	0.5	1.5	10	30
Nickel	mg/kg	0.033	0.030	0.035	0.027	0.033	0.020	0.031	0.023	0.022	0.027	0.029	0.026	0.029	0.4	0.4	10	40
Selenium	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	0.0070	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0053	<0.0050	<0.0050	0.1	0.3	0.5	7
Zinc	mg/kg	0.048	<0.025	0.034	0.064	0.11	0.049	<0.025	0.085	<0.025	0.070	0.11	0.097	<0.025	4	4	50	200
Mercury	mg/kg	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.01	0.01	0.2	2
Phenol	mg/kg	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	1	1	NE	NE
Fluoride	mg/kg	1.3	1.0	1.2	1.1	2.0	1.1	<1.0	1.2	1.1	1.2	2.0	<1.0	1.4	10	10	150	500
Chloride	mg/kg	<10	<10	<10	11	14	<10	<10	<10	<10	11	<10	<10	<10	800	2,400	15,000	25,000
Sulphate	mg/kg	11	17	19	29	53	12	28	<10	<10	14	23	52	11	1000*	3,000	20000*	50,000
DOC **	mg/kg	<50	<50	<50	<50	52	<50	<50	<50	<50	<50	<50	<50	<50	500	500	800	1,000
pH	pH units	7.4	7.4	7.6	7.3	7.5	8.0	8.0	7.7	7.9	7.5	7.6	6.9	7.9	NE	NE	NE	NE
TDS ***	mg/kg	180	190	260	210	190	170	170	160	440	260	120	190	430	4,000	12,000	60,000	100,000
TOC	%	<0.20	<0.20	0.23	<0.20	0.25	<0.20	<0.20	<0.20	0.4	0.31	<0.20	0.91	<0.20	3	6	NE	6
Benzene	mg/kg	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	6	6	NE	NE
Toluene	mg/kg	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	6	6	NE	NE
Ethylbenzene	mg/kg	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	6	6	NE	NE
m/p-Xylene	mg/kg	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	6	6	NE	NE
o-Xylene	mg/kg	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	6	6	NE	NE
PCB Total of 7	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	1	1	NE	NE
Total 17 PAH's	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NE	100	NE	NE
Mineral Oil	mg/kg	28	46	30	43	43	28	31	28	420	34	31	44	31	500	500	NE	NE
Asbestos	% mass	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NE	NE	NE	NE

NAD denotes No Asbestos Detected

* denotes sulphate level exceeding inert waste limit may be considered as complying if the TDS value does not exceed 6,000mg/kg at L/S = 10l/kg.

** denotes a higher limit may be accepted provided the DOC alternative values of 500mg/kg is achieved

*** denotes TDS. The values for TDS can be used to sulphate and chloride.

 PAH over 1mg/kg and Mineral Oil over 50 mg/kg exceeds limit at soil recovery site in Ireland

Table 2.4 WAC Results

Parameter	Unit	TP70	TP72	TP74	TP76	TP78	TP82	TP86	BH3	BH7	BH1	BH14	BH15A	Inert Landfill	Inert Landfill Increased Limits	Non-Hazardous Landfill	Hazardous Landfill
Depth	m	1.50	0.50	1.20	0.50	1.50	1.70	1.40	0.50	2.00	2.00	0.50	1.00				
Antimony	mg/kg	<0.0050	<0.0050	<0.0050	0.0060	0.0057	<0.0050	<0.0050	0.0073	<0.0050	<0.0050	<0.0050	<0.0050	0.06	0.18	0.7	5
Arsenic	mg/kg	0.0040	0.0022	0.0049	0.0046	0.011	0.0044	0.0044	0.0044	0.011	0.011	0.015	0.0028	0.5	1.5	2	25
Barium	mg/kg	<0.050	<0.050	<0.050	0.12	<0.050	<0.050	0.063	<0.050	0.072	<0.050	0.068	<0.050	20	20	100	300
Cadmium	mg/kg	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	0.04	0.04	1	5
Chromium	mg/kg	0.047	0.044	0.044	0.046	0.060	0.056	0.057	0.033	0.064	0.035	0.062	0.069	0.5	0.5	10	70
Copper	mg/kg	0.024	0.051	0.017	0.066	0.055	0.017	0.024	0.015	0.018	0.031	0.044	0.016	2	2	50	100
Lead	mg/kg	<0.0050	0.0074	<0.0050	0.0082	0.013	<0.0050	0.0065	<0.0050	0.011	0.0074	0.017	<0.0050	0.5	0.5	10	50
Molybdenum	mg/kg	0.0066	0.0034	<0.0020	0.0037	0.0035	0.0030	0.0037	0.013	0.0044	0.015	0.0095	0.012	0.5	1.5	10	30
Nickel	mg/kg	0.027	0.029	0.029	0.031	0.039	0.031	0.039	0.022	0.035	0.024	0.047	0.062	0.4	0.4	10	40
Selenium	mg/kg	<0.0050	<0.0050	<0.0050	0.0094	0.0085	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.1	0.3	0.5	7
Zinc	mg/kg	0.032	0.040	<0.025	0.23	0.038	<0.025	0.044	0.052	0.15	0.057	0.12	0.049	4	4	50	200
Mercury	mg/kg	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.01	0.01	0.2	2
Phenol	mg/kg	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	1	1	NE	NE
Fluoride	mg/kg	1.7	<1.0	1.0	1.2	1.5	1.0	1.1	2.2	1.6	4.8	2.0	1.8	10	10	150	500
Chloride	mg/kg	<10	<10	<10	11	<10	<10	13	<10	<10	<10	12	<10	800	2,400	15,000	25,000
Sulphate	mg/kg	<10	22	31	30	16	19	16	25	31	14	15	15	1000*	3,000	20000*	50,000
DOC **	mg/kg	<50	<50	<50	<50	<50	<50	<50	<50	<50	190	130	<50	500	500	800	1,000
pH	pH units	8.2	6.8	6.7	6.6	6.4	6.4	8.5	8.0	7.6	8.1	7.4	8.2	NE	NE	NE	NE
TDS ***	mg/kg	430	170	170	170	190	190	220	470	160	520	220	410	4,000	12,000	60,000	100,000
TOC	%	<0.20	0.38	<0.20	0.24	0.3	<0.20	0.74	0.52	0.43	0.51	1.1	1.2	3	6	NE	6
Benzene	mg/kg	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	6	6	NE	NE
Toluene	mg/kg	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	6	6	NE	NE
Ethylbenzene	mg/kg	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	6	6	NE	NE
m/p-Xylene	mg/kg	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	6	6	NE	NE
o-Xylene	mg/kg	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	6	6	NE	NE
PCB Total of 7	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	1	1	NE	NE
Total 17 PAH's	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NE	100	NE	NE
Mineral Oil	mg/kg	27	33	<10	<10	<10	<10	<10	<10	<10	<10	11	11	500	500	NE	NE
Asbestos	% mass	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NAD	NE	NE	NE	NE

NAD denotes No Asbestos Detected

* denotes sulphate level exceeding inert waste limit may be considered as complying if the TDS value does not exceed 6,000mg/kg at L/S = 10l/kg.

** denotes a higher limit may be accepted provided the DOC alternative values of 500mg/kg is achieved

*** denotes TDS. The values for TDS can be used to sulphate and chloride.

 PAH over 1mg/kg and Mineral Oil over 50 mg/kg exceeds limit at soil recovery site in Ireland

2.4 Waste Management Options

The EPA has issued guidance on acceptance criteria for a range of parameters for soil recovery sites. This includes;

- Metals (solid conc. not leachability) in soil and stone (including As, Cd, Cr, Cu, Hg, Ni, Pb, Zn);
- Total organic carbon in soil and stone;
- Total BTEX (benzene, toluene, ethylbenzene, xylenes) in soil and stone;
- Mineral oil in soil and stone;
- Polycyclic aromatic hydrocarbons (PAHs) in soil and stone;
- Polychlorinated Biphenyls (PCBs) in soil and stone;
- Asbestos fibres in soil and stone.

The guidance requires that soils from brownfield sites should not exceed the limits for the parameters specified in Table 2.5 and 2.6. For metals limits have been specified for a range of soil types nationally separated into six domain areas.

Table 2.5 Soil Recovery Site Criteria

Parameter	Limit for Soil Recovery Sites
Total BTEX	0.05 mg/kg
Mineral Oil	50 mg/kg
Total PAHs	1 mg/kg
Total PCBs	0.05 mg/kg

The sample from TP60 (2.00m) exceeds the soil recovery criteria for Mineral Oil. This sample has therefore been classified as (B-1) suitable for Inert Landfill. All other samples, which classified as 17 05 04 and meet the inert WAC, meets the soil recovery criteria for Total PAH's, Mineral Oil, Total PCB's and Total BTEX.

The soil and stone cannot be sent to soil recovery sites if the trigger levels for a particular domain are exceeded. There is however some flexibility in applying the limits. A derogation applies where up to three parameters can exceed the limit for a sample provided the concentration in the samples is no more than 1.5 times the trigger level. The site which is subject to this investigation is located in Domain 2 and the trigger levels are listed in Table 2.6.

Table 2.6 Soil Recovery Trigger Levels

		Domain 5 Trigger Level	1.5 times Trigger Level
Arsenic	mg/kg	41.5	62.25
Cadmium	mg/kg	1.42	2.13
Chromium	mg/kg	73.2	109.8
Copper	mg/kg	77.6	116.4
Mercury	mg/kg	0.302	0.453
Nickel	mg/kg	65.7	98.55
Lead	mg/kg	109	163.5
Zinc	mg/kg	224	336

The samples from TP34 (0.50m) and BH15A (1.00m) exceed the soil recovery criteria for metal concentrations. The samples exceeds the 1.5 times trigger level for Nickel.

Waste management options are summarised on Table 2.5. All are subject to approval of the waste management facility operators. Class A material meets the soil recovery criteria. Class B-1 material is suitable for recovery/disposal to inert Landfill.

Table 2.5 Waste Management Options

Sample No.	Depth	LoW Code	Category	Sample No.	Depth	LoW Code	Category
TP2	0.50	17 05 04	A	TP54	1.00	17 05 04	A
TP4	1.40	17 05 04	A	TP58	1.50	17 05 04	A
TP12	1.40	17 05 04	A	TP60	2.00	17 05 04	B-1
TP14	0.50	17 05 04	A	TP62	0.50	17 05 04	A
TP16	0.50	17 05 04	A	TP64	1.00	17 05 04	A
TP18	1.20	17 05 04	A	TP66	0.50	17 05 04	A
TP22	1.60	17 05 04	A	TP68	1.80	17 05 04	A
TP24	1.80	17 05 04	A	TP70	1.50	17 05 04	A
TP26	0.50	17 05 04	A	TP72	0.50	17 05 04	A
TP28	2.10	17 05 04	A	TP74	1.20	17 05 04	A
TP30	1.20	17 05 04	A	TP76	0.50	17 05 04	A
TP34	0.50	17 05 04	B-1	TP78	1.50	17 05 04	A
TP38	0.50	17 05 04	A	TP82	1.70	17 05 04	A
TP40	1.50	17 05 04	A	TP86	1.40	17 05 04	A
TP42	1.00	17 05 04	A	BH3	0.50	17 05 04	A
TP44	0.50	17 05 04	A	BH7	2.00	17 05 04	A
TP48	1.90	17 05 04	A	BH1	2.00	17 05 04	A
TP50	0.50	17 05 04	A	BH14	0.50	17 05 04	A
TP52	1.70	17 05 04	A	BH15A	1.00	17 05 04	B-1

A	Meets Soil Recovery Criteria
B-1	Suitable for disposal/recovery to Inert Landfill

3 CONCLUSIONS AND RECOMMENDATIONS

3.1 Conclusions

3.1.1 *Waste Classification*

Asbestos was not detected in any of the samples tested.

All samples are classified as non-hazardous and the appropriate List of Waste Code is 17 05 04 (Soil and Stone other than those mentioned in 17 05 03*).

If the soils have to be removed from the site the recovery/disposal options are outlined in Section 2.4.

3.2 Recommendations

OCM recommend that a copy of this report be provided in full to the relevant waste management facilities to which the made ground and subsoils will be consigned to confirm its suitability for acceptance.

Appendix 1

Trial Pit and Borehole Logs



GEOTECHNICAL BORING RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

BOREHOLE NO. BH01

SHEET Sheet 1 of 1

CO-ORDINATES

RIG TYPE

Dando 2000

GROUND LEVEL (m AOD)

BOREHOLE DIAMETER (mm)

200

BOREHOLE DEPTH (m)

2.80

DATE COMMENCED 15/01/2025

DATE COMPLETED 15/01/2025

CLIENT Adwood Ltd

ENGINEER DBFL

SPT HAMMER REF. NO.

ENERGY RATIO (%)

BORED BY P.Allan

PROCESSED BY F.C

Depth (m)	Description	Legend	Elevation	Depth (m)	Samples				Field Test Results	Standpipe Details
					Ref. Number	Sample Type	Depth (m)	Recovery		
0	TOPSOIL			0.20						
	Stiff to very stiff brown sandy SILT/CLAY with some gravel				AA255611	B	0.50		N = 33 (6, 8, 8, 9, 6, 10)	
1					AA255612	B	1.00			
2					AA255613	B	2.00			
				2.80					N = 50 (11, 11, 18, 15, 12, 5)	
3	Obstruction End of Borehole at 2.80 m									
4									N = 50/75 mm (25, 50)	
5										
6										
7										
8										
9										

HARD STRATA BORING/CHISELLING

WATER STRIKE DETAILS

From (m)	To (m)	Time (h)	Comments	Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
0.6	0.8	1							No water strike
2.6	2.8	1.5							

GROUNDWATER PROGRESS

INSTALLATION DETAILS					Date	Hole Depth	Casing Depth	Depth to Water	Comments
Date	Tip Depth	RZ Top	RZ Base	Type					

REMARKS CAT scanned location and hand dug inspection pit was carried out .

Sample Legend

D - Small Disturbed (tub)

B - Bulk Disturbed

LB - Large Bulk Disturbed

Env - Environmental Sample (Jar + Vial + Tub)

UT - Undisturbed 100mm Diameter

Sample

P - Undisturbed Piston Sample

W - Water Sample



GEOTECHNICAL BORING RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth				BOREHOLE NO. BH02	
CO-ORDINATES		RIG TYPE Dando 2000		SHEET Sheet 1 of 1	
GROUND LEVEL (m AOD)		BOREHOLE DIAMETER (mm) 200		DATE COMMENCED 15/01/2025	
		BOREHOLE DEPTH (m) 2.80		DATE COMPLETED 15/01/2025	
CLIENT Adwood Ltd		SPT HAMMER REF. NO.		BORED BY P.Allan	
ENGINEER DBFL		ENERGY RATIO (%)		PROCESSED BY F.C	

Depth (m)	Description	Legend	Elevation	Depth (m)	Samples				Field Test Results	Standpipe Details
					Ref. Number	Sample Type	Depth (m)	Recovery		
0	TOPSOIL			0.20						
	Brown sandy SILT/CLAY			0.80	AA233609	B	0.50			
1	Stiff to very stiff brown sandy gravelly SILT/CLAY with occasional cobbles				AA233610	B	1.00		N = 25 (2, 2, 3, 6, 8, 8)	
2					AA233611	B	2.00		N = 27 (3, 7, 5, 5, 8, 9)	
3	Obstruction End of Borehole at 2.80 m			2.80					N = 50/75 mm (25, 50)	
4										
5										
6										
7										
8										
9										

HARD STRATA BORING/CHISELLING				WATER STRIKE DETAILS					
From (m)	To (m)	Time (h)	Comments	Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
2.6	2.8	1.5							No water strike
INSTALLATION DETAILS				GROUNDWATER PROGRESS					
Date	Tip Depth	RZ Top	RZ Base	Type	Date	Hole Depth	Casing Depth	Depth to Water	Comments
REMARKS CAT scanned location and hand dug inspection pit was carried out .				Sample Legend					
				D - Small Disturbed (tub) B - Bulk Disturbed LB - Large Bulk Disturbed Env - Environmental Sample (Jar + Vial + Tub) UT - Undisturbed 100mm Diameter Sample P - Undisturbed Piston Sample W - Water Sample					

IGSL BH LOG 25758.GPJ IGSL.GDT 21/1/25



GEOTECHNICAL BORING RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth				BOREHOLE NO. BH03	
CO-ORDINATES		RIG TYPE Dando 2000		SHEET Sheet 1 of 1	
GROUND LEVEL (m AOD)		BOREHOLE DIAMETER (mm) 200		DATE COMMENCED 07/01/2025	
		BOREHOLE DEPTH (m) 2.90		DATE COMPLETED 07/01/2025	
CLIENT Adwood Ltd		SPT HAMMER REF. NO.		BORED BY P.Allan	
ENGINEER DBFL		ENERGY RATIO (%)		PROCESSED BY F.C	

Depth (m)	Description	Legend	Elevation	Depth (m)	Samples				Field Test Results	Standpipe Details
					Ref. Number	Sample Type	Depth (m)	Recovery		
0	TOPSOIL			0.30						
	Stiff brown sandy SILT/CLAY with occasional gravel				AA241990	B	0.50			
1				1.00	AA241991	B	1.00		N = 22 (2, 3, 6, 6, 4, 6)	
2	Stiff to very stiff brown sandy gravelly CLAY with occasional cobbles				AA241992	B	2.00		N = 26 (4, 5, 6, 4, 6, 10)	
3	Obstruction End of Borehole at 2.90 m			2.90					N = 50/225 mm (13, 13, 16, 20, 14)	
4										
5										
6										
7										
8										
9										

HARD STRATA BORING/CHISELLING					WATER STRIKE DETAILS					
From (m)	To (m)	Time (h)	Comments		Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
1.7	1.8	1			2.50	2.50	No	1.80	20	Slow
2.6	2.9	1.5								
					GROUNDWATER PROGRESS					
INSTALLATION DETAILS					Date	Hole Depth	Casing Depth	Depth to Water	Comments	
Date	Tip Depth	RZ Top	RZ Base	Type						
REMARKS	CAT scanned location and hand dug inspection pit was carried out .					Sample Legend D - Small Disturbed (tub) B - Bulk Disturbed LB - Large Bulk Disturbed Env - Environmental Sample (Jar + Vial + Tub) UT - Undisturbed 100mm Diameter Sample P - Undisturbed Piston Sample W - Water Sample				

IGSL BH LOG 25758.GPJ IGSL.GDT 21/1/25



GEOTECHNICAL BORING RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

BOREHOLE NO. BH04

SHEET Sheet 1 of 1

CO-ORDINATES

RIG TYPE

Dando 2000

GROUND LEVEL (m AOD)

BOREHOLE DIAMETER (mm)

200

BOREHOLE DEPTH (m)

3.70

DATE COMMENCED 07/01/2025

DATE COMPLETED 08/01/2025

CLIENT Adwood Ltd

ENGINEER DBFL

SPT HAMMER REF. NO.

ENERGY RATIO (%)

BORED BY P.Allan

PROCESSED BY F.C

Depth (m)	Description	Legend	Elevation	Depth (m)	Samples				Field Test Results	Standpipe Details
					Ref. Number	Sample Type	Depth (m)	Recovery		
0	TOPSOIL			0.30						
	Soft brown sandy SILT/CLAY with occasional gravel				AA241993	B	0.50			
1	Stiff to very stiff brown sandy gravelly CLAY with occasional cobbles			1.00	AA241994	B	1.00		N = 10 (2, 2, 3, 2, 2, 3)	
2									N = 26 (2, 3, 5, 5, 8, 8)	
					AA241995	U B	2.00 2.00			
3									N = 50/150 mm (10, 15, 25, 25)	
4	Obstruction End of Borehole at 3.70 m			3.70					N = 50/75 mm (25, 50)	
5										
6										
7										
8										
9										

HARD STRATA BORING/CHISELLING

WATER STRIKE DETAILS

From (m)	To (m)	Time (h)	Comments	Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
2.8	3	1		3.70	3.70	No	3.50	20	Slow
3.5	3.7	1.5							

GROUNDWATER PROGRESS

INSTALLATION DETAILS					Date	Hole Depth	Casing Depth	Depth to Water	Comments
Date	Tip Depth	RZ Top	RZ Base	Type					

REMARKS CAT scanned location and hand dug inspection pit was carried out .

Sample Legend

D - Small Disturbed (tub)

B - Bulk Disturbed

LB - Large Bulk Disturbed

Env - Environmental Sample (Jar + Vial + Tub)

UT - Undisturbed 100mm Diameter

Sample

P - Undisturbed Piston Sample

W - Water Sample



GEOTECHNICAL BORING RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

BOREHOLE NO. BH06

SHEET Sheet 1 of 1

CO-ORDINATES

RIG TYPE

Dando 2000

GROUND LEVEL (m AOD)

BOREHOLE DIAMETER (mm)

200

BOREHOLE DEPTH (m)

1.20

DATE COMMENCED 16/01/2025

DATE COMPLETED 16/01/2025

CLIENT Adwood Ltd

ENGINEER DBFL

SPT HAMMER REF. NO.

ENERGY RATIO (%)

BORED BY P.Allan

PROCESSED BY F.C

Depth (m)	Description	Legend	Elevation	Depth (m)	Samples				Field Test Results	Standpipe Details
					Ref. Number	Sample Type	Depth (m)	Recovery		
0	TOPSOIL			0.30						
	Very stiff brown sandy SILT/CLAY with gravel and occasional cobbles									
1				1.20	AA233614	B	1.00		N = 50/75 mm (25, 25, 50) N = 50/75 mm (25, 50)	
	Obstruction End of Borehole at 1.20 m									
2										
3										
4										
5										
6										
7										
8										
9										

HARD STRATA BORING/CHISELLING

WATER STRIKE DETAILS

From (m)	To (m)	Time (h)	Comments	Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
1	1.2	1							No water strike

GROUNDWATER PROGRESS

INSTALLATION DETAILS					Date	Hole Depth	Casing Depth	Depth to Water	Comments
Date	Tip Depth	RZ Top	RZ Base	Type					

REMARKS CAT scanned location and hand dug inspection pit was carried out . Obstruction encountered . Moved to BH06A and attempted rebore.

Sample Legend

D - Small Disturbed (tub)

B - Bulk Disturbed

LB - Large Bulk Disturbed

Env - Environmental Sample (Jar + Vial + Tub)

UT - Undisturbed 100mm Diameter

Sample

P - Undisturbed Piston Sample

W - Water Sample



GEOTECHNICAL BORING RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

BOREHOLE NO. BH06A

SHEET Sheet 1 of 1

CO-ORDINATES

RIG TYPE

Dando 2000

GROUND LEVEL (m AOD)

BOREHOLE DIAMETER (mm)

200

BOREHOLE DEPTH (m)

1.50

DATE COMMENCED 16/01/2025

DATE COMPLETED 16/01/2025

CLIENT Adwood Ltd

ENGINEER DBFL

SPT HAMMER REF. NO.

ENERGY RATIO (%)

BORED BY P.Allan

PROCESSED BY F.C

Depth (m)	Description	Legend	Elevation	Depth (m)	Samples				Field Test Results	Standpipe Details
					Ref. Number	Sample Type	Depth (m)	Recovery		
0	TOPSOIL			0.30	AA233615	B	1.00		N = 50/75 mm (25, 50)	
	Very stiff brown sandy SILT/CLAY with gravel and occasional cobbles									
1				1.50						
	Obstruction End of Borehole at 1.50 m									
2										
3										
4										
5										
6										
7										
8										
9										

HARD STRATA BORING/CHISELLING

WATER STRIKE DETAILS

From (m)	To (m)	Time (h)	Comments	Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
1.3	1.5	1							No water strike

GROUNDWATER PROGRESS

INSTALLATION DETAILS					Date	Hole Depth	Casing Depth	Depth to Water	Comments
Date	Tip Depth	RZ Top	RZ Base	Type					

REMARKS CAT scanned location and hand dug inspection pit was carried out .

Sample Legend

D - Small Disturbed (tub)

B - Bulk Disturbed

LB - Large Bulk Disturbed

Env - Environmental Sample (Jar + Vial + Tub)

UT - Undisturbed 100mm Diameter Sample

P - Undisturbed Piston Sample

W - Water Sample



GEOTECHNICAL BORING RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

BOREHOLE NO. BH07

SHEET Sheet 1 of 1

CO-ORDINATES

RIG TYPE

Dando 2000

GROUND LEVEL (m AOD)

BOREHOLE DIAMETER (mm)

200

BOREHOLE DEPTH (m)

3.70

DATE COMMENCED 08/01/2025

DATE COMPLETED 08/01/2025

CLIENT Adwood Ltd

ENGINEER DBFL

SPT HAMMER REF. NO.

ENERGY RATIO (%)

BORED BY P.Allan

PROCESSED BY F.C

Depth (m)	Description	Legend	Elevation	Depth (m)	Samples				Field Test Results	Standpipe Details
					Ref. Number	Sample Type	Depth (m)	Recovery		
0	TOPSOIL			0.30						
	Soft to firm brown sandy SILT/CLAY with occasional gravel				AA244190	B	0.50			
1				1.20	AA244191	B	1.00		N = 10 (1, 2, 1, 5, 2, 2)	
	Stiff to very stiff brown sandy gravelly CLAY with occasional cobbles				Fail	U	1.00			
2					AA244192	B	2.00		N = 25 (2, 3, 3, 6, 8, 8)	
3									N = 50/150 mm (7, 10, 22, 28)	
4	Obstruction End of Borehole at 3.70 m			3.70					N = 50/75 mm (25, 50)	
5										
6										
7										
8										
9										

HARD STRATA BORING/CHISELLING

WATER STRIKE DETAILS

From (m)	To (m)	Time (h)	Comments	Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
2.7	2.9	0.75							
3.5	3.7	1.5							No water strike

GROUNDWATER PROGRESS

INSTALLATION DETAILS					Date	Hole Depth	Casing Depth	Depth to Water	Comments
Date	Tip Depth	RZ Top	RZ Base	Type					

REMARKS CAT scanned location and hand dug inspection pit was carried out .

Sample Legend

D - Small Disturbed (tub)

B - Bulk Disturbed

LB - Large Bulk Disturbed

Env - Environmental Sample (Jar + Vial + Tub)

UT - Undisturbed 100mm Diameter

Sample

P - Undisturbed Piston Sample

W - Water Sample



GEOTECHNICAL BORING RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

BOREHOLE NO. BH08

SHEET Sheet 1 of 1

CO-ORDINATES

RIG TYPE

Dando 2000

GROUND LEVEL (m AOD)

BOREHOLE DIAMETER (mm)

200

BOREHOLE DEPTH (m)

3.20

DATE COMMENCED 08/01/2025

DATE COMPLETED 09/01/2025

CLIENT Adwood Ltd

ENGINEER DBFL

SPT HAMMER REF. NO.

ENERGY RATIO (%)

BORED BY P.Allan

PROCESSED BY F.C

Depth (m)	Description	Legend	Elevation	Depth (m)	Samples				Field Test Results	Standpipe Details
					Ref. Number	Sample Type	Depth (m)	Recovery		
0	TOPSOIL			0.30						
	Soft to firm brown sandy SILT/CLAY with occasional gravel				AA244193	B	0.50			
1				1.30	AA244194	B	1.00		N = 22 (3, 6, 5, 4, 6, 7)	
	Stiff to very stiff brown sandy gravelly CLAY with occasional cobbles				AA244195	B	2.00		N = 33 (5, 7, 8, 10, 7, 8)	
2										
3	Obstruction End of Borehole at 3.20 m			3.20					N = 50/150 mm (20, 5, 40, 10) N = 50/75 mm (25, 50)	
4										
5										
6										
7										
8										
9										

HARD STRATA BORING/CHISELLING

WATER STRIKE DETAILS

From (m)	To (m)	Time (h)	Comments	Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
3	3.2	1.5		2.00	2.00	No	1.00	20	Moderate

GROUNDWATER PROGRESS

INSTALLATION DETAILS					Date	Hole Depth	Casing Depth	Depth to Water	Comments
Date	Tip Depth	RZ Top	RZ Base	Type					
09-01-25	3.20	1.00	3.20	50mm SP					

REMARKS CAT scanned location and hand dug inspection pit was carried out .

Sample Legend

D - Small Disturbed (tub)

B - Bulk Disturbed

LB - Large Bulk Disturbed

Env - Environmental Sample (Jar + Vial + Tub)

UT - Undisturbed 100mm Diameter

Sample

P - Undisturbed Piston Sample

W - Water Sample



GEOTECHNICAL BORING RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth				BOREHOLE NO. BH09	
CO-ORDINATES				SHEET Sheet 1 of 1	
GROUND LEVEL (m AOD)				DATE COMMENCED 09/01/2025	
RIG TYPE Dando 2000				DATE COMPLETED 09/01/2025	
BOREHOLE DIAMETER (mm) 200					
BOREHOLE DEPTH (m) 4.70					
CLIENT Adwood Ltd				BORED BY P.Allan	
ENGINEER DBFL				PROCESSED BY F.C	
SPT HAMMER REF. NO.					
ENERGY RATIO (%)					

Depth (m)	Description	Legend	Elevation	Depth (m)	Samples				Field Test Results	Standpipe Details
					Ref. Number	Sample Type	Depth (m)	Recovery		
0	TOPSOIL			0.20						
	Stiff brown sandy SILT/CLAY				AA244196	B	0.50			
1				1.20	AA244197	B	1.00		N = 7 (1, 1, 2, 1, 2, 2)	
	Soft to firm brown sandy SILT/CLAY with some gravel				AA244198	B	2.00		N = 4 (1, 0, 1, 1, 0, 2)	
2					AA244199	B	3.00		N = 20 (3, 2, 1, 1, 8, 10)	
3				3.30						
	Stiff to very stiff brown sandy gravelly CLAY with occasional cobbles				AA244200	B	4.00		N = 50/225 mm (8, 12, 15, 20, 15)	
4				4.70					N = 50/75 mm (25, 50)	
5	Obstruction End of Borehole at 4.70 m									
6										
7										
8										
9										

HARD STRATA BORING/CHISELLING					WATER STRIKE DETAILS					
From (m)	To (m)	Time (h)	Comments		Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
3.5	3.8	1			3.70	3.70	No	3.40	20	Slow
4.5	4.7	1.5								
					GROUNDWATER PROGRESS					
INSTALLATION DETAILS					Date	Hole Depth	Casing Depth	Depth to Water	Comments	
Date	Tip Depth	RZ Top	RZ Base	Type						
REMARKS	CAT scanned location and hand dug inspection pit was carried out .					Sample Legend D - Small Disturbed (tub) B - Bulk Disturbed LB - Large Bulk Disturbed Env - Environmental Sample (Jar + Vial + Tub) UT - Undisturbed 100mm Diameter Sample P - Undisturbed Piston Sample W - Water Sample				

IGSL BH LOG 25758.GPJ IGSL.GDT 21/1/25



GEOTECHNICAL BORING RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

BOREHOLE NO. BH12

SHEET Sheet 1 of 1

CO-ORDINATES

RIG TYPE

Dando 2000

GROUND LEVEL (m AOD)

BOREHOLE DIAMETER (mm)

200

BOREHOLE DEPTH (m)

3.80

DATE COMMENCED 14/01/2025

DATE COMPLETED 14/01/2025

CLIENT Adwood Ltd

ENGINEER DBFL

SPT HAMMER REF. NO.

ENERGY RATIO (%)

BORED BY P.Allan

PROCESSED BY F.C

Depth (m)	Description	Legend	Elevation	Depth (m)	Samples				Field Test Results	Standpipe Details
					Ref. Number	Sample Type	Depth (m)	Recovery		
0	TOPSOIL			0.20						
	Soft brown sandy SILT/CLAY				AA233604	B	0.50			
1				1.20	AA233605	B	1.00		N = 6 (1, 0, 1, 1, 2, 2)	
	Stiff to very stiff brown sandy SILT/CLAY with gravel and occasional cobbles									
2					AA233606	U B	2.00 2.00	100%rec	N = 31 (2, 3, 10, 11, 4, 6)	
3					AA233607	B	3.00		N = 49 (6, 8, 9, 10, 15, 15)	
4	Obstruction End of Borehole at 3.80 m			3.80					N = 50/75 mm (25, 50)	
5										
6										
7										
8										
9										

HARD STRATA BORING/CHISELLING

WATER STRIKE DETAILS

From (m)	To (m)	Time (h)	Comments	Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
3.6	3.8	1.5							No water strike

GROUNDWATER PROGRESS

INSTALLATION DETAILS

Date	Tip Depth	RZ Top	RZ Base	Type	Date	Hole Depth	Casing Depth	Depth to Water	Comments

REMARKS CAT scanned location and hand dug inspection pit was carried out .

Sample Legend

D - Small Disturbed (tub)

B - Bulk Disturbed

LB - Large Bulk Disturbed

Env - Environmental Sample (Jar + Vial + Tub)

UT - Undisturbed 100mm Diameter

Sample

P - Undisturbed Piston Sample

W - Water Sample



GEOTECHNICAL BORING RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

BOREHOLE NO. BH14

SHEET Sheet 1 of 1

CO-ORDINATES

RIG TYPE

Dando 2000

GROUND LEVEL (m AOD)

BOREHOLE DIAMETER (mm)

200

BOREHOLE DEPTH (m)

3.80

DATE COMMENCED 09/01/2025

DATE COMPLETED 10/01/2025

CLIENT Adwood Ltd

ENGINEER DBFL

SPT HAMMER REF. NO.

ENERGY RATIO (%)

BORED BY P.Allan

PROCESSED BY F.C

Depth (m)	Description	Legend	Elevation	Depth (m)	Samples				Field Test Results	Standpipe Details
					Ref. Number	Sample Type	Depth (m)	Recovery		
0	TOPSOIL			0.30						
	Soft brown sandy SILT/CLAY				AA244196	B	0.50			
1					AA244197	B	1.00		N = 6 (1, 0, 1, 1, 2, 2)	
	Stiff to very stiff brown sandy SILT/CLAY with gravel and occasional cobbles			1.40						
2					AA244198	B	2.00		N = 28 (3, 6, 8, 10, 4, 6)	
3				3.00	AA244199	B	3.00		N = 23 (2, 3, 5, 6, 6, 6)	
4	Obstruction End of Borehole at 3.80 m								N = 50/75 mm (25, 50)	
5										
6										
7										
8										
9										

HARD STRATA BORING/CHISELLING

WATER STRIKE DETAILS

From (m)	To (m)	Time (h)	Comments	Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
2.9	3	0.75		3.40	3.40	No	2.50	20	Moderate
3.6	3.8	1.5							

GROUNDWATER PROGRESS

INSTALLATION DETAILS

Date	Tip Depth	RZ Top	RZ Base	Type	Date	Hole Depth	Casing Depth	Depth to Water	Comments
					10-01-24	3.80	Nil	2.50	End of BH

REMARKS CAT scanned location and hand dug inspection pit was carried out .

Sample Legend

D - Small Disturbed (tub)

B - Bulk Disturbed

LB - Large Bulk Disturbed

Env - Environmental Sample (Jar + Vial + Tub)

UT - Undisturbed 100mm Diameter

Sample

P - Undisturbed Piston Sample

W - Water Sample



GEOTECHNICAL BORING RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth				BOREHOLE NO. BH15	
CO-ORDINATES				SHEET Sheet 1 of 1	
GROUND LEVEL (m AOD)				DATE COMMENCED 10/01/2025	
RIG TYPE Dando 2000				DATE COMPLETED 10/01/2025	
BOREHOLE DIAMETER (mm) 200					
BOREHOLE DEPTH (m) 0.80					
CLIENT Adwood Ltd				BORED BY P.Allan	
ENGINEER DBFL				PROCESSED BY F.C	
SPT HAMMER REF. NO.					
ENERGY RATIO (%)					

Depth (m)	Description	Legend	Elevation	Depth (m)	Samples				Field Test Results	Standpipe Details
					Ref. Number	Sample Type	Depth (m)	Recovery		
0	TOPSOIL			0.30	AA241709	B	0.50		N = 50/75 mm (25, 50)	
	Very stiff brown sandy gravelly SILT/CLAY with occasional cobbles			0.80						
1	Obstruction End of Borehole at 0.80 m									
2										
3										
4										
5										
6										
7										
8										
9										

HARD STRATA BORING/CHISELLING					WATER STRIKE DETAILS						
From (m)	To (m)	Time (h)	Comments		Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments	
0.8	0.8	1								No water strike	
INSTALLATION DETAILS					GROUNDWATER PROGRESS						
Date	Tip Depth	RZ Top	RZ Base	Type	Date	Hole Depth	Casing Depth	Depth to Water	Comments		
REMARKS CAT scanned location and hand dug inspection pit was carried out . Obstruction encountered . Moved to BH15A and attempted rebore.						Sample Legend D - Small Disturbed (tub) B - Bulk Disturbed LB - Large Bulk Disturbed Env - Environmental Sample (Jar + Vial + Tub) UT - Undisturbed 100mm Diameter Sample P - Undisturbed Piston Sample W - Water Sample					

IGSL BH LOG 25758.GPJ IGSL.GDT 21/1/25



GEOTECHNICAL BORING RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

BOREHOLE NO. BH15A

SHEET Sheet 1 of 1

CO-ORDINATES

RIG TYPE

Dando 2000

GROUND LEVEL (m AOD)

BOREHOLE DIAMETER (mm)

200

BOREHOLE DEPTH (m)

3.30

DATE COMMENCED 13/01/2025

DATE COMPLETED 13/01/2025

CLIENT Adwood Ltd

SPT HAMMER REF. NO.

BORED BY P.Allan

ENGINEER DBFL

ENERGY RATIO (%)

PROCESSED BY

F.C

Depth (m)	Description	Legend	Elevation	Depth (m)	Samples				Field Test Results	Standpipe Details
					Ref. Number	Sample Type	Depth (m)	Recovery		
0	TOPSOIL			0.30						
	Stiff to very stiff brown sandy gravelly SILT/CLAY with occasional cobbles				AA233601	B	0.50		N = 50/150 mm (6, 8, 20, 30) N = 26 (2, 3, 4, 6, 8, 8) N = 50/150 mm (8, 12, 20, 30) N = 50/75 mm (25, 50)	
1					AA233602	B	1.00			
2					AA233603	B	2.00			
3					AA233604	B	3.00			
	Obstruction End of Borehole at 3.30 m			3.50						
4										
5										
6										
7										
8										
9										

HARD STRATA BORING/CHISELLING

WATER STRIKE DETAILS

From (m)	To (m)	Time (h)	Comments	Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
1.2	1.4	1							No water strike
3	3.3	1.5							

GROUNDWATER PROGRESS

INSTALLATION DETAILS					Date	Hole Depth	Casing Depth	Depth to Water	Comments
Date	Tip Depth	RZ Top	RZ Base	Type					

REMARKS CAT scanned location and hand dug inspection pit was carried out .

Sample Legend

D - Small Disturbed (tub)
B - Bulk Disturbed
LB - Large Bulk Disturbed
Env - Environmental Sample (Jar + Vial + Tub)

UT - Undisturbed 100mm Diameter Sample
P - Undisturbed Piston Sample
W - Water Sample

IGSL BH LOG 25758.GPJ IGSL.GDT 21/1/25



GEOTECHNICAL BORING RECORD

REPORT NUMBER

25758

CONTRACT Mount Avenue , Dundalk Co.Louth

BOREHOLE NO. BH16

SHEET Sheet 1 of 1

CO-ORDINATES

RIG TYPE

Dando 2000

GROUND LEVEL (m AOD)

BOREHOLE DIAMETER (mm)

200

BOREHOLE DEPTH (m)

1.40

DATE COMMENCED 13/01/2025

DATE COMPLETED 13/01/2025

CLIENT Adwood Ltd

ENGINEER DBFL

SPT HAMMER REF. NO.

ENERGY RATIO (%)

BORED BY P.Allan

PROCESSED BY F.C

Depth (m)	Description	Legend	Elevation	Depth (m)	Samples				Field Test Results	Standpipe Details
					Ref. Number	Sample Type	Depth (m)	Recovery		
0	TOPSOIL			0.20						
	Very stiff brown sandy gravelly SILT/CLAY with occaional cobbles				AA233605	B	0.50			
1					AA233606	B	1.00			
	Obstruction End of Borehole at 1.40 m			1.40					N = 50/75 mm (25, 50)	
2										
3										
4										
5										
6										
7										
8										
9										

HARD STRATA BORING/CHISELLING

WATER STRIKE DETAILS

From (m)	To (m)	Time (h)	Comments	Water Strike	Casing Depth	Sealed At	Rise To	Time (min)	Comments
1.2	1.4	1							No water strike

GROUNDWATER PROGRESS

INSTALLATION DETAILS					Date	Hole Depth	Casing Depth	Depth to Water	Comments
Date	Tip Depth	RZ Top	RZ Base	Type					

REMARKS CAT scanned location and hand dug inspection pit was carried out .

Sample Legend

D - Small Disturbed (tub)

B - Bulk Disturbed

LB - Large Bulk Disturbed

Env - Environmental Sample (Jar + Vial + Tub)

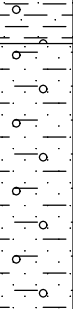
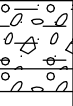
UT - Undisturbed 100mm Diameter

Sample

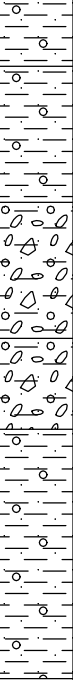
P - Undisturbed Piston Sample

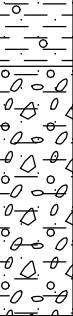
W - Water Sample

		TRIAL PIT RECORD						REPORT NUMBER 25758		
CONTRACT Mt. Avenue						TRIAL PIT NO. TP01 SHEET Sheet 1 of 1				
LOGGED BY Patrick Ryan			CO-ORDINATES GROUND LEVEL (m)			DATE STARTED 06/12/2024 DATE COMPLETED 06/12/2024				
CLIENT ENGINEER DBFL Consulting Engineers						EXCAVATION METHOD				
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly sandy gravelly CLAY. Gravels are subangular to subrounded fine to coarse.		0.20			AA245752	B	0.50-0.60		
1.0	Stiff brown slightly sandy slightly gravelly CLAY with low cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		1.50			AA245753	B	1.70-1.80		
2.0	Medium dense brown slightly clayey sandy GRAVEL with medium cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		2.30			AA245754	B	2.50-2.60		
3.0	End of Trial Pit at 3.00m		3.00		 (Rapid)					
4.0										
Groundwater Conditions Incursion at 2.80m										
Stability Slight to moderate instability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location.										

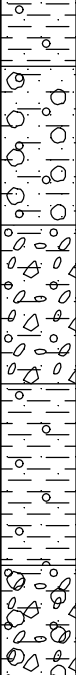
		TRIAL PIT RECORD						REPORT NUMBER 25758			
CONTRACT Mt. Avenue							TRIAL PIT NO. TP02 SHEET Sheet 1 of 1				
LOGGED BY Patrick Ryan				CO-ORDINATES GROUND LEVEL (m)			DATE STARTED 06/12/2024 DATE COMPLETED 06/12/2024				
CLIENT ENGINEER DBFL Consulting Engineers							EXCAVATION METHOD				
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)	
						Sample Ref	Type	Depth			
0.0	Firm grey slightly sandy gravelly CLAY. Gravels are subangular to subrounded fine to coarse. Medium dense brown clayey gravelly SAND with medium cobble content and medium boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		0.20				AA245755	B	0.50-0.60		
1.0			1.40								
			1.70								
2.0	Medium dense grey slightly clayey sandy GRAVEL with medium cobble content and medium boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse. Medium dense grey GRAVEL with medium cobble content and medium boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse. End of Trial Pit at 1.80m		1.80				AA245756	B	1.50-1.60		
3.0											
4.0											
Groundwater Conditions Incursion at 1.80m											
Stability Slight to moderate instability											
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated at 1.8m on refusal of weathered greywacke rockhead.											

IGSL TP LOG 25758.GPJ IGSL GDT 23/1/25

		TRIAL PIT RECORD						REPORT NUMBER 25758		
CONTRACT Mt. Avenue							TRIAL PIT NO. TP03 SHEET Sheet 1 of 1			
LOGGED BY Patrick Ryan				CO-ORDINATES GROUND LEVEL (m)			DATE STARTED 11/12/2024 DATE COMPLETED 11/12/2024			
CLIENT ENGINEER DBFL Consulting Engineers							EXCAVATION METHOD			
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly sandy gravelly CLAY. Gravels are subangular to subrounded fine to coarse.		0.30			AA236754	B	0.50-0.60		
	Stiff brown slightly gravelly sandy CLAY with low cobble content and low boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		0.90			AA236755	B	1.00-1.10		
1.0	Medium dense brown clayey sandy GRAVEL with low cobble content and low boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		1.50							
	Medium dense brown clayey sandy GRAVEL with medium cobble content subangular to subrounded and low boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		1.90							
2.0	Firm brown slightly sandy gravelly CLAY with medium cobble content subangular to subrounded and low boulder content subangular to rounded. Gravels are subangular to subrounded fine to coarse.		3.00			AA236756	B	2.10-2.20		
3.0	End of Trial Pit at 3.00m									
4.0										
Groundwater Conditions										
Stability Slight instability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location.										

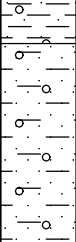
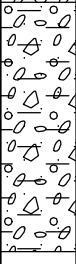
		TRIAL PIT RECORD						REPORT NUMBER 25758		
CONTRACT Mt. Avenue							TRIAL PIT NO. TP04			
LOGGED BY Patrick Ryan				CO-ORDINATES GROUND LEVEL (m)			SHEET Sheet 1 of 1			
CLIENT ENGINEER DBFL Consulting Engineers							DATE STARTED 11/12/2024 DATE COMPLETED 11/12/2024			
							EXCAVATION METHOD			
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly sandy gravelly CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse. Medium dense brown sandy clayey GRAVEL with medium cobble content subangular to subrounded and low boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		0.30		 (Rapid)	AA236855	B	0.50-0.60		
1.0			1.40			AA236856	B	1.40-1.40		
End of Trial Pit at 1.40m										
2.0										
3.0										
4.0										
Groundwater Conditions Incursion at 0.6m										
Stability Slight to moderate instability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated at 1.40m due to rapid GW strike.										

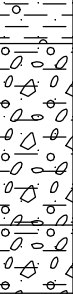
		TRIAL PIT RECORD						REPORT NUMBER 25758		
CONTRACT Mt. Avenue						TRIAL PIT NO. TP05				
LOGGED BY Patrick Ryan						SHEET Sheet 1 of 1				
						DATE STARTED 10/12/2024				
CLIENT ENGINEER DBFL Consulting Engineers						DATE COMPLETED 10/12/2024				
						EXCAVATION METHOD				
Geotechnical Description		Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly sandy gravelly CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		0.30			AA236751	B	0.50-0.60		
1.0	Medium dense brown clayey sandy GRAVEL with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		1.40			AA236752	B	1.60-1.70		
2.0	Stiff grey sandy gravelly CLAY with low cobble content subangular to subrounded and low boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		2.50			AA236753	B	2.80-2.90		
3.0	Medium dense grey clayey sandy GRAVEL with low cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		3.00							
	End of Trial Pit at 3.00m									
4.0										
Groundwater Conditions										
Stability Slight instability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location.										

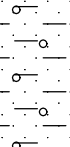
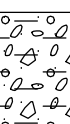
		TRIAL PIT RECORD						REPORT NUMBER 25758		
CONTRACT Mt. Avenue							TRIAL PIT NO. TP06 SHEET Sheet 1 of 1			
LOGGED BY Patrick Ryan				CO-ORDINATES GROUND LEVEL (m)			DATE STARTED 11/12/2024 DATE COMPLETED 11/12/2024			
CLIENT ENGINEER DBFL Consulting Engineers							EXCAVATION METHOD			
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly sandy gravelly CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		0.30			AA236851	B	0.50-0.60		
	Medium dense gravelly clayey SAND with medium cobble content subangular to subrounded and low boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		1.00			AA236852	B	1.10-1.20		
1.0	Medium dense grey sandy clayey GRAVEL with medium cobble content subangular to subrounded and low boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		1.70			AA236853	B	1.80-1.90		
2.0	Stiff brown slightly sandy gravelly CLAY with medium cobble content subangular to subrounded and low boulder content subangular to rounded. Gravels are subangular to subrounded fine to coarse.		2.50			AA236854	B	2.60-2.70		
3.0	End of Trial Pit at 3.00m		3.00							
4.0										
Groundwater Conditions										
Stability Slight to moderate instability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location.										

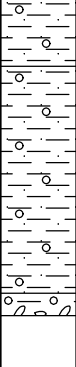
		TRIAL PIT RECORD						REPORT NUMBER 25758		
CONTRACT Mt. Avenue							TRIAL PIT NO. TP07 SHEET Sheet 1 of 1			
LOGGED BY Patrick Ryan				CO-ORDINATES GROUND LEVEL (m)			DATE STARTED 10/12/2024 DATE COMPLETED 10/12/2024			
CLIENT ENGINEER DBFL Consulting Engineers							EXCAVATION METHOD			
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly sandy gravelly CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		0.30			AA245796	B	0.50-0.60		
	Medium dense brown gravelly clayey SAND with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		0.90							
1.0	Medium dense grey clayey sandy GRAVEL with medium cobble content subangular to subrounded and medium boulder content subrounded. Gravels are subangular to subrounded fine to coarse.					AA245797	B	1.10-1.20		
2.0										
			2.60			AA245798	B	2.40-2.50		
	Tightly packed BOULDERS subangular to subrounded.		2.70							
3.0	End of Trial Pit at 2.60m									
4.0										
Groundwater Conditions										
Stability Poor stability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated early at 2.60m due to refusal on packed boulders										

IGSL TP LOG 25758.GPJ IGSL GDT 23/1/25

		TRIAL PIT RECORD						REPORT NUMBER 25758		
CONTRACT Mt. Avenue							TRIAL PIT NO. TP08 SHEET Sheet 1 of 1			
LOGGED BY Patrick Ryan				CO-ORDINATES GROUND LEVEL (m)			DATE STARTED 06/12/2024 DATE COMPLETED 06/12/2024			
CLIENT ENGINEER DBFL Consulting Engineers							EXCAVATION METHOD			
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly sandy gravelly CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		0.20							
	Medium dense brown clayey gravelly SAND with low cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.					AA235796	B	0.40-0.50		
1.0	Medium dense grey slightly clayey sandy GRAVEL with medium cobble content subangular to subrounded and low boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		1.10			AA235797	B	1.30-1.40		
2.0	Loose grey sandy clayey GRAVEL with medium cobble content subangular to subrounded and low boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		1.90							
						AA245751	B	2.30-2.40		
3.0	End of Trial Pit at 3.00m		3.00							
4.0										
Groundwater Conditions Incursion at 1.9m										
Stability Poor Stability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location.										

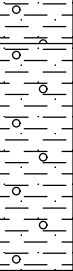
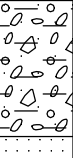
		TRIAL PIT RECORD						REPORT NUMBER 25758		
CONTRACT Mt. Avenue						TRIAL PIT NO. TP09 SHEET Sheet 1 of 1				
LOGGED BY Patrick Ryan			CO-ORDINATES GROUND LEVEL (m)			DATE STARTED 06/12/2024 DATE COMPLETED 06/12/2024				
CLIENT ENGINEER DBFL Consulting Engineers						EXCAVATION METHOD				
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly sandy gravelly CLAY. Gravels are subangular to subrounded fine to coarse.		0.20			AA245758	B	0.40-0.50		
1.0	Medium dense brown slightly clayey sandy GRAVEL with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		1.00							
	Medium dense grey mottled brown slightly clayey sandy GRAVEL with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		1.30			AA24559	B	1.20-1.30		
	End of Trial Pit at 1.30m									
2.0										
3.0										
4.0										
Groundwater Conditions Incursion at 0.5m										
Stability Poor stability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated at 1.30m due to rapid GW strike.										

		TRIAL PIT RECORD						REPORT NUMBER 25758		
CONTRACT Mt. Avenue						TRIAL PIT NO. TP10 SHEET Sheet 1 of 1				
LOGGED BY Patrick Ryan			CO-ORDINATES GROUND LEVEL (m)			DATE STARTED 12/12/2024 DATE COMPLETED 12/12/2024				
CLIENT ENGINEER DBFL Consulting Engineers						EXCAVATION METHOD				
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly sandy gravelly CLAY. Gravels are subangular to subrounded fine to coarse.									
	Medium dense brown gravelly clayey SAND with low cobble content subangular to subrounded and low boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		0.30			AA236757	B	0.50-0.60		
1.0	Stiff brown slightly sandy gravelly clayey SILT. Gravels are subangular to subrounded fine to coarse.		1.00			AA236758	B	1.00-1.10		
	Medium dense grey clayey sandy GRAVEL with medium cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		1.50							
2.0	End of Trial Pit at 2.00m		2.00							
						AA236759	B	2.50-2.60		
3.0										
4.0										
Groundwater Conditions										
Stability Slight to moderate instability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated at 2.00m on refusal on weathered Greywacke rockhead.										

		TRIAL PIT RECORD						REPORT NUMBER 25758		
CONTRACT Mt. Avenue						TRIAL PIT NO. TP12				
LOGGED BY Patrick Ryan						SHEET Sheet 1 of 1				
						DATE STARTED 11/12/2024		DATE COMPLETED 11/12/2024		
CLIENT ENGINEER DBFL Consulting Engineers						CO-ORDINATES				
						GROUND LEVEL (m)				
						EXCAVATION METHOD				
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Sample Ref	Type	Depth	Vane Test (KPa)	Hand Penetrometer (KPa)
0.0	Firm grey slightly sandy gravelly CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		0.30							
	Firm grey mottled brown gravelly sandy CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.						AA236760	B	0.50-0.60	
1.0	Medium dense grey clayey GRAVEL with medium cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		1.30 1.40				AA236761	B	1.40-1.40	
	End of Trial Pit at 1.40m									
2.0										
3.0										
4.0										
Groundwater Conditions Incursion at 1.4m										
Stability Slight to moderate instability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated at 1.40m due to rapid GW strike.										

		TRIAL PIT RECORD						REPORT NUMBER 25758		
CONTRACT Mt. Avenue						TRIAL PIT NO. TP13 SHEET Sheet 1 of 1				
LOGGED BY Patrick Ryan			CO-ORDINATES GROUND LEVEL (m)			DATE STARTED 11/12/2024 DATE COMPLETED 11/12/2024				
CLIENT ENGINEER DBFL Consulting Engineers						EXCAVATION METHOD				
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly gravelly sandy CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		0.30			AA236762	B	0.50-0.60		
1.0	Firm grey mottled brown gravelly sandy CLAY with medium cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		1.30			AA236763	B	1.30-1.40		
2.0	Grey mottled brown clayey sandy GRAVEL with medium cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		1.90			AA236764	B	1.90-1.90		
End of Trial Pit at 1.90m										
3.0										
4.0										
Groundwater Conditions Incursion at 1.3m										
Stability Poor stability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated at 1.90m due to rapid GW strike and risk of total pit collapse										

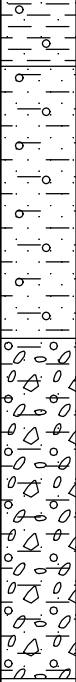
		TRIAL PIT RECORD						REPORT NUMBER 25758	
CONTRACT Mt. Avenue						TRIAL PIT NO. TP15 SHEET Sheet 1 of 1			
LOGGED BY Patrick Ryan			CO-ORDINATES GROUND LEVEL (m)			DATE STARTED 06/12/2024 DATE COMPLETED 06/12/2024			
CLIENT ENGINEER DBFL Consulting Engineers						EXCAVATION METHOD			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly sandy gravelly CLAY. Gravels are subangular to subrounded fine to coarse.		0.20			AA254760	B	0.40-0.50		
	Stiff brown slightly sandy gravelly CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.									
1.0			1.20			AA254761	B	1.40-1.50		
	Medium dense slightly clayey sandy GRAVEL with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.									
2.0	Refusal on greywacke rockhead		1.80 1.90			AA254762	B	1.90-1.90		
	End of Trial Pit at 1.90m									
3.0										
4.0										

Groundwater Conditions

Stability
 Good stability

General Remarks
 CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated at 1.9m on refusal of weathered greywacke rockhead.

		TRIAL PIT RECORD						REPORT NUMBER 25758		
CONTRACT Mt. Avenue						TRIAL PIT NO. TP16				
LOGGED BY Patrick Ryan						SHEET Sheet 1 of 1				
						DATE STARTED 09/12/2024 DATE COMPLETED 09/12/2024				
CLIENT ENGINEER DBFL Consulting Engineers						CO-ORDINATES				
						GROUND LEVEL (m)				
						EXCAVATION METHOD				
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly sandy slightly gravelly CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		0.30			AA245766	B	0.50-0.60		
1.0	Medium dense brown slightly clayey gravelly SAND with medium cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		1.50			AA245767	B	1.70-1.80		
2.0	Medium dense grey slightly clayey sandy GRAVEL with medium cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		3.00			AA245768	B	2.70-2.80		
3.0	End of Trial Pit at 3.00m									
4.0										
Groundwater Conditions										
Stability Slight to moderate instability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location.										

		TRIAL PIT RECORD						REPORT NUMBER 25758	
CONTRACT Mt. Avenue						TRIAL PIT NO. TP17 SHEET Sheet 1 of 1			
LOGGED BY Patrick Ryan			CO-ORDINATES GROUND LEVEL (m)			DATE STARTED 12/12/2024 DATE COMPLETED 12/12/2024			
CLIENT ENGINEER DBFL Consulting Engineers						EXCAVATION METHOD			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly sandy gravelly CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		0.30							
	Medium dense brown gravelly clayey SAND with low cobble content subangular to subrounded and low boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.					AA236778	B	0.50-0.60		
1.0	Medium dense grey mottled brown sandy clayey GRAVEL with medium cobble content subangular to subrounded and low boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		1.20							
						AA236779	B	1.30-1.40		
2.0	Mediu dense grey clayey sandy GRAVEL with high cobble content subangular to subrounded and medium boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		1.90							
	End of Trial Pit at 2.20m		2.20			AA236780	B	2.20-2.20		
3.0										
4.0										

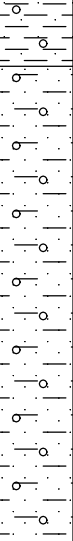
Groundwater Conditions

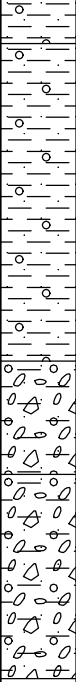
Stability
 Slight instability

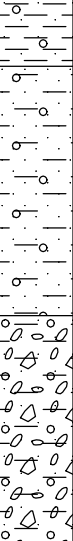
General Remarks
 CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated on refusal of tightly packed boulders.

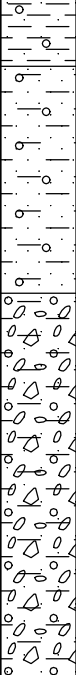
		TRIAL PIT RECORD						REPORT NUMBER 25758		
CONTRACT Mt. Avenue						TRIAL PIT NO. TP18 SHEET Sheet 1 of 1				
LOGGED BY Patrick Ryan			CO-ORDINATES GROUND LEVEL (m)			DATE STARTED 11/12/2024 DATE COMPLETED 11/12/2024				
CLIENT ENGINEER DBFL Consulting Engineers						EXCAVATION METHOD				
0.0 1.0 2.0 3.0 4.0	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
	Firm grey slightly sandy gravelly CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse. Stiff brown slightly gravelly sandy CLAY with low cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		0.30			AA236765	B	0.50-0.60		
	Medium dense grey mottled brown clayey sandy GRAVEL with medium cobble content angular to subangular. Gravels are subangular to subrounded fine to coarse.		1.10			AA236766	B	1.20-1.30		
	End of Trial Pit at 1.40m		1.40			AA236767	B	1.40-1.40		
Groundwater Conditions										
Stability Slight instability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated at 1.4m on refusal of weathered greywacke rockhead.										

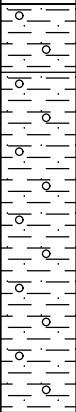
		TRIAL PIT RECORD						REPORT NUMBER 25758		
CONTRACT Mt. Avenue							TRIAL PIT NO. TP19 SHEET Sheet 1 of 1			
LOGGED BY Patrick Ryan				CO-ORDINATES GROUND LEVEL (m)			DATE STARTED 11/12/2024 DATE COMPLETED 11/12/2024			
CLIENT ENGINEER DBFL Consulting Engineers							EXCAVATION METHOD			
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly sandy gravelly CLAY. Gravels are subangular to subrounded fine to coarse.		0.30			AA236768	B	0.50-0.60		
	Firm brown gravelly sandy CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.									
1.0										
2.0	Medium dense brown sandy clayey GRAVEL with medium cobble content angular to subangular. Gravels are subangular to subrounded fine to coarse.		1.80			AA236769	B	2.00-2.10		
	End of Trial Pit at 2.60m		2.60			AA236770	B	2.60-2.60		
3.0										
4.0										
Groundwater Conditions Incursion at 2.6m										
Stability Slight to moderate instability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated at 2.6m on refusal of weathered greywacke rockhead.										

		TRIAL PIT RECORD						REPORT NUMBER 25758		
CONTRACT Mt. Avenue						TRIAL PIT NO. TP20 SHEET Sheet 1 of 1				
LOGGED BY Patrick Ryan			CO-ORDINATES GROUND LEVEL (m)			DATE STARTED 09/12/2024 DATE COMPLETED 09/12/2024				
CLIENT ENGINEER DBFL Consulting Engineers						EXCAVATION METHOD				
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly sandy gravelly CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse. Medium dense brown slightly clayey gravelly SAND with medium cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		0.30							
							AA245769	B	0.60-0.70	
1.0										
2.0										
	End of Trial Pit at 2.40m		2.40							
3.0										
4.0										
Groundwater Conditions										
Stability Poor stability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated at 2.4m on refusal of weathered greywacke rockhead.										

	TRIAL PIT RECORD							REPORT NUMBER 25758		
CONTRACT Mt. Avenue						TRIAL PIT NO. TP21				
LOGGED BY Patrick Ryan						SHEET Sheet 1 of 1				
CO-ORDINATES GROUND LEVEL (m)						DATE STARTED 06/12/2024				
						DATE COMPLETED 06/12/2024				
CLIENT ENGINEER DBFL Consulting Engineers						EXCAVATION METHOD				
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly sandy gravelly CLAY. Gravels are subangular to subrounded fine to coarse.		0.20			AA245763	B	0.50-0.60		
1.0	Stiff slightly gravelly slightly sandy CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		1.60			AA245764	B	1.70-1.80		
2.0	Medium dense grey slightly clayey sandy GRAVEL with medium cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		2.10			 (Seepage)				
3.0	Medium dense grey slightly clayey sandy GRAVEL with medium cobble content subangular to subrounded and medium boulder content rounded to subrounded. Gravels are subangular to subrounded fine to coarse.	3.00			AA245765		B	2.90-3.00		
4.0	End of Trial Pit at 3.00m									
Groundwater Conditions Incursion at 2.3m										
Stability Slight to moderate instability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location.										

		TRIAL PIT RECORD						REPORT NUMBER 25758		
CONTRACT Mt. Avenue							TRIAL PIT NO. TP22 SHEET Sheet 1 of 1			
LOGGED BY Patrick Ryan				CO-ORDINATES GROUND LEVEL (m)			DATE STARTED 10/12/2024 DATE COMPLETED 10/12/2024			
CLIENT ENGINEER DBFL Consulting Engineers							EXCAVATION METHOD			
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly sandy gravelly CLAY. Gravels are subangular to subrounded fine to coarse.		0.30			AA245785	B	0.50-0.60		
1.0	Medium dense brown clayey gravelly SAND with medium cobble content subangular to subrounded and low boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		1.40			AA245786	B	1.60-1.70		
2.0	Medium dense grey clayey sandy GRAVEL with medium cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		2.40							
	End of Trial Pit at 2.40m									
3.0										
4.0										
Groundwater Conditions										
Stability Slight to moderate instability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated at 2.4m on refusal of weathered greywacke rockhead.										

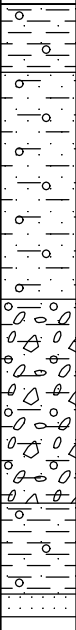
		TRIAL PIT RECORD						REPORT NUMBER 25758		
CONTRACT Mt. Avenue						TRIAL PIT NO. TP23 SHEET Sheet 1 of 1				
LOGGED BY Patrick Ryan			CO-ORDINATES GROUND LEVEL (m)			DATE STARTED 09/12/2024 DATE COMPLETED 09/12/2024				
CLIENT ENGINEER DBFL Consulting Engineers						EXCAVATION METHOD				
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly sandy slightly gravelly CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		0.30			AA245771	B	0.50-0.60		
1.0	Medium dense brown slightly clayey gravelly SAND with medium cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		1.30			AA245772	B	1.40-1.50		
2.0	Medium dense grey sandy clayey GRAVEL with medium cobble content subangular to subrounded and medium boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		3.00			AA245773	B	2.70-2.80		
3.0	End of Trial Pit at 3.00m									
4.0										
Groundwater Conditions										
Stability Poor stability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location.										

		TRIAL PIT RECORD						REPORT NUMBER 25758		
CONTRACT Mt. Avenue							TRIAL PIT NO. TP24 SHEET Sheet 1 of 1			
LOGGED BY Patrick Ryan				CO-ORDINATES GROUND LEVEL (m)			DATE STARTED 12/12/2024 DATE COMPLETED 12/12/2024			
CLIENT ENGINEER DBFL Consulting Engineers							EXCAVATION METHOD			
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly sandy gravelly CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse. Firm brown gravelly sandy CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		0.30			AA236781	B	0.50-0.60		
1.0										
2.0	Medium dense brown sandy clayey GRAVEL with medium cobble content angular to subangular. Gravels are subangular to subrounded fine to coarse. End of Trial Pit at 1.80m		1.80		 (Rapid)	AA236782	B	1.80-1.90		
3.0										
4.0										

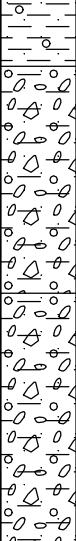
Groundwater Conditions
 Incursion at 1.8m

Stability
 Slight to moderate instability

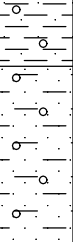
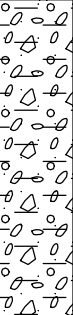
General Remarks
 CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated early at 1.8m due to rapid GW strike.

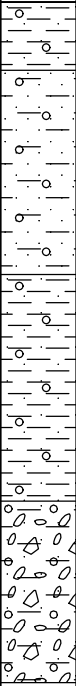
		TRIAL PIT RECORD						REPORT NUMBER 25758		
CONTRACT Mt. Avenue							TRIAL PIT NO. TP25 SHEET Sheet 1 of 1			
LOGGED BY Patrick Ryan				CO-ORDINATES GROUND LEVEL (m)			DATE STARTED 12/12/2024 DATE COMPLETED 12/12/2024			
CLIENT ENGINEER DBFL Consulting Engineers							EXCAVATION METHOD			
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly sandy gravelly CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		0.30			AA236788	B	0.50-0.60		
	Medium dense brown clayey gravelly SAND with medium cobble content angular to subrounded and low boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.									
1.0										
	Medium dense grey mottled brown clayey sandy GRAVEL with medium cobble content subangular to subrounded and low boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		1.30			AA236789	B	1.40-1.50		
2.0										
	Stiff grey mottled brown sandy gravelly CLAY with medium cobble content subangular to subrounded and low boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		2.20			AA236790	B	2.30-2.40		
	Weathered greywacke rockhead.		2.60		 (Slow)					
	End of Trial Pit at 2.70m		2.70							
3.0										
4.0										
Groundwater Conditions Incursion at 2.7m										
Stability Slight to moderate instability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated at 2.7m on refusal of weathered greywacke rockhead.										

		TRIAL PIT RECORD						REPORT NUMBER 25758		
CONTRACT Mt. Avenue						TRIAL PIT NO. TP26 SHEET Sheet 1 of 1				
LOGGED BY Patrick Ryan			CO-ORDINATES GROUND LEVEL (m)			DATE STARTED 12/12/2024 DATE COMPLETED 12/12/2024				
CLIENT ENGINEER DBFL Consulting Engineers						EXCAVATION METHOD				
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly sandy gravelly CLAY. Gravels are subangular to subrounded fine to coarse.		0.30			AA236783	B	0.50-0.60		
	Firm brown gravelly sandy CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.									
1.0			1.90			AA236784	B	2.10-2.20		
2.0	Dense grey clayey sand GRAVEL with medium cobble content subangular to subrounded and medium boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.									
	End of Trial Pit at 2.70m		2.70							
3.0										
4.0										
Groundwater Conditions										
Stability Good stability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated at 2.7m on refusal of tightly packed boulders.										

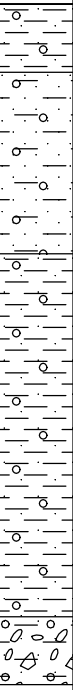
		TRIAL PIT RECORD						REPORT NUMBER 25758		
CONTRACT Mt. Avenue							TRIAL PIT NO. TP28 SHEET Sheet 1 of 1			
LOGGED BY Patrick Ryan				CO-ORDINATES GROUND LEVEL (m)			DATE STARTED 10/12/2024 DATE COMPLETED 10/12/2024			
CLIENT ENGINEER DBFL Consulting Engineers							EXCAVATION METHOD			
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly sandy slightly gravelly CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		0.30			AA245787	B	0.50-0.60		
1.0	Medium dense grey clayey sandy GRAVEL with medium cobble content with subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		1.30							
2.0	Medium dense grey clayey sandy GRAVEL ith medium cobble content with subangular to subrounded and medium boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		2.40			AA245788	B	2.10-2.20		
	End of Trial Pit at 2.40m									
3.0										
4.0										
Groundwater Conditions										
Stability Poor stability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated at 2.4m on refusal of weathered greywacke rockhead.										

		TRIAL PIT RECORD						REPORT NUMBER 25758		
CONTRACT Mt. Avenue						TRIAL PIT NO. TP29 SHEET Sheet 1 of 1				
LOGGED BY Patrick Ryan			CO-ORDINATES GROUND LEVEL (m)			DATE STARTED 10/12/2024 DATE COMPLETED 10/12/2024				
CLIENT ENGINEER DBFL Consulting Engineers						EXCAVATION METHOD				
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey sandy slightly gravelly CLAY with medium cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		0.30							
	Medium dense grey clayey sandy GRAVEL with medium cobble content with subangular to subrounded and low boulder content subangular. Gravels are subangular to subrounded fine to coarse.		0.60			AA245789	B	0.50-0.60		
1.0	Medium dense grey clayey sandy GRAVEL with medium cobble content with subangular to subrounded and medium boulder content angular to subangular. Gravels are subangular to subrounded fine to coarse.									
2.0	End of Trial Pit at 2.00m		2.00			AA245790	B	1.90-2.00		
3.0										
4.0										
Groundwater Conditions										
Stability Slight to moderate instability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated at 2.0m on refusal of weathered greywacke rockhead.										

		TRIAL PIT RECORD						REPORT NUMBER 25758		
CONTRACT Mt. Avenue							TRIAL PIT NO. TP30 SHEET Sheet 1 of 1			
LOGGED BY Patrick Ryan				CO-ORDINATES GROUND LEVEL (m)			DATE STARTED 09/12/2024 DATE COMPLETED 09/12/2024			
CLIENT ENGINEER DBFL Consulting Engineers							EXCAVATION METHOD			
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly sandy slightly gravelly CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		0.30			AA245783	B	0.50-0.60		
1.0	Medium dense brown clayey gravelly SAND with medium cobble content subangular to subrounded and low boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		1.10			AA245784	B	1.20-1.30		
2.0	Medium dense grey clayey sandy GRAVEL with medium cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		2.50							
	End of Trial Pit at 2.50m									
3.0										
4.0										
Groundwater Conditions										
Stability Slight to moderate instability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated at 2.5m on refusal of weathered greywacke rockhead.										

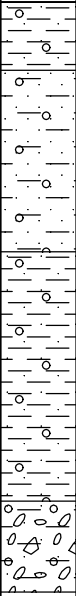
		TRIAL PIT RECORD						REPORT NUMBER 25758		
CONTRACT Mt. Avenue							TRIAL PIT NO. TP31 SHEET Sheet 1 of 1			
LOGGED BY Patrick Ryan				CO-ORDINATES GROUND LEVEL (m)			DATE STARTED 09/12/2024 DATE COMPLETED 09/12/2024			
CLIENT ENGINEER DBFL Consulting Engineers							EXCAVATION METHOD			
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly gravelly slightly sandy CLAY. Gravels are subangular to subrounded fine to coarse.		0.30			AA245780	B	0.50-0.60		
	Medium dense brown gravelly clayey SAND with low cobble content subangular to subrounded and low boulder content subrounded to rounded. Gravels are subangular to subrounded fine to coarse.		1.20			AA245781	B	1.40-1.50		
2.0	Firm grey slightly sandy gravelly CLAY with medium cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		2.20			AA245782	B	2.40-2.50		
3.0	Medium dense grey clayey sandy GRAVEL with medium cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		3.00							
	End of Trial Pit at 3.00m									
4.0										
Groundwater Conditions										
Stability Slight to moderate instability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location.										

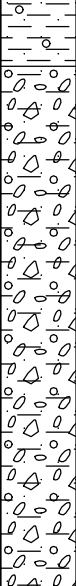
		TRIAL PIT RECORD						REPORT NUMBER 25758	
CONTRACT Mt. Avenue						TRIAL PIT NO. TP32 SHEET Sheet 1 of 1			
LOGGED BY Patrick Ryan			CO-ORDINATES GROUND LEVEL (m)			DATE STARTED 12/12/2024 DATE COMPLETED 12/12/2024			
CLIENT ENGINEER DBFL Consulting Engineers						EXCAVATION METHOD			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly sandy gravelly CLAY. Gravels are subangular to subrounded fine to coarse.		0.30			AA236785	B	0.50-0.60		
1.0	Medium dense brown clayey gravelly SAND with low cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		1.10			AA236786	B	1.40-1.50		
2.0	Stiff brown sandy gravelly CLAY with medium cobble content subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		2.70							
3.0	Medium dense grey sandy clayey GRAVEL with medium cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse. End of Trial Pit at 3.00m		3.00			AA236787	B	2.80-2.90		
4.0										

1
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(Seepage)

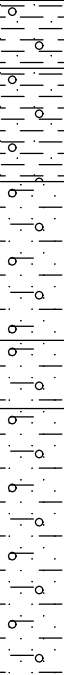
Groundwater Conditions Incursion at 2.5m										
Stability Slight instability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location.										

		TRIAL PIT RECORD						REPORT NUMBER 25758		
CONTRACT Mt. Avenue							TRIAL PIT NO. TP33 SHEET Sheet 1 of 1			
LOGGED BY Patrick Ryan				CO-ORDINATES GROUND LEVEL (m)			DATE STARTED 09/12/2024 DATE COMPLETED 09/12/2024			
CLIENT ENGINEER DBFL Consulting Engineers							EXCAVATION METHOD			
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly sandy gravelly CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		0.30			AA245777	B	0.50-0.60		
	Medium dense brown clayey gravelly SAND with medium cobble content subangular to subrounded and low boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.									
1.0	Firm grey slightly sandy gravelly CLAY with medium cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		1.10			AA245778	B	1.30-1.40		
2.0	Medium dense grey clayey sandy GRAVEL with medium cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		2.20			AA245779	B	2.40-2.50		
	End of Trial Pit at 2.60m		2.60							
3.0										
4.0										
Groundwater Conditions										
Stability Slight instability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated at 2.6m on refusal of tightly packed boulders.										

		TRIAL PIT RECORD						REPORT NUMBER 25758		
CONTRACT Mt. Avenue						TRIAL PIT NO. TP34 SHEET Sheet 1 of 1				
LOGGED BY Patrick Ryan			CO-ORDINATES GROUND LEVEL (m)			DATE STARTED 10/12/0204 DATE COMPLETED 10/12/2024				
CLIENT ENGINEER DBFL Consulting Engineers						EXCAVATION METHOD				
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly sandy gravelly CLAY. Gravels are subangular to subrounded fine to coarse.		0.30			AA245791	B	0.50-0.60		
	Medium dense grey clayey sandy GRAVEL with medium cobble content with subangular to subrounded and medium boulder content subangular. Gravels are subangular to subrounded fine to coarse.									
1.0										
2.0										
2.60	End of Trial Pit at 2.60m		2.60			AA245792	B	2.50-2.60		
3.0										
4.0										
Groundwater Conditions										
Stability Slight instability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated at 2.6m on refusal of tightly packed boulders.										

		TRIAL PIT RECORD						REPORT NUMBER 25758		
CONTRACT Mt. Avenue						TRIAL PIT NO. TP35 SHEET Sheet 1 of 1				
LOGGED BY Patrick Ryan			CO-ORDINATES GROUND LEVEL (m)			DATE STARTED 10/12/2024 DATE COMPLETED 10/12/2024				
CLIENT ENGINEER DBFL Consulting Engineers						EXCAVATION METHOD				
0.0 1.0 2.0 3.0 4.0	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
	Firm grey slightly sandy gravelly CLAY. Gravels are subangular to subrounded fine to coarse.		0.30			AA245793	B	0.50-0.60		
	Medium dense brown clayey gravelly SAND with medium cobble content angular to subrounded and low boulder content angular to subrounded. Gravels are subangular to subrounded fine to coarse.		1.00			AA245794	B	1.20-1.30		
	Medium dense grey clayey sandy GRAVEL with medium cobble content with subangular to subrounded and low boulder content subangular. Gravels are subangular to subrounded fine to coarse.		2.30			AA245795	B	2.20-2.30		
	End of Trial Pit at 2.30m									
Groundwater Conditions										
Stability Slight instability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated at 2.3m on refusal of weathered greywacke rockhead.										

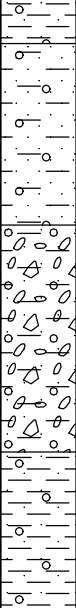
		TRIAL PIT RECORD						REPORT NUMBER 25758	
CONTRACT Mt. Avenue						TRIAL PIT NO. TP36 SHEET Sheet 1 of 1			
LOGGED BY Patrick Ryan			CO-ORDINATES GROUND LEVEL (m)			DATE STARTED 28/11/2024 DATE COMPLETED 28/11/2024			
CLIENT ENGINEER DBFL Consulting Engineers						EXCAVATION METHOD			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm brown slightly gravelly slightly sandy CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		0.30			AA236823	B	0.40-0.50		
	Stiff brown mottled grey slightly gravelly slightly sandy CLAY. Gravels are subangular to subrounded fine to coarse.		0.80			AA236824	B	0.80-0.90		
1.0	Medium dense grey mottled brown clayey gravelly SAND with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		1.50			AA236825	B	1.50-1.60		
	Medium dense grey mottled brown clayey gravelly SAND with low cobble content subangular to subrounded and low boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		1.80							
2.0	Medium dense grey mottled brown clayey gravelly SAND with low cobble content subangular to subrounded and medium boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		3.00							
3.0	End of Trial Pit at 3.00m									
4.0										


 (Moderate)

Groundwater Conditions Incursion at 2.8m										
Stability Moderate instability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location.										

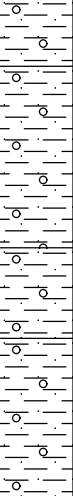
		TRIAL PIT RECORD						REPORT NUMBER 25758	
CONTRACT Mt. Avenue						TRIAL PIT NO. TP37			
LOGGED BY Patrick Ryan				CO-ORDINATES GROUND LEVEL (m)		SHEET Sheet 1 of 1			
CLIENT ENGINEER DBFL Consulting Engineers						DATE STARTED 05/12/2024 DATE COMPLETED 05/12/2024			
						EXCAVATION METHOD			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly sandy gravelly CLAY. Gravels are subangular to subrounded fine to coarse.		0.20			AA235793	B	0.50-0.60		
	Medium dense brown mottled grey slightly gravelly clayey SAND with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.									
1.0	Medium dense grey mottled brown slightly clayey sandy GRAVEL with low cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		1.00			AA235794	B	1.50-1.60		
2.0	Firm brown slightly sandy gravelly CLAY with medium cobble content subangular to subrounded and low boulder content subangular to rounded. Gravels are subangular to subrounded fine to coarse.		2.00			AA235795	B	2.10-2.20		
	End of Trial Pit at 2.70m		2.70		1 (Rapid)					
3.0										
4.0										

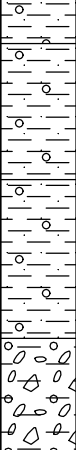
Groundwater Conditions
 Incursion at 2.4m

Stability
 Poor stability

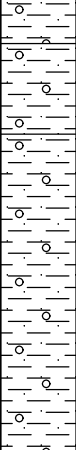
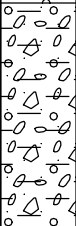
General Remarks
 CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated at 2.4m due to rapid GW strike and risk of total pit collapse.

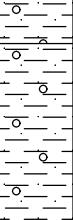
		TRIAL PIT RECORD						REPORT NUMBER 25758		
CONTRACT Mt. Avenue						TRIAL PIT NO. TP38 SHEET Sheet 1 of 1				
LOGGED BY Patrick Ryan			CO-ORDINATES GROUND LEVEL (m)			DATE STARTED 27/11/2024 DATE COMPLETED 27/11/2024				
CLIENT ENGINEER DBFL Consulting Engineers						EXCAVATION METHOD				
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly sandy gravelly CLAY. Gravels are subangular to subrounded fine to coarse.		0.30			AA236811	B	0.50-0.60		
	Stiff brown slightly gravelly slightly sandy CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		1.10							
1.0	Stiff brown slightly gravelly slightly sandy CLAY with medium cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		1.50							
	Stiff brown slightly sandy very gravelly CLAY with medium cobble content subangular to subrounded and low boulder content subrounded to rounded. Gravels are subangular to subrounded fine to coarse.		2.20							
2.0	End of Trial Pit at 2.20m				 (Moderate)	AA236812	B	2.00-2.10		
3.0										
4.0										
Groundwater Conditions										
Stability Poor stability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location.										

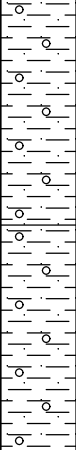
		TRIAL PIT RECORD						REPORT NUMBER 25758		
CONTRACT Mt. Avenue						TRIAL PIT NO. TP39 SHEET Sheet 1 of 1				
LOGGED BY Patrick Ryan			CO-ORDINATES GROUND LEVEL (m)			DATE STARTED 27/11/2024 DATE COMPLETED 27/11/2024				
CLIENT ENGINEER DBFL Consulting Engineers						EXCAVATION METHOD				
0.0 1.0 2.0 3.0 4.0	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
	Stiff brown slightly sandy gravelly CLAY with high cobble content subangular to subrounded and high boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		0.70							
	End of Trial Pit at 0.70m									
Groundwater Conditions										
Stability Good stability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated at 0.7m on refusal of limestone rockhead										

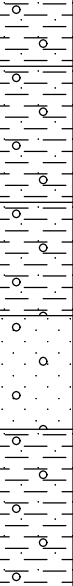
		TRIAL PIT RECORD						REPORT NUMBER 25758		
CONTRACT Mt. Avenue							TRIAL PIT NO. TP40 SHEET Sheet 1 of 1			
LOGGED BY Patrick Ryan				CO-ORDINATES GROUND LEVEL (m)			DATE STARTED 27/11/2024 DATE COMPLETED 27/11/2024			
CLIENT ENGINEER DBFL Consulting Engineers							EXCAVATION METHOD			
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm brown slightly gravelly slightly sandy CLAY. Gravels are subangular to subrounded fine to coarse.		0.20			AA236805	B	0.50-0.60		
	Firm brown slightly gravelly slightly sandy CLAY with medium cobble content subangular to subrounded and medium boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		0.80							
1.0	Stiff brown sandy very gravelly CLAY. Gravels are subangular to subrounded fine to coarse.		1.50			AA236806	B	1.50-1.60		
	Sandy clayey GRAVEL with medium cobble content angular to subangular and medium boulder angular to subangular. Gravels are subangular to subrounded fine to coarse.		2.00			AA236807	B	2.00-2.00		
2.0	End of Trial Pit at 2.00m									
3.0										
4.0										
Groundwater Conditions										
Stability Good stability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated at 2.0m on refusal of limestone rockhead										

		TRIAL PIT RECORD						REPORT NUMBER 25758		
CONTRACT Mt. Avenue						TRIAL PIT NO. TP41 SHEET Sheet 1 of 1				
LOGGED BY Patrick Ryan			CO-ORDINATES GROUND LEVEL (m)			DATE STARTED 27/11/2024 DATE COMPLETED 27/11/2024				
CLIENT ENGINEER DBFL Consulting Engineers						EXCAVATION METHOD				
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm brown slightly sandy gravelly CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.									
	Stiff brown slightly sandy gravelly CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		0.40			AA236801	B	0.50-0.60		
	Very stiff brown slightly gravelly very sandy CLAY. Gravels are subangular to subrounded fine to coarse.		0.80			AA236802	B	1.00-1.10		
1.0	Firm grey mottled brown slightly sandy slightly gravelly CLAY with medium cobble content subangular and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		1.30							
2.0	Stiff brown sandy gravelly CLAY with medium cobble content subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		2.00			AA236803	B	2.00-2.10		
3.0	End of Trial Pit at 3.00m		3.00			AA236804	B	3.00-3.00		
4.0										
Groundwater Conditions										
Stability Moderate instability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location.										

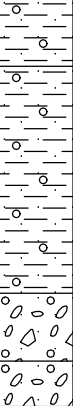
		TRIAL PIT RECORD						REPORT NUMBER 25758		
CONTRACT Mt. Avenue						TRIAL PIT NO. TP42				
LOGGED BY Patrick Ryan						SHEET Sheet 1 of 1				
CO-ORDINATES						DATE STARTED 27/11/2024				
GROUND LEVEL (m)						DATE COMPLETED 27/11/2024				
CLIENT ENGINEER DBFL Consulting Engineers						EXCAVATION METHOD				
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm brown slightly sandy gravelly CLAY with medium cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		0.20							
	Stiff brown slightly sandy gravelly CLAY with medium cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		0.60			AA236815	B	0.50-0.60		
1.0	Firm brown slightly sandy gravelly CLAY with high cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.					AA236816	B	1.00-1.10		
2.0	Medium dense grey mottled brown slightly clayey slightly sandy GRAVEL with low cobble content subangular and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		2.00							
						AA236817	B	2.50-2.60		
3.0	End of Trial Pit at 3.00m		3.00		 (Seepage)					
4.0										
Groundwater Conditions										
Stability Slight instability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location.										

		TRIAL PIT RECORD						REPORT NUMBER 25758		
CONTRACT Mt. Avenue						TRIAL PIT NO. TP43 SHEET Sheet 1 of 1				
LOGGED BY Patrick Ryan			CO-ORDINATES GROUND LEVEL (m)			DATE STARTED 27/11/2024 DATE COMPLETED 27/11/2024				
CLIENT ENGINEER DBFL Consulting Engineers						EXCAVATION METHOD				
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm brown slightly sandy slightly gravelly CLAY. Gravels are subangular to subrounded fine to coarse.		0.20			AA236808	B	0.50-0.60		
	Stiff brown slightly sandy gravelly CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		1.00							
1.0	Stiff brown slightly sandy gravelly CLAY with high cobble content angular to subangular. Gravels are subangular to subrounded fine to coarse.		1.30			AA236809	B	1.30-1.30		
	Stiff brown slightly sandy gravelly CLAY. Gravels are subangular to subrounded fine to coarse.		1.50							
	Stiff brown slightly sandy gravelly CLAY with medium cobble content angular to subangular and low boulder content angular subrounded. Gravels are subangular to subrounded fine to coarse.		2.00			AA236810	B	1.80-1.90		
2.0	End of Trial Pit at 2.00m									
3.0										
4.0										
Groundwater Conditions										
Stability Moderate instability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated at 2.0m due to refusal on tightly packed boulders.										

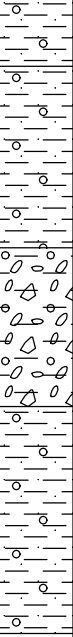
	TRIAL PIT RECORD						REPORT NUMBER 25758			
CONTRACT Mt. Avenue						TRIAL PIT NO. TP44				
LOGGED BY Patrick Ryan						SHEET Sheet 1 of 1				
CO-ORDINATES						DATE STARTED 27/11/2024				
GROUND LEVEL (m)						DATE COMPLETED 27/11/2024				
CLIENT ENGINEER DBFL Consulting Engineers						EXCAVATION METHOD				
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Stiff brown slightly gravelly sandy CLAY with low cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		1.00			AA236813	B	0.50-0.60		
1.0	Stiff brown slightly sandy gravelly CLAY with medium cobble content subangular to subrounded and low boulder content subangular. Gravels are subangular to subrounded fine to coarse.									
2.0	End of Trial Pit at 2.00m			2.00			AA236814	B	2.00-2.00	
3.0										
4.0										
Groundwater Conditions Incursion at 1.0m										
Stability Moderate instability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated at 2.0m due to moderate GW inflow										

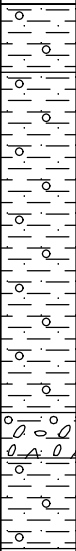
		TRIAL PIT RECORD						REPORT NUMBER 25758		
CONTRACT Mt. Avenue						TRIAL PIT NO. TP45				
LOGGED BY Patrick Ryan				CO-ORDINATES GROUND LEVEL (m)		SHEET Sheet 1 of 1				
CLIENT ENGINEER DBFL Consulting Engineers						DATE STARTED 28/11/2024 DATE COMPLETED 28/11/2024				
						EXCAVATION METHOD				
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm brown slightly gravelly slightly sandy CLAY. Gravels are subangular to subrounded fine to coarse.									
	Stiff brown slightly gravelly sandy CLAY with medium cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		0.30			AA236818	B	0.50-0.60		
	Firm grey mottled brown slightly gravelly sandy CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		0.90			AA236819	B	0.90-1.00		
1.0	Medium dense brown gravelly SAND with medium cobble content subrounded with low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		1.40							
	Stiff brown mottled red slightly sandy slightly gravelly CLAY with medium cobble content sub angular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		1.90			AA236820	B	1.80-1.90		
2.0	End of Trial Pit at 2.60m		2.60							
3.0										
4.0										
Groundwater Conditions Incursion at 2.4m										
Stability Poor stability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated at 2.6m due to moderate GW strike and poor sidewall stability.										

IGSL TP LOG 25758.GPJ IGSL GDT 23/1/25

		TRIAL PIT RECORD						REPORT NUMBER 25758		
CONTRACT Mt. Avenue							TRIAL PIT NO. TP46 SHEET Sheet 1 of 1			
LOGGED BY Patrick Ryan				CO-ORDINATES GROUND LEVEL (m)			DATE STARTED 28/11/2024 DATE COMPLETED 28/11/2024			
CLIENT ENGINEER DBFL Consulting Engineers							EXCAVATION METHOD			
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm brown slightly gravelly slightly sandy CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		0.30							
	Stiff brown mottled grey slightly gravelly slightly sandy CLAY. Gravels are subangular to subrounded fine to coarse.					AA236821	B	0.60-0.70		
1.0										
	Medium dense grey sandy GRAVEL with low cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		1.30		 (Rapid)	AA236822	B	1.30-1.40		
	Medium dense grey sandy GRAVEL with high cobble content subangular to subrounded and medium boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		1.60							
2.0	End of Trial Pit at 1.80m		1.80							
3.0										
4.0										
Groundwater Conditions Incursion at 1.4m										
Stability Moderate instability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated at 1.8m due to refusal on weathered rockhead and rapid ground water strike.										

IGSL TP LOG 25758.GPJ IGSL GDT 23/1/25

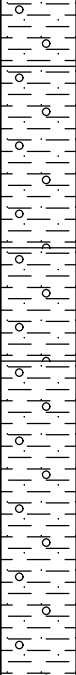
		TRIAL PIT RECORD						REPORT NUMBER 25758		
CONTRACT Mt. Avenue							TRIAL PIT NO. TP49 SHEET Sheet 1 of 1			
LOGGED BY Patrick Ryan				CO-ORDINATES GROUND LEVEL (m)			DATE STARTED 28/11/2024 DATE COMPLETED 28/11/2024			
CLIENT ENGINEER DBFL Consulting Engineers							EXCAVATION METHOD			
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm brown slightly gravelly slightly sandy CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		0.30			AA236833	B	0.50-0.60		
	Stiff brown slightly gravelly sandy CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.									
1.0	Possible MADEGROUND Black clayey GRAVEL with medium cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		1.10			AA236834	B	1.30-1.40		
	Stiff brown slightly sandy slightly gravelly CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		1.80							
2.0			2.80			AA236835	B	2.70-2.80		
	End of Trial Pit at 2.80m									
3.0										
4.0										
Groundwater Conditions										
Stability Poor stability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated at 2.8m due to large sidewall collapse										

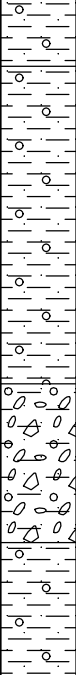
		TRIAL PIT RECORD						REPORT NUMBER 25758		
CONTRACT Mt. Avenue						TRIAL PIT NO. TP50 SHEET Sheet 1 of 1				
LOGGED BY Patrick Ryan			CO-ORDINATES GROUND LEVEL (m)			DATE STARTED 28/11/2024 DATE COMPLETED 28/11/2024				
CLIENT ENGINEER DBFL Consulting Engineers						EXCAVATION METHOD				
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm brown slightly gravelly slightly sandy CLAY. Gravels are subangular to subrounded fine to coarse.		0.30							
	Stiff grey mottled brown slightly sandy slightly gravelly CLAY with medium cobble content subangular to subrounded and low boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.					AA236839	B	0.50-0.60		
1.0										
	Medium dense grey clayey very sandy GRAVEL with medium cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		1.80			(Moderate) AA236840	B	1.80-1.90		
2.0	Stiff grey slightly sandy gravelly CLAY with medium cobble content subangular to subrounded and medium boulder content subangular. Gravels are subangular to subrounded fine to coarse.		2.00			AA236841	B	2.00-2.10		
	End of Trial Pit at 2.40m		2.40							
3.0										
4.0										

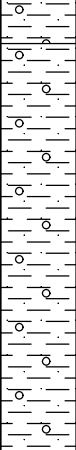
Groundwater Conditions
 Incursion at 1.8m

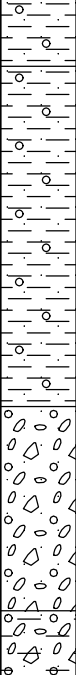
Stability
 Moderate instability

General Remarks
 CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated at 2.4m due to imminent large sidewall collapse

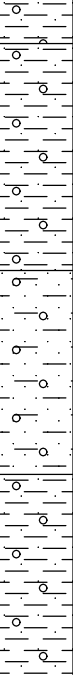
		TRIAL PIT RECORD						REPORT NUMBER 25758		
CONTRACT Mt. Avenue							TRIAL PIT NO. TP51 SHEET Sheet 1 of 1			
LOGGED BY Patrick Ryan				CO-ORDINATES GROUND LEVEL (m)			DATE STARTED 28/11/2024 DATE COMPLETED 28/11/2024			
CLIENT ENGINEER DBFL Consulting Engineers							EXCAVATION METHOD			
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm brown slightly gravelly slightly sandy CLAY. Gravels are subangular to subrounded fine to coarse.		0.30			AA236836	B	0.50-0.60		
	Firm brown slightly gravelly slighty sandy CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		1.10							
1.0	Stiff grey slightly sandy gravelly CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		1.60			AA236837	B	1.70-1.80		
	Stiff grey slightly sandy very gravelly CLAY with medium cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		3.00			AA236838	B	2.90-3.00		
2.0										
3.0	End of Trial Pit at 3.00m									
4.0										
Groundwater Conditions										
Stability Poor stability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location.										

		TRIAL PIT RECORD						REPORT NUMBER 25758		
CONTRACT Mt. Avenue							TRIAL PIT NO. TP52 SHEET Sheet 1 of 1			
LOGGED BY Patrick Ryan				CO-ORDINATES GROUND LEVEL (m)			DATE STARTED 29/11/2024 DATE COMPLETED 29/11/2024			
CLIENT ENGINEER DBFL Consulting Engineers							EXCAVATION METHOD			
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm brown slightly gravelly slightly sandy CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		0.30			AA236842	B	0.50-1.60		
1.0	Stiff grey mottled brown slightly sandy slightly gravelly CLAY with medium cobble content subangular to subrounded and low boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.									
2.0	Medium dense grey clayey sandy GRAVEL with medium cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		1.70			AA236843	B	1.70-1.80		
2.40	Stiff grey mottled brown slightly gravelly sandy CLAY with low cobble content subangular to rounded and low boulder content rounded. Gravels are subangular to subrounded fine to coarse.		2.40			AA236844	B	2.40-2.50		
3.0	End of Trial Pit at 3.00m		3.00		 (Moderate)					
4.0										
Groundwater Conditions Incursion at 2.8m										
Stability Poor stability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location.										

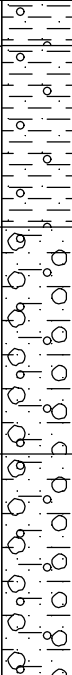
		TRIAL PIT RECORD						REPORT NUMBER 25758		
CONTRACT Mt. Avenue						TRIAL PIT NO. TP53 SHEET Sheet 1 of 1				
LOGGED BY Patrick Ryan			CO-ORDINATES GROUND LEVEL (m)			DATE STARTED 29/11/2024 DATE COMPLETED 29/11/2024				
CLIENT ENGINEER DBFL Consulting Engineers						EXCAVATION METHOD				
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm brown slightly gravelly slightly sandy CLAY. Gravels are subangular to subrounded fine to coarse.		0.20			AA236845	B	0.50-0.60		
1.0	Stiff brown mottled grey slightly sandy slightly gravelly CLAY with low cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.									
2.0	Very stiff brown mottled grey slightly sandy gravelly CLAY with medium cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		2.00			AA236846	B	2.00-2.10		
3.0	End of Trial Pit at 3.00m		3.00			AA236847	B	2.90-3.00		
4.0										
Groundwater Conditions										
Stability Slight instability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location.										

		TRIAL PIT RECORD						REPORT NUMBER 25758		
CONTRACT Mt. Avenue							TRIAL PIT NO. TP54 SHEET Sheet 1 of 1			
LOGGED BY Patrick Ryan				CO-ORDINATES GROUND LEVEL (m)			DATE STARTED 29/11/2024 DATE COMPLETED 29/11/2024			
CLIENT ENGINEER DBFL Consulting Engineers							EXCAVATION METHOD			
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	MADEGROUND Firm browb slightly sandy slightly gravelly CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		0.30							
1.0	Stiff brown mottled red slightly sandy slightly gravelly CLAY with low cobble content sub angular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.					AA236848	B	1.00-1.10		
2.0	Medium desne grey very sandy GRAVEL with medium cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		1.80			AA236849	B	1.80-1.90		
3.0	Medium dense grey clayey sandy GRAVEL with medium cobble content subangular to subrounded and medium boulder content subangular. Gravels are subangular to subrounded fine to coarse.		2.70			AA236850	B	2.90-3.00		
	End of Trial Pit at 3.00m		3.00							
4.0										
Groundwater Conditions										
Stability Moderate instability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location.										

		TRIAL PIT RECORD						REPORT NUMBER 25758		
CONTRACT Mt. Avenue							TRIAL PIT NO. TP55 SHEET Sheet 1 of 1			
LOGGED BY Patrick Ryan				CO-ORDINATES GROUND LEVEL (m)			DATE STARTED 29/11/2024 DATE COMPLETED 29/11/2024			
CLIENT ENGINEER DBFL Consulting Engineers							EXCAVATION METHOD			
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm brown slightly gravelly slightly sandy CLAY. Gravels are subangular to subrounded fine to coarse.		0.20			AA246801	B	0.40-0.50		
	Stiff brown slightly sandy gravelly CLAY with low cobbles subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		1.70			AA246802	B	1.90-2.00		
	Stiff brown mottled red slightly gravelly slightly sandy CLAY with low cobble content subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		2.40			AA246803	B	2.50-2.60		
	Medium dense grey clayey sandy GRAVEL with low cobble content sub angular to subrounded. Gravels are subangular to subrounded fine to coarse.		3.00							
3.0	End of Trial Pit at 3.00m									
4.0										
Groundwater Conditions										
Stability Slight to moderate instability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location.										

		TRIAL PIT RECORD						REPORT NUMBER 25758		
CONTRACT Mt. Avenue						TRIAL PIT NO. TP56 SHEET Sheet 1 of 1				
LOGGED BY Patrick Ryan			CO-ORDINATES GROUND LEVEL (m)			DATE STARTED 29/11/2024 DATE COMPLETED 29/11/2024				
CLIENT ENGINEER DBFL Consulting Engineers						EXCAVATION METHOD				
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm brown slightly gravelly slightly sandy CLAY. Gravels are subangular to subrounded fine to coarse.		0.20			AA246804	B	0.60-0.70		
1.0	Stiff brown gravelly sandy CLAY with medium cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		1.20			AA246805	B	1.20-1.30		
2.0	Medium dense brown slightly gravelly clayey SAND with low cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		2.10							
3.0	Stiff brown slightly sandy gravelly CLAY with medium cobble content angular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		3.00			AA246806	B	2.70-2.80		
4.0	End of Trial Pit at 3.00m									
Groundwater Conditions										
Stability Slight instability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location.										

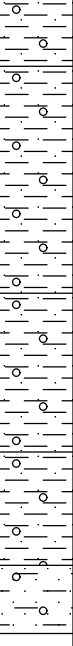
		TRIAL PIT RECORD						REPORT NUMBER 25758	
CONTRACT Mt. Avenue						TRIAL PIT NO. TP57 SHEET Sheet 1 of 1			
LOGGED BY Patrick Ryan			CO-ORDINATES GROUND LEVEL (m)			DATE STARTED 29/11/2024 DATE COMPLETED 29/11/2024			
CLIENT ENGINEER DBFL Consulting Engineers						EXCAVATION METHOD			

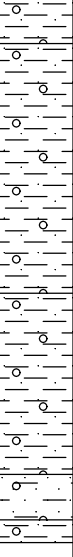
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm brown slightly gravelly slightly sandy CLAY. Gravels are subangular to subrounded fine to coarse.		0.20							
	Stiff brown slightly gravelly slightly sandy CLAY with medium cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.					AA246807	B	0.50-0.60		
1.0	Medium dense brown slightly clayey gravelly SAND with low cobble content subangular to subrounded and low boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		1.00			AA246808	B	1.00-1.10		
2.0	Medium dense brown slightly clayey gravelly SAND with medium cobble content subangular to subrounded and low boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		2.00			AA246809	B	2.00-2.10		
3.0	End of Trial Pit at 3.00m		3.00							
4.0										

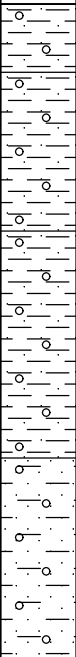
Groundwater Conditions

Stability
 Slight to moderate instability

General Remarks
 CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location.

		TRIAL PIT RECORD						REPORT NUMBER 25758		
CONTRACT Mt. Avenue						TRIAL PIT NO. TP58 SHEET Sheet 1 of 1				
LOGGED BY Patrick Ryan			CO-ORDINATES GROUND LEVEL (m)			DATE STARTED 02/12/2024 DATE COMPLETED 02/12/2024				
CLIENT ENGINEER DBFL Consulting Engineers						EXCAVATION METHOD				
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly gravelly slightly sandy CLAY. Gravels are subangular to subrounded fine to coarse.		0.30			AA246815	B	0.50-0.60		
	Stiff brown slightly gravelly slightly sandy CLAY with medium cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		1.30			AA246815	B	1.50-1.60		
1.0	Firm grey slightly sandy gravelly CLAY with low cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		2.00							
2.0	Firm grey slightly sandy gravelly CLAY with low cobble content subangular to subrounded and medium boulder content subangular. Gravels are subangular to subrounded fine to coarse.		2.50			AA246815	B	2.40-2.50		
	Medium dense grey slightly clayey gravelly SAND with medium cobble content subangular to subrounded and medium boulder content subangular. Gravels are subangular to subrounded fine to coarse.		2.80							
3.0	End of Trial Pit at 2.80m									
4.0										
Groundwater Conditions										
Stability Slight to moderate instability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated at 2.8m due to refusal on weathered Greywacke rockhead										

		TRIAL PIT RECORD						REPORT NUMBER 25758		
CONTRACT Mt. Avenue						TRIAL PIT NO. TP59 SHEET Sheet 1 of 1				
LOGGED BY Patrick Ryan			CO-ORDINATES GROUND LEVEL (m)			DATE STARTED 29/11/2024 DATE COMPLETED 29/11/2024				
CLIENT ENGINEER DBFL Consulting Engineers						EXCAVATION METHOD				
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly gravelly slightly sandy CLAY. Gravels are subangular to subrounded fine to coarse.		0.20			AA246811	B	0.50-0.60		
	Stiff brown slightly gravelly sandy CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.									
1.0										
	Stiff grey multicoloured black and red slightly gravelly slightly sandy CLAY with low cobble content subangular to rounded. Gravels are subangular to subrounded fine to coarse.		1.30			AA246812	B	1.30-1.40		
2.0	Medium dense grey slightly clayey gravelly SAND with medium cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		2.10			AA246813	B	2.10-2.20		
	Firm brown mottled red slightly sandy slightly gravelly CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		2.30							
			2.40			AA246814	B	2.40-2.40		
	End of Trial Pit at 2.40m									
3.0										
4.0										
Groundwater Conditions										
Stability Moderate instability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated at 2.4m due to refusal on weathered Greywacke rockhead										

		TRIAL PIT RECORD						REPORT NUMBER 25758		
CONTRACT Mt. Avenue							TRIAL PIT NO. TP60 SHEET Sheet 1 of 1			
LOGGED BY Patrick Ryan				CO-ORDINATES GROUND LEVEL (m)			DATE STARTED 02/12/2024 DATE COMPLETED 02/12/2024			
CLIENT ENGINEER DBFL Consulting Engineers							EXCAVATION METHOD			
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly gravelly slightly sandy CLAY. Gravels are subangular to subrounded fine to coarse.		0.30			AA246818	B	0.50-0.60		
	Stiff brown slightly gravelly sandy CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		1.00							
1.0	Stiff brown slightly gravelly sandy CLAY with medium cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		2.00			AA246819	B	2.00-2.10		
2.0	Medium dense brown slightly clayey gravelly SAND with medium cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		2.90 3.00			AA246820	B	2.90-3.00		
3.0	Medium dense grey slightly clayey sandy GRAVEL with medium cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse. End of Trial Pit at 3.00m									
4.0										
Groundwater Conditions										
Stability Slight instability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location.										

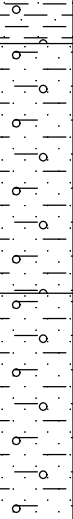
		TRIAL PIT RECORD						REPORT NUMBER 25758	
CONTRACT Mt. Avenue						TRIAL PIT NO. TP61			
LOGGED BY Patrick Ryan						SHEET Sheet 1 of 1			
CO-ORDINATES						DATE STARTED 04/12/2024 DATE COMPLETED 04/12/2024			
CLIENT ENGINEER DBFL Consulting Engineers						GROUND LEVEL (m)			
EXCAVATION METHOD									

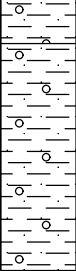
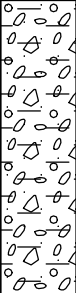
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly gravelly slightly sandy CLAY. Gravels are subangular to subrounded fine to coarse.		0.20							
	Medium dense clayey gravelly SAND with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.					AA235771	B	0.50-0.60		
1.0										
	Stiff grey slightly sandy gravelly CLAY with medium cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		1.50			AA235772	B	1.80-1.90		
2.0										
	Stiff grey slightly sandy gravelly CLAY with medium cobble content subangular to subrounded and medium boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		2.60							
3.0	End of Trial Pit at 3.00m		3.00							
4.0										

Groundwater Conditions

Stability
 Good stability

General Remarks
 CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location.

		TRIAL PIT RECORD						REPORT NUMBER 25758		
CONTRACT Mt. Avenue						TRIAL PIT NO. TP62 SHEET Sheet 1 of 1				
LOGGED BY Patrick Ryan			CO-ORDINATES GROUND LEVEL (m)			DATE STARTED 05/12/2024 DATE COMPLETED 05/12/2024				
CLIENT ENGINEER DBFL Consulting Engineers						EXCAVATION METHOD				
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly gravelly slightly sandy CLAY. Gravels are subangular to subrounded fine to coarse.		0.20			AA235779	B	0.50-0.60		
1.0	Medium dense brown clayey gravelly SAND with low cobble content subangular to subrounded and low boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		1.30			AA235780	B	1.50-1.50		
2.0	Medium dense grey slightly clayey gravelly CLAY with low cobble content subangular to subrounded and low boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		2.30			AA235781	B	2.20-2.20		
	End of Trial Pit at 2.30m									
3.0										
4.0										
Groundwater Conditions										
Stability Slight to moderate instability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated at 2.3m on refusal of either tightly packed Greywacke boulders or weathered Greywacke rockhead										

		TRIAL PIT RECORD						REPORT NUMBER 25758		
CONTRACT Mt. Avenue						TRIAL PIT NO. TP63 SHEET Sheet 1 of 1				
LOGGED BY Patrick Ryan			CO-ORDINATES GROUND LEVEL (m)			DATE STARTED 04/12/2024 DATE COMPLETED 04/12/2024				
CLIENT ENGINEER DBFL Consulting Engineers						EXCAVATION METHOD				
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly gravelly slightly sandy CLAY. Gravels are subangular to subrounded fine to coarse.		0.20			AA235768	B	0.50-0.60		
	Stiff brown slightly gravelly sandy CLAY with low cobble content subangular to rounded. Gravels are subangular to subrounded fine to coarse.									
1.0	Medium dense grey clayey sandy GRAVEL with medium cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		1.20			AA235769	B	1.30-1.40		
2.0			2.50							
	Stiff grey slightly sandy gravelly CLAY with medium cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.					AA235770	B	2.70-2.80		
3.0	End of Trial Pit at 3.00m		3.00							
4.0										
Groundwater Conditions										
Stability Good stability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location.										

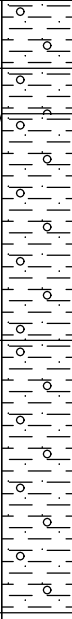
		TRIAL PIT RECORD						REPORT NUMBER 25758	
CONTRACT Mt. Avenue						TRIAL PIT NO. TP64 SHEET Sheet 1 of 1			
LOGGED BY Patrick Ryan			CO-ORDINATES GROUND LEVEL (m)			DATE STARTED 04/12/2024 DATE COMPLETED 04/12/2024			
CLIENT ENGINEER DBFL Consulting Engineers						EXCAVATION METHOD			

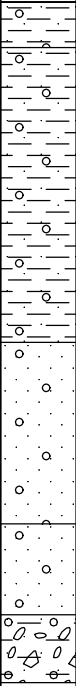
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly gravelly slightly sandy CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		0.30							
	Medium dense grey mottled brown clayey sandy GRAVEL with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		0.90			AA235761	B	0.50-0.60		
1.0	Stiff brown slightly gravelly sandy CLAY with medium cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.					AA235762	B	1.00-1.10		
2.0	Medium dense brown slightly sandy clayey GRAVEL medium cobble content subangular to subrounded and medium boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		2.10			AA235763	B	2.20-2.30		
	Stiff brown slightly sandy gravelly CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		2.70			AA235764	B	2.80-2.90		
3.0	End of Trial Pit at 3.00m		3.00							
4.0										

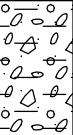
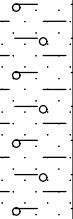
Groundwater Conditions

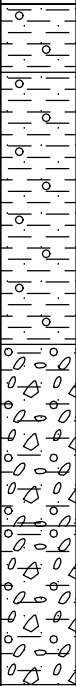
Stability
 Good stability

General Remarks
 CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location.

		TRIAL PIT RECORD						REPORT NUMBER 25758		
CONTRACT Mt. Avenue						TRIAL PIT NO. TP65 SHEET Sheet 1 of 1				
LOGGED BY Patrick Ryan			CO-ORDINATES GROUND LEVEL (m)			DATE STARTED 04/12/2024 DATE COMPLETED 04/12/2024				
CLIENT ENGINEER DBFL Consulting Engineers						EXCAVATION METHOD				
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly gravelly slightly sandy CLAY. Gravels are subangular to subrounded fine to coarse.		0.30							
	Stiff brown slightly sandy slightly gravelly CLAY with low cobble content subangular to subrounded and low boulder content subangular. Gravels are subangular to subrounded fine to coarse.		0.50			AA235758	B	0.40-0.50		
1.0	Stiff brown slightly sandy slightly gravelly CLAY with medium cobble content subangular to subrounded and medium boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		1.50			AA235759	B	1.50-1.60		
2.0	Firm brown sandy gravelly CLAY with low cobble content subangular to subrounded and low boulder content subangular. Gravels are subangular to subrounded fine to coarse.		2.70			AA235760	B	2.60-2.70		
	End of Trial Pit at 2.70m									
3.0										
4.0										
Groundwater Conditions										
Stability Good stability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated at 2.7m on refusal of tightly packed Greywacke boulders.										

		TRIAL PIT RECORD						REPORT NUMBER 25758		
CONTRACT Mt. Avenue							TRIAL PIT NO. TP66 SHEET Sheet 1 of 1			
LOGGED BY Patrick Ryan				CO-ORDINATES GROUND LEVEL (m)			DATE STARTED 04/12/2024 DATE COMPLETED 04/12/2024			
CLIENT ENGINEER DBFL Consulting Engineers							EXCAVATION METHOD			
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly gravelly slightly sandy CLAY. Gravels are subangular to subrounded fine to coarse.		0.20			AA235765	B	0.50-0.60		
	Stiff brown slightly gravelly sandy CLAY with low cobble content subangular to subrounded and low boulder content rounded. Gravels are subangular to subrounded fine to coarse.									
1.0										
	Medium dense brown gravelly SAND with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		1.50			AA235766	B	1.60-1.70		
2.0										
	Medium dense brown gravelly SAND with high cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		2.30							
	Medium dense brown slightly clayey sandy GRAVEL with low cobble content subangular to subrounded and low boulder content subrounded to rounded. Gravels are subangular to subrounded fine to coarse.		2.70			AA235767	B	2.80-2.90		
3.0	End of Trial Pit at 3.00m		3.00							
4.0										
Groundwater Conditions										
Stability Moderate instability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location.										

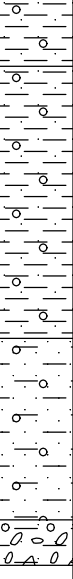
		TRIAL PIT RECORD						REPORT NUMBER 25758		
CONTRACT Mt. Avenue						TRIAL PIT NO. TP67 SHEET Sheet 1 of 1				
LOGGED BY Patrick Ryan			CO-ORDINATES GROUND LEVEL (m)			DATE STARTED 04/12/2024 DATE COMPLETED 04/12/2024				
CLIENT ENGINEER DBFL Consulting Engineers						EXCAVATION METHOD				
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly gravelly slightly sandy CLAY. Gravels are subangular to subrounded fine to coarse. Stiff brown slightly gravelly sandy CLAY with low cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		0.20			AA235773	B	0.50-0.60		
1.0	Medium dense slightly clayey sandy GRAVEL with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		1.40			AA235774	B	1.60-1.70		
2.0	Medium dense brown slightly clayey gravelly SAND with medium cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		2.00			AA235775	B	2.10-2.20		
3.0	End of Trial Pit at 3.00m		3.00							
4.0										
Groundwater Conditions										
Stability Slight to moderate instability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location.										

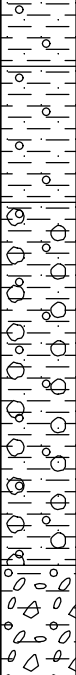
		TRIAL PIT RECORD						REPORT NUMBER 25758		
CONTRACT Mt. Avenue						TRIAL PIT NO. TP68 SHEET Sheet 1 of 1				
LOGGED BY Patrick Ryan			CO-ORDINATES GROUND LEVEL (m)			DATE STARTED 04/12/2024 DATE COMPLETED 04/12/2024				
CLIENT ENGINEER DBFL Consulting Engineers						EXCAVATION METHOD				
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly gravelly slightly sandy CLAY. Gravels are subangular to subrounded fine to coarse.		0.30			AA235776	B	0.50-0.60		
1.0	Stiff brown slightly gravelly sandy CLAY with medium cobble content subangular to subrounded and low boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		1.50			AA235777	B	1.80-1.90		
2.0	Medium dense grey slightly clayey sandy GRAVEL with low cobble content subangular to subrounded and low boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		2.30							
3.0	Medium dense grey slightly clayey sandy GRAVEL with medium cobble content subangular to subrounded and low boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		3.00			AA235778	B	2.80-3.00		
4.0	End of Trial Pit at 3.00m									
Groundwater Conditions										
Stability Good stability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location.										

		TRIAL PIT RECORD						REPORT NUMBER 25758		
CONTRACT Mt. Avenue							TRIAL PIT NO. TP69 SHEET Sheet 1 of 1			
LOGGED BY Patrick Ryan				CO-ORDINATES GROUND LEVEL (m)			DATE STARTED 05/12/2024 DATE COMPLETED 05/12/2024			
CLIENT ENGINEER DBFL Consulting Engineers							EXCAVATION METHOD			
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly gravelly slightly sandy CLAY. Gravels are subangular to subrounded fine to coarse.		0.30			AA235782	B	0.50-0.60		
	Stiff brown sandy gravelly CLAY with low cobble content subangular and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.									
1.0										
	Medium dense brown slightly clayey gravelly SAND with low cobble content subangular to subrounded and low boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.									
2.0			1.40			AA235783	B	1.60-1.70		
	Medium dense brown slightly clayey sandy GRAVEL with medium cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.									
2.40			2.40			AA235784	B	2.50-2.60		
2.80	End of Trial Pit at 2.80m									
3.0										
4.0										
Groundwater Conditions										
Stability Slight instability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated at 2.8m on refusal of tightly packed Greywacke boulders										

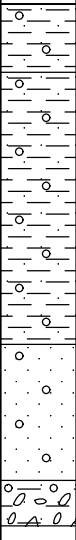
		TRIAL PIT RECORD						REPORT NUMBER 25758		
CONTRACT Mt. Avenue							TRIAL PIT NO. TP72 SHEET Sheet 1 of 1			
LOGGED BY Patrick Ryan				CO-ORDINATES GROUND LEVEL (m)			DATE STARTED 05/12/2024 DATE COMPLETED 05/12/2024			
CLIENT ENGINEER DBFL Consulting Engineers							EXCAVATION METHOD			
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly gravelly slightly sandy CLAY. Gravels are subangular to subrounded fine to coarse.		0.30			AA235790	B	0.50-0.60		
	Firm brown slightly sandy gravelly CLAY with low cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.									
1.0										
	Stiff brown slightly gravelly slightly sandy CLAY with medium cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.									
2.0	Medium dense grey slightly clayey sandy GRAVEL with medium cobble content subangular to subrounded and medium boulder content subangular to subrounded. Gravels are subangular to subrounded fine to coarse. End of Trial Pit at 2.00m		1.90 2.00			AA235792	B	1.90-2.00		
3.0										
4.0										
Groundwater Conditions										
Stability Poor stability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated at 2.0m on refusal of Greywacke boulders										

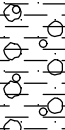
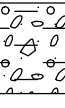
IGSL TP LOG 25758.GPJ IGSL.GDT 23/1/25

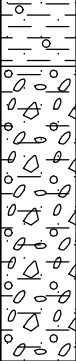
		TRIAL PIT RECORD						REPORT NUMBER 25758		
CONTRACT Mt. Avenue							TRIAL PIT NO. TP73 SHEET Sheet 1 of 1			
LOGGED BY Patrick Ryan				CO-ORDINATES GROUND LEVEL (m)			DATE STARTED 03/12/2024 DATE COMPLETED 03/12/2024			
CLIENT ENGINEER DBFL Consulting Engineers							EXCAVATION METHOD			
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly gravelly slightly sandy CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		0.30			AA246848	B	0.50-0.60		
	Stiff brown slightly sandy gravelly CLAY with medium cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.									
1.0										
	Medium dense grey clayey gravelly SAND with medium cobble content angular to subangular and medium boulder content angular to subangular. Gravels are subangular to subrounded fine to coarse.		1.50			AA246849	B	1.50-1.60		
2.0										
	Medium desne grey slightly clayey sandy GRAVEL with medium cobble content angular to subangular and medium boulder content angular to subangular. Gravels are subangular to subrounded fine to coarse.		2.30			AA246850	B	2.40-2.50		
	End of Trial Pit at 2.50m		2.50							
3.0										
4.0										
Groundwater Conditions										
Stability Moderate instability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated at 2.3m on refusal of weathered Greywacke rockhead										

		TRIAL PIT RECORD						REPORT NUMBER 25758		
CONTRACT Mt. Avenue						TRIAL PIT NO. TP74 SHEET Sheet 1 of 1				
LOGGED BY Patrick Ryan			CO-ORDINATES GROUND LEVEL (m)			DATE STARTED 03/12/2024 DATE COMPLETED 03/12/2024				
CLIENT ENGINEER DBFL Consulting Engineers						EXCAVATION METHOD				
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly gravelly slightly sandy CLAY. Gravels are subangular to subrounded fine to coarse.		0.30			AA235755	B	0.50-0.60		
	Stiff brown slightly gravelly sandy CLAY with low cobble content angular to subangular. Gravels are subangular to subrounded fine to coarse.		0.90							
1.0	Stiff brown mottled black slightly sandy gravelly CLAY with medium cobbles angular to subangular and low boulder content angular to subangular. Gravels are subangular to subrounded fine to coarse.					AA235756	B	1.20-1.30		
2.0										
	Medium dense grey slightly clayey GRAVEL with medium cobble content subangular to subrounded and medium boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		2.50			AA235757	B	2.60-2.70		
3.0	End of Trial Pit at 3.00m		3.00							
4.0										
Groundwater Conditions										
Stability Poor stability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location.										

		TRIAL PIT RECORD						REPORT NUMBER 25758		
CONTRACT Mt. Avenue							TRIAL PIT NO. TP75 SHEET Sheet 1 of 1			
LOGGED BY Patrick Ryan				CO-ORDINATES GROUND LEVEL (m)			DATE STARTED 03/12/2024 DATE COMPLETED 03/12/2024			
CLIENT ENGINEER DBFL Consulting Engineers							EXCAVATION METHOD			
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly gravelly slightly sandy CLAY. Gravels are subangular to subrounded fine to coarse.		0.30			AA235751	B	0.50-0.60		
	Firm brown mottled grey slightly gravelly slightly sandy SILT with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.									
1.0										
	Stiff grey slightly sandy gravelly CLAY with medium cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		1.70			AA235752	B	1.80-1.90		
2.0	Medium dense grey clayey gravelly SAND with medium cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		2.00			AA235753	B	2.10-2.20		
	Medium dense grey slightly clayey sandy GRAVEL with medium cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.	2.80			AA235754	B	2.80-2.90			
3.0	End of Trial Pit at 3.00m		3.00							
4.0										
Groundwater Conditions										
Stability Good stability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location.										

		TRIAL PIT RECORD						REPORT NUMBER 25758		
CONTRACT Mt. Avenue						TRIAL PIT NO. TP76 SHEET Sheet 1 of 1				
LOGGED BY Patrick Ryan			CO-ORDINATES GROUND LEVEL (m)			DATE STARTED 02/12/2024 DATE COMPLETED 02/12/2024				
CLIENT ENGINEER DBFL Consulting Engineers						EXCAVATION METHOD				
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly gravelly slightly sandy CLAY. Gravels are subangular to subrounded fine to coarse.		0.30			AA246821	B	0.50-0.60		
	Stiff brown slightly gravelly slightly sandy CLAY with low cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		1.50			AA246822	B	1.50-1.60		
2.0	Medium dense brown slightly gravelly SAND with medium cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		2.10			AA246823	B	2.10-2.20		
	Medium dense grey slightly clayey sandy GRAVEL with medium cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse. End of Trial Pit at 2.30m		2.30							
3.0										
4.0										
Groundwater Conditions										
Stability Slight instability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated at 2.3m on refusal of weathered Greywacke rockhead										

		TRIAL PIT RECORD						REPORT NUMBER 25758		
CONTRACT Mt. Avenue						TRIAL PIT NO. TP77 SHEET Sheet 1 of 1				
LOGGED BY Patrick Ryan			CO-ORDINATES GROUND LEVEL (m)			DATE STARTED 02/12/2024 DATE COMPLETED 02/12/2024				
CLIENT ENGINEER DBFL Consulting Engineers						EXCAVATION METHOD				
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	MADEGROUND Firm brown slightly gravelly slightly sandy CLAY with low cobble content cobbles subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		0.60			AA246824	B	0.40-0.50		
	Stiff grey slightly sandy CLAY. Gravels are subangular to subrounded fine to coarse.					AA246825	B	0.70-0.80		
1.0										
2.0	Firm grey slightly sandy slightly clayey GRAVEL with medium cobble content angular to subangular and low boulder content subangular. Gravels are subangular to subrounded fine to coarse.		2.00		 (Rapid)	AA246826	B	2.20-2.30		
	End of Trial Pit at 2.40m		2.40							
3.0										
4.0										
Groundwater Conditions Incursion at 2.2m										
Stability Moderate instability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated at 2.2m due to rapid ground water strike										

		TRIAL PIT RECORD						REPORT NUMBER 25758		
CONTRACT Mt. Avenue						TRIAL PIT NO. TP78 SHEET Sheet 1 of 1				
LOGGED BY Patrick Ryan			CO-ORDINATES GROUND LEVEL (m)			DATE STARTED 02/12/2024 DATE COMPLETED 02/12/2024				
CLIENT ENGINEER DBFL Consulting Engineers						EXCAVATION METHOD				
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly gravelly slightly sandy CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse. Medium dense grey slightly clayey slightly sandy GRAVEL with medium cobble content angular to subangular and medium boulder content angular to subangular. Gravels are subangular to subrounded fine to coarse.		0.30			AA246827	B	0.50-0.60		
1.0			1.60			AA246828	B	1.50-1.60		
End of Trial Pit at 1.60m										
2.0										
3.0										
4.0										
Groundwater Conditions										
Stability Slight instability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated at 1.6m on refusal of weathered Greywacke rockhead										

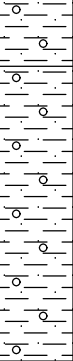
		TRIAL PIT RECORD						REPORT NUMBER 25758	
CONTRACT Mt. Avenue						TRIAL PIT NO. TP79 SHEET Sheet 1 of 1			
LOGGED BY Patrick Ryan			CO-ORDINATES GROUND LEVEL (m)			DATE STARTED 02/12/2024 DATE COMPLETED 02/12/2024			
CLIENT ENGINEER DBFL Consulting Engineers						EXCAVATION METHOD			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly gravelly slightly sandy CLAY. Gravels are subangular to subrounded fine to coarse.									
	Stiff brown slightly gravelly sandy CLAY with low cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.					AA246829	B	0.60-0.70		
1.0										
	Firm grey sandy gravelly CLAY with low cobble content subangular to subrounded and low boulder content subangular. Gravels are subangular to subrounded fine to coarse.					AA246830	B	1.70-1.80		
2.0	End of Trial Pit at 2.40m		2.40		 (Rapid)					
3.0										
4.0										

Groundwater Conditions
 Incursion at 2.3m

Stability
 Slight to moderate instability

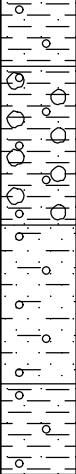
General Remarks
 CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated at 2.3m due to rapid ground water strike

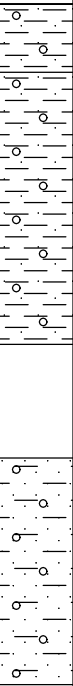
		TRIAL PIT RECORD						REPORT NUMBER 25758		
CONTRACT Mt. Avenue						TRIAL PIT NO. TP80 SHEET Sheet 1 of 1				
LOGGED BY Patrick Ryan			CO-ORDINATES GROUND LEVEL (m)			DATE STARTED 02/12/2024 DATE COMPLETED 02/12/2024				
CLIENT ENGINEER DBFL Consulting Engineers						EXCAVATION METHOD				
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly gravelly slightly sandy CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse. Stiff brown slightly gravelly slightly sandy CLAY with low cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		0.30			AA246831	B	0.50-0.60		
1.0			1.60			AA246832	B	1.60-1.70		
2.0	Stiff light grey mottled yellow slightly sandy clayey SILT.									
2.50	End of Trial Pit at 2.50m				 (Rapid)					
3.0										
4.0										

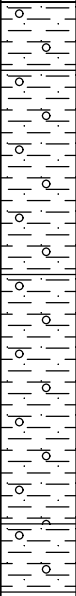
Groundwater Conditions
 Incursion at 2.5m

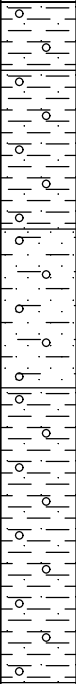
Stability
 Slight to moderate instability

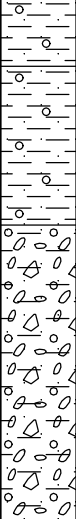
General Remarks
 CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated at 2.5m due to rapid ground water strike

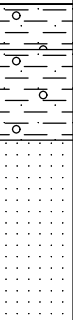
		TRIAL PIT RECORD						REPORT NUMBER 25758		
CONTRACT Mt. Avenue							TRIAL PIT NO. TP81 SHEET Sheet 1 of 1			
LOGGED BY Patrick Ryan				CO-ORDINATES GROUND LEVEL (m)			DATE STARTED 02/12/2024 DATE COMPLETED 02/12/2024			
CLIENT ENGINEER DBFL Consulting Engineers							EXCAVATION METHOD			
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly gravelly slightly sandy CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		0.30							
	Stiff brown slightly gravelly sandy CLAY with low cobbles subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		1.00							
1.0	Medium dense grey slightly clayey gravelly SAND with medium cobble content subangular subrounded and low boulder content angular to subangular. Gravels are subangular to subrounded fine to coarse.		1.70							
2.0	Firm brown slightly sandy gravelly CLAY with high cobble content subangular subrounded and medium boulder content angular to subangular. Gravels are subangular to subrounded fine to coarse.		2.10							
	End of Trial Pit at 2.10m									
3.0										
4.0										
Groundwater Conditions										
Stability Moderate instability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated at 2.1m on refusal of weathered Greywacke rockhead										

		TRIAL PIT RECORD						REPORT NUMBER 25758		
CONTRACT Mt. Avenue							TRIAL PIT NO. TP82 SHEET Sheet 1 of 1			
LOGGED BY Patrick Ryan				CO-ORDINATES GROUND LEVEL (m)			DATE STARTED 03/12/2024 DATE COMPLETED 03/12/2024			
CLIENT ENGINEER DBFL Consulting Engineers							EXCAVATION METHOD			
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly gravelly slightly sandy CLAY. Gravels are subangular to subrounded fine to coarse.		0.30			AA246836	B	0.50-0.60		
	Firm brown slightly gravelly slightly sandy CLAY with low cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.									
1.0										
	Firm grey mottled yellow slightly sandy slightly clayey SILT.		1.50			AA246837	B	1.70-1.80		
2.0	Medium dense multicoloured grey yellow black slightly gravelly slightly clayey SAND with low cobble content subangular to subrounded and low boulder content subangular. Gravels are subangular to subrounded fine to coarse.		2.00			AA246838	B	2.10-2.20		
3.0	End of Trial Pit at 3.00m		3.00							
4.0										
Groundwater Conditions										
Stability Poor stability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location.										

		TRIAL PIT RECORD						REPORT NUMBER 25758		
CONTRACT Mt. Avenue							TRIAL PIT NO. TP83 SHEET Sheet 1 of 1			
LOGGED BY Patrick Ryan				CO-ORDINATES GROUND LEVEL (m)			DATE STARTED 03/12/2024 DATE COMPLETED 03/12/2024			
CLIENT ENGINEER DBFL Consulting Engineers							EXCAVATION METHOD			
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly gravelly slightly sandy CLAY. Gravels are subangular to subrounded fine to coarse.		0.30			AA246842	B	0.50-0.60		
	Firm brown slightly gravelly slightly sandy CLAY with low cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		1.20							
1.0	Firm grey slightly gravelly sandy CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		2.30			AA246843	B	1.50-1.60		
2.0	Firm grey slightly gravelly sandy CLAY with low cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		2.60							
	End of Trial Pit at 2.60m				 (Rapid)					
3.0										
4.0										
Groundwater Conditions Incursion at 2.3m										
Stability Slight to moderate instability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated at 2.6m due to rapid ground water strike										

		TRIAL PIT RECORD						REPORT NUMBER 25758		
CONTRACT Mt. Avenue						TRIAL PIT NO. TP84 SHEET Sheet 1 of 1				
LOGGED BY Patrick Ryan			CO-ORDINATES GROUND LEVEL (m)			DATE STARTED 03/12/2024 DATE COMPLETED 03/12/2024				
CLIENT ENGINEER DBFL Consulting Engineers						EXCAVATION METHOD				
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly gravelly slightly sandy CLAY. Gravels are subangular to subrounded fine to coarse.		0.30			AA246839	B	0.50-0.60		
	Firm brown slightly sandy gravelly CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		1.00			AA246840	B	1.20-1.30		
1.0	Medium dense grey slightly clayey gravelly SAND with low cobble content subangular to subrounded and low boulder content subrounded. Gravels are subangular to subrounded fine to coarse.		1.70			AA246841	B	1.80-1.90		
2.0	Stif grey slightly sandy gravelly CLAY with low cobble content subangular to subrounded and low boulder content rounded to subrounded. Gravels are subangular to subrounded fine to coarse.		3.00		 (Slow)					
3.0	End of Trial Pit at 3.00m									
4.0										
Groundwater Conditions Incursion at 3.0m										
Stability Poor stability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location.										

		TRIAL PIT RECORD						REPORT NUMBER 25758		
CONTRACT Mt. Avenue							TRIAL PIT NO. TP85			
LOGGED BY Patrick Ryan				CO-ORDINATES GROUND LEVEL (m)			SHEET Sheet 1 of 1			
CLIENT ENGINEER DBFL Consulting Engineers							DATE STARTED 03/12/2024 DATE COMPLETED 03/12/2024			
							EXCAVATION METHOD			
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly gravelly slightly sandy CLAY. Gravels are subangular to subrounded fine to medium.		0.30			AA246844	B	0.50-0.60		
	Stiff brown gravelly slightly sandy CLAY with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.		1.00			AA246845	B	1.50-1.60		
1.0	Medium dense grey clayey sandy GRAVEL with low cobble content subangular to subrounded. Gravels are subangular to subrounded fine to coarse.									
2.0	End of Trial Pit at 2.30m		2.30		 (Moderate)					
3.0										
4.0										
Groundwater Conditions Incursion at 2.0m										
Stability Poor stability										
General Remarks CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location. Pit terminated at 2.3m due to rapid ground water strike and refusal on weathered Greywacke rockhead										

		TRIAL PIT RECORD						REPORT NUMBER 25758		
CONTRACT Mt. Avenue						TRIAL PIT NO. TP86 SHEET Sheet 1 of 1				
LOGGED BY Patrick Ryan			CO-ORDINATES GROUND LEVEL (m)			DATE STARTED 03/12/2024 DATE COMPLETED 03/12/2024				
CLIENT ENGINEER DBFL Consulting Engineers						EXCAVATION METHOD				
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	Firm grey slightly gravelly slightly sandy CLAY. Gravels are subangular to subrounded fine to medium. Stiff brown slightly sandy gravelly CLAY with high cobble content angular to subangular and medium boulder content angular to subangular. Gravels are subangular to subrounded fine to coarse. Weathered greywacke rockhead.		0.20			AA246846	B	0.30-0.40		
0.60										
1.40										
	End of Trial Pit at 1.40m					AA246847	B	1.40-1.50		
1.0										
2.0										
3.0										
4.0										

Groundwater Conditions

Stability
 Slight instability

General Remarks
 CAT cable detector used to scan dig footprint ahead of breaking ground. Service drawings consulted ahead of setting out location.

Appendix 2
Laboratory Report



Final Report

Report No.: 25-03228-1

Initial Date of Issue: 18-Feb-2025

Re-Issue Details:

Client IGSL

Client Address: M7 Business Park
Naas
County Kildare
Ireland

Contact(s): Darren Keogh

Project 25758 Mount Avenue Dundalk

Quotation No.: Q24-34387

Date Received: 30-Jan-2025

Order No.:

Date Instructed: 30-Jan-2025

No. of Samples: 46

Turnaround (Wkdays): 7

Results Due: 07-Feb-2025

Date Approved: 18-Feb-2025

Approved By:

Details: David Smith, Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Leachate

Project: 25758 Mount Avenue Dundalk

Client: IGSL	Chemtest Job No.:					25-03228	25-03228	25-03228	25-03228	25-03228	25-03228	25-03228	25-03228	25-03228
Quotation No.: Q24-34387	Chemtest Sample ID.:					1925207	1925208	1925210	1925211	1925213	1925214	1925216	1925217	1925218
Order No.:	Client Sample Ref.:					TP2	TP4	TP12	TP14	TP16	TP18	TP22	TP24	TP26
	Sample Location:													
	Sample Type:					SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):					0.50	1.40	1.40	0.50	0.50	1.20	1.60	1.80	0.50
	Date Sampled:					26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024
Determinand	Accred.	SOP	Type	Units	LOD									
Ammonium	U	1220	10:1	mg/l	0.050	0.17	0.054	0.051	0.063	< 0.050	0.064	0.056	0.14	< 0.050
Ammonium	N	1220	10:1	mg/kg	0.10	2.0	0.65	0.60	0.69	0.60	0.67	0.69	1.4	0.50

Results - Leachate

Project: 25758 Mount Avenue Dundalk

Client: IGSL	Chemtest Job No.:					25-03228	25-03228	25-03228	25-03228	25-03228	25-03228	25-03228	25-03228	25-03228
Quotation No.: Q24-34387	Chemtest Sample ID.:					1925219	1925220	1925221	1925223	1925225	1925226	1925227	1925229	1925230
Order No.:	Client Sample Ref.:					TP28	TP30	TP34	TP38	TP40	TP42	TP44	TP48	TP50
	Sample Location:													
	Sample Type:					SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):					2.10	1.20	0.50	0.50	1.50	1.00	0.50	1.90	0.50
	Date Sampled:					26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024
Determinand	Accred.	SOP	Type	Units	LOD									
Ammonium	U	1220	10:1	mg/l	0.050	0.056	0.076	0.11	0.060	0.051	0.058	< 0.050	< 0.050	< 0.050
Ammonium	N	1220	10:1	mg/kg	0.10	0.58	0.78	1.1	0.64	0.53	0.58	0.48	0.43	0.39

Results - Leachate

Project: 25758 Mount Avenue Dundalk

Client: IGSL	Chemtest Job No.:					25-03228	25-03228	25-03228	25-03228	25-03228	25-03228	25-03228	25-03228	25-03228
Quotation No.: Q24-34387	Chemtest Sample ID.:					1925231	1925232	1925234	1925236	1925237	1925238	1925240	1925241	1925242
Order No.:	Client Sample Ref.:					TP52	TP54	TP58	TP60	TP62	TP64	TP66	TP68	TP70
	Sample Location:													
	Sample Type:					SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):					1.70	1.00	1.50	2.00	0.50	1.00	0.50	1.80	1.50
	Date Sampled:					26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024
Determinand	Accred.	SOP	Type	Units	LOD									
Ammonium	U	1220	10:1	mg/l	0.050	< 0.050	0.067	0.061	< 0.050	< 0.050	< 0.050	0.057	0.050	< 0.050
Ammonium	N	1220	10:1	mg/kg	0.10	0.49	0.70	0.63	0.65	0.50	0.27	0.57	0.52	0.51

Results - Leachate

Project: 25758 Mount Avenue Dundalk

Client: IGSL	Chemtest Job No.:						25-03228	25-03228	25-03228	25-03228	25-03228	25-03228	25-03228
Quotation No.: Q24-34387	Chemtest Sample ID.:						1925243	1925244	1925246	1925247	1925249	1925250	1925338
Order No.:	Client Sample Ref.:						TP72	TP74	TP76	TP78	TP82	TP86	
	Sample Location:												TP8
	Sample Type:						SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):						0.50	1.20	0.50	1.50	1.70	1.40	
	Date Sampled:						26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024
Determinand	Accred.	SOP	Type	Units	LOD								
Ammonium	U	1220	10:1	mg/l	0.050	0.056	< 0.050	< 0.050	0.057	< 0.050	< 0.050		I/S
Ammonium	N	1220	10:1	mg/kg	0.10	0.56	0.27	0.30	0.57	0.39	0.46		I/S

Results - Soil

Project: 25758 Mount Avenue Dundalk

Client: IGSL		Chemtest Job No.:		25-03228	25-03228	25-03228	25-03228	25-03228	25-03228	25-03228	25-03228
Quotation No.: Q24-34387		Chemtest Sample ID.:		1925206	1925207	1925208	1925209	1925210	1925211	1925212	
Order No.:		Client Sample Ref.:		TP1	TP2	TP4	TP5	TP12	TP14	TP15	
		Sample Location:									
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
		Top Depth (m):		1.70	0.50	1.40	1.60	1.40	0.50	1.40	
		Date Sampled:		26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	
		Asbestos Lab:			DURHAM	DURHAM		DURHAM	DURHAM	IN-TRAN-D	
Determinand	HWOL Code	Accred.	SOP	Units	LOD						
ACM Type		U	2192		N/A		-	-		-	-
Asbestos Identification		U	2192		N/A		No Asbestos Detected	No Asbestos Detected		No Asbestos Detected	No Asbestos Detected
Moisture		N	2030	%	0.020	18	13	9.5	11	8.9	9.7
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones	Stones	Stones	Stones	Stones
Soil Texture		N	2040		N/A	Clay	Clay	Sand	Clay	Sand	Sand
pH at 20C		M	2010		4.0		[B] 7.2	[B] 7.6		[B] 7.8	[B] 7.9
pH (2.5:1) at 20C		N	2010		4.0	[B] 7.0			[B] 7.4		[B] 7.4
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40		[B] < 0.40	[B] < 0.40		[B] < 0.40	[B] < 0.40
Magnesium (Water Soluble)		N	2120	g/l	0.010	[B] < 0.010			[B] < 0.010		[B] < 0.010
Sulphate (2:1 Water Soluble) as SO4		M	2120	g/l	0.010	[B] < 0.010			[B] < 0.010		[B] < 0.010
Total Sulphur		U	2175	%	0.010	[B] 0.010			[B] 0.010		[B] 0.010
Sulphur (Elemental)		M	2180	mg/kg	1.0		[B] < 1.0	[B] 3.6		[B] < 1.0	[B] < 1.0
Chloride (Water Soluble)		M	2220	g/l	0.010	[B] < 0.010			[B] < 0.010		[B] < 0.010
Nitrate (Water Soluble)		N	2220	g/l	0.010	< 0.010			< 0.010		< 0.010
Cyanide (Complex)		M	2300	mg/kg	0.50		[B] < 0.50	[B] < 0.50		[B] 0.70	[B] < 0.50
Cyanide (Free)		M	2300	mg/kg	0.50		[B] < 0.50	[B] < 0.50		[B] < 0.50	[B] < 0.50
Cyanide (Total)		M	2300	mg/kg	0.50		[B] < 0.50	[B] < 0.50		[B] 0.70	[B] < 0.50
Sulphide (Easily Liberatable)		N	2325	mg/kg	0.50		[B] 2.2	[B] 2.5		[B] 3.5	[B] 2.2
Ammonium (Water Soluble)		M	2220	g/l	0.01	< 0.01			< 0.01		< 0.01
Sulphate (Total)		U	2430	%	0.010		[B] 0.030	[B] 0.091		[B] 0.026	[B] 0.041
Sulphate (Acid Soluble)		U	2430	%	0.010	[B] 0.025			[B] 0.012		[B] 0.015
Arsenic		M	2455	mg/kg	0.5		11	7.0		12	10
Barium		M	2455	mg/kg	0.5		71	71		46	39
Cadmium		M	2455	mg/kg	0.10		0.12	0.27		0.12	0.17
Chromium		M	2455	mg/kg	0.5		51	54		62	44
Molybdenum		M	2455	mg/kg	0.5		< 0.5	< 0.5		< 0.5	< 0.5
Antimony		N	2455	mg/kg	2.0		< 2.0	< 2.0		< 2.0	< 2.0
Copper		M	2455	mg/kg	0.50		24	31		27	24
Mercury		M	2455	mg/kg	0.05		0.06	< 0.05		< 0.05	< 0.05
Nickel		M	2455	mg/kg	0.50		53	60		74	53
Lead		M	2455	mg/kg	0.50		19	36		23	23
Selenium		M	2455	mg/kg	0.25		0.37	0.54		0.41	0.47
Zinc		M	2455	mg/kg	0.50		73	140		95	73
Chromium (Trivalent)		N	2490	mg/kg	1.0		51	54		62	44
Chromium (Hexavalent)		N	2490	mg/kg	0.50		< 0.50	< 0.50		< 0.50	< 0.50

Results - Soil

Project: 25758 Mount Avenue Dundalk

Client: IGSL		Chemtest Job No.:	25-03228	25-03228	25-03228	25-03228	25-03228	25-03228	25-03228
Quotation No.: Q24-34387		Chemtest Sample ID.:	1925206	1925207	1925208	1925209	1925210	1925211	1925212
Order No.:		Client Sample Ref.:	TP1	TP2	TP4	TP5	TP12	TP14	TP15
		Sample Location:							
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	1.70	0.50	1.40	1.60	1.40	0.50	1.40
		Date Sampled:	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024
		Asbestos Lab:		DURHAM	DURHAM		DURHAM	DURHAM	IN-TRAN-D
Determinand	HWOL Code	Accred.	SOP	Units	LOD				
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05		[B] < 0.05	[B] < 0.05	
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05		[B] < 0.05	[B] < 0.05	
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05		[B] < 0.05	[B] < 0.05	
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10		[B] < 0.10	[B] < 0.10	
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05		[B] < 0.05	[B] < 0.05	
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25		[B] < 0.25	[B] < 0.25	
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00		[B] 2.2	[B] 3.4	
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00		[B] 1.7	[B] < 1.0	
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00		[B] 4.9	[B] 3.3	
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00		[B] 30	[B] 31	
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00		[B] < 10	[B] < 10	
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00		[B] 39	[B] 38	
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00		[B] 39	[B] 38	
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05		[B] < 0.05	[B] < 0.05	
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05		[B] < 0.05	[B] < 0.05	
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05		[B] < 0.05	[B] < 0.05	
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25		[B] < 0.25	[B] < 0.25	
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00		[B] 1.1	[B] 1.1	
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00		[B] < 1.0	[B] < 1.0	
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00		[B] 7.7	[B] 5.1	
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00		[B] 24	[B] 17	
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00		[B] 36	[B] 25	
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00		[B] 34	[B] 24	
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00		[B] 69	[B] 49	
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50		[B] < 0.50	[B] < 0.50	
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00		[B] 72	[B] 61	
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00		[B] 110	[B] 86	
Mineral Oil EPH		N	2670	mg/kg	10		39	38	
Benzene		M	2760	µg/kg	1.0		[B] < 1.0	[B] < 1.0	
Toluene		M	2760	µg/kg	1.0		[B] < 1.0	[B] < 1.0	
Ethylbenzene		M	2760	µg/kg	1.0		[B] < 1.0	[B] < 1.0	
m & p-Xylene		M	2760	µg/kg	1.0		[B] < 1.0	[B] < 1.0	
o-Xylene		M	2760	µg/kg	1.0		[B] < 1.0	[B] < 1.0	
Methyl Tert-Butyl Ether		M	2760	µg/kg	1.0		[B] < 1.0	[B] < 1.0	
Naphthalene		M	2800	mg/kg	0.10		< 0.10	< 0.10	
Acenaphthylene		N	2800	mg/kg	0.10		< 0.10	< 0.10	
Acenaphthene		M	2800	mg/kg	0.10		< 0.10	< 0.10	
Fluorene		M	2800	mg/kg	0.10		< 0.10	< 0.10	

Results - Soil

Project: 25758 Mount Avenue Dundalk

Client: IGSL		Chemtest Job No.:						25-03228	25-03228	25-03228	25-03228	25-03228	25-03228	25-03228
Quotation No.: Q24-34387		Chemtest Sample ID.:						1925206	1925207	1925208	1925209	1925210	1925211	1925212
Order No.:		Client Sample Ref.:						TP1	TP2	TP4	TP5	TP12	TP14	TP15
		Sample Location:												
		Sample Type:						SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):						1.70	0.50	1.40	1.60	1.40	0.50	1.40
		Date Sampled:						26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024
		Asbestos Lab:							DURHAM	DURHAM		DURHAM	DURHAM	IN-TRAN-D
Determinand	HWOL Code	Accred.	SOP	Units	LOD									
Phenanthrene		M	2800	mg/kg	0.10			< 0.10	< 0.10			< 0.10	< 0.10	
Anthracene		M	2800	mg/kg	0.10			< 0.10	< 0.10			< 0.10	< 0.10	
Fluoranthene		M	2800	mg/kg	0.10			0.16	< 0.10			< 0.10	< 0.10	
Pyrene		M	2800	mg/kg	0.10			0.10	< 0.10			< 0.10	< 0.10	
Benzo[a]anthracene		M	2800	mg/kg	0.10			< 0.10	< 0.10			< 0.10	< 0.10	
Chrysene		M	2800	mg/kg	0.10			< 0.10	< 0.10			< 0.10	< 0.10	
Benzo[b]fluoranthene		M	2800	mg/kg	0.10			< 0.10	< 0.10			< 0.10	< 0.10	
Benzo[k]fluoranthene		M	2800	mg/kg	0.10			< 0.10	< 0.10			< 0.10	< 0.10	
Benzo[a]pyrene		M	2800	mg/kg	0.10			< 0.10	< 0.10			< 0.10	< 0.10	
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10			< 0.10	< 0.10			< 0.10	< 0.10	
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10			< 0.10	< 0.10			< 0.10	< 0.10	
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10			< 0.10	< 0.10			< 0.10	< 0.10	
Coronene		N	2800	mg/kg	0.10			< 0.10	< 0.10			< 0.10	< 0.10	
Total Of 16 PAH's		N	2800	mg/kg	2.0			< 2.0	< 2.0			< 2.0	< 2.0	
Total Of 17 PAH's		N	2800	mg/kg	2.0			< 2.0	< 2.0			< 2.0	< 2.0	
PCB 28		U	2815	mg/kg	0.010			[B] < 0.010	[B] < 0.010			[B] < 0.010	[B] < 0.010	
PCB 52		U	2815	mg/kg	0.010			[B] < 0.010	[B] < 0.010			[B] < 0.010	[B] < 0.010	
PCB 101		U	2815	mg/kg	0.010			[B] < 0.010	[B] < 0.010			[B] < 0.010	[B] < 0.010	
PCB 118		U	2815	mg/kg	0.010			[B] < 0.010	[B] < 0.010			[B] < 0.010	[B] < 0.010	
PCB 153		U	2815	mg/kg	0.010			[B] < 0.010	[B] < 0.010			[B] < 0.010	[B] < 0.010	
PCB 138		U	2815	mg/kg	0.010			[B] < 0.010	[B] < 0.010			[B] < 0.010	[B] < 0.010	
PCB 180		U	2815	mg/kg	0.010			[B] < 0.010	[B] < 0.010			[B] < 0.010	[B] < 0.010	
Tot PCBs Low (7 Congeners)		N	2815	mg/kg	0.05			[B] < 0.05	[B] < 0.05			[B] < 0.05	[B] < 0.05	
Total Phenols		M	2920	mg/kg	0.10			< 0.10	< 0.10			< 0.10	< 0.10	

Results - Soil

Project: 25758 Mount Avenue Dundalk

Client: IGSL		Chemtest Job No.:		25-03228	25-03228	25-03228	25-03228	25-03228	25-03228	25-03228	25-03228	25-03228
Quotation No.: Q24-34387		Chemtest Sample ID.:		1925213	1925214	1925215	1925216	1925217	1925218	1925219		
Order No.:		Client Sample Ref.:		TP16	TP18	TP20	TP22	TP24	TP26	TP28		
		Sample Location:										
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
		Top Depth (m):		0.50	1.20	2.30	1.60	1.80	0.50	2.10		
		Date Sampled:		26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024		
		Asbestos Lab:		DURHAM	DURHAM	IN-TRAN-D	DURHAM	DURHAM	DURHAM	DURHAM		
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
ACM Type		U	2192		N/A	-	-		-	-	-	-
Asbestos Identification		U	2192		N/A	No Asbestos Detected	No Asbestos Detected		No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture		N	2030	%	0.020	12	13	8.4	9.0	13	11	9.6
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones	Stones	Stones	Stones	Stones	Stones
Soil Texture		N	2040		N/A	Sand	Clay	Clay	Sand	Clay	Clay	Sand
pH at 20C		M	2010		4.0		[B] 8.0			[B] 8.0	[B] 7.4	[B] 7.7
pH (2.5:1) at 20C		N	2010		4.0			[B] 8.3				
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	[B] < 0.40	[B] < 0.40		[B] < 0.40	[B] < 0.40	[B] < 0.40	[B] < 0.40
Magnesium (Water Soluble)		N	2120	g/l	0.010			[B] < 0.010				
Sulphate (2:1 Water Soluble) as SO4		M	2120	g/l	0.010			[B] < 0.010				
Total Sulphur		U	2175	%	0.010			[B] 0.010				
Sulphur (Elemental)		M	2180	mg/kg	1.0	[B] 3.6	[B] < 1.0		[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Chloride (Water Soluble)		M	2220	g/l	0.010			[B] < 0.010				
Nitrate (Water Soluble)		N	2220	g/l	0.010			< 0.010				
Cyanide (Complex)		M	2300	mg/kg	0.50		[B] < 0.50			[B] < 0.50	[B] < 0.50	[B] < 0.50
Cyanide (Free)		M	2300	mg/kg	0.50		[B] < 0.50			[B] < 0.50	[B] < 0.50	[B] < 0.50
Cyanide (Total)		M	2300	mg/kg	0.50	[B] < 0.50	[B] < 0.50		[B] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50
Sulphide (Easily Liberatable)		N	2325	mg/kg	0.50	[B] 2.6	[B] 3.0		[B] 13	[B] < 0.50	[B] 3.2	[B] 2.4
Ammonium (Water Soluble)		M	2220	g/l	0.01			< 0.01				
Sulphate (Total)		U	2430	%	0.010	[B] 0.023	[B] 0.055		[B] 0.013	[B] 0.064	[B] 0.016	[B] 0.034
Sulphate (Acid Soluble)		U	2430	%	0.010			[B] < 0.010				
Arsenic		M	2455	mg/kg	0.5	13	22		17	14	12	9.8
Barium		M	2455	mg/kg	0.5	62	99		61	61	100	47
Cadmium		M	2455	mg/kg	0.10	0.28	0.18		0.49	0.13	0.13	0.25
Chromium		M	2455	mg/kg	0.5	56	77		48	60	59	46
Molybdenum		M	2455	mg/kg	0.5	< 0.5	< 0.5		0.5	< 0.5	< 0.5	< 0.5
Antimony		N	2455	mg/kg	2.0	< 2.0	< 2.0		< 2.0	< 2.0	< 2.0	< 2.0
Copper		M	2455	mg/kg	0.50	38	27		43	28	40	33
Mercury		M	2455	mg/kg	0.05	< 0.05	0.08		< 0.05	< 0.05	< 0.05	< 0.05
Nickel		M	2455	mg/kg	0.50	70	72		58	61	68	48
Lead		M	2455	mg/kg	0.50	28	29		22	21	31	18
Selenium		M	2455	mg/kg	0.25	0.67	0.69		1.1	0.47	0.72	0.37
Zinc		M	2455	mg/kg	0.50	110	94		92	80	100	68
Chromium (Trivalent)		N	2490	mg/kg	1.0	56	77		48	60	59	46
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50

Results - Soil

Project: 25758 Mount Avenue Dundalk

Client: IGSL		Chemtest Job No.:	25-03228	25-03228	25-03228	25-03228	25-03228	25-03228	25-03228
Quotation No.: Q24-34387		Chemtest Sample ID.:	1925213	1925214	1925215	1925216	1925217	1925218	1925219
Order No.:		Client Sample Ref.:	TP16	TP18	TP20	TP22	TP24	TP26	TP28
		Sample Location:							
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0.50	1.20	2.30	1.60	1.80	0.50	2.10
		Date Sampled:	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024
		Asbestos Lab:	DURHAM	DURHAM	IN-TRAN-D	DURHAM	DURHAM	DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD				
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	[B] < 0.05	[B] < 0.05		[B] < 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	[B] < 0.05	[B] < 0.05		[B] < 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	[B] < 0.05	[B] < 0.05		[B] < 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	[B] < 0.10	[B] < 0.10		[B] < 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	[B] < 0.05	[B] < 0.05		[B] < 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	[B] < 0.25	[B] < 0.25		[B] < 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	[B] 2.7	[B] 2.6		[B] 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	[B] 1.1	[B] < 1.0		[B] 1.3
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	[B] 2.2	[B] 3.0		[B] < 2.0
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	[B] 29	[B] 31		[B] 27
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	[B] < 10	[B] 13		[B] < 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	[B] 35	[B] 37		[B] 31
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	[B] 35	[B] 50		[B] 31
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	[B] < 0.05	[B] < 0.05		[B] < 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	[B] < 0.05	[B] < 0.05		[B] < 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	[B] < 0.05	[B] < 0.05		[B] < 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	[B] < 0.25	[B] < 0.25		[B] < 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	[B] 1.1	[B] 1.3		[B] 1.4
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	[B] < 1.0	[B] < 1.0		[B] < 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	[B] 5.7	[B] 6.3		[B] 4.4
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	[B] 13	[B] 19		[B] 11
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	[B] 26	[B] 27		[B] 26
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	[B] 20	[B] 27		[B] 17
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	[B] 46	[B] 55		[B] 43
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	[B] < 0.50	[B] < 0.50		[B] < 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	[B] 55	[B] 64		[B] 48
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	[B] 82	[B] 100		[B] 74
Mineral Oil EPH		N	2670	mg/kg	10	35	50		31
Benzene		M	2760	µg/kg	1.0	[B] < 1.0	[B] < 1.0		[B] < 1.0
Toluene		M	2760	µg/kg	1.0	[B] < 1.0	[B] < 1.0		[B] < 1.0
Ethylbenzene		M	2760	µg/kg	1.0	[B] < 1.0	[B] < 1.0		[B] < 1.0
m & p-Xylene		M	2760	µg/kg	1.0	[B] < 1.0	[B] < 1.0		[B] < 1.0
o-Xylene		M	2760	µg/kg	1.0	[B] < 1.0	[B] < 1.0		[B] < 1.0
Methyl Tert-Butyl Ether		M	2760	µg/kg	1.0	[B] < 1.0	[B] < 1.0		[B] < 1.0
Naphthalene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10

Results - Soil

Project: 25758 Mount Avenue Dundalk

Client: IGSL		Chemtest Job No.:		25-03228	25-03228	25-03228	25-03228	25-03228	25-03228	25-03228	25-03228	25-03228
Quotation No.: Q24-34387		Chemtest Sample ID.:		1925213	1925214	1925215	1925216	1925217	1925218	1925219		
Order No.:		Client Sample Ref.:		TP16	TP18	TP20	TP22	TP24	TP26	TP28		
		Sample Location:										
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
		Top Depth (m):		0.50	1.20	2.30	1.60	1.80	0.50	2.10		
		Date Sampled:		26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024		
		Asbestos Lab:		DURHAM	DURHAM	IN-TRAN-D	DURHAM	DURHAM	DURHAM	DURHAM		
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
Phenanthrene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10
Anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10
Pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10
Chrysene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10
Coronene		N	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0		< 2.0			< 2.0	< 2.0	< 2.0
Total Of 17 PAH's		N	2800	mg/kg	2.0		< 2.0			< 2.0	< 2.0	< 2.0
PCB 28		U	2815	mg/kg	0.010	[B] < 0.010	[B] < 0.010		[B] < 0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010
PCB 52		U	2815	mg/kg	0.010	[B] < 0.010	[B] < 0.010		[B] < 0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010
PCB 101		U	2815	mg/kg	0.010	[B] < 0.010	[B] < 0.010		[B] < 0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010
PCB 118		U	2815	mg/kg	0.010	[B] < 0.010	[B] < 0.010		[B] < 0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010
PCB 153		U	2815	mg/kg	0.010	[B] < 0.010	[B] < 0.010		[B] < 0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010
PCB 138		U	2815	mg/kg	0.010	[B] < 0.010	[B] < 0.010		[B] < 0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010
PCB 180		U	2815	mg/kg	0.010	[B] < 0.010	[B] < 0.010		[B] < 0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010
Tot PCBs Low (7 Congeners)		N	2815	mg/kg	0.05	[B] < 0.05	[B] < 0.05		[B] < 0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05
Total Phenols		M	2920	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10

Results - Soil

Project: 25758 Mount Avenue Dundalk

Client: IGSL		Chemtest Job No.:		25-03228	25-03228	25-03228	25-03228	25-03228	25-03228	25-03228	25-03228
Quotation No.: Q24-34387		Chemtest Sample ID.:		1925220	1925221	1925222	1925223	1925224	1925225	1925226	
Order No.:		Client Sample Ref.:		TP30	TP34	TP35	TP38	TP40	TP40	TP42	
		Sample Location:									
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
		Top Depth (m):		1.20	0.50	1.20	0.50	0.50	1.50	1.00	
		Date Sampled:		26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	
		Asbestos Lab:		DURHAM	DURHAM		DURHAM	IN-TRAN-D	DURHAM	DURHAM	
Determinand	HWOL Code	Accred.	SOP	Units	LOD						
ACM Type		U	2192		N/A	-	-		-		-
Asbestos Identification		U	2192		N/A	No Asbestos Detected	No Asbestos Detected		No Asbestos Detected		No Asbestos Detected
Moisture		N	2030	%	0.020	11	11	12	11	14	8.7
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones	Stones	Stones	Stones	Stones
Soil Texture		N	2040		N/A	Clay	Clay	Clay	Loam	Loam	Loam
pH at 20C		M	2010		4.0		[B] 7.4				[B] 7.4
pH (2.5:1) at 20C		N	2010		4.0	[B] 7.4		[B] 7.3		[B] 7.7	
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	[B] < 0.40	[B] < 0.40		[B] 0.43		[B] < 0.40
Magnesium (Water Soluble)		N	2120	g/l	0.010			[B] < 0.010		[B] < 0.010	
Sulphate (2:1 Water Soluble) as SO4		M	2120	g/l	0.010			[B] 0.052		[B] 0.077	
Total Sulphur		U	2175	%	0.010			[B] 0.010		[B] 0.010	
Sulphur (Elemental)		M	2180	mg/kg	1.0	[B] < 1.0	[B] < 1.0		[B] < 1.0		[B] < 1.0
Chloride (Water Soluble)		M	2220	g/l	0.010			[B] < 0.010		[B] < 0.010	
Nitrate (Water Soluble)		N	2220	g/l	0.010			0.018		< 0.010	
Cyanide (Complex)		M	2300	mg/kg	0.50		[B] < 0.50				[B] < 0.50
Cyanide (Free)		M	2300	mg/kg	0.50		[B] < 0.50				[B] < 0.50
Cyanide (Total)		M	2300	mg/kg	0.50	[B] < 0.50	[B] < 0.50		[B] < 0.50		[B] < 0.50
Sulphide (Easily Liberatable)		N	2325	mg/kg	0.50	[B] 2.1	[B] 3.0		[B] 9.5		[B] 2.7
Ammonium (Water Soluble)		M	2220	g/l	0.01			< 0.01		< 0.01	
Sulphate (Total)		U	2430	%	0.010	[B] < 0.010	[B] 0.052		[B] 0.021		[B] < 0.010
Sulphate (Acid Soluble)		U	2430	%	0.010			[B] 0.019		[B] < 0.010	
Arsenic		M	2455	mg/kg	0.5	15	6.7		5.1		13
Barium		M	2455	mg/kg	0.5	110	67		72		140
Cadmium		M	2455	mg/kg	0.10	0.30	0.14		< 0.10		0.26
Chromium		M	2455	mg/kg	0.5	69	74		57		60
Molybdenum		M	2455	mg/kg	0.5	< 0.5	< 0.5		< 0.5		< 0.5
Antimony		N	2455	mg/kg	2.0	< 2.0	< 2.0		< 2.0		< 2.0
Copper		M	2455	mg/kg	0.50	70	45		15		56
Mercury		M	2455	mg/kg	0.05	< 0.05	0.08		< 0.05		< 0.05
Nickel		M	2455	mg/kg	0.50	87	100		55		71
Lead		M	2455	mg/kg	0.50	28	25		20		25
Selenium		M	2455	mg/kg	0.25	0.93	0.70		0.48		0.85
Zinc		M	2455	mg/kg	0.50	120	110		83		90
Chromium (Trivalent)		N	2490	mg/kg	1.0	69	74		57		60
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50		< 0.50		< 0.50

Results - Soil

Project: 25758 Mount Avenue Dundalk

Client: IGSL		Chemtest Job No.:	25-03228	25-03228	25-03228	25-03228	25-03228	25-03228	25-03228
Quotation No.: Q24-34387		Chemtest Sample ID.:	1925220	1925221	1925222	1925223	1925224	1925225	1925226
Order No.:		Client Sample Ref.:	TP30	TP34	TP35	TP38	TP40	TP40	TP42
		Sample Location:							
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	1.20	0.50	1.20	0.50	0.50	1.50	1.00
		Date Sampled:	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024
		Asbestos Lab:	DURHAM	DURHAM		DURHAM	IN-TRAN-D	DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD				
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	[B] < 0.05	[B] < 0.05		[B] < 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	[B] < 0.05	[B] < 0.05		[B] < 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	[B] < 0.05	[B] < 0.05		[B] < 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	[B] < 0.10	[B] < 0.10		[B] < 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	[B] < 0.05	[B] < 0.05		[B] < 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	[B] < 0.25	[B] < 0.25		[B] < 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	[B] 2.4	[B] 2.9		[B] < 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	[B] < 1.0	[B] < 1.0		[B] < 1.0
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	[B] < 2.0	[B] < 2.0		[B] < 2.0
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	[B] 27	[B] 26		[B] 25
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	[B] < 10	[B] < 10		[B] < 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	[B] 32	[B] 31		[B] 28
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	[B] 32	[B] 31		[B] 28
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	[B] < 0.05	[B] < 0.05		[B] < 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	[B] < 0.05	[B] < 0.05		[B] < 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	[B] < 0.05	[B] < 0.05		[B] < 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	[B] < 0.25	[B] < 0.25		[B] < 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	[B] < 1.0	[B] 1.1		[B] 1.1
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	[B] < 1.0	[B] < 1.0		[B] < 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	[B] 3.6	[B] 3.8		[B] 2.2
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	[B] 11	[B] 15		[B] 12
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	[B] 26	[B] 26		[B] 23
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	[B] 15	[B] 20		[B] 15
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	[B] 41	[B] 46		[B] 38
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	[B] < 0.50	[B] < 0.50		[B] < 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	[B] 47	[B] 51		[B] 43
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	[B] 73	[B] 77		[B] 67
Mineral Oil EPH		N	2670	mg/kg	10	32	31		28
Benzene		M	2760	µg/kg	1.0	[B] < 1.0	[B] < 1.0		[B] < 1.0
Toluene		M	2760	µg/kg	1.0	[B] < 1.0	[B] < 1.0		[B] < 1.0
Ethylbenzene		M	2760	µg/kg	1.0	[B] < 1.0	[B] < 1.0		[B] < 1.0
m & p-Xylene		M	2760	µg/kg	1.0	[B] < 1.0	[B] < 1.0		[B] < 1.0
o-Xylene		M	2760	µg/kg	1.0	[B] < 1.0	[B] < 1.0		[B] < 1.0
Methyl Tert-Butyl Ether		M	2760	µg/kg	1.0	[B] < 1.0	[B] < 1.0		[B] < 1.0
Naphthalene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10

Results - Soil

Project: 25758 Mount Avenue Dundalk

Client: IGSL		Chemtest Job No.:		25-03228	25-03228	25-03228	25-03228	25-03228	25-03228	25-03228
Quotation No.: Q24-34387		Chemtest Sample ID.:		1925220	1925221	1925222	1925223	1925224	1925225	1925226
Order No.:		Client Sample Ref.:		TP30	TP34	TP35	TP38	TP40	TP40	TP42
		Sample Location:								
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):		1.20	0.50	1.20	0.50	0.50	1.50	1.00
		Date Sampled:		26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024
		Asbestos Lab:		DURHAM	DURHAM		DURHAM	IN-TRAN-D	DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD					
Phenanthrene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10
Anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10
Pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10
Benzo[a]anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10
Chrysene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10
Coronene		N	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0	< 2.0	< 2.0			< 2.0
Total Of 17 PAH's		N	2800	mg/kg	2.0		< 2.0			< 2.0
PCB 28		U	2815	mg/kg	0.010	[B] < 0.010	[B] < 0.010		[B] < 0.010	[B] < 0.010
PCB 52		U	2815	mg/kg	0.010	[B] < 0.010	[B] < 0.010		[B] < 0.010	[B] < 0.010
PCB 101		U	2815	mg/kg	0.010	[B] < 0.010	[B] < 0.010		[B] < 0.010	[B] < 0.010
PCB 118		U	2815	mg/kg	0.010	[B] < 0.010	[B] < 0.010		[B] < 0.010	[B] < 0.010
PCB 153		U	2815	mg/kg	0.010	[B] < 0.010	[B] < 0.010		[B] < 0.010	[B] < 0.010
PCB 138		U	2815	mg/kg	0.010	[B] < 0.010	[B] < 0.010		[B] < 0.010	[B] < 0.010
PCB 180		U	2815	mg/kg	0.010	[B] < 0.010	[B] < 0.010		[B] < 0.010	[B] < 0.010
Tot PCBs Low (7 Congeners)		N	2815	mg/kg	0.05	[B] < 0.05	[B] < 0.05		[B] < 0.05	[B] < 0.05
Total Phenols		M	2920	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10

Results - Soil

Project: 25758 Mount Avenue Dundalk

Client: IGSL		Chemtest Job No.:		25-03228	25-03228	25-03228	25-03228	25-03228	25-03228	25-03228	25-03228
Quotation No.: Q24-34387		Chemtest Sample ID.:		1925227	1925228	1925229	1925230	1925231	1925232	1925233	
Order No.:		Client Sample Ref.:		TP44	TP45	TP48	TP50	TP52	TP54	TP55	
		Sample Location:									
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
		Top Depth (m):		0.50	0.90	1.90	0.50	1.70	1.00	1.90	
		Date Sampled:		26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	
		Asbestos Lab:		DURHAM	IN-TRAN-D	DURHAM	DURHAM	DURHAM	DURHAM	IN-TRAN-D	
Determinand	HWOL Code	Accred.	SOP	Units	LOD						
ACM Type		U	2192		N/A	-		-	-	-	
Asbestos Identification		U	2192		N/A	No Asbestos Detected		No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	
Moisture		N	2030	%	0.020	15	13	12	14	8.6	12
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones	Stones	Stones	Stones	Stones
Soil Texture		N	2040		N/A	Clay	Clay	Sand	Clay	Clay	Clay
pH at 20C		M	2010		4.0	[B] 7.6			[B] 7.5	[B] 8.0	[B] 8.0
pH (2.5:1) at 20C		N	2010		4.0		[B] 8.1				[B] 7.6
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	[B] < 0.40		[B] < 0.40	[B] < 0.40	[B] < 0.40	[B] < 0.40
Magnesium (Water Soluble)		N	2120	g/l	0.010		[B] < 0.010				[B] < 0.010
Sulphate (2:1 Water Soluble) as SO4		M	2120	g/l	0.010		[B] < 0.010				[B] < 0.010
Total Sulphur		U	2175	%	0.010		[B] 0.010				[B] 0.010
Sulphur (Elemental)		M	2180	mg/kg	1.0	[B] < 1.0		[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Chloride (Water Soluble)		M	2220	g/l	0.010		[B] < 0.010				[B] < 0.010
Nitrate (Water Soluble)		N	2220	g/l	0.010		< 0.010				< 0.010
Cyanide (Complex)		M	2300	mg/kg	0.50	[B] < 0.50			[B] < 0.50	[B] < 0.50	[B] < 0.50
Cyanide (Free)		M	2300	mg/kg	0.50	[B] < 0.50			[B] < 0.50	[B] < 0.50	[B] < 0.50
Cyanide (Total)		M	2300	mg/kg	0.50	[B] < 0.50		[B] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50
Sulphide (Easily Liberatable)		N	2325	mg/kg	0.50	[B] 2.1		[B] 5.8	[B] 1.5	[B] 2.8	[B] 1.7
Ammonium (Water Soluble)		M	2220	g/l	0.01		< 0.01				< 0.01
Sulphate (Total)		U	2430	%	0.010	[B] 0.025		[B] 0.032	[B] 0.043	[B] 0.030	[B] 0.019
Sulphate (Acid Soluble)		U	2430	%	0.010		[B] < 0.010				[B] 0.011
Arsenic		M	2455	mg/kg	0.5	8.8		11	13	16	8.7
Barium		M	2455	mg/kg	0.5	96		170	83	97	83
Cadmium		M	2455	mg/kg	0.10	< 0.10		0.19	0.23	0.32	0.29
Chromium		M	2455	mg/kg	0.5	58		65	55	65	55
Molybdenum		M	2455	mg/kg	0.5	< 0.5		< 0.5	< 0.5	< 0.5	< 0.5
Antimony		N	2455	mg/kg	2.0	< 2.0		< 2.0	< 2.0	< 2.0	< 2.0
Copper		M	2455	mg/kg	0.50	33		19	53	57	38
Mercury		M	2455	mg/kg	0.05	< 0.05		0.07	< 0.05	< 0.05	< 0.05
Nickel		M	2455	mg/kg	0.50	57		59	68	77	68
Lead		M	2455	mg/kg	0.50	19		23	19	28	27
Selenium		M	2455	mg/kg	0.25	0.46		0.63	0.47	0.68	0.36
Zinc		M	2455	mg/kg	0.50	75		70	93	100	110
Chromium (Trivalent)		N	2490	mg/kg	1.0	58		65	55	65	55
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50

Results - Soil

Project: 25758 Mount Avenue Dundalk

Client: IGSL		Chemtest Job No.:	25-03228	25-03228	25-03228	25-03228	25-03228	25-03228	25-03228
Quotation No.: Q24-34387		Chemtest Sample ID.:	1925227	1925228	1925229	1925230	1925231	1925232	1925233
Order No.:		Client Sample Ref.:	TP44	TP45	TP48	TP50	TP52	TP54	TP55
		Sample Location:							
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	0.50	0.90	1.90	0.50	1.70	1.00	1.90
		Date Sampled:	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024
		Asbestos Lab:	DURHAM	IN-TRAN-D	DURHAM	DURHAM	DURHAM	DURHAM	IN-TRAN-D
Determinand	HWOL Code	Accred.	SOP	Units	LOD				
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	[B] < 0.05		[B] < 0.05	[B] < 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	[B] < 0.05		[B] < 0.05	[B] < 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	[B] < 0.05		[B] < 0.05	[B] < 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	[B] < 0.10		[B] < 0.10	[B] < 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	[B] < 0.05		[B] < 0.05	[B] < 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	[B] < 0.25		[B] < 0.25	[B] < 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	[B] 2.4		[B] < 2.0	[B] 2.3
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	[B] < 1.0		[B] < 1.0	[B] < 1.0
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	[B] < 2.0		[B] < 2.0	[B] < 2.0
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	[B] 27		[B] 30	[B] 29
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	[B] < 10		[B] 10	[B] 11
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	[B] 30		[B] 32	[B] 33
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	[B] 30		[B] 43	[B] 43
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	[B] < 0.05		[B] < 0.05	[B] < 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	[B] < 0.05		[B] < 0.05	[B] < 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	[B] < 0.05		[B] < 0.05	[B] < 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	[B] < 0.25		[B] < 0.25	[B] < 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	[B] < 1.0		[B] 1.2	[B] 2.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	[B] < 1.0		[B] < 1.0	[B] < 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	[B] 2.8		[B] < 2.0	[B] < 2.0
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	[B] 12		[B] 10	[B] 13
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	[B] 25		[B] 25	[B] 32
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	[B] 15		[B] 13	[B] 17
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	[B] 41		[B] 38	[B] 49
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	[B] < 0.50		[B] < 0.50	[B] < 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	[B] 46		[B] 45	[B] 50
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	[B] 71		[B] 81	[B] 92
Mineral Oil EPH		N	2670	mg/kg	10	30		43	43
Benzene		M	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	[B] < 1.0
Toluene		M	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	[B] < 1.0
Ethylbenzene		M	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	[B] < 1.0
m & p-Xylene		M	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	[B] < 1.0
o-Xylene		M	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	[B] < 1.0
Methyl Tert-Butyl Ether		M	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	[B] < 1.0
Naphthalene		M	2800	mg/kg	0.10	< 0.10		< 0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10		< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10		< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10		< 0.10	< 0.10

Results - Soil

Project: 25758 Mount Avenue Dundalk

Client: IGSL		Chemtest Job No.:						25-03228	25-03228	25-03228	25-03228	25-03228	25-03228
Quotation No.: Q24-34387		Chemtest Sample ID.:						1925227	1925228	1925229	1925230	1925231	1925232
Order No.:		Client Sample Ref.:						TP44	TP45	TP48	TP50	TP52	TP54
		Sample Location:											
		Sample Type:						SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):						0.50	0.90	1.90	0.50	1.70	1.00
		Date Sampled:						26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024
		Asbestos Lab:						DURHAM	IN-TRAN-D	DURHAM	DURHAM	DURHAM	IN-TRAN-D
Determinand	HWOL Code	Accred.	SOP	Units	LOD								
Phenanthrene		M	2800	mg/kg	0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Anthracene		M	2800	mg/kg	0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Fluoranthene		M	2800	mg/kg	0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Pyrene		M	2800	mg/kg	0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Benzo[a]anthracene		M	2800	mg/kg	0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Chrysene		M	2800	mg/kg	0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Benzo[a]pyrene		M	2800	mg/kg	0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Coronene		N	2800	mg/kg	0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Total Of 16 PAH's		N	2800	mg/kg	2.0	< 2.0			< 2.0	< 2.0	< 2.0	< 2.0	
Total Of 17 PAH's		N	2800	mg/kg	2.0	< 2.0			< 2.0	< 2.0	< 2.0	< 2.0	
PCB 28		U	2815	mg/kg	0.010	[B] < 0.010		[B] < 0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010	
PCB 52		U	2815	mg/kg	0.010	[B] < 0.010		[B] < 0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010	
PCB 101		U	2815	mg/kg	0.010	[B] < 0.010		[B] < 0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010	
PCB 118		U	2815	mg/kg	0.010	[B] < 0.010		[B] < 0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010	
PCB 153		U	2815	mg/kg	0.010	[B] < 0.010		[B] < 0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010	
PCB 138		U	2815	mg/kg	0.010	[B] < 0.010		[B] < 0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010	
PCB 180		U	2815	mg/kg	0.010	[B] < 0.010		[B] < 0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010	
Tot PCBs Low (7 Congeners)		N	2815	mg/kg	0.05	[B] < 0.05		[B] < 0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05	
Total Phenols		M	2920	mg/kg	0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	

Results - Soil

Project: 25758 Mount Avenue Dundalk

Client: IGSL		Chemtest Job No.:		25-03228	25-03228	25-03228	25-03228	25-03228	25-03228	25-03228	25-03228
Quotation No.: Q24-34387		Chemtest Sample ID.:		1925234	1925235	1925236	1925237	1925238	1925239	1925240	
Order No.:		Client Sample Ref.:		TP58	TP60	TP60	TP62	TP64	TP65	TP66	
		Sample Location:									
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
		Top Depth (m):		1.50	0.50	2.00	0.50	1.00	1.50	0.50	
		Date Sampled:		26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	
		Asbestos Lab:		DURHAM	IN-TRAN-D	DURHAM	DURHAM	DURHAM		DURHAM	
Determinand	HWOL Code	Accred.	SOP	Units	LOD						
ACM Type		U	2192		N/A	-		-	-	-	-
Asbestos Identification		U	2192		N/A	No Asbestos Detected		No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected
Moisture		N	2030	%	0.020	11	15	7.2	10	11	18
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones	Stones	Stones	Stones	Stones
Soil Texture		N	2040		N/A	Sand	Loam	Sand	Loam	Clay	Clay
pH at 20C		M	2010		4.0						
pH (2.5:1) at 20C		N	2010		4.0		[B] 7.1			[B] 7.5	
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	[B] < 0.40		[B] < 0.40	[B] 0.42	[B] < 0.40	[B] 0.60
Magnesium (Water Soluble)		N	2120	g/l	0.010		[B] < 0.010			[B] < 0.010	
Sulphate (2:1 Water Soluble) as SO4		M	2120	g/l	0.010		[B] 0.016			[B] 0.023	
Total Sulphur		U	2175	%	0.010		[B] 0.030			[B] < 0.010	
Sulphur (Elemental)		M	2180	mg/kg	1.0	[B] < 1.0		[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Chloride (Water Soluble)		M	2220	g/l	0.010		[B] < 0.010			[B] < 0.010	
Nitrate (Water Soluble)		N	2220	g/l	0.010		0.018			< 0.010	
Cyanide (Complex)		M	2300	mg/kg	0.50						
Cyanide (Free)		M	2300	mg/kg	0.50						
Cyanide (Total)		M	2300	mg/kg	0.50	[B] < 0.50		[B] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50
Sulphide (Easily Liberatable)		N	2325	mg/kg	0.50	[B] 3.8		[B] 3.0	[B] 11	[B] 3.0	[B] 3.6
Ammonium (Water Soluble)		M	2220	g/l	0.01		< 0.01			< 0.01	
Sulphate (Total)		U	2430	%	0.010	[B] 0.016		[B] 0.014	[B] 0.017	[B] < 0.010	[B] 0.043
Sulphate (Acid Soluble)		U	2430	%	0.010		[B] 0.010			[B] 0.011	
Arsenic		M	2455	mg/kg	0.5	7.6		11	6.0	9.3	6.7
Barium		M	2455	mg/kg	0.5	50		44	47	57	76
Cadmium		M	2455	mg/kg	0.10	< 0.10		0.32	< 0.10	0.22	0.14
Chromium		M	2455	mg/kg	0.5	29		48	25	39	40
Molybdenum		M	2455	mg/kg	0.5	< 0.5		< 0.5	< 0.5	< 0.5	0.8
Antimony		N	2455	mg/kg	2.0	< 2.0		< 2.0	< 2.0	< 2.0	< 2.0
Copper		M	2455	mg/kg	0.50	18		35	18	25	15
Mercury		M	2455	mg/kg	0.05	< 0.05		< 0.05	< 0.05	< 0.05	< 0.05
Nickel		M	2455	mg/kg	0.50	29		59	37	45	33
Lead		M	2455	mg/kg	0.50	15		15	9.6	17	18
Selenium		M	2455	mg/kg	0.25	0.35		1.0	< 0.25	0.45	0.40
Zinc		M	2455	mg/kg	0.50	50		76	40	71	86
Chromium (Trivalent)		N	2490	mg/kg	1.0	29		48	25	39	40
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50		< 0.50	< 0.50	< 0.50	< 0.50

Results - Soil

Project: 25758 Mount Avenue Dundalk

Client: IGSL		Chemtest Job No.:	25-03228	25-03228	25-03228	25-03228	25-03228	25-03228	25-03228
Quotation No.: Q24-34387		Chemtest Sample ID.:	1925234	1925235	1925236	1925237	1925238	1925239	1925240
Order No.:		Client Sample Ref.:	TP58	TP60	TP60	TP62	TP64	TP65	TP66
		Sample Location:							
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	1.50	0.50	2.00	0.50	1.00	1.50	0.50
		Date Sampled:	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024
		Asbestos Lab:	DURHAM	IN-TRAN-D	DURHAM	DURHAM	DURHAM		DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD				
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	[B] < 0.05		[B] < 0.05	[B] < 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	[B] < 0.05		[B] < 0.05	[B] < 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	[B] < 0.05		[B] < 0.05	[B] < 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	[B] < 0.10		[B] < 0.10	[B] < 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	[B] < 0.05		[B] < 0.05	[B] < 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	[B] < 0.25		[B] < 0.25	[B] < 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	[B] < 2.0		[B] 25	[B] 2.2
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	[B] < 1.0		[B] 63	[B] 2.1
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	[B] < 2.0		[B] 67	[B] 4.1
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	[B] 25		[B] 190	[B] 26
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	[B] < 10		[B] 80	[B] < 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	[B] 28		[B] 340	[B] 34
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	[B] 28		[B] 420	[B] 34
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	[B] < 0.05		[B] < 0.05	[B] < 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	[B] < 0.05		[B] < 0.05	[B] < 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	[B] < 0.05		[B] < 0.05	[B] < 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	[B] < 0.25		[B] < 0.25	[B] < 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	[B] 1.4		[B] 12	[B] 1.3
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	[B] < 1.0		[B] 31	[B] < 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	[B] < 2.0		[B] 20	[B] 2.9
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	[B] 9.9		[B] 9.4	[B] 16
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	[B] 23		[B] 21	[B] 26
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	[B] 13		[B] 72	[B] 20
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	[B] 36		[B] 93	[B] 47
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	[B] < 0.50		[B] < 0.50	[B] < 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	[B] 40		[B] 420	[B] 55
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	[B] 64		[B] 520	[B] 81
Mineral Oil EPH		N	2670	mg/kg	10	28		420	34
Benzene		M	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	[B] < 1.0
Toluene		M	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	[B] < 1.0
Ethylbenzene		M	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	[B] < 1.0
m & p-Xylene		M	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	[B] < 1.0
o-Xylene		M	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	[B] < 1.0
Methyl Tert-Butyl Ether		M	2760	µg/kg	1.0	[B] < 1.0		[B] < 1.0	[B] < 1.0
Naphthalene		M	2800	mg/kg	0.10	< 0.10		< 0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10		< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10		< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10		< 0.10	< 0.10

Results - Soil

Project: 25758 Mount Avenue Dundalk

Client: IGSL		Chemtest Job No.:						25-03228	25-03228	25-03228	25-03228	25-03228	25-03228	25-03228
Quotation No.: Q24-34387		Chemtest Sample ID.:						1925234	1925235	1925236	1925237	1925238	1925239	1925240
Order No.:		Client Sample Ref.:						TP58	TP60	TP60	TP62	TP64	TP65	TP66
		Sample Location:												
		Sample Type:						SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):						1.50	0.50	2.00	0.50	1.00	1.50	0.50
		Date Sampled:						26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024
		Asbestos Lab:						DURHAM	IN-TRAN-D	DURHAM	DURHAM	DURHAM		DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD									
Phenanthrene		M	2800	mg/kg	0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10			< 0.10
Anthracene		M	2800	mg/kg	0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10			< 0.10
Fluoranthene		M	2800	mg/kg	0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10			< 0.10
Pyrene		M	2800	mg/kg	0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10			< 0.10
Benzo[a]anthracene		M	2800	mg/kg	0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10			< 0.10
Chrysene		M	2800	mg/kg	0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10			< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10			< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10			< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10			< 0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10			< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10			< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10			< 0.10
Coronene		N	2800	mg/kg	0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10			< 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0									
Total Of 17 PAH's		N	2800	mg/kg	2.0									
PCB 28		U	2815	mg/kg	0.010	[B] < 0.010		[B] < 0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010			[B] < 0.010
PCB 52		U	2815	mg/kg	0.010	[B] < 0.010		[B] < 0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010			[B] < 0.010
PCB 101		U	2815	mg/kg	0.010	[B] < 0.010		[B] < 0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010			[B] < 0.010
PCB 118		U	2815	mg/kg	0.010	[B] < 0.010		[B] < 0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010			[B] < 0.010
PCB 153		U	2815	mg/kg	0.010	[B] < 0.010		[B] < 0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010			[B] < 0.010
PCB 138		U	2815	mg/kg	0.010	[B] < 0.010		[B] < 0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010			[B] < 0.010
PCB 180		U	2815	mg/kg	0.010	[B] < 0.010		[B] < 0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010			[B] < 0.010
Tot PCBs Low (7 Congeners)		N	2815	mg/kg	0.05	[B] < 0.05		[B] < 0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05			[B] < 0.05
Total Phenols		M	2920	mg/kg	0.10	< 0.10		< 0.10	< 0.10	< 0.10	< 0.10			< 0.10

Results - Soil

Project: 25758 Mount Avenue Dundalk

Client: IGSL		Chemtest Job No.:		25-03228	25-03228	25-03228	25-03228	25-03228	25-03228	25-03228	25-03228	25-03228
Quotation No.: Q24-34387		Chemtest Sample ID.:		1925241	1925242	1925243	1925244	1925245	1925246	1925247		
Order No.:		Client Sample Ref.:		TP68	TP70	TP72	TP74	TP75	TP76	TP78		
		Sample Location:										
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL		
		Top Depth (m):		1.80	1.50	0.50	1.20	1.80	0.50	1.50		
		Date Sampled:		26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024		
		Asbestos Lab:		DURHAM	DURHAM	DURHAM	DURHAM		DURHAM	DURHAM		
Determinand	HWOL Code	Accred.	SOP	Units	LOD							
ACM Type		U	2192		N/A	-	-	-	-		-	-
Asbestos Identification		U	2192		N/A	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected	No Asbestos Detected		No Asbestos Detected	No Asbestos Detected
Moisture		N	2030	%	0.020	11	8.7	16	15	17	9.1	12
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones	Stones and Roots	Stones	Stones	Stones and Roots	Stones
Soil Texture		N	2040		N/A	Clay	Clay	Clay	Clay	Clay	Loam	Clay
pH at 20C		M	2010		4.0							
pH (2.5:1) at 20C		N	2010		4.0		[B] 8.6			[B] 7.2		
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	[B] < 0.40	[B] < 0.40	[B] 0.48	[B] 0.45		[B] 0.45	[B] 0.56
Magnesium (Water Soluble)		N	2120	g/l	0.010		[B] < 0.010			[B] < 0.010		
Sulphate (2:1 Water Soluble) as SO4		M	2120	g/l	0.010		[B] 0.015			[B] 0.022		
Total Sulphur		U	2175	%	0.010		[B] 0.030			[B] < 0.010		
Sulphur (Elemental)		M	2180	mg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0		[B] 6.8	[B] 1.6
Chloride (Water Soluble)		M	2220	g/l	0.010		[B] < 0.010			[B] < 0.010		
Nitrate (Water Soluble)		N	2220	g/l	0.010		< 0.010			< 0.010		
Cyanide (Complex)		M	2300	mg/kg	0.50							
Cyanide (Free)		M	2300	mg/kg	0.50							
Cyanide (Total)		M	2300	mg/kg	0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50		[B] < 0.50	[B] < 0.50
Sulphide (Easily Liberatable)		N	2325	mg/kg	0.50	[B] 3.7	[B] 4.1	[B] 2.0	[B] 2.1		[B] 2.5	[B] 2.8
Ammonium (Water Soluble)		M	2220	g/l	0.01		< 0.01			< 0.01		
Sulphate (Total)		U	2430	%	0.010	[B] 0.026	[B] 0.027	[B] 0.037	[B] 0.012		[B] 0.021	[B] 0.018
Sulphate (Acid Soluble)		U	2430	%	0.010		[B] 0.010			[B] 0.016		
Arsenic		M	2455	mg/kg	0.5	21	25	14	12		10	5.0
Barium		M	2455	mg/kg	0.5	80	61	61	140		77	47
Cadmium		M	2455	mg/kg	0.10	0.47	0.45	0.34	0.20		0.17	0.11
Chromium		M	2455	mg/kg	0.5	49	55	44	38		35	49
Molybdenum		M	2455	mg/kg	0.5	< 0.5	0.5	0.9	< 0.5		< 0.5	< 0.5
Antimony		N	2455	mg/kg	2.0	< 2.0	< 2.0	< 2.0	< 2.0		< 2.0	< 2.0
Copper		M	2455	mg/kg	0.50	48	39	31	43		38	23
Mercury		M	2455	mg/kg	0.05	< 0.05	< 0.05	0.06	< 0.05		< 0.05	0.05
Nickel		M	2455	mg/kg	0.50	61	66	50	55		44	53
Lead		M	2455	mg/kg	0.50	28	24	24	15		16	14
Selenium		M	2455	mg/kg	0.25	0.61	0.58	0.96	0.76		0.73	0.46
Zinc		M	2455	mg/kg	0.50	120	100	93	63		62	72
Chromium (Trivalent)		N	2490	mg/kg	1.0	49	55	44	38		35	49
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50	< 0.50	< 0.50		< 0.50	< 0.50

Results - Soil

Project: 25758 Mount Avenue Dundalk

Client: IGSL		Chemtest Job No.:	25-03228	25-03228	25-03228	25-03228	25-03228	25-03228	25-03228
Quotation No.: Q24-34387		Chemtest Sample ID.:	1925241	1925242	1925243	1925244	1925245	1925246	1925247
Order No.:		Client Sample Ref.:	TP68	TP70	TP72	TP74	TP75	TP76	TP78
		Sample Location:							
		Sample Type:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):	1.80	1.50	0.50	1.20	1.80	0.50	1.50
		Date Sampled:	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024
		Asbestos Lab:	DURHAM	DURHAM	DURHAM	DURHAM		DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD				
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10	[B] < 0.10	[B] < 0.10	[B] < 0.10	[B] < 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	[B] < 0.25	[B] < 0.25	[B] < 0.25	[B] < 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	[B] 3.3	[B] < 2.0	[B] 2.3	[B] 3.7
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	[B] 1.4	[B] < 1.0	[B] 2.4	[B] 2.5
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	[B] 2.2	[B] < 2.0	[B] 2.4	[B] < 2.0
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	[B] 24	[B] 23	[B] 26	[B] < 3.0
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	[B] < 10	[B] < 10	[B] < 10	[B] < 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	[B] 31	[B] 27	[B] 33	[B] 6.2
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	[B] 31	[B] 27	[B] 33	[B] < 10
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	[B] < 0.25	[B] < 0.25	[B] < 0.25	[B] < 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	[B] 1.4	[B] 1.2	[B] 1.5	[B] < 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	[B] 2.4	[B] < 2.0	[B] 2.4	[B] < 2.0
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	[B] 11	[B] 10	[B] 13	[B] < 2.0
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	[B] 24	[B] 24	[B] 23	[B] < 1.0
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	[B] 15	[B] 12	[B] 17	[B] < 5.0
Total Aromatic EPH >C10-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	10.00	[B] 39	[B] 36	[B] 41	[B] < 10
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50	[B] < 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	[B] 46	[B] 40	[B] 50	[B] < 10
Total EPH >C10-C40 MC	EH_2D_Total_#1	N	2690	mg/kg	10.00	[B] 71	[B] 63	[B] 74	[B] < 10
Mineral Oil EPH		N	2670	mg/kg	10	31	27	33	< 10
Benzene		M	2760	µg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Toluene		M	2760	µg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Ethylbenzene		M	2760	µg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
m & p-Xylene		M	2760	µg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
o-Xylene		M	2760	µg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Methyl Tert-Butyl Ether		M	2760	µg/kg	1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0	[B] < 1.0
Naphthalene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Soil

Project: 25758 Mount Avenue Dundalk

Client: IGSL		Chemtest Job No.:		25-03228	25-03228	25-03228	25-03228	25-03228	25-03228	25-03228	25-03228
Quotation No.: Q24-34387		Chemtest Sample ID.:		1925241	1925242	1925243	1925244	1925245	1925246	1925247	
Order No.:		Client Sample Ref.:		TP68	TP70	TP72	TP74	TP75	TP76	TP78	
		Sample Location:									
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
		Top Depth (m):		1.80	1.50	0.50	1.20	1.80	0.50	1.50	
		Date Sampled:		26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024	
		Asbestos Lab:		DURHAM	DURHAM	DURHAM	DURHAM		DURHAM	DURHAM	
Determinand	HWOL Code	Accred.	SOP	Units	LOD						
Phenanthrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Chrysene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Coronene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0						
Total Of 17 PAH's		N	2800	mg/kg	2.0						
PCB 28		U	2815	mg/kg	0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010
PCB 52		U	2815	mg/kg	0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010
PCB 101		U	2815	mg/kg	0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010
PCB 118		U	2815	mg/kg	0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010
PCB 153		U	2815	mg/kg	0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010
PCB 138		U	2815	mg/kg	0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010
PCB 180		U	2815	mg/kg	0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010	[B] < 0.010
Tot PCBs Low (7 Congeners)		N	2815	mg/kg	0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05	[B] < 0.05
Total Phenols		M	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10

Results - Soil

Project: 25758 Mount Avenue Dundalk

Client: IGSL		Chemtest Job No.:		25-03228	25-03228	25-03228	25-03228
Quotation No.: Q24-34387		Chemtest Sample ID.:		1925248	1925249	1925250	1925338
Order No.:		Client Sample Ref.:		TP80	TP82	TP86	
		Sample Location:					TP8
		Sample Type:		SOIL	SOIL	SOIL	SOIL
		Top Depth (m):		1.60	1.70	1.40	
		Date Sampled:		26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024
		Asbestos Lab:			DURHAM	DURHAM	NEW-ASB
Determinand	HWOL Code	Accred.	SOP	Units	LOD		
ACM Type		U	2192		N/A		-
Asbestos Identification		U	2192		N/A	No Asbestos Detected	No Asbestos Detected
Moisture		N	2030	%	0.020	15	8.8
Soil Colour		N	2040		N/A	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones
Soil Texture		N	2040		N/A	Clay	Loam
pH at 20C		M	2010		4.0		
pH (2.5:1) at 20C		N	2010		4.0	[B] 7.5	[B] 8.5
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	[B] < 0.40	[B] 0.66
Magnesium (Water Soluble)		N	2120	g/l	0.010	[B] < 0.010	[B] < 0.010
Sulphate (2:1 Water Soluble) as SO4		M	2120	g/l	0.010	[B] 0.019	[B] 0.021
Total Sulphur		U	2175	%	0.010	[B] < 0.010	[B] 0.39
Sulphur (Elemental)		M	2180	mg/kg	1.0	[B] < 1.0	[B] < 1.0
Chloride (Water Soluble)		M	2220	g/l	0.010	[B] < 0.010	[B] < 0.010
Nitrate (Water Soluble)		N	2220	g/l	0.010	< 0.010	0.037
Cyanide (Complex)		M	2300	mg/kg	0.50		
Cyanide (Free)		M	2300	mg/kg	0.50		
Cyanide (Total)		M	2300	mg/kg	0.50	[B] < 0.50	[B] < 0.50
Sulphide (Easily Liberatable)		N	2325	mg/kg	0.50	[B] 1.7	[B] 2.7
Ammonium (Water Soluble)		M	2220	g/l	0.01	< 0.01	< 0.01
Sulphate (Total)		U	2430	%	0.010	[B] < 0.010	[B] 0.031
Sulphate (Acid Soluble)		U	2430	%	0.010	[B] < 0.010	[B] 0.037
Arsenic		M	2455	mg/kg	0.5	9.9	5.8
Barium		M	2455	mg/kg	0.5	84	63
Cadmium		M	2455	mg/kg	0.10	0.17	< 0.10
Chromium		M	2455	mg/kg	0.5	32	37
Molybdenum		M	2455	mg/kg	0.5	< 0.5	< 0.5
Antimony		N	2455	mg/kg	2.0	< 2.0	< 2.0
Copper		M	2455	mg/kg	0.50	31	17
Mercury		M	2455	mg/kg	0.05	< 0.05	< 0.05
Nickel		M	2455	mg/kg	0.50	43	44
Lead		M	2455	mg/kg	0.50	16	14
Selenium		M	2455	mg/kg	0.25	0.52	0.43
Zinc		M	2455	mg/kg	0.50	61	73
Chromium (Trivalent)		N	2490	mg/kg	1.0	32	37
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50

Results - Soil

Project: 25758 Mount Avenue Dundalk

Client: IGSL		Chemtest Job No.:				25-03228	25-03228	25-03228	25-03228
Quotation No.: Q24-34387		Chemtest Sample ID.:				1925248	1925249	1925250	1925338
Order No.:		Client Sample Ref.:				TP80	TP82	TP86	
		Sample Location:							TP8
		Sample Type:				SOIL	SOIL	SOIL	SOIL
		Top Depth (m):				1.60	1.70	1.40	
		Date Sampled:				26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024
		Asbestos Lab:					DURHAM	DURHAM	NEW-ASB
Determinand	HWOL Code	Accred.	SOP	Units	LOD				
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05		[B] < 0.05	[B] < 0.05	[BC] < 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05		[B] < 0.05	[B] < 0.05	[BC] < 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05		[B] < 0.05	[B] < 0.05	[BC] < 0.05
Aliphatic VPH >C6-C8 (Sum)	HS_2D_AL	N	2780	mg/kg	0.10		[B] < 0.10	[B] < 0.10	[BC] < 0.10
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05		[B] < 0.05	[B] < 0.05	[BC] < 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25		[B] < 0.25	[B] < 0.25	[BC] < 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL #1	M	2690	mg/kg	2.00		[B] < 2.0	[B] < 2.0	[BC] < 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL #1	M	2690	mg/kg	1.00		[B] < 1.0	[B] < 1.0	[BC] < 1.0
Aliphatic EPH >C16-C21 MC	EH_2D_AL #1	M	2690	mg/kg	2.00		[B] < 2.0	[B] < 2.0	[BC] < 2.0
Aliphatic EPH >C21-C35 MC	EH_2D_AL #1	M	2690	mg/kg	3.00		[B] < 3.0	[B] < 3.0	[BC] < 3.0
Aliphatic EPH >C35-C40 MC	EH_2D_AL #1	N	2690	mg/kg	10.00		[B] < 10	[B] < 10	[BC] < 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL #1	M	2690	mg/kg	5.00		[B] < 5.0	[B] < 5.0	[BC] < 5.0
Total Aliphatic EPH >C10-C40 MC	EH_2D_AL #1	N	2690	mg/kg	10.00		[B] < 10	[B] < 10	[BC] < 10
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05		[B] < 0.05	[B] < 0.05	[BC] < 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05		[B] < 0.05	[B] < 0.05	[BC] < 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05		[B] < 0.05	[B] < 0.05	[BC] < 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25		[B] < 0.25	[B] < 0.25	[BC] < 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR #1	U	2690	mg/kg	1.00		[B] < 1.0	[B] < 1.0	[BC] < 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR #1	U	2690	mg/kg	1.00		[B] < 1.0	[B] < 1.0	[BC] < 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR #1	U	2690	mg/kg	2.00		[B] < 2.0	[B] < 2.0	[BC] < 2.0
Aromatic EPH >C21-C35 MC	EH_2D_AR #1	U	2690	mg/kg	2.00		[B] < 2.0	[B] 3.6	[BC] < 2.0
Aromatic EPH >C35-C40 MC	EH_2D_AR #1	N	2690	mg/kg	1.00		[B] < 1.0	[B] < 1.0	[BC] 1.2
Total Aromatic EPH >C10-C35 MC	EH_2D_AR #1	U	2690	mg/kg	5.00		[B] < 5.0	[B] < 5.0	[BC] < 5.0
Total Aromatic EPH >C10-C40 MC	EH_2D_AR #1	N	2690	mg/kg	10.00		[B] < 10	[B] < 10	[BC] < 10
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50		[B] < 0.50	[B] < 0.50	[BC] < 0.50
Total EPH >C10-C35 MC	EH_2D_Total #1	U	2690	mg/kg	10.00		[B] < 10	[B] < 10	[BC] < 10
Total EPH >C10-C40 MC	EH_2D_Total #1	N	2690	mg/kg	10.00		[B] < 10	[B] < 10	[BC] < 10
Mineral Oil EPH		N	2670	mg/kg	10		< 10	< 10	< 10
Benzene		M	2760	µg/kg	1.0		[B] < 1.0	[B] < 1.0	
Toluene		M	2760	µg/kg	1.0		[B] < 1.0	[B] < 1.0	
Ethylbenzene		M	2760	µg/kg	1.0		[B] < 1.0	[B] < 1.0	
m & p-Xylene		M	2760	µg/kg	1.0		[B] < 1.0	[B] < 1.0	
o-Xylene		M	2760	µg/kg	1.0		[B] < 1.0	[B] < 1.0	
Methyl Tert-Butyl Ether		M	2760	µg/kg	1.0		[B] < 1.0	[B] < 1.0	[BC] < 1.0
Naphthalene		M	2800	mg/kg	0.10		< 0.10	< 0.10	
Acenaphthylene		N	2800	mg/kg	0.10		< 0.10	< 0.10	
Acenaphthene		M	2800	mg/kg	0.10		< 0.10	< 0.10	
Fluorene		M	2800	mg/kg	0.10		< 0.10	< 0.10	

Results - Soil

Project: 25758 Mount Avenue Dundalk

Client: IGSL		Chemtest Job No.:		25-03228	25-03228	25-03228	25-03228
Quotation No.: Q24-34387		Chemtest Sample ID.:		1925248	1925249	1925250	1925338
Order No.:		Client Sample Ref.:		TP80	TP82	TP86	
		Sample Location:					TP8
		Sample Type:		SOIL	SOIL	SOIL	SOIL
		Top Depth (m):		1.60	1.70	1.40	
		Date Sampled:		26-Jan-2024	26-Jan-2024	26-Jan-2024	26-Jan-2024
		Asbestos Lab:			DURHAM	DURHAM	NEW-ASB
Determinand	HWOL Code	Accred.	SOP	Units	LOD		
Phenanthrene		M	2800	mg/kg	0.10		< 0.10
Anthracene		M	2800	mg/kg	0.10		< 0.10
Fluoranthene		M	2800	mg/kg	0.10		< 0.10
Pyrene		M	2800	mg/kg	0.10		< 0.10
Benzo[a]anthracene		M	2800	mg/kg	0.10		< 0.10
Chrysene		M	2800	mg/kg	0.10		< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10		< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10		< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10		< 0.10
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10		< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10		< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10		< 0.10
Coronene		N	2800	mg/kg	0.10		< 0.10
Total Of 16 PAH's		N	2800	mg/kg	2.0		
Total Of 17 PAH's		N	2800	mg/kg	2.0		
PCB 28		U	2815	mg/kg	0.010		[B] < 0.010
PCB 52		U	2815	mg/kg	0.010		[B] < 0.010
PCB 101		U	2815	mg/kg	0.010		[B] < 0.010
PCB 118		U	2815	mg/kg	0.010		[B] < 0.010
PCB 153		U	2815	mg/kg	0.010		[B] < 0.010
PCB 138		U	2815	mg/kg	0.010		[B] < 0.010
PCB 180		U	2815	mg/kg	0.010		[B] < 0.010
Tot PCBs Low (7 Congeners)		N	2815	mg/kg	0.05		[B] < 0.05
Total Phenols		M	2920	mg/kg	0.10		< 0.10

Results - Single Stage WAC

Project: 25758 Mount Avenue Dundalk

Project: 20100 Mount Avenue Bundaburn						Landfill Waste Acceptance Criteria Limits		
Chemtest Job No: 25-03228		Chemtest Sample ID: 1925207		Inert Waste Landfill		Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill	
Sample Ref: TP2								
Sample ID:								
Sample Location:								
Top Depth(m): 0.50								
Bottom Depth(m):								
Sampling Date: 26-Jan-2024								
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	[B] 0.38	3	5	6
Loss On Ignition	2610		M	%	2.0	--	--	10
Total BTEX	2760		M	mg/kg	[B] < 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	[B] < 10	500	--	--
Total (Of 17) PAH's	2800		N	mg/kg	< 1.0 < 2.0	100	--	--
pH at 20C	2010		M		7.2	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	< 0.0020	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0004	0.0045	0.5	2	25
Barium	1455		U	0.007	0.070	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0044	0.044	0.5	10	70
Copper	1455		U	0.0056	0.056	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0004	0.0042	0.5	10	30
Nickel	1455		U	0.0030	0.030	0.4	10	40
Lead	1455		U	0.0007	0.0073	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.005	0.053	4	50	200
Chloride	1220		U	1.4	14	800	15000	25000
Fluoride	1220		U	0.13	1.3	10	150	500
Sulphate	1220		U	3.4	34	1000	20000	50000
Total Dissolved Solids	1020		N	130	1300	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	4.5	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	17
WAC Sample Weight	

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25758 Mount Avenue Dundalk

Project: 20100 Mount Avenue Dundalk						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-03228 Chemtest Sample ID: 1925208 Sample Ref: TP4 Sample ID: Sample Location: Top Depth(m): 1.40 Bottom Depth(m): Sampling Date: 26-Jan-2024						Limits		
						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	[B] 1.3	3	5	6
Loss On Ignition	2610		M	%	0.87	--	--	10
Total BTEX	2760		M	mg/kg	[B] < 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D Total	M	mg/kg	[B] < 10	500	--	--
Total (Of 17) PAH's	2800		N	mg/kg	< 1.0 < 2.0	100	--	--
pH at 20C	2010		M		7.6	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.015	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0011	0.011	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0052	0.052	0.5	10	70
Copper	1455		U	0.0039	0.039	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0009	0.0091	0.5	10	30
Nickel	1455		U	0.0032	0.032	0.4	10	40
Lead	1455		U	0.0007	0.0072	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	< 0.003	< 0.025	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.14	1.4	10	150	500
Sulphate	1220		U	< 1.0	< 10	1000	20000	50000
Total Dissolved Solids	1020		N	52	520	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	2.7	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	14
WAC Sample Weight	

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25758 Mount Avenue Dundalk

Project: 20100 Mount Avenue Dundalk						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-03228						Limits		
Chemtest Sample ID: 1925210						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample Ref: TP12								
Sample ID:								
Sample Location:								
Top Depth(m): 1.40								
Bottom Depth(m):								
Sampling Date: 26-Jan-2024								
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	[B] 0.23	3	5	6
Loss On Ignition	2610		M	%	0.64	--	--	10
Total BTEX	2760		M	mg/kg	[B] < 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	[B] < 10	500	--	--
Total (Of 17) PAH's	2800		N	mg/kg	< 1.0 < 2.0	100	--	--
pH at 20C	2010		M		7.8	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.0090	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0005	0.0051	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0050	0.051	0.5	10	70
Copper	1455		U	0.0024	0.024	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0005	0.0048	0.5	10	30
Nickel	1455		U	0.0029	0.029	0.4	10	40
Lead	1455		U	< 0.0005	< 0.0050	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	< 0.003	< 0.025	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.13	1.3	10	150	500
Sulphate	1220		U	< 1.0	< 10	1000	20000	50000
Total Dissolved Solids	1020		N	39	390	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	2.5	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	11
WAC Sample Weight	

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25758 Mount Avenue Dundalk

Project: 2000 Mount Avenue Dundalk						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-03228 Chemtest Sample ID: 1925211 Sample Ref: TP14 Sample ID: Sample Location: Top Depth(m): 0.50 Bottom Depth(m): Sampling Date: 26-Jan-2024						Limits		
						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	[B] 0.49	3	5	6
Loss On Ignition	2610		M	%	1.8	--	--	10
Total BTEX	2760		M	mg/kg	[B] < 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	[B] < 10	500	--	--
Total (Of 17) PAH's	2800		N	mg/kg	< 1.0 < 2.0	100	--	--
pH at 20C	2010		M		7.9	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	< 0.0020	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0011	0.011	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0059	0.059	0.5	10	70
Copper	1455		U	0.0034	0.034	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0005	0.0052	0.5	10	30
Nickel	1455		U	0.0039	0.039	0.4	10	40
Lead	1455		U	0.0018	0.018	0.5	10	50
Antimony	1455		U	0.0007	0.0068	0.06	0.7	5
Selenium	1455		U	0.0008	0.0081	0.1	0.5	7
Zinc	1455		U	0.003	0.034	4	50	200
Chloride	1220		U	1.2	12	800	15000	25000
Fluoride	1220		U	0.12	1.2	10	150	500
Sulphate	1220		U	1.7	17	1000	20000	50000
Total Dissolved Solids	1020		N	22	220	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	3.3	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	11
WAC Sample Weight	

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25758 Mount Avenue Dundalk

Project: 20100 Mount Avenue Bundoran						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-03228						Limits		
Chemtest Sample ID: 1925213						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample Ref: TP16								
Sample ID:								
Sample Location:								
Top Depth(m): 0.50								
Bottom Depth(m):								
Sampling Date: 26-Jan-2024								
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	[B] < 0.20	3	5	6
Loss On Ignition	2610		M	%	1.2	--	--	10
Total BTEX	2760		M	mg/kg	[B] < 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	[B] < 10	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	< 1.0	100	--	--
pH at 20C	2010		M		8.1	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	< 0.0020	--	To evaluate	To evaluate
Eluate Analysis						Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
				10:1 Eluate mg/l	10:1 Eluate mg/kg			
Arsenic	1455		U	0.0006	0.0058	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0043	0.043	0.5	10	70
Copper	1455		U	0.0025	0.025	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0003	0.0030	0.5	10	30
Nickel	1455		U	0.0025	0.025	0.4	10	40
Lead	1455		U	0.0005	0.0051	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	0.0006	0.0057	0.1	0.5	7
Zinc	1455		U	0.003	0.034	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.13	1.3	10	150	500
Sulphate	1220		U	< 1.0	< 10	1000	20000	50000
Total Dissolved Solids	1020		N	97	970	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	3.5	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	6.0
WAC Sample Weight	

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25758 Mount Avenue Dundalk

Project: 20100 Mount Avenue Damdam						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-03228 Chemtest Sample ID: 1925214 Sample Ref: TP18 Sample ID: Sample Location: Top Depth(m): 1.20 Bottom Depth(m): Sampling Date: 26-Jan-2024						Limits		
						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	[B] < 0.20	3	5	6
Loss On Ignition	2610		M	%	2.4	--	--	10
Total BTEX	2760		M	mg/kg	[B] < 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	[B] < 10	500	--	--
Total (Of 17) PAH's	2800		N	mg/kg	< 1.0 < 2.0	100	--	--
pH at 20C	2010		M		8.0	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.0070	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0018	0.018	0.5	2	25
Barium	1455		U	0.006	0.063	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0067	0.067	0.5	10	70
Copper	1455		U	0.0023	0.023	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0006	0.0058	0.5	10	30
Nickel	1455		U	0.0038	0.038	0.4	10	40
Lead	1455		U	0.0010	0.010	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	0.0007	0.0065	0.1	0.5	7
Zinc	1455		U	0.003	0.031	4	50	200
Chloride	1220		U	1.4	14	800	15000	25000
Fluoride	1220		U	0.17	1.7	10	150	500
Sulphate	1220		U	1.9	19	1000	20000	50000
Total Dissolved Solids	1020		N	20	190	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	3.5	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	17
WAC Sample Weight	

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25758 Mount Avenue Dundalk

Project: 20100 Mount Avenue Bundan						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-03228 Chemtest Sample ID: 1925216 Sample Ref: TP22 Sample ID: Sample Location: Top Depth(m): 1.60 Bottom Depth(m): Sampling Date: 26-Jan-2024						Limits		
						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	[B] 0.30	3	5	6
Loss On Ignition	2610		M	%	1.4	--	--	10
Total BTEX	2760		M	mg/kg	[B] < 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D Total	M	mg/kg	[B] < 10	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	< 1.0	100	--	--
pH at 20C	2010		M		8.3	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.038	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0006	0.0058	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0049	0.049	0.5	10	70
Copper	1455		U	0.0023	0.023	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0005	0.0055	0.5	10	30
Nickel	1455		U	0.0027	0.027	0.4	10	40
Lead	1455		U	< 0.0005	< 0.0050	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.003	0.028	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.12	1.2	10	150	500
Sulphate	1220		U	< 1.0	< 10	1000	20000	50000
Total Dissolved Solids	1020		N	51	510	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	< 2.5	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	5.2
WAC Sample Weight	

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25758 Mount Avenue Dundalk

Project: 20100 Mount Avenue Damdam						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-03228 Chemtest Sample ID: 1925217 Sample Ref: TP24 Sample ID: Sample Location: Top Depth(m): 1.80 Bottom Depth(m): Sampling Date: 26-Jan-2024						Limits		
						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	[B] < 0.20	3	5	6
Loss On Ignition	2610		M	%	1.6	--	--	10
Total BTEX	2760		M	mg/kg	[B] < 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D Total	M	mg/kg	[B] < 10	500	--	--
Total (Of 17) PAH's	2800		N	mg/kg	< 1.0 < 2.0	100	--	--
pH at 20C	2010		M		8.0	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.0030	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0007	0.0070	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0058	0.058	0.5	10	70
Copper	1455		U	0.0018	0.018	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0007	0.0071	0.5	10	30
Nickel	1455		U	0.0035	0.035	0.4	10	40
Lead	1455		U	< 0.0005	< 0.0050	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.003	0.026	4	50	200
Chloride	1220		U	2.0	20	800	15000	25000
Fluoride	1220		U	0.18	1.8	10	150	500
Sulphate	1220		U	< 1.0	< 10	1000	20000	50000
Total Dissolved Solids	1020		N	16	160	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	< 2.5	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	15
WAC Sample Weight	

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25758 Mount Avenue Dundalk

Project: 20100 Mount Avenue Damdam						Landfill Waste Acceptance Criteria		
Chemtest Job No:		25-03228		Limits		Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Chemtest Sample ID:		1925218						
Sample Ref:		TP26						
Sample ID:								
Sample Location:								
Top Depth(m):		0.50						
Bottom Depth(m):								
Sampling Date:		26-Jan-2024						
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	[B] < 0.20	3	5	6
Loss On Ignition	2610		M	%	2.0	--	--	10
Total BTEX	2760		M	mg/kg	[B] < 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D Total	M	mg/kg	[B] < 10	500	--	--
Total (Of 17) PAH's	2800		N	mg/kg	< 1.0 < 2.0	100	--	--
pH at 20C	2010		M		7.4	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.010	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0005	0.0050	0.5	2	25
Barium	1455		U	0.005	0.054	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0047	0.047	0.5	10	70
Copper	1455		U	0.0050	0.050	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0003	0.0026	0.5	10	30
Nickel	1455		U	0.0036	0.036	0.4	10	40
Lead	1455		U	0.0018	0.018	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	0.0008	0.0075	0.1	0.5	7
Zinc	1455		U	0.007	0.070	4	50	200
Chloride	1220		U	1.1	11	800	15000	25000
Fluoride	1220		U	0.23	2.3	10	150	500
Sulphate	1220		U	3.9	39	1000	20000	50000
Total Dissolved Solids	1020		N	15	150	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	3.0	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	13
WAC Sample Weight	

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25758 Mount Avenue Dundalk

Project: 20100 Mount Avenue Bundan						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-03228 Chemtest Sample ID: 1925219 Sample Ref: TP28 Sample ID: Sample Location: Top Depth(m): 2.10 Bottom Depth(m): Sampling Date: 26-Jan-2024						Limits		
						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	[B] 0.21	3	5	6
Loss On Ignition	2610		M	%	1.0	--	--	10
Total BTEX	2760		M	mg/kg	[B] < 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D Total	M	mg/kg	[B] < 10	500	--	--
Total (Of 17) PAH's	2800		N	mg/kg	< 1.0 < 2.0	100	--	--
pH at 20C	2010		M		7.7	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.015	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0004	0.0039	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0044	0.044	0.5	10	70
Copper	1455		U	0.0028	0.028	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0007	0.0074	0.5	10	30
Nickel	1455		U	0.0027	0.027	0.4	10	40
Lead	1455		U	< 0.0005	< 0.0050	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.003	0.031	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.14	1.4	10	150	500
Sulphate	1220		U	< 1.0	< 10	1000	20000	50000
Total Dissolved Solids	1020		N	41	410	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	< 2.5	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	12
WAC Sample Weight	

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25758 Mount Avenue Dundalk

Project: 20100 Mount Avenue Damdam						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-03228 Chemtest Sample ID: 1925220 Sample Ref: TP30 Sample ID: Sample Location: Top Depth(m): 1.20 Bottom Depth(m): Sampling Date: 26-Jan-2024						Limits		
						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	[B] < 0.20	3	5	6
Loss On Ignition	2610		M	%	1.8	--	--	10
Total BTEX	2760		M	mg/kg	[B] < 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	[B] < 10	500	--	--
Total (Of 17) PAH's	2800		N	mg/kg	< 1.0 < 2.0	100	--	--
pH at 20C	2010		M		7.6	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	< 0.0020	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0005	0.0051	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0051	0.051	0.5	10	70
Copper	1455		U	0.0019	0.019	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0003	0.0032	0.5	10	30
Nickel	1455		U	0.0034	0.034	0.4	10	40
Lead	1455		U	< 0.0005	< 0.0050	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.003	0.032	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.13	1.3	10	150	500
Sulphate	1220		U	1.3	13	1000	20000	50000
Total Dissolved Solids	1020		N	14	140	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	2.6	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	14
WAC Sample Weight	

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25758 Mount Avenue Dundalk

Project: 20100 Mount Avenue Bundan						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-03228 Chemtest Sample ID: 1925221 Sample Ref: TP34 Sample ID: Sample Location: Top Depth(m): 0.50 Bottom Depth(m): Sampling Date: 26-Jan-2024						Limits		
						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	[B] 0.26	3	5	6
Loss On Ignition	2610		M	%	2.7	--	--	10
Total BTEX	2760		M	mg/kg	[B] < 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D Total	M	mg/kg	[B] < 10	500	--	--
Total (Of 17) PAH's	2800		N	mg/kg	< 1.0 < 2.0	100	--	--
pH at 20C	2010		M		7.4	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.0030	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0010	0.0095	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0059	0.059	0.5	10	70
Copper	1455		U	0.0053	0.053	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0004	0.0037	0.5	10	30
Nickel	1455		U	0.0037	0.037	0.4	10	40
Lead	1455		U	0.0010	0.010	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	0.0007	0.0067	0.1	0.5	7
Zinc	1455		U	0.004	0.039	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.13	1.3	10	150	500
Sulphate	1220		U	1.9	19	1000	20000	50000
Total Dissolved Solids	1020		N	18	180	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	3.1	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	11
WAC Sample Weight	

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25758 Mount Avenue Dundalk

Project: 20100 Mount Avenue Damdam						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-03228 Chemtest Sample ID: 1925223 Sample Ref: TP38 Sample ID: Sample Location: Top Depth(m): 0.50 Bottom Depth(m): Sampling Date: 26-Jan-2024						Limits		
						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	[B] 0.50	3	5	6
Loss On Ignition	2610		M	%	4.0	--	--	10
Total BTEX	2760		M	mg/kg	[B] < 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	[B] 22	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	< 1.0	100	--	--
pH at 20C	2010		M		7.1	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.0050	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0003	0.0031	0.5	2	25
Barium	1455		U	0.006	0.059	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0047	0.047	0.5	10	70
Copper	1455		U	0.0068	0.068	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0004	0.0043	0.5	10	30
Nickel	1455		U	0.0034	0.034	0.4	10	40
Lead	1455		U	0.0010	0.010	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	0.0006	0.0062	0.1	0.5	7
Zinc	1455		U	0.010	0.098	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.19	1.9	10	150	500
Sulphate	1220		U	1.4	14	1000	20000	50000
Total Dissolved Solids	1020		N	25	250	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	3.3	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	8.1
WAC Sample Weight	

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25758 Mount Avenue Dundalk

Project: 20100 Mount Avenue Bundan						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-03228 Chemtest Sample ID: 1925225 Sample Ref: TP40 Sample ID: Sample Location: Top Depth(m): 1.50 Bottom Depth(m): Sampling Date: 26-Jan-2024						Limits		
						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	[B] < 0.20	3	5	6
Loss On Ignition	2610		M	%	3.4	--	--	10
Total BTEX	2760		M	mg/kg	[B] < 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	[B] < 10	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	< 1.0	100	--	--
pH at 20C	2010		M		7.4	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.0020	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0016	0.016	0.5	2	25
Barium	1455		U	0.005	0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0055	0.055	0.5	10	70
Copper	1455		U	0.0060	0.060	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0004	0.0035	0.5	10	30
Nickel	1455		U	0.0033	0.033	0.4	10	40
Lead	1455		U	0.0015	0.015	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.005	0.048	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.13	1.3	10	150	500
Sulphate	1220		U	1.1	11	1000	20000	50000
Total Dissolved Solids	1020		N	18	180	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	2.5	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	7.0
WAC Sample Weight	

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25758 Mount Avenue Dundalk

Project: 20100 Mount Avenue Damdam						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-03228 Chemtest Sample ID: 1925226 Sample Ref: TP42 Sample ID: Sample Location: Top Depth(m): 1.00 Bottom Depth(m): Sampling Date: 26-Jan-2024						Limits		
						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	[B] < 0.20	3	5	6
Loss On Ignition	2610		M	%	2.1	--	--	10
Total BTEX	2760		M	mg/kg	[B] < 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	[B] < 10	500	--	--
Total (Of 17) PAH's	2800		N	mg/kg	< 1.0 < 2.0	100	--	--
pH at 20C	2010		M		7.4	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	< 0.0020	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0004	0.0044	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0046	0.046	0.5	10	70
Copper	1455		U	0.0018	0.018	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0002	0.0023	0.5	10	30
Nickel	1455		U	0.0029	0.030	0.4	10	40
Lead	1455		U	< 0.0005	< 0.0050	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	< 0.003	< 0.025	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.10	1.0	10	150	500
Sulphate	1220		U	1.7	17	1000	20000	50000
Total Dissolved Solids	1020		N	19	190	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	< 2.5	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	18
WAC Sample Weight	

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25758 Mount Avenue Dundalk

Project: 20100 Mount Avenue Bundan						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-03228 Chemtest Sample ID: 1925227 Sample Ref: TP44 Sample ID: Sample Location: Top Depth(m): 0.50 Bottom Depth(m): Sampling Date: 26-Jan-2024						Limits		
						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	[B] 0.23	3	5	6
Loss On Ignition	2610		M	%	1.8	--	--	10
Total BTEX	2760		M	mg/kg	[B] < 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	[B] < 10	500	--	--
Total (Of 17) PAH's	2800		N	mg/kg	< 1.0 < 2.0	100	--	--
pH at 20C	2010		M		7.6	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.0030	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0005	0.0052	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0057	0.057	0.5	10	70
Copper	1455		U	0.0025	0.025	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0003	0.0029	0.5	10	30
Nickel	1455		U	0.0035	0.035	0.4	10	40
Lead	1455		U	< 0.0005	< 0.0050	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.003	0.034	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.12	1.2	10	150	500
Sulphate	1220		U	1.9	19	1000	20000	50000
Total Dissolved Solids	1020		N	27	260	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	< 2.5	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	18
WAC Sample Weight	

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25758 Mount Avenue Dundalk

Project: 20100 Mount Avenue Bundan						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-03228 Chemtest Sample ID: 1925229 Sample Ref: TP48 Sample ID: Sample Location: Top Depth(m): 1.90 Bottom Depth(m): Sampling Date: 26-Jan-2024						Limits		
						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	[B] < 0.20	3	5	6
Loss On Ignition	2610		M	%	1.9	--	--	10
Total BTEX	2760		M	mg/kg	[B] < 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	[B] < 10	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	< 1.0	100	--	--
pH at 20C	2010		M		7.3	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	< 0.0020	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0004	0.0037	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0045	0.045	0.5	10	70
Copper	1455		U	0.0050	0.050	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0003	0.0034	0.5	10	30
Nickel	1455		U	0.0027	0.027	0.4	10	40
Lead	1455		U	0.0007	0.0068	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.006	0.064	4	50	200
Chloride	1220		U	1.1	11	800	15000	25000
Fluoride	1220		U	0.11	1.1	10	150	500
Sulphate	1220		U	2.9	29	1000	20000	50000
Total Dissolved Solids	1020		N	21	210	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	2.6	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	5.5
WAC Sample Weight	

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25758 Mount Avenue Dundalk

Project: 20100 Mount Avenue Bundan						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-03228 Chemtest Sample ID: 1925230 Sample Ref: TP50 Sample ID: Sample Location: Top Depth(m): 0.50 Bottom Depth(m): Sampling Date: 26-Jan-2024						Limits		
						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	[B] 0.25	3	5	6
Loss On Ignition	2610		M	%	2.6	--	--	10
Total BTEX	2760		M	mg/kg	[B] < 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D Total	M	mg/kg	[B] < 10	500	--	--
Total (Of 17) PAH's	2800		N	mg/kg	< 1.0 < 2.0	100	--	--
pH at 20C	2010		M		7.5	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.0050	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0004	0.0044	0.5	2	25
Barium	1455		U	0.015	0.15	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0051	0.051	0.5	10	70
Copper	1455		U	0.0076	0.076	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0002	0.0024	0.5	10	30
Nickel	1455		U	0.0033	0.033	0.4	10	40
Lead	1455		U	0.0015	0.015	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	0.0007	0.0070	0.1	0.5	7
Zinc	1455		U	0.011	0.11	4	50	200
Chloride	1220		U	1.4	14	800	15000	25000
Fluoride	1220		U	0.20	2.0	10	150	500
Sulphate	1220		U	5.3	53	1000	20000	50000
Total Dissolved Solids	1020		N	19	190	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	5.2	52	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	15
WAC Sample Weight	

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25758 Mount Avenue Dundalk

Project: 20100 Mount Avenue Damdam						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-03228 Chemtest Sample ID: 1925231 Sample Ref: TP52 Sample ID: Sample Location: Top Depth(m): 1.70 Bottom Depth(m): Sampling Date: 26-Jan-2024						Limits		
						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	[B] < 0.20	3	5	6
Loss On Ignition	2610		M	%	0.98	--	--	10
Total BTEX	2760		M	mg/kg	[B] < 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D Total	M	mg/kg	[B] < 10	500	--	--
Total (Of 17) PAH's	2800		N	mg/kg	< 1.0 < 2.0	100	--	--
pH at 20C	2010		M		8.0	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.037	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0003	0.0033	0.5	2	25
Barium	1455		U	0.006	0.064	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0034	0.034	0.5	10	70
Copper	1455		U	0.0049	0.049	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0007	0.0066	0.5	10	30
Nickel	1455		U	0.0020	0.020	0.4	10	40
Lead	1455		U	< 0.0005	< 0.0050	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.005	0.049	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.11	1.1	10	150	500
Sulphate	1220		U	1.2	12	1000	20000	50000
Total Dissolved Solids	1020		N	17	170	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	< 2.5	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	11
WAC Sample Weight	

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25758 Mount Avenue Dundalk

Project: 20100 Mount Avenue Bundan						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-03228 Chemtest Sample ID: 1925232 Sample Ref: TP54 Sample ID: Sample Location: Top Depth(m): 1.00 Bottom Depth(m): Sampling Date: 26-Jan-2024						Limits		
						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	[B] < 0.20	3	5	6
Loss On Ignition	2610		M	%	1.3	--	--	10
Total BTEX	2760		M	mg/kg	[B] < 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	[B] < 10	500	--	--
Total (Of 17) PAH's	2800		N	mg/kg	< 1.0 < 2.0	100	--	--
pH at 20C	2010		M		8.0	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	< 0.0020	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0004	0.0040	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0050	0.050	0.5	10	70
Copper	1455		U	0.0023	0.023	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0002	0.0022	0.5	10	30
Nickel	1455		U	0.0031	0.031	0.4	10	40
Lead	1455		U	< 0.0005	< 0.0050	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	< 0.003	< 0.025	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.098	< 1.0	10	150	500
Sulphate	1220		U	2.8	28	1000	20000	50000
Total Dissolved Solids	1020		N	17	170	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	< 2.5	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	14
WAC Sample Weight	

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25758 Mount Avenue Dundalk

Project: 20100 Mount Avenue Damdam						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-03228 Chemtest Sample ID: 1925234 Sample Ref: TP58 Sample ID: Sample Location: Top Depth(m): 1.50 Bottom Depth(m): Sampling Date: 26-Jan-2024						Limits		
						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	[B] < 0.20	3	5	6
Loss On Ignition	2610		M	%	1.9	--	--	10
Total BTEX	2760		M	mg/kg	[B] < 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	[B] < 10	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	< 1.0	100	--	--
pH at 20C	2010		M		7.7	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.0090	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	< 0.0002	< 0.0020	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0041	0.041	0.5	10	70
Copper	1455		U	0.0045	0.045	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0002	0.0022	0.5	10	30
Nickel	1455		U	0.0023	0.023	0.4	10	40
Lead	1455		U	< 0.0005	< 0.0050	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.008	0.085	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.12	1.2	10	150	500
Sulphate	1220		U	< 1.0	< 10	1000	20000	50000
Total Dissolved Solids	1020		N	16	160	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	< 2.5	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	8.5
WAC Sample Weight	

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25758 Mount Avenue Dundalk

Project: 20100 Mount Avenue Bundan						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-03228 Chemtest Sample ID: 1925236 Sample Ref: TP60 Sample ID: Sample Location: Top Depth(m): 2.00 Bottom Depth(m): Sampling Date: 26-Jan-2024						Limits		
						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	[B] 0.40	3	5	6
Loss On Ignition	2610		M	%	1.8	--	--	10
Total BTEX	2760		M	mg/kg	[B] < 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D Total	M	mg/kg	[B] < 10	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	< 1.0	100	--	--
pH at 20C	2010		M		7.9	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.050	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0004	0.0044	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0042	0.042	0.5	10	70
Copper	1455		U	0.0022	0.022	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0003	0.0034	0.5	10	30
Nickel	1455		U	0.0022	0.022	0.4	10	40
Lead	1455		U	< 0.0005	< 0.0050	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	< 0.003	< 0.025	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.11	1.1	10	150	500
Sulphate	1220		U	< 1.0	< 10	1000	20000	50000
Total Dissolved Solids	1020		N	44	440	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	< 2.5	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	6.7
WAC Sample Weight	

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25758 Mount Avenue Dundalk

Project: 20100 Mount Avenue Damdam						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-03228 Chemtest Sample ID: 1925237 Sample Ref: TP62 Sample ID: Sample Location: Top Depth(m): 0.50 Bottom Depth(m): Sampling Date: 26-Jan-2024						Limits		
						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	[B] 0.31	3	5	6
Loss On Ignition	2610		M	%	3.0	--	--	10
Total BTEX	2760		M	mg/kg	[B] < 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	[B] < 10	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	< 1.0	100	--	--
pH at 20C	2010		M		7.5	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.0040	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	< 0.0002	< 0.0020	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0036	0.036	0.5	10	70
Copper	1455		U	0.0045	0.045	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0004	0.0039	0.5	10	30
Nickel	1455		U	0.0026	0.027	0.4	10	40
Lead	1455		U	0.0006	0.0059	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.007	0.070	4	50	200
Chloride	1220		U	1.1	11	800	15000	25000
Fluoride	1220		U	0.12	1.2	10	150	500
Sulphate	1220		U	1.4	14	1000	20000	50000
Total Dissolved Solids	1020		N	26	260	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	3.4	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	15
WAC Sample Weight	

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25758 Mount Avenue Dundalk

Project: 20100 Mount Avenue Bundan						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-03228 Chemtest Sample ID: 1925238 Sample Ref: TP64 Sample ID: Sample Location: Top Depth(m): 1.00 Bottom Depth(m): Sampling Date: 26-Jan-2024						Limits		
						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	[B] < 0.20	3	5	6
Loss On Ignition	2610		M	%	2.0	--	--	10
Total BTEX	2760		M	mg/kg	[B] < 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D Total	M	mg/kg	[B] < 10	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	< 1.0	100	--	--
pH at 20C	2010		M		7.6	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.0020	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0005	0.0048	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0045	0.045	0.5	10	70
Copper	1455		U	0.0052	0.052	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0004	0.0039	0.5	10	30
Nickel	1455		U	0.0029	0.029	0.4	10	40
Lead	1455		U	0.0008	0.0080	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	0.0005	0.0053	0.1	0.5	7
Zinc	1455		U	0.011	0.11	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.20	2.0	10	150	500
Sulphate	1220		U	2.3	23	1000	20000	50000
Total Dissolved Solids	1020		N	12	120	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	2.7	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	12
WAC Sample Weight	

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25758 Mount Avenue Dundalk

Project: 20100 Mount Avenue Bundan						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-03228 Chemtest Sample ID: 1925240 Sample Ref: TP66 Sample ID: Sample Location: Top Depth(m): 0.50 Bottom Depth(m): Sampling Date: 26-Jan-2024						Limits		
						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	[B] 0.91	3	5	6
Loss On Ignition	2610		M	%	4.1	--	--	10
Total BTEX	2760		M	mg/kg	[B] < 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	[B] < 10	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	< 1.0	100	--	--
pH at 20C	2010		M		6.9	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	< 0.0020	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	< 0.0002	< 0.0020	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0035	0.035	0.5	10	70
Copper	1455		U	0.0051	0.051	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0003	0.0031	0.5	10	30
Nickel	1455		U	0.0026	0.026	0.4	10	40
Lead	1455		U	< 0.0005	< 0.0050	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.010	0.097	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.099	< 1.0	10	150	500
Sulphate	1220		U	5.2	52	1000	20000	50000
Total Dissolved Solids	1020		N	19	190	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	4.3	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	19
WAC Sample Weight	

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25758 Mount Avenue Dundalk

Project: 20100 Mount Avenue Bundan						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-03228 Chemtest Sample ID: 1925241 Sample Ref: TP68 Sample ID: Sample Location: Top Depth(m): 1.80 Bottom Depth(m): Sampling Date: 26-Jan-2024						Limits		
						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	[B] < 0.20	3	5	6
Loss On Ignition	2610		M	%	1.0	--	--	10
Total BTEX	2760		M	mg/kg	[B] < 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	[B] < 10	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	< 1.0	100	--	--
pH at 20C	2010		M		7.9	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.034	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0003	0.0028	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0048	0.048	0.5	10	70
Copper	1455		U	0.0020	0.020	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0005	0.0053	0.5	10	30
Nickel	1455		U	0.0029	0.029	0.4	10	40
Lead	1455		U	< 0.0005	< 0.0050	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	< 0.003	< 0.025	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.14	1.4	10	150	500
Sulphate	1220		U	1.1	11	1000	20000	50000
Total Dissolved Solids	1020		N	44	430	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	< 2.5	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	11
WAC Sample Weight	

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25758 Mount Avenue Dundalk

Project: 20100 Mount Avenue Damdam						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-03228 Chemtest Sample ID: 1925242 Sample Ref: TP70 Sample ID: Sample Location: Top Depth(m): 1.50 Bottom Depth(m): Sampling Date: 26-Jan-2024						Limits		
						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	[B] < 0.20	3	5	6
Loss On Ignition	2610		M	%	1.6	--	--	10
Total BTEX	2760		M	mg/kg	[B] < 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D Total	M	mg/kg	[B] < 10	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	< 1.0	100	--	--
pH at 20C	2010		M		8.2	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.028	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0004	0.0040	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0047	0.047	0.5	10	70
Copper	1455		U	0.0024	0.024	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0007	0.0066	0.5	10	30
Nickel	1455		U	0.0027	0.027	0.4	10	40
Lead	1455		U	< 0.0005	< 0.0050	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.003	0.032	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.17	1.7	10	150	500
Sulphate	1220		U	< 1.0	< 10	1000	20000	50000
Total Dissolved Solids	1020		N	44	430	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	< 2.5	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	10
WAC Sample Weight	

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25758 Mount Avenue Dundalk

Project: 20100 Mount Avenue Dundalk						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-03228 Chemtest Sample ID: 1925243 Sample Ref: TP72 Sample ID: Sample Location: Top Depth(m): 0.50 Bottom Depth(m): Sampling Date: 26-Jan-2024						Limits		
						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	[B] 0.38	3	5	6
Loss On Ignition	2610		M	%	3.1	--	--	10
Total BTEX	2760		M	mg/kg	[B] < 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	[B] 21	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	< 1.0	100	--	--
pH at 20C	2010		M		6.8	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	< 0.0020	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0002	0.0022	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0044	0.044	0.5	10	70
Copper	1455		U	0.0050	0.051	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0003	0.0034	0.5	10	30
Nickel	1455		U	0.0029	0.029	0.4	10	40
Lead	1455		U	0.0007	0.0074	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.004	0.040	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.094	< 1.0	10	150	500
Sulphate	1220		U	2.2	22	1000	20000	50000
Total Dissolved Solids	1020		N	18	170	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	3.6	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	14
WAC Sample Weight	

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25758 Mount Avenue Dundalk

Project: 20100 Mount Avenue Bundan						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-03228 Chemtest Sample ID: 1925244 Sample Ref: TP74 Sample ID: Sample Location: Top Depth(m): 1.20 Bottom Depth(m): Sampling Date: 26-Jan-2024						Limits		
						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	[B] < 0.20	3	5	6
Loss On Ignition	2610		M	%	3.3	--	--	10
Total BTEX	2760		M	mg/kg	[B] < 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	[B] < 10	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	< 1.0	100	--	--
pH at 20C	2010		M		6.7	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	< 0.0020	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0005	0.0049	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0044	0.044	0.5	10	70
Copper	1455		U	0.0017	0.017	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	< 0.0002	< 0.0020	0.5	10	30
Nickel	1455		U	0.0029	0.029	0.4	10	40
Lead	1455		U	< 0.0005	< 0.0050	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	< 0.003	< 0.025	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.10	1.0	10	150	500
Sulphate	1220		U	3.1	31	1000	20000	50000
Total Dissolved Solids	1020		N	18	170	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	< 2.5	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	17
WAC Sample Weight	

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25758 Mount Avenue Dundalk

Project: 20100 Mount Avenue, Pandan						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-03228						Limits		
Chemtest Sample ID: 1925246						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample Ref: TP76								
Sample ID:								
Sample Location:								
Top Depth(m): 0.50								
Bottom Depth(m):								
Sampling Date: 26-Jan-2024								
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	[B] 0.24	3	5	6
Loss On Ignition	2610		M	%	1.8	--	--	10
Total BTEX	2760		M	mg/kg	[B] < 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D Total	M	mg/kg	[B] < 10	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	< 1.0	100	--	--
pH at 20C	2010		M		6.6	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	< 0.0020	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0005	0.0046	0.5	2	25
Barium	1455		U	0.012	0.12	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0046	0.046	0.5	10	70
Copper	1455		U	0.0066	0.066	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0004	0.0037	0.5	10	30
Nickel	1455		U	0.0031	0.031	0.4	10	40
Lead	1455		U	0.0008	0.0082	0.5	10	50
Antimony	1455		U	0.0006	0.0060	0.06	0.7	5
Selenium	1455		U	0.0009	0.0094	0.1	0.5	7
Zinc	1455		U	0.023	0.23	4	50	200
Chloride	1220		U	1.1	11	800	15000	25000
Fluoride	1220		U	0.12	1.2	10	150	500
Sulphate	1220		U	3.0	30	1000	20000	50000
Total Dissolved Solids	1020		N	17	170	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	3.8	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	13
WAC Sample Weight	

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25758 Mount Avenue Dundalk

Project: 20100 Mount Avenue Damdam						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-03228 Chemtest Sample ID: 1925247 Sample Ref: TP78 Sample ID: Sample Location: Top Depth(m): 1.50 Bottom Depth(m): Sampling Date: 26-Jan-2024						Limits		
						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	[B] 0.30	3	5	6
Loss On Ignition	2610		M	%	3.0	--	--	10
Total BTEX	2760		M	mg/kg	[B] < 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D Total	M	mg/kg	[B] < 10	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	< 1.0	100	--	--
pH at 20C	2010		M		6.4	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	< 0.0020	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0011	0.011	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0060	0.060	0.5	10	70
Copper	1455		U	0.0055	0.055	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0003	0.0035	0.5	10	30
Nickel	1455		U	0.0039	0.039	0.4	10	40
Lead	1455		U	0.0013	0.013	0.5	10	50
Antimony	1455		U	0.0006	0.0057	0.06	0.7	5
Selenium	1455		U	0.0008	0.0085	0.1	0.5	7
Zinc	1455		U	0.004	0.038	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.15	1.5	10	150	500
Sulphate	1220		U	1.6	16	1000	20000	50000
Total Dissolved Solids	1020		N	19	190	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	3.8	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	10
WAC Sample Weight	

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25758 Mount Avenue Dundalk

Project: 20100 Mount Avenue Dundalk						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-03228 Chemtest Sample ID: 1925249 Sample Ref: TP82 Sample ID: Sample Location: Top Depth(m): 1.70 Bottom Depth(m): Sampling Date: 26-Jan-2024						Limits		
						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	[B] < 0.20	3	5	6
Loss On Ignition	2610		M	%	1.9	--	--	10
Total BTEX	2760		M	mg/kg	[B] < 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	[B] 42	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	< 1.0	100	--	--
pH at 20C	2010		M		6.4	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	< 0.0020	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0004	0.0044	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0056	0.056	0.5	10	70
Copper	1455		U	0.0017	0.017	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0003	0.0030	0.5	10	30
Nickel	1455		U	0.0031	0.031	0.4	10	40
Lead	1455		U	< 0.0005	< 0.0050	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	< 0.003	< 0.025	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.10	1.0	10	150	500
Sulphate	1220		U	1.9	19	1000	20000	50000
Total Dissolved Solids	1020		N	19	190	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	2.7	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	11
WAC Sample Weight	

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25758 Mount Avenue Dundalk

Project: 20100 Mount Avenue Bundan						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-03228 Chemtest Sample ID: 1925250 Sample Ref: TP86 Sample ID: Sample Location: Top Depth(m): 1.40 Bottom Depth(m): Sampling Date: 26-Jan-2024						Limits		
						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	[B] 0.74	3	5	6
Loss On Ignition	2610		M	%	4.0	--	--	10
Total BTEX	2760		M	mg/kg	[B] < 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D Total	M	mg/kg	[B] < 10	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	< 1.0	100	--	--
pH at 20C	2010		M		8.5	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	< 0.0020	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0004	0.0044	0.5	2	25
Barium	1455		U	0.006	0.063	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0057	0.057	0.5	10	70
Copper	1455		U	0.0024	0.024	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0004	0.0037	0.5	10	30
Nickel	1455		U	0.0039	0.039	0.4	10	40
Lead	1455		U	0.0007	0.0065	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.004	0.044	4	50	200
Chloride	1220		U	1.3	13	800	15000	25000
Fluoride	1220		U	0.11	1.1	10	150	500
Sulphate	1220		U	1.6	16	1000	20000	50000
Total Dissolved Solids	1020		N	22	220	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	3.5	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	13
WAC Sample Weight	

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: 25758 Mount Avenue Dundalk

Chemtest Job No: 25-03228						Landfill Waste Acceptance Criteria		
Chemtest Sample ID: 1925338						Limits		
Sample Ref:						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample ID:								
Sample Location: TP8								
Top Depth(m):								
Bottom Depth(m):								
Sampling Date: 26-Jan-2024								
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	[B] 0.26	3	5	6
Loss on Ignition						--	--	10
Total BTEX	2760		M	mg/kg	[BC] < 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH CU 1D Total	M	mg/kg	[BC] < 10	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	< 1.0	100	--	--
pH						--	>6	--
Acid Neutralisation Capacity						--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic						0.5	2	25
Barium	1455		U	I/S		20	100	300
Cadmium						0.04	1	5
Chromium	1455		U	I/S		0.5	10	70
Copper	1455		U	I/S		2	50	100
Mercury	1455		U	I/S		0.01	0.2	2
Molybdenum	1455		U	I/S		0.5	10	30
Nickel	1455		U	I/S		0.4	10	40
Lead	1455		U	I/S		0.5	10	50
Antimony	1455		U	I/S		0.06	0.7	5
Selenium	1455		U	I/S		0.1	0.5	7
Zinc						4	50	200
Chloride	1220		U	I/S		800	15000	25000
Fluoride						10	150	500
Sulphate	1220		U	I/S		1000	20000	50000
Total Dissolved Solids	1020		N	150		4000	60000	100000
Phenol Index	1920		U	< 0.030		1	-	-
Dissolved Organic Carbon	1610		U	I/S		500	800	1000

Solid Information	
Dry mass of test portion/kg	
Moisture (%)	14
WAC Sample Weight	

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Deviations

In accordance with UKAS Policy on Deviating Samples TPS 63. Chemtest have a procedure to ensure 'upon receipt of each sample a competent laboratory shall assess whether the sample is suitable with regard to the requested test(s)'. This policy and the respective holding times applied, can be supplied upon request. The reason a sample is declared as deviating is detailed below. Where applicable the analysis remains UKAS/MCERTs accredited but the results may be compromised.

Sample:	Sample Ref:	Sample ID:	Sample Location:	Sampled Date:	Deviation Code(s):	Containers Received:
1925206	TP1			26-Jan-2024	B	Amber Glass 250ml
1925206	TP1			26-Jan-2024	B	Plastic Tub 500g
1925207	TP2			26-Jan-2024	B	Amber Glass 250ml
1925207	TP2			26-Jan-2024	B	Plastic Tub 500g
1925208	TP4			26-Jan-2024	B	Amber Glass 250ml
1925208	TP4			26-Jan-2024	B	Plastic Tub 500g
1925209	TP5			26-Jan-2024	B	Amber Glass 250ml
1925209	TP5			26-Jan-2024	B	Plastic Tub 500g
1925210	TP12			26-Jan-2024	B	Amber Glass 250ml
1925210	TP12			26-Jan-2024	B	Plastic Tub 500g
1925211	TP14			26-Jan-2024	B	Amber Glass 250ml
1925211	TP14			26-Jan-2024	B	Plastic Tub 500g
1925212	TP15			26-Jan-2024	B	Amber Glass 250ml
1925212	TP15			26-Jan-2024	B	Plastic Tub 500g
1925213	TP16			26-Jan-2024	B	Amber Glass 250ml
1925213	TP16			26-Jan-2024	B	Plastic Tub 500g
1925214	TP18			26-Jan-2024	B	Amber Glass 250ml
1925214	TP18			26-Jan-2024	B	Plastic Tub 500g
1925215	TP20			26-Jan-2024	B	Amber Glass 250ml
1925215	TP20			26-Jan-2024	B	Plastic Tub 500g
1925216	TP22			26-Jan-2024	B	Amber Glass 250ml
1925216	TP22			26-Jan-2024	B	Plastic Tub 500g

Deviations

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Sample:	Sample Ref:	Sample ID:	Sample Location:	Sampled Date:	Deviation Code(s):	Containers Received:
1925217	TP24			26-Jan-2024	B	Amber Glass 250ml
1925217	TP24			26-Jan-2024	B	Plastic Tub 500g
1925218	TP26			26-Jan-2024	B	Amber Glass 250ml
1925218	TP26			26-Jan-2024	B	Plastic Tub 500g
1925219	TP28			26-Jan-2024	B	Amber Glass 250ml
1925219	TP28			26-Jan-2024	B	Plastic Tub 500g
1925220	TP30			26-Jan-2024	B	Amber Glass 250ml
1925220	TP30			26-Jan-2024	B	Plastic Tub 500g
1925221	TP34			26-Jan-2024	B	Amber Glass 250ml
1925221	TP34			26-Jan-2024	B	Plastic Tub 500g
1925222	TP35			26-Jan-2024	B	Amber Glass 250ml
1925222	TP35			26-Jan-2024	B	Plastic Tub 500g
1925223	TP38			26-Jan-2024	B	Amber Glass 250ml
1925223	TP38			26-Jan-2024	B	Plastic Tub 500g
1925224	TP40			26-Jan-2024	B	Amber Glass 250ml
1925224	TP40			26-Jan-2024	B	Plastic Tub 500g
1925225	TP40			26-Jan-2024	B	Amber Glass 250ml
1925225	TP40			26-Jan-2024	B	Plastic Tub 500g
1925226	TP42			26-Jan-2024	B	Amber Glass 250ml
1925226	TP42			26-Jan-2024	B	Plastic Tub 500g
1925227	TP44			26-Jan-2024	B	Amber Glass 250ml
1925227	TP44			26-Jan-2024	B	Plastic Tub 500g

Deviations

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Sample:	Sample Ref:	Sample ID:	Sample Location:	Sampled Date:	Deviation Code(s):	Containers Received:
1925228	TP45			26-Jan-2024	B	Amber Glass 250ml
1925228	TP45			26-Jan-2024	B	Plastic Tub 500g
1925229	TP48			26-Jan-2024	B	Amber Glass 250ml
1925229	TP48			26-Jan-2024	B	Plastic Tub 500g
1925230	TP50			26-Jan-2024	B	Amber Glass 250ml
1925230	TP50			26-Jan-2024	B	Plastic Tub 500g
1925231	TP52			26-Jan-2024	B	Amber Glass 250ml
1925231	TP52			26-Jan-2024	B	Plastic Tub 500g
1925232	TP54			26-Jan-2024	B	Amber Glass 250ml
1925232	TP54			26-Jan-2024	B	Plastic Tub 500g
1925233	TP55			26-Jan-2024	B	Amber Glass 250ml
1925233	TP55			26-Jan-2024	B	Plastic Tub 500g
1925234	TP58			26-Jan-2024	B	Amber Glass 250ml
1925234	TP58			26-Jan-2024	B	Plastic Tub 500g
1925235	TP60			26-Jan-2024	B	Amber Glass 250ml
1925235	TP60			26-Jan-2024	B	Plastic Tub 500g
1925236	TP60			26-Jan-2024	B	Amber Glass 250ml
1925236	TP60			26-Jan-2024	B	Plastic Tub 500g
1925237	TP62			26-Jan-2024	B	Amber Glass 250ml
1925237	TP62			26-Jan-2024	B	Plastic Tub 500g
1925238	TP64			26-Jan-2024	B	Amber Glass 250ml
1925238	TP64			26-Jan-2024	B	Plastic Tub 500g

Deviations

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Sample:	Sample Ref:	Sample ID:	Sample Location:	Sampled Date:	Deviation Code(s):	Containers Received:
1925239	TP65			26-Jan-2024	B	Amber Glass 250ml
1925239	TP65			26-Jan-2024	B	Plastic Tub 500g
1925240	TP66			26-Jan-2024	B	Amber Glass 250ml
1925240	TP66			26-Jan-2024	B	Plastic Tub 500g
1925241	TP68			26-Jan-2024	B	Amber Glass 250ml
1925241	TP68			26-Jan-2024	B	Plastic Tub 500g
1925242	TP70			26-Jan-2024	B	Amber Glass 250ml
1925242	TP70			26-Jan-2024	B	Plastic Tub 500g
1925243	TP72			26-Jan-2024	B	Amber Glass 250ml
1925243	TP72			26-Jan-2024	B	Plastic Tub 500g
1925244	TP74			26-Jan-2024	B	Amber Glass 250ml
1925244	TP74			26-Jan-2024	B	Plastic Tub 500g
1925245	TP75			26-Jan-2024	B	Amber Glass 250ml
1925245	TP75			26-Jan-2024	B	Plastic Tub 500g
1925246	TP76			26-Jan-2024	B	Amber Glass 250ml
1925246	TP76			26-Jan-2024	B	Plastic Tub 500g
1925247	TP78			26-Jan-2024	B	Amber Glass 250ml
1925247	TP78			26-Jan-2024	B	Plastic Tub 500g
1925248	TP80			26-Jan-2024	B	Amber Glass 250ml
1925248	TP80			26-Jan-2024	B	Plastic Tub 500g
1925249	TP82			26-Jan-2024	B	Amber Glass 250ml
1925249	TP82			26-Jan-2024	B	Plastic Tub 500g

Deviations

In accordance with UKAS Policy on Deviating Samples TPS 63. Chemtest have a procedure to ensure 'upon receipt of each sample a competent laboratory shall assess whether the sample is suitable with regard to the requested test(s)'. This policy and the respective holding times applied, can be supplied upon request. The reason a sample is declared as deviating is detailed below. Where applicable the analysis remains UKAS/MCERTs accredited but the results may be compromised.

Sample:	Sample Ref:	Sample ID:	Sample Location:	Sampled Date:	Deviation Code(s):	Containers Received:
1925250	TP86			26-Jan-2024	B	Amber Glass 250ml
1925250	TP86			26-Jan-2024	B	Plastic Tub 500g
1925338			TP8	26-Jan-2024	BC	Plastic Tub 500g

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
1010	pH Value of Waters	pH at 20°C	pH Meter	
1020	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Electrical Conductivity at 25°C and Total Dissolved Solids (TDS) in Waters	Conductivity Meter	
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.	RE PW PL LE DW GW
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).	RE PW PL SW DW GW
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation	PL SW GW
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.	
2010	pH Value of Soils	pH at 20°C	pH Meter	
2015	Acid Neutralisation Capacity	Acid Reserve	Titration	
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <30°C.	
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES	
2175	Total Sulphur in Soils	Total Sulphur	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.	
2180	Sulphur (Elemental) in Soils by HPLC	Sulphur	Dichloromethane extraction / HPLC with UV detection	
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry	
2220	Water soluble Chloride in Soils	Chloride	Aqueous extraction and measurement by 'Aquakem 600' Discrete Analyser using ferric nitrate / mercuric thiocyanate.	
2300	Cyanides & Thiocyanate in Soils	Free (or easily liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.	
2325	Sulphide in Soils	Sulphide	Steam distillation with sulphuric acid / analysis by 'Aquakem 600' Discrete Analyser, using N,N-dimethyl-p-phenylenediamine.	
2430	Total Sulphate in soils	Total Sulphate	Acid digestion followed by determination of sulphate in extract by ICP-OES.	
2455	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.	
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.	
2610	Loss on Ignition	loss on ignition (LOI)	Determination of the proportion by mass that is lost from a soil by ignition at 550°C.	
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.	
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID	

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
2690	EPH A/A Split	Aliphatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40 Aromatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40	Acetone/Heptane extraction / GCxGC FID detection	
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.	
2780	VPH A/A Split	Aliphatics: >C5–C6, >C6–C7,>C7–C8,>C8-C10 Aromatics: >C5–C7,>C7-C8,>C8–C10	Water extraction / Headspace GCxGC FID detection	
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenz[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS	
2815	Polychlorinated Biphenyls (PCB) ICES7Congeners in Soils by GC-MS	ICES7 PCB congeners	Acetone/Hexane extraction / GC-MS. Reported PCB 101 results may contain contributions from PCB 90 due to inseparable chromatography.	
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.	
640	Characterisation of Waste (Leaching C10)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge	

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.

Any comments or interpretations are outside the scope of UKAS accreditation.

The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.

Uncertainty of measurement for the determinands tested are available upon request .

None of the results in this report have been recovery corrected.

All results are expressed on a dry weight basis.

The following tests were analysed on samples 'as received' and the results subsequently corrected to a dry weight basis EPH, VPH, TPH, BTEX, VOCs, SVOCs, PCBs, Phenols.

For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ prior to analysis.

All Asbestos testing is performed at the indicated laboratory .

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1.

NEW_ASB	Eurofins Chemtest Limited, 11 Depot Road, Newmarket, CB8 0AL
DURHAM	Eurofins Chemtest Limited, Unit A North Wing, Prospect Business Park, Crookhall Lane, Consett, Co Durham, DH8 7PW

Sample Deviation Codes

As a result of any of the below deviations applying, the test results may be unreliable

A - Date of sampling not supplied

B - Sample age exceeds stability time (sampling to extraction)

C - Sample not received in appropriate containers

D - Broken Container

E - The required amount of sample for analysis was not received

H - Appropriate cooling measures were not taken for sample transportation

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt.

All water samples will be retained for 14 days from the date of receipt.

Charges may apply to extended sample storage.

Report Information

Water Sample Category Key for Accreditation

DW - Drinking Water
GW - Ground Water
LE - Land Leachate
NA - Not Applicable
PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

Asbestos Tests LOD = LOQ

Limit of Detection = Limit of Quantification for asbestos results only

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com



Final Report

Report No.: 25-05117-1

Initial Date of Issue: 06-Mar-2025

Re-Issue Details:

Client IGSL

Client Address: M7 Business Park
Naas
County Kildare
Ireland

Contact(s): Darren Keogh

Project Mount Avenue

Quotation No.: Q24-34387

Date Received: 14-Feb-2025

Order No.:

Date Instructed: 14-Feb-2025

No. of Samples: 8

Turnaround (Wkdays): 7

Results Due: 24-Feb-2025

Date Approved: 06-Mar-2025

Approved By:

Details: David Smith, Technical Director

For details about application of accreditation to specific matrix types, please refer to the Table at the back of this report

Results - Leachate

Project: Mount Avenue

Client: IGSL	Chemtest Job No.:					25-05117	25-05117	25-05117	25-05117	25-05117
Quotation No.: Q24-34387	Chemtest Sample ID.:					1932538	1932539	1932541	1932543	1932545
Order No.:	Client Sample Ref.:					BH3	BH7	BH1	BH14	BH15A
	Sample Type:					SOIL	SOIL	SOIL	SOIL	SOIL
	Top Depth (m):					0.50	2.00	2.00	0.50	1.00
	Date Sampled:					11-Feb-2025	11-Feb-2025	11-Feb-2025	11-Feb-2025	11-Feb-2025
Determinand	Accred.	SOP	Type	Units	LOD					
Ammonium	U	1220	10:1	mg/l	0.050	< 0.050	< 0.050	0.093	0.076	0.063
Ammonium	N	1220	10:1	mg/kg	0.10	0.61	0.50	0.95	0.77	0.86

Results - Soil

Project: Mount Avenue

Client: IGSL		Chemtest Job No.:		25-05117	25-05117	25-05117	25-05117	25-05117	25-05117	25-05117	25-05117
Quotation No.: Q24-34387		Chemtest Sample ID.:		1932538	1932539	1932540	1932541	1932542	1932543	1932544	
Order No.:		Client Sample Ref.:		BH3	BH7	BH9	BH1	BH12	BH14	BH14	
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	
		Top Depth (m):		0.50	2.00	4.00	2.00	3.00	0.50	3.00	
		Date Sampled:		11-Feb-2025	11-Feb-2025	11-Feb-2025	11-Feb-2025	11-Feb-2025	11-Feb-2025	11-Feb-2025	
		Asbestos Lab:		DURHAM	DURHAM		DURHAM		DURHAM		
Determinand	HWOL Code	Accred.	SOP	Units	LOD						
ACM Type		N	2192		N/A	-	-		-		-
Asbestos Identification		U	2192		N/A	No Asbestos Detected	No Asbestos Detected		No Asbestos Detected		No Asbestos Detected
Moisture		N	2030	%	0.020	9.9	20	22	14	10	20
Soil Colour		N	2040		N/A	Brown	Brown	Brown	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones	Stones	Stones	Stones and Roots	Stones	Stones
Soil Texture		N	2040		N/A	Clay	Clay	Clay	Clay	Clay	Clay
pH (2.5:1) at 20C		N	2010		4.0			7.3		8.3	
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	< 0.40	0.44		< 0.40		0.54
Magnesium (Water Soluble)		N	2120	g/l	0.010			< 0.010		< 0.010	
Sulphate (2:1 Water Soluble) as SO4		M	2120	g/l	0.010			0.040		0.025	
Total Sulphur		U	2175	%	0.010			0.030		0.030	
Sulphur (Elemental)		M	2180	mg/kg	1.0	< 1.0	3.8		< 1.0		< 1.0
Chloride (Water Soluble)		M	2220	g/l	0.010			< 0.010		< 0.010	
Nitrate (Water Soluble)		N	2220	g/l	0.010			< 0.010		< 0.010	
Cyanide (Total)		M	2300	mg/kg	0.50	< 0.50	< 0.50		< 0.50		0.50
Sulphide (Easily Liberatable)		N	2325	mg/kg	0.50	4.8	4.7		6.7		3.3
Ammonium (Water Soluble)		M	2220	g/l	0.01			< 0.01		< 0.01	
Sulphate (Total)		U	2430	%	0.010	0.052	0.050		0.029		0.062
Sulphate (Acid Soluble)		U	2430	%	0.010			0.053		0.017	
Arsenic		M	2455	mg/kg	0.5	9.9	5.2		16		6.7
Barium		M	2455	mg/kg	0.5	75	100		99		76
Cadmium		M	2455	mg/kg	0.10	0.38	0.23		0.47		0.30
Chromium		M	2455	mg/kg	0.5	40	42		94		51
Molybdenum		M	2455	mg/kg	0.5	0.5	< 0.5		0.6		0.8
Antimony		N	2455	mg/kg	2.0	< 2.0	< 2.0		< 2.0		< 2.0
Copper		M	2455	mg/kg	0.50	31	13		42		26
Mercury		M	2455	mg/kg	0.05	< 0.05	0.05		0.06		0.07
Nickel		M	2455	mg/kg	0.50	44	34		96		49
Lead		M	2455	mg/kg	0.50	18	16		29		24
Selenium		M	2455	mg/kg	0.25	0.72	0.71		1.5		0.92
Zinc		M	2455	mg/kg	0.50	64	65		110		86
Chromium (Trivalent)		N	2490	mg/kg	1.0	40	42		94		51
Chromium (Hexavalent)		N	2490	mg/kg	0.50	< 0.50	< 0.50		< 0.50		< 0.50
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05		[C] < 0.05		< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05		[C] < 0.05		< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05		[C] < 0.05		< 0.05
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05		[C] < 0.05		< 0.05

Results - Soil

Project: Mount Avenue

Client: IGS		Chemtest Job No.:		25-05117	25-05117	25-05117	25-05117	25-05117	25-05117	25-05117
Quotation No.: Q24-34387		Chemtest Sample ID.:		1932538	1932539	1932540	1932541	1932542	1932543	1932544
Order No.:		Client Sample Ref.:		BH3	BH7	BH9	BH1	BH12	BH14	BH14
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):		0.50	2.00	4.00	2.00	3.00	0.50	3.00
		Date Sampled:		11-Feb-2025	11-Feb-2025	11-Feb-2025	11-Feb-2025	11-Feb-2025	11-Feb-2025	11-Feb-2025
		Asbestos Lab:		DURHAM	DURHAM		DURHAM		DURHAM	
Determinand	HWOL Code	Accred.	SOP	Units	LOD					
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25		[C] < 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0	< 2.0		[C] < 2.0	< 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	< 1.0	< 1.0		[C] < 1.0	< 1.0
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0	< 2.0		[C] < 2.0	< 2.0
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	< 3.0	< 3.0		[C] < 3.0	9.9
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10		[C] < 10	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	< 5.0	< 5.0		[C] < 5.0	11
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05		[C] < 0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05		[C] < 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05		[C] < 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25		[C] < 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0		[C] < 1.0	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0		[C] < 1.0	< 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	< 2.0	< 2.0		[C] < 2.0	< 2.0
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	< 2.0	< 2.0		[C] < 2.0	< 2.0
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	< 1.0	< 1.0		[C] < 1.0	< 1.0
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	< 5.0	< 5.0		[C] < 5.0	< 5.0
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50		[C] < 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	< 10	< 10		[C] < 10	14
Mineral Oil EPH		N	2670	mg/kg	10	< 10	< 10		< 10	11
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0		[C] < 1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0		[C] < 1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	1.0	< 1.0	< 1.0		[C] < 1.0	< 1.0
m & p-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0		[C] < 1.0	< 1.0
o-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0		[C] < 1.0	< 1.0
Methyl Tert-Butyl Ether		M	2760	µg/kg	1.0	< 1.0	< 1.0		[C] < 1.0	< 1.0
Naphthalene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10
Anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10
Pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10
Benzo[a]anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10
Chrysene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10		< 0.10	< 0.10

Results - Soil

Project: Mount Avenue

Client: IGSL		Chemtest Job No.:		25-05117	25-05117	25-05117	25-05117	25-05117	25-05117	25-05117
Quotation No.: Q24-34387		Chemtest Sample ID.:		1932538	1932539	1932540	1932541	1932542	1932543	1932544
Order No.:		Client Sample Ref.:		BH3	BH7	BH9	BH1	BH12	BH14	BH14
		Sample Type:		SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
		Top Depth (m):		0.50	2.00	4.00	2.00	3.00	0.50	3.00
		Date Sampled:		11-Feb-2025	11-Feb-2025	11-Feb-2025	11-Feb-2025	11-Feb-2025	11-Feb-2025	11-Feb-2025
		Asbestos Lab:		DURHAM	DURHAM		DURHAM		DURHAM	
Determinand	HWOL Code	Accred.	SOP	Units	LOD					
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Coronene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	
PCB 28		U	2815	mg/kg	0.010	< 0.010	< 0.010	[C] < 0.010	< 0.010	
PCB 52		U	2815	mg/kg	0.010	< 0.010	< 0.010	[C] < 0.010	< 0.010	
PCB 101		U	2815	mg/kg	0.010	< 0.010	< 0.010	[C] < 0.010	< 0.010	
PCB 118		U	2815	mg/kg	0.010	< 0.010	< 0.010	[C] < 0.010	< 0.010	
PCB 153		U	2815	mg/kg	0.010	< 0.010	< 0.010	[C] < 0.010	< 0.010	
PCB 138		U	2815	mg/kg	0.010	< 0.010	< 0.010	[C] < 0.010	< 0.010	
PCB 180		U	2815	mg/kg	0.010	< 0.010	< 0.010	[C] < 0.010	< 0.010	
Tot PCBs Low (7 Congeners)		N	2815	mg/kg	0.05	< 0.05	< 0.05	[C] < 0.05	< 0.05	
Total Phenols		M	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10	< 0.10	

Results - Soil

Project: Mount Avenue

Client: IGSL		Chemtest Job No.:		25-05117	
Quotation No.: Q24-34387		Chemtest Sample ID.:		1932545	
Order No.:		Client Sample Ref.:		BH15A	
		Sample Type:		SOIL	
		Top Depth (m):		1.00	
		Date Sampled:		11-Feb-2025	
		Asbestos Lab:		DURHAM	
Determinand	HWOL Code	Accred.	SOP	Units	LOD
ACM Type		N	2192		N/A
Asbestos Identification		U	2192		N/A
Moisture		N	2030	%	0.020
Soil Colour		N	2040		N/A
Other Material		N	2040		N/A
Soil Texture		N	2040		N/A
pH (2.5:1) at 20C		N	2010		4.0
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40
Magnesium (Water Soluble)		N	2120	g/l	0.010
Sulphate (2:1 Water Soluble) as SO4		M	2120	g/l	0.010
Total Sulphur		U	2175	%	0.010
Sulphur (Elemental)		M	2180	mg/kg	1.0
Chloride (Water Soluble)		M	2220	g/l	0.010
Nitrate (Water Soluble)		N	2220	g/l	0.010
Cyanide (Total)		M	2300	mg/kg	0.50
Sulphide (Easily Liberatable)		N	2325	mg/kg	0.50
Ammonium (Water Soluble)		M	2220	g/l	0.01
Sulphate (Total)		U	2430	%	0.010
Sulphate (Acid Soluble)		U	2430	%	0.010
Arsenic		M	2455	mg/kg	0.5
Barium		M	2455	mg/kg	0.5
Cadmium		M	2455	mg/kg	0.10
Chromium		M	2455	mg/kg	0.5
Molybdenum		M	2455	mg/kg	0.5
Antimony		N	2455	mg/kg	2.0
Copper		M	2455	mg/kg	0.50
Mercury		M	2455	mg/kg	0.05
Nickel		M	2455	mg/kg	0.50
Lead		M	2455	mg/kg	0.50
Selenium		M	2455	mg/kg	0.25
Zinc		M	2455	mg/kg	0.50
Chromium (Trivalent)		N	2490	mg/kg	1.0
Chromium (Hexavalent)		N	2490	mg/kg	0.50
Aliphatic VPH >C5-C6	HS_2D_AL	U	2780	mg/kg	0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05

Results - Soil

Project: Mount Avenue

Client: IGSL		Chemtest Job No.:		25-05117		
Quotation No.: Q24-34387		Chemtest Sample ID.:		1932545		
Order No.:		Client Sample Ref.:		BH15A		
		Sample Type:		SOIL		
		Top Depth (m):		1.00		
		Date Sampled:		11-Feb-2025		
		Asbestos Lab:		DURHAM		
Determinand	HWOL Code	Accred.	SOP	Units	LOD	
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	< 1.0
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	9.8
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	11
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	< 2.0
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	< 2.0
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	< 1.0
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	< 5.0
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	12
Mineral Oil EPH		N	2670	mg/kg	10	11
Benzene		M	2760	µg/kg	1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	1.0	< 1.0
m & p-Xylene		M	2760	µg/kg	1.0	< 1.0
o-Xylene		M	2760	µg/kg	1.0	< 1.0
Methyl Tert-Butyl Ether		M	2760	µg/kg	1.0	< 1.0
Naphthalene		M	2800	mg/kg	0.10	< 0.10
Acenaphthylene		N	2800	mg/kg	0.10	< 0.10
Acenaphthene		M	2800	mg/kg	0.10	< 0.10
Fluorene		M	2800	mg/kg	0.10	< 0.10
Phenanthrene		M	2800	mg/kg	0.10	< 0.10
Anthracene		M	2800	mg/kg	0.10	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	< 0.10
Pyrene		M	2800	mg/kg	0.10	< 0.10
Benzo[a]anthracene		M	2800	mg/kg	0.10	< 0.10
Chrysene		M	2800	mg/kg	0.10	< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10
Benzo[a]pyrene		M	2800	mg/kg	0.10	< 0.10

Results - Soil

Project: Mount Avenue

Client: IGSL		Chemtest Job No.:		25-05117		
Quotation No.: Q24-34387		Chemtest Sample ID.:		1932545		
Order No.:		Client Sample Ref.:		BH15A		
		Sample Type:		SOIL		
		Top Depth (m):		1.00		
		Date Sampled:		11-Feb-2025		
		Asbestos Lab:		DURHAM		
Determinand	HWOL Code	Accred.	SOP	Units	LOD	
Indeno(1,2,3-c,d)Pyrene		M	2800	mg/kg	0.10	< 0.10
Dibenz(a,h)Anthracene		N	2800	mg/kg	0.10	< 0.10
Benzo[g,h,i]perylene		M	2800	mg/kg	0.10	< 0.10
Coronene		N	2800	mg/kg	0.10	< 0.10
PCB 28		U	2815	mg/kg	0.010	< 0.010
PCB 52		U	2815	mg/kg	0.010	< 0.010
PCB 101		U	2815	mg/kg	0.010	< 0.010
PCB 118		U	2815	mg/kg	0.010	< 0.010
PCB 153		U	2815	mg/kg	0.010	< 0.010
PCB 138		U	2815	mg/kg	0.010	< 0.010
PCB 180		U	2815	mg/kg	0.010	< 0.010
Tot PCBs Low (7 Congeners)		N	2815	mg/kg	0.05	< 0.05
Total Phenols		M	2920	mg/kg	0.10	< 0.10

Results - Single Stage WAC

Project: Mount Avenue

Project: Mount Avenue						Landfill Waste Acceptance Criteria Limits		
Chemtest Job No: 25-05117						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Chemtest Sample ID: 1932538								
Sample Ref: BH3								
Sample ID:								
Sample Location:								
Top Depth(m): 0.50								
Bottom Depth(m):								
Sampling Date: 11-Feb-2025								
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	0.52	3	5	6
Loss On Ignition	2610		M	%	1.6	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	< 10	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	< 1.0	100	--	--
pH at 20C	2010		M		8.0	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.034	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0004	0.0044	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0032	0.033	0.5	10	70
Copper	1455		U	0.0015	0.015	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0013	0.013	0.5	10	30
Nickel	1455		U	0.0022	0.022	0.4	10	40
Lead	1455		U	< 0.0005	< 0.0050	0.5	10	50
Antimony	1455		U	0.0007	0.0073	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.005	0.052	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.22	2.2	10	150	500
Sulphate	1220		U	2.5	25	1000	20000	50000
Total Dissolved Solids	1020		N	47	470	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	3.7	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	3.7
WAC Sample Weight	

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: Mount Avenue

Project: Mount Avenue						Landfill Waste Acceptance Criteria Limits		
Chemtest Job No: 25-05117						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Chemtest Sample ID: 1932539								
Sample Ref: BH7								
Sample ID:								
Sample Location:								
Top Depth(m): 2.00								
Bottom Depth(m):								
Sampling Date: 11-Feb-2025								
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	0.43	3	5	6
Loss On Ignition	2610		M	%	3.2	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	< 10	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	< 1.0	100	--	--
pH at 20C	2010		M		7.6	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	< 0.0020	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0011	0.011	0.5	2	25
Barium	1455		U	0.007	0.072	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0064	0.064	0.5	10	70
Copper	1455		U	0.0018	0.018	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0004	0.0044	0.5	10	30
Nickel	1455		U	0.0035	0.035	0.4	10	40
Lead	1455		U	0.0011	0.011	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.014	0.15	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.16	1.6	10	150	500
Sulphate	1220		U	3.1	31	1000	20000	50000
Total Dissolved Solids	1020		N	16	160	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	3.6	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	8.8
WAC Sample Weight	

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: Mount Avenue

Project: Mount Avenue						Landfill Waste Acceptance Criteria Limits		
Chemtest Job No: 25-05117						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Chemtest Sample ID: 1932541								
Sample Ref: BH1								
Sample ID:								
Sample Location:								
Top Depth(m): 2.00								
Bottom Depth(m):								
Sampling Date: 11-Feb-2025								
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	0.51	3	5	6
Loss On Ignition	2610		M	%	2.4	--	--	10
Total BTEX	2760		M	mg/kg	[C] < 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	[C] < 10	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	< 1.0	100	--	--
pH at 20C	2010		M		8.1	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.015	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0011	0.011	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0035	0.035	0.5	10	70
Copper	1455		U	0.0031	0.031	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0015	0.015	0.5	10	30
Nickel	1455		U	0.0024	0.024	0.4	10	40
Lead	1455		U	0.0007	0.0074	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.006	0.057	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.48	4.8	10	150	500
Sulphate	1220		U	1.4	14	1000	20000	50000
Total Dissolved Solids	1020		N	52	520	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	19	190	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	4.4
WAC Sample Weight	

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: Mount Avenue

Project: Incident Avenue						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-05117						Limits		
Chemtest Sample ID: 1932543						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Sample Ref: BH14								
Sample ID:								
Sample Location:								
Top Depth(m): 0.50								
Bottom Depth(m):								
Sampling Date: 11-Feb-2025								
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	1.1	3	5	6
Loss On Ignition	2610		M	%	3.8	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	< 10	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	< 1.0	100	--	--
pH at 20C	2010		M		7.4	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	< 0.0020	--	To evaluate	To evaluate
Eluate Analysis							Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg	
				10:1 Eluate mg/l	10:1 Eluate mg/kg			
Arsenic	1455		U	0.0015	0.015	0.5	2	25
Barium	1455		U	0.007	0.068	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0062	0.062	0.5	10	70
Copper	1455		U	0.0044	0.044	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0009	0.0095	0.5	10	30
Nickel	1455		U	0.0047	0.047	0.4	10	40
Lead	1455		U	0.0017	0.017	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.012	0.12	4	50	200
Chloride	1220		U	1.2	12	800	15000	25000
Fluoride	1220		U	0.20	2.0	10	150	500
Sulphate	1220		U	1.5	15	1000	20000	50000
Total Dissolved Solids	1020		N	22	220	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	13	130	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	2.9
WAC Sample Weight	

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Results - Single Stage WAC

Project: Mount Avenue

Project: Mount Avenue						Landfill Waste Acceptance Criteria Limits		
Chemtest Job No: 25-05117						Inert Waste Landfill	Stable, Non-reactive hazardous waste in non-hazardous Landfill	Hazardous Waste Landfill
Chemtest Sample ID: 1932545								
Sample Ref: BH15A								
Sample ID:								
Sample Location:								
Top Depth(m): 1.00								
Bottom Depth(m):								
Sampling Date: 11-Feb-2025								
Determinand	SOP	HWOL Code	Accred.	Units				
Total Organic Carbon	2625		M	%	1.2	3	5	6
Loss On Ignition	2610		M	%	2.3	--	--	10
Total BTEX	2760		M	mg/kg	< 0.010	6	--	--
Total PCBs (7 Congeners)	2815		M	mg/kg	< 0.10	1	--	--
TPH Total WAC	2670	EH_CU_1D_Total	M	mg/kg	< 10	500	--	--
Total Of 17 PAHs Lower	2800		N	mg/kg	< 1.0	100	--	--
pH at 20C	2010		M		8.2	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.020	--	To evaluate	To evaluate
Eluate Analysis				10:1 Eluate mg/l	10:1 Eluate mg/kg	Limit values for compliance leaching test using BS EN 12457 at L/S 10 l/kg		
Arsenic	1455		U	0.0003	0.0028	0.5	2	25
Barium	1455		U	< 0.005	< 0.050	20	100	300
Cadmium	1455		U	< 0.00011	< 0.0011	0.04	1	5
Chromium	1455		U	0.0069	0.069	0.5	10	70
Copper	1455		U	0.0016	0.016	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0011	0.012	0.5	10	30
Nickel	1455		U	0.0062	0.062	0.4	10	40
Lead	1455		U	< 0.0005	< 0.0050	0.5	10	50
Antimony	1455		U	< 0.0005	< 0.0050	0.06	0.7	5
Selenium	1455		U	< 0.0005	< 0.0050	0.1	0.5	7
Zinc	1455		U	0.005	0.049	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.18	1.8	10	150	500
Sulphate	1220		U	1.5	15	1000	20000	50000
Total Dissolved Solids	1020		N	41	410	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	2.9	< 50	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	4.3
WAC Sample Weight	

Waste Acceptance Criteria

Landfill WAC analysis (specifically leaching test results) must not be used for hazardous waste classification purposes. This analysis is only applicable for hazardous waste landfill acceptance and does not give any indication as to whether a waste may be hazardous or non-hazardous.

Deviations

In accordance with UKAS Policy on Deviating Samples TPS 63. Chemtest have a procedure to ensure 'upon receipt of each sample a competent laboratory shall assess whether the sample is suitable with regard to the requested test(s)'. This policy and the respective holding times applied, can be supplied upon request. The reason a sample is declared as deviating is detailed below. Where applicable the analysis remains UKAS/MCERTs accredited but the results may be compromised.

Sample:	Sample Ref:	Sample ID:	Sample Location:	Sampled Date:	Deviation Code(s):	Containers Received:
1932541	BH1			11-Feb-2025	C	Plastic Tub 500g

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
1010	pH Value of Waters	pH at 20°C	pH Meter	
1020	Electrical Conductivity and Total Dissolved Solids (TDS) in Waters	Electrical Conductivity at 25°C and Total Dissolved Solids (TDS) in Waters	Conductivity Meter	
1220	Anions, Alkalinity & Ammonium in Waters	Fluoride; Chloride; Nitrite; Nitrate; Total; Oxidisable Nitrogen (TON); Sulfate; Phosphate; Alkalinity; Ammonium	Automated colorimetric analysis using 'Aquakem 600' Discrete Analyser.	RE PW PL LE DW GW
1455	Metals in Waters by ICP-MS	Metals, including: Antimony; Arsenic; Barium; Beryllium; Boron; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Tin; Vanadium; Zinc	Filtration of samples followed by direct determination by inductively coupled plasma mass spectrometry (ICP-MS).	RE PW PL SW DW GW
1610	Total/Dissolved Organic Carbon in Waters	Organic Carbon	TOC Analyser using Catalytic Oxidation	PL SW GW
1920	Phenols in Waters by HPLC	Phenolic compounds including: Phenol, Cresols, Xylenols, Trimethylphenols Note: Chlorophenols are excluded.	Determination by High Performance Liquid Chromatography (HPLC) using electrochemical detection.	
2010	pH Value of Soils	pH at 20°C	pH Meter	
2015	Acid Neutralisation Capacity	Acid Reserve	Titration	
2030	Moisture and Stone Content of Soils(Requirement of MCERTS)	Moisture content	Determination of moisture content of soil as a percentage of its as received mass obtained at <30°C.	
2040	Soil Description(Requirement of MCERTS)	Soil description	As received soil is described based upon BS5930	
2120	Water Soluble Boron, Sulphate, Magnesium & Chromium	Boron; Sulphate; Magnesium; Chromium	Aqueous extraction / ICP-OES	
2175	Total Sulphur in Soils	Total Sulphur	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.	
2180	Sulphur (Elemental) in Soils by HPLC	Sulphur	Dichloromethane extraction / HPLC with UV detection	
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry	
2220	Water soluble Chloride in Soils	Chloride	Aqueous extraction and measurement by 'Aquakem 600' Discrete Analyser using ferric nitrate / mercuric thiocyanate.	
2300	Cyanides & Thiocyanate in Soils	Free (or easily liberatable) Cyanide; total Cyanide; complex Cyanide; Thiocyanate	Alkaline extraction followed by colorimetric determination using Automated Flow Injection Analyser.	
2325	Sulphide in Soils	Sulphide	Steam distillation with sulphuric acid / analysis by 'Aquakem 600' Discrete Analyser, using N,N-dimethyl-p-phenylenediamine.	
2430	Total Sulphate in soils	Total Sulphate	Acid digestion followed by determination of sulphate in extract by ICP-OES.	
2455	Acid Soluble Metals in Soils	Metals, including: Arsenic; Barium; Beryllium; Cadmium; Chromium; Cobalt; Copper; Lead; Manganese; Mercury; Molybdenum; Nickel; Selenium; Vanadium; Zinc	Acid digestion followed by determination of metals in extract by ICP-MS.	
2490	Hexavalent Chromium in Soils	Chromium [VI]	Soil extracts are prepared by extracting dried and ground soil samples into boiling water. Chromium [VI] is determined by 'Aquakem 600' Discrete Analyser using 1,5-diphenylcarbazide.	
2610	Loss on Ignition	loss on ignition (LOI)	Determination of the proportion by mass that is lost from a soil by ignition at 550°C.	
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.	
2670	Total Petroleum Hydrocarbons (TPH) in Soils by GC-FID	TPH (C6–C40); optional carbon banding, e.g. 3-band – GRO, DRO & LRO*TPH C8–C40	Dichloromethane extraction / GC-FID	

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
2690	EPH A/A Split	Aliphatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40 Aromatics: >C10–C12, >C12–C16, >C16–C21, >C21– C35, >C35– C40	Acetone/Heptane extraction / GCxGC FID detection	
2760	Volatile Organic Compounds (VOCs) in Soils by Headspace GC-MS	Volatile organic compounds, including BTEX and halogenated Aliphatic/Aromatics.(cf. USEPA Method 8260)*please refer to UKAS schedule	Automated headspace gas chromatographic (GC) analysis of a soil sample, as received, with mass spectrometric (MS) detection of volatile organic compounds.	
2780	VPH A/A Split	Aliphatics: >C5–C6, >C6–C7,>C7–C8,>C8–C10 Aromatics: >C5–C7,>C7–C8,>C8–C10	Water extraction / Headspace GCxGC FID detection	
2800	Speciated Polynuclear Aromatic Hydrocarbons (PAH) in Soil by GC-MS	Acenaphthene*; Acenaphthylene; Anthracene*; Benzo[a]Anthracene*; Benzo[a]Pyrene*; Benzo[b]Fluoranthene*; Benzo[ghi]Perylene*; Benzo[k]Fluoranthene; Chrysene*; Dibenz[ah]Anthracene; Fluoranthene*; Fluorene*; Indeno[123cd]Pyrene*; Naphthalene*; Phenanthrene*; Pyrene*	Dichloromethane extraction / GC-MS	
2815	Polychlorinated Biphenyls (PCB) ICES7Congeners in Soils by GC-MS	ICES7 PCB congeners	Acetone/Hexane extraction / GC-MS. Reported PCB 101 results may contain contributions from PCB 90 due to inseparable chromatography.	
2920	Phenols in Soils by HPLC	Phenolic compounds including Resorcinol, Phenol, Methylphenols, Dimethylphenols, 1-Naphthol and TrimethylphenolsNote: chlorophenols are excluded.	60:40 methanol/water mixture extraction, followed by HPLC determination using electrochemical detection.	
640	Characterisation of Waste (Leaching C10)	Waste material including soil, sludges and granular waste	ComplianceTest for Leaching of Granular Waste Material and Sludge	

Report Information

Key

U	UKAS accredited
M	MCERTS and UKAS accredited
N	Unaccredited
S	This analysis has been subcontracted to a UKAS accredited laboratory that is accredited for this analysis
SN	This analysis has been subcontracted to a UKAS accredited laboratory that is not accredited for this analysis
T	This analysis has been subcontracted to an unaccredited laboratory
I/S	Insufficient Sample
U/S	Unsuitable Sample
N/E	not evaluated
<	"less than"
>	"greater than"
SOP	Standard operating procedure
LOD	Limit of detection

This report shall not be reproduced except in full, and only with the prior approval of the laboratory.

Any comments or interpretations are outside the scope of UKAS accreditation.

The Laboratory is not accredited for any sampling activities and reported results relate to the samples 'as received' at the laboratory.

Uncertainty of measurement for the determinands tested are available upon request .

None of the results in this report have been recovery corrected.

All results are expressed on a dry weight basis.

The following tests were analysed on samples 'as received' and the results subsequently corrected to a dry weight basis EPH, VPH, TPH, BTEX, VOCs, SVOCs, PCBs, Phenols.

For all other tests the samples were dried at $\leq 30^{\circ}\text{C}$ prior to analysis.

All Asbestos testing is performed at the indicated laboratory .

Issue numbers are sequential starting with 1 all subsequent reports are incremented by 1.

NEW_ASB	Eurofins Chemtest Limited, 11 Depot Road, Newmarket, CB8 0AL
DURHAM	Eurofins Chemtest Limited, Unit A North Wing, Prospect Business Park, Crookhall Lane, Consett, Co Durham, DH8 7PW

Sample Deviation Codes

As a result of any of the below deviations applying, the test results may be unreliable

A - Date of sampling not supplied

B - Sample age exceeds stability time (sampling to extraction)

C - Sample not received in appropriate containers

D - Broken Container

E - The required amount of sample for analysis was not received

H - Appropriate cooling measures were not taken for sample transportation

Sample Retention and Disposal

All soil samples will be retained for a period of 30 days from the date of receipt.

All water samples will be retained for 14 days from the date of receipt.

Charges may apply to extended sample storage.

Report Information

Water Sample Category Key for Accreditation

DW - Drinking Water
GW - Ground Water
LE - Land Leachate
NA - Not Applicable
PL - Prepared Leachate
PW - Processed Water
RE - Recreational Water
SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

Clean Up Codes

NC - No Clean Up
MC - Mathematical Clean Up
FC - Florisil Clean Up

HWOL Acronym System

HS - Headspace analysis
EH - Extractable hydrocarbons – i.e. everything extracted by the solvent
CU - Clean-up – e.g. by Florisil, silica gel
1D - GC – Single coil gas chromatography
Total - Aliphatics & Aromatics
AL - Aliphatics only
AR - Aromatic only
2D - GC-GC – Double coil gas chromatography
#1 - EH_2D_Total but with humics mathematically subtracted
#2 - EH_2D_Total but with fatty acids mathematically subtracted
+ - Operator to indicate cumulative e.g. EH+EH_Total or EH_CU+HS_Total

Asbestos Tests LOD = LOQ

Limit of Detection = Limit of Quantification for asbestos results only

If you require extended retention of samples, please email your requirements to:
customerservices@chemtest.com

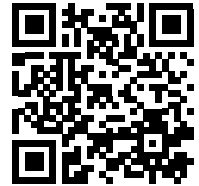
Appendix 3

Waste Classification 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)



3V2LK-N03BW-8CHC8

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

25-001-11 Dundalk

Description/Comments

38 No. Composite Samples from 33 No. Trial Pits and 5 No. Cable Percussion Boreholes.

Project

25-001-11

Site

Mount Avenue

Classified by

Name: **Austin Hynes**
Date: **12 Mar 2025 14:41 GMT**
Telephone: **+353 (0)21 4345366**
Company: **O'Callaghan Moran & Associates**
Unit 15 Melbourne Business Park,
Model Farm Road
Cork

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

HazWasteOnline™ Certification:

CERTIFIED

Course
Hazardous Waste Classification

Date
06 Oct 2022

Next 3 year Refresher due by Oct 2025

Purpose of classification

7 - Disposal of Waste

Address of the waste

Mount Avenue, Dundalk, Co. Louth

Post Code **NA**

Description of industry/producer giving rise to the waste

Site Investigation

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

Excavation

Description of the waste

Soil and Stone

Job summary

#	Sample name	Depth [m]	Classification Result	Hazard properties	Page
1	TP2	0.50	Non Hazardous		3
2	TP4	1.40	Non Hazardous		6
3	TP12	1.40	Non Hazardous		9
4	TP14	0.50	Non Hazardous		12
5	TP16	0.50	Non Hazardous		15
6	TP18	1.20	Non Hazardous		18
7	TP22	1.60	Non Hazardous		21
8	TP24	1.80	Non Hazardous		24
9	TP26	0.50	Non Hazardous		27
10	TP28	2.10	Non Hazardous		30
11	TP30	1.20	Non Hazardous		33
12	TP34	0.50	Non Hazardous		36
13	TP38	0.50	Non Hazardous		39
14	TP40	1.50	Non Hazardous		42
15	TP42	1.00	Non Hazardous		45
16	TP44	0.50	Non Hazardous		48
17	TP48	1.90	Non Hazardous		51
18	TP50	0.50	Non Hazardous		54
19	TP52	1.70	Non Hazardous		57
20	TP54	1.00	Non Hazardous		60
21	TP58	1.50	Non Hazardous		63
22	TP60	2.00	Non Hazardous		66
23	TP62	0.50	Non Hazardous		69
24	TP64	1.00	Non Hazardous		72
25	TP66	0.50	Non Hazardous		75
26	TP68	1.80	Non Hazardous		78
27	TP70	1.50	Non Hazardous		81
28	TP72	0.50	Non Hazardous		84
29	TP74	1.20	Non Hazardous		87
30	TP76	0.50	Non Hazardous		90
31	TP78	1.50	Non Hazardous		93
32	TP82	1.70	Non Hazardous		96
33	TP86	1.40	Non Hazardous		99
34	BH3	0.50	Non Hazardous		102
35	BH7	2.00	Non Hazardous		105
36	BH1	2.00	Non Hazardous		108
37	BH14	0.50	Non Hazardous		111
38	BH15A	1.00	Non Hazardous		114

Related documents

#	Name	Description
1	OCM Hazwaste 2024	waste stream template used to create this Job

Report

Created by: Austin Hynes

Created date: 12 Mar 2025 14:41 GMT

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Appendix A: Classifier defined and non EU CLP determinands	117
Appendix B: Rationale for selection of metal species	118
Appendix C: Version	119

Classification of sample: TP2

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

Sample details

Sample name:	LoW Code:
TP2	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.50 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
13%	
(no correction)	

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	antimony { antimony trioxide }				<2 mg/kg	1.197	<2.394 mg/kg	<0.000239 %		<LOD
	051-005-00-X	215-175-0	1309-64-4							
2	arsenic { arsenic trioxide }				11 mg/kg	1.32	14.524 mg/kg	0.00145 %		
	033-003-00-0	215-481-4	1327-53-3							
3	boron { diboron trioxide }			11	<0.4 mg/kg	3.22	<1.288 mg/kg	<0.000129 %		<LOD
	005-008-00-8	215-125-8	1303-86-2							
4	cadmium { cadmium oxide }				0.12 mg/kg	1.142	0.137 mg/kg	0.0000137 %		
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				51 mg/kg	1.462	74.539 mg/kg	0.00745 %		
		215-160-9	1308-38-9							
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %		<LOD
	024-017-00-8									
7	copper { dicopper oxide; copper (I) oxide }				24 mg/kg	1.126	27.021 mg/kg	0.0027 %		
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead chromate }			1	19 mg/kg	1.56	29.636 mg/kg	0.0019 %		
	082-004-00-2	231-846-0	7758-97-6							
9	mercury { mercury dichloride }				0.06 mg/kg	1.353	0.0812 mg/kg	0.00000812 %		
	080-010-00-X	231-299-8	7487-94-7							
10	molybdenum { molybdenum(VI) oxide }				<0.5 mg/kg	1.5	<0.75 mg/kg	<0.000075 %		<LOD
	042-001-00-9	215-204-7	1313-27-5							
11	nickel { nickel chromate }				53 mg/kg	2.976	157.742 mg/kg	0.0158 %		
	028-035-00-7	238-766-5	14721-18-7							
12	selenium { nickel selenate }				0.37 mg/kg	2.554	0.945 mg/kg	0.0000945 %		
	028-031-00-5	239-125-2	15060-62-5							
13	zinc { zinc chromate }				73 mg/kg	2.774	202.513 mg/kg	0.0203 %		
	024-007-00-3	236-878-9	13530-65-9							
14	TPH (C6 to C40) petroleum group				110 mg/kg		110 mg/kg	0.011 %		
			TPH							
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							



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#	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	benzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-020-00-8	200-753-7	71-43-2								
17	toluene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
18	ethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
19	xylene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<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]								
20	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 }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %			<LOD
	006-007-00-5										
21	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
22	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
		205-917-1	208-96-8								
23	acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
		201-469-6	83-32-9								
24	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
		201-695-5	86-73-7								
25	phenanthrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
		201-581-5	85-01-8								
26	anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
		204-371-1	120-12-7								
27	fluoranthene				0.16 mg/kg		0.16 mg/kg	0.000016 %			
		205-912-4	206-44-0								
28	pyrene				0.1 mg/kg		0.1 mg/kg	0.00001 %			
		204-927-3	129-00-0								
29	benzo[a]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
	601-033-00-9	200-280-6	56-55-3								
30	chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
	601-048-00-0	205-923-4	218-01-9								
31	benzo[b]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
	601-034-00-4	205-911-9	205-99-2								
32	benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
	601-036-00-5	205-916-6	207-08-9								
33	benzo[a]pyrene; benzo[def]chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
	601-032-00-3	200-028-5	50-32-8								
34	indeno[123-cd]pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
		205-893-2	193-39-5								
35	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
36	benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
		205-883-8	191-24-2								
37	phenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
38	polychlorobiphenyls; PCB				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	602-039-00-4	215-648-1	1336-36-3								
Total:									0.0615 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous Property to non-hazardous for cumulative determinand results below the threshold of: 1000 mg/kg (0.1%)
because: Can be discounted as this is a solid waste without a free draining liquid phase.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.011%)

Classification of sample: TP4

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

Sample details

Sample name:	LoW Code:
TP4	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1.40 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
9.5%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 9.5% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	antimony { antimony trioxide }				<2 mg/kg	1.197	<2.394 mg/kg	<0.000239 %			<LOD
	051-005-00-X	215-175-0	1309-64-4								
2	arsenic { arsenic trioxide }				7 mg/kg	1.32	9.242 mg/kg	0.000924 %			
	033-003-00-0	215-481-4	1327-53-3								
3	boron { diboron trioxide }			11	<0.4 mg/kg	3.22	<1.288 mg/kg	<0.000129 %			<LOD
	005-008-00-8	215-125-8	1303-86-2								
4	cadmium { cadmium oxide }				0.27 mg/kg	1.142	0.308 mg/kg	0.0000308 %			
	048-002-00-0	215-146-2	1306-19-0								
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				54 mg/kg	1.462	78.924 mg/kg	0.00789 %			
		215-160-9	1308-38-9								
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %			<LOD
	024-017-00-8										
7	copper { dicopper oxide; copper (I) oxide }				31 mg/kg	1.126	34.903 mg/kg	0.00349 %			
	029-002-00-X	215-270-7	1317-39-1								
8	lead { lead chromate }			1	36 mg/kg	1.56	56.153 mg/kg	0.0036 %			
	082-004-00-2	231-846-0	7758-97-6								
9	mercury { mercury dichloride }				<0.05 mg/kg	1.353	<0.0677 mg/kg	<0.00000677 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
10	molybdenum { molybdenum(VI) oxide }				<0.5 mg/kg	1.5	<0.75 mg/kg	<0.000075 %			<LOD
	042-001-00-9	215-204-7	1313-27-5								
11	nickel { nickel chromate }				60 mg/kg	2.976	178.576 mg/kg	0.0179 %			
	028-035-00-7	238-766-5	14721-18-7								
12	selenium { nickel selenate }				0.54 mg/kg	2.554	1.379 mg/kg	0.000138 %			
	028-031-00-5	239-125-2	15060-62-5								
13	zinc { zinc chromate }				140 mg/kg	2.774	388.381 mg/kg	0.0388 %			
	024-007-00-3	236-878-9	13530-65-9								
14	TPH (C6 to C40) petroleum group				86 mg/kg		86 mg/kg	0.0086 %			
			TPH								
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	603-181-00-X	216-653-1	1634-04-4								



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#	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	benzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
17	toluene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
18	ethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
19	xylene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<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]							
20	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 }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %		<LOD
	006-007-00-5									
21	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
22	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8							
23	acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9							
24	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7							
25	phenanthrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-581-5	85-01-8							
26	anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-371-1	120-12-7							
27	fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-912-4	206-44-0							
28	pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-927-3	129-00-0							
29	benzo[a]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
30	chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
31	benzo[b]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
32	benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
33	benzo[a]pyrene; benzo[def]chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
34	indeno[123-cd]pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-893-2	193-39-5							
35	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
36	benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-883-8	191-24-2							
37	phenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
38	polychlorobiphenyls; PCB				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	602-039-00-4	215-648-1	1336-36-3							
Total:								0.0822 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous Property to non-hazardous for cumulative determinand results below the threshold of: 1000 mg/kg (0.1%)
because: Can be discounted as this is a solid waste without a free draining liquid phase.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.0086%)

Classification of sample: TP12

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

Sample details

Sample name:	LoW Code:
TP12	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1.40 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
8.9%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 8.9% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	antimony { antimony trioxide }				<2 mg/kg	1.197	<2.394 mg/kg	<0.000239 %		<LOD
	051-005-00-X	215-175-0	1309-64-4							
2	arsenic { arsenic trioxide }				12 mg/kg	1.32	15.844 mg/kg	0.00158 %		
	033-003-00-0	215-481-4	1327-53-3							
3	boron { diboron trioxide }			11	<0.4 mg/kg	3.22	<1.288 mg/kg	<0.000129 %		<LOD
	005-008-00-8	215-125-8	1303-86-2							
4	cadmium { cadmium oxide }				0.12 mg/kg	1.142	0.137 mg/kg	0.0000137 %		
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				62 mg/kg	1.462	90.616 mg/kg	0.00906 %		
		215-160-9	1308-38-9							
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %		<LOD
	024-017-00-8									
7	copper { dicopper oxide; copper (I) oxide }				27 mg/kg	1.126	30.399 mg/kg	0.00304 %		
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead chromate }			1	23 mg/kg	1.56	35.876 mg/kg	0.0023 %		
	082-004-00-2	231-846-0	7758-97-6							
9	mercury { mercury dichloride }				<0.05 mg/kg	1.353	<0.0677 mg/kg	<0.00000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
10	molybdenum { molybdenum(VI) oxide }				<0.5 mg/kg	1.5	<0.75 mg/kg	<0.000075 %		<LOD
	042-001-00-9	215-204-7	1313-27-5							
11	nickel { nickel chromate }				74 mg/kg	2.976	220.244 mg/kg	0.022 %		
	028-035-00-7	238-766-5	14721-18-7							
12	selenium { nickel selenate }				0.41 mg/kg	2.554	1.047 mg/kg	0.000105 %		
	028-031-00-5	239-125-2	15060-62-5							
13	zinc { zinc chromate }				95 mg/kg	2.774	263.544 mg/kg	0.0264 %		
	024-007-00-3	236-878-9	13530-65-9							
14	TPH (C6 to C40) petroleum group				88 mg/kg		88 mg/kg	0.0088 %		
			TPH							
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							



environmental management for business

#	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	benzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-020-00-8	200-753-7	71-43-2								
17	toluene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-021-00-3	203-625-9	108-88-3								
18	ethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	601-023-00-4	202-849-4	100-41-4								
19	xylene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<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]								
20	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 }				0.7 mg/kg	1.884	1.319 mg/kg	0.000132 %			
	006-007-00-5										
21	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
	601-052-00-2	202-049-5	91-20-3								
22	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
		205-917-1	208-96-8								
23	acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
		201-469-6	83-32-9								
24	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
		201-695-5	86-73-7								
25	phenanthrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
		201-581-5	85-01-8								
26	anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
		204-371-1	120-12-7								
27	fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
		205-912-4	206-44-0								
28	pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
		204-927-3	129-00-0								
29	benzo[a]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
	601-033-00-9	200-280-6	56-55-3								
30	chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
	601-048-00-0	205-923-4	218-01-9								
31	benzo[b]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
	601-034-00-4	205-911-9	205-99-2								
32	benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
	601-036-00-5	205-916-6	207-08-9								
33	benzo[a]pyrene; benzo[def]chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
	601-032-00-3	200-028-5	50-32-8								
34	indeno[123-cd]pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
		205-893-2	193-39-5								
35	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
	601-041-00-2	200-181-8	53-70-3								
36	benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
		205-883-8	191-24-2								
37	phenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %			<LOD
	604-001-00-2	203-632-7	108-95-2								
38	polychlorobiphenyls; PCB				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %			<LOD
	602-039-00-4	215-648-1	1336-36-3								
Total:									0.0742 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous Property to non-hazardous for cumulative determinand results below the threshold of: 1000 mg/kg (0.1%)
because: Can be discounted as this is a solid waste without a free draining liquid phase.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.0088%)

Classification of sample: TP14

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

Sample details

Sample name:	LoW Code:
TP14	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.50 m	
Moisture content:	
9.7%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 9.7% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	antimony { antimony trioxide }				<2 mg/kg	1.197	<2.394 mg/kg	<0.000239 %			<LOD
	051-005-00-X	215-175-0	1309-64-4								
2	arsenic { arsenic trioxide }				10 mg/kg	1.32	13.203 mg/kg	0.00132 %			
	033-003-00-0	215-481-4	1327-53-3								
3	boron { diboron trioxide }			11	<0.4 mg/kg	3.22	<1.288 mg/kg	<0.000129 %			<LOD
	005-008-00-8	215-125-8	1303-86-2								
4	cadmium { cadmium oxide }				0.17 mg/kg	1.142	0.194 mg/kg	0.0000194 %			
	048-002-00-0	215-146-2	1306-19-0								
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				44 mg/kg	1.462	64.308 mg/kg	0.00643 %			
		215-160-9	1308-38-9								
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %			<LOD
	024-017-00-8										
7	copper { dicopper oxide; copper (I) oxide }				24 mg/kg	1.126	27.021 mg/kg	0.0027 %			
	029-002-00-X	215-270-7	1317-39-1								
8	lead { lead chromate }			1	23 mg/kg	1.56	35.876 mg/kg	0.0023 %			
	082-004-00-2	231-846-0	7758-97-6								
9	mercury { mercury dichloride }				<0.05 mg/kg	1.353	<0.0677 mg/kg	<0.00000677 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
10	molybdenum { molybdenum(VI) oxide }				<0.5 mg/kg	1.5	<0.75 mg/kg	<0.000075 %			<LOD
	042-001-00-9	215-204-7	1313-27-5								
11	nickel { nickel chromate }				53 mg/kg	2.976	157.742 mg/kg	0.0158 %			
	028-035-00-7	238-766-5	14721-18-7								
12	selenium { nickel selenate }				0.47 mg/kg	2.554	1.2 mg/kg	0.00012 %			
	028-031-00-5	239-125-2	15060-62-5								
13	zinc { zinc chromate }				73 mg/kg	2.774	202.513 mg/kg	0.0203 %			
	024-007-00-3	236-878-9	13530-65-9								
14	TPH (C6 to C40) petroleum group				92 mg/kg		92 mg/kg	0.0092 %			
			TPH								
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	603-181-00-X	216-653-1	1634-04-4								



environmental management for business

#	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	benzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
17	toluene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
18	ethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
19	xylene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<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]							
20	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 }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %		<LOD
	006-007-00-5									
21	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
22	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8							
23	acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9							
24	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7							
25	phenanthrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-581-5	85-01-8							
26	anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-371-1	120-12-7							
27	fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-912-4	206-44-0							
28	pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-927-3	129-00-0							
29	benzo[a]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
30	chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
31	benzo[b]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
32	benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
33	benzo[a]pyrene; benzo[def]chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
34	indeno[123-cd]pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-893-2	193-39-5							
35	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
36	benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-883-8	191-24-2							
37	phenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
38	polychlorobiphenyls; PCB				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	602-039-00-4	215-648-1	1336-36-3							
Total:								0.059 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous Property to non-hazardous for cumulative determinand results below the threshold of: 1000 mg/kg (0.1%)
because: Can be discounted as this is a solid waste without a free draining liquid phase.

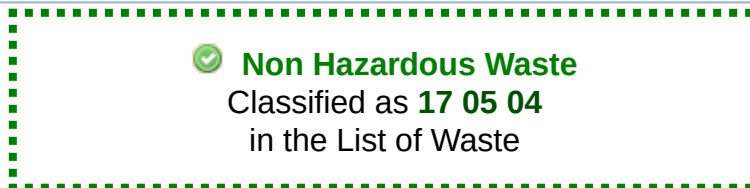
Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.0092%)

Classification of sample: TP16



Sample details

Sample name:	LoW Code:
TP16	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.50 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
12%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 12% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	antimony { antimony trioxide }				<2 mg/kg	1.197	<2.394 mg/kg	<0.000239 %		<LOD
	051-005-00-X	215-175-0	1309-64-4							
2	arsenic { arsenic trioxide }				13 mg/kg	1.32	17.164 mg/kg	0.00172 %		
	033-003-00-0	215-481-4	1327-53-3							
3	boron { diboron trioxide }			11	<0.4 mg/kg	3.22	<1.288 mg/kg	<0.000129 %		<LOD
	005-008-00-8	215-125-8	1303-86-2							
4	cadmium { cadmium oxide }				0.28 mg/kg	1.142	0.32 mg/kg	0.000032 %		
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				56 mg/kg	1.462	81.847 mg/kg	0.00818 %		
		215-160-9	1308-38-9							
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %		<LOD
	024-017-00-8									
7	copper { dicopper oxide; copper (I) oxide }				38 mg/kg	1.126	42.784 mg/kg	0.00428 %		
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead chromate }			1	28 mg/kg	1.56	43.675 mg/kg	0.0028 %		
	082-004-00-2	231-846-0	7758-97-6							
9	mercury { mercury dichloride }				<0.05 mg/kg	1.353	<0.0677 mg/kg	<0.00000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
10	molybdenum { molybdenum(VI) oxide }				<0.5 mg/kg	1.5	<0.75 mg/kg	<0.000075 %		<LOD
	042-001-00-9	215-204-7	1313-27-5							
11	nickel { nickel chromate }				70 mg/kg	2.976	208.339 mg/kg	0.0208 %		
	028-035-00-7	238-766-5	14721-18-7							
12	selenium { nickel selenate }				0.67 mg/kg	2.554	1.711 mg/kg	0.000171 %		
	028-031-00-5	239-125-2	15060-62-5							
13	zinc { zinc chromate }				110 mg/kg	2.774	305.156 mg/kg	0.0305 %		
	024-007-00-3	236-878-9	13530-65-9							
14	TPH (C6 to C40) petroleum group				82 mg/kg		82 mg/kg	0.0082 %		
			TPH							
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							



environmental management for business

#	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	benzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
17	toluene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
18	ethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
19	xylene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<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]							
20	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 }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %		<LOD
	006-007-00-5									
21	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
22	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8							
23	acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9							
24	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7							
25	phenanthrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-581-5	85-01-8							
26	anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-371-1	120-12-7							
27	fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-912-4	206-44-0							
28	pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-927-3	129-00-0							
29	benzo[a]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
30	chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
31	benzo[b]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
32	benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
33	benzo[a]pyrene; benzo[def]chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
34	indeno[123-cd]pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-893-2	193-39-5							
35	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
36	benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-883-8	191-24-2							
37	phenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
38	polychlorobiphenyls; PCB				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	602-039-00-4	215-648-1	1336-36-3							
Total:								0.0776 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous Property to non-hazardous for cumulative determinand results below the threshold of: 1000 mg/kg (0.1%)
because: Can be discounted as this is a solid waste without a free draining liquid phase.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.0082%)

Classification of sample: TP18

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

Sample details

Sample name:	LoW Code:
TP18	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1.20 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
13%	
(no correction)	

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	antimony { antimony trioxide }				<2 mg/kg	1.197	<2.394 mg/kg	<0.000239 %			<LOD
	051-005-00-X	215-175-0	1309-64-4								
2	arsenic { arsenic trioxide }				22 mg/kg	1.32	29.047 mg/kg	0.0029 %			
	033-003-00-0	215-481-4	1327-53-3								
3	boron { diboron trioxide }			11	<0.4 mg/kg	3.22	<1.288 mg/kg	<0.000129 %			<LOD
	005-008-00-8	215-125-8	1303-86-2								
4	cadmium { cadmium oxide }				0.18 mg/kg	1.142	0.206 mg/kg	0.0000206 %			
	048-002-00-0	215-146-2	1306-19-0								
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				77 mg/kg	1.462	112.54 mg/kg	0.0113 %			
		215-160-9	1308-38-9								
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %			<LOD
	024-017-00-8										
7	copper { dicopper oxide; copper (I) oxide }				27 mg/kg	1.126	30.399 mg/kg	0.00304 %			
	029-002-00-X	215-270-7	1317-39-1								
8	lead { lead chromate }			1	29 mg/kg	1.56	45.235 mg/kg	0.0029 %			
	082-004-00-2	231-846-0	7758-97-6								
9	mercury { mercury dichloride }				0.08 mg/kg	1.353	0.108 mg/kg	0.0000108 %			
	080-010-00-X	231-299-8	7487-94-7								
10	molybdenum { molybdenum(VI) oxide }				<0.5 mg/kg	1.5	<0.75 mg/kg	<0.000075 %			<LOD
	042-001-00-9	215-204-7	1313-27-5								
11	nickel { nickel chromate }				72 mg/kg	2.976	214.291 mg/kg	0.0214 %			
	028-035-00-7	238-766-5	14721-18-7								
12	selenium { nickel selenate }				0.69 mg/kg	2.554	1.762 mg/kg	0.000176 %			
	028-031-00-5	239-125-2	15060-62-5								
13	zinc { zinc chromate }				94 mg/kg	2.774	260.77 mg/kg	0.0261 %			
	024-007-00-3	236-878-9	13530-65-9								
14	TPH (C6 to C40) petroleum group				100 mg/kg		100 mg/kg	0.01 %			
			TPH								
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	603-181-00-X	216-653-1	1634-04-4								



environmental management for business

#	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	benzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
17	toluene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
18	ethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
19	xylene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<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]							
20	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 }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %		<LOD
	006-007-00-5									
21	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
22	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8							
23	acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9							
24	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7							
25	phenanthrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-581-5	85-01-8							
26	anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-371-1	120-12-7							
27	fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-912-4	206-44-0							
28	pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-927-3	129-00-0							
29	benzo[a]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
30	chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
31	benzo[b]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
32	benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
33	benzo[a]pyrene; benzo[def]chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
34	indeno[123-cd]pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-893-2	193-39-5							
35	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
36	benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-883-8	191-24-2							
37	phenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
38	polychlorobiphenyls; PCB				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	602-039-00-4	215-648-1	1336-36-3							
Total:								0.0786 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous Property to non-hazardous for cumulative determinand results below the threshold of: 1000 mg/kg (0.1%)
because: Can be discounted as this is a solid waste without a free draining liquid phase.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.01%)

Classification of sample: TP22

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

Sample details

Sample name:	LoW Code:
TP22	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1.60 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
9%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 9% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	antimony { antimony trioxide }				<2 mg/kg	1.197	<2.394 mg/kg	<0.000239 %			<LOD
	051-005-00-X	215-175-0	1309-64-4								
2	arsenic { arsenic trioxide }				17 mg/kg	1.32	22.446 mg/kg	0.00224 %			
	033-003-00-0	215-481-4	1327-53-3								
3	boron { diboron trioxide }			11	<0.4 mg/kg	3.22	<1.288 mg/kg	<0.000129 %			<LOD
	005-008-00-8	215-125-8	1303-86-2								
4	cadmium { cadmium oxide }				0.49 mg/kg	1.142	0.56 mg/kg	0.000056 %			
	048-002-00-0	215-146-2	1306-19-0								
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				48 mg/kg	1.462	70.155 mg/kg	0.00702 %			
		215-160-9	1308-38-9								
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %			<LOD
	024-017-00-8										
7	copper { dicopper oxide; copper (I) oxide }				43 mg/kg	1.126	48.413 mg/kg	0.00484 %			
	029-002-00-X	215-270-7	1317-39-1								
8	lead { lead chromate }			1	22 mg/kg	1.56	34.316 mg/kg	0.0022 %			
	082-004-00-2	231-846-0	7758-97-6								
9	mercury { mercury dichloride }				<0.05 mg/kg	1.353	<0.0677 mg/kg	<0.00000677 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
10	molybdenum { molybdenum(VI) oxide }				0.5 mg/kg	1.5	0.75 mg/kg	0.000075 %			
	042-001-00-9	215-204-7	1313-27-5								
11	nickel { nickel chromate }				58 mg/kg	2.976	172.623 mg/kg	0.0173 %			
	028-035-00-7	238-766-5	14721-18-7								
12	selenium { nickel selenate }				1.1 mg/kg	2.554	2.809 mg/kg	0.000281 %			
	028-031-00-5	239-125-2	15060-62-5								
13	zinc { zinc chromate }				92 mg/kg	2.774	255.221 mg/kg	0.0255 %			
	024-007-00-3	236-878-9	13530-65-9								
14	TPH (C6 to C40) petroleum group				74 mg/kg		74 mg/kg	0.0074 %			
			TPH								
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	603-181-00-X	216-653-1	1634-04-4								



environmental management for business

#	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	benzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
17	toluene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
18	ethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
19	xylene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<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]							
20	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 }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %		<LOD
	006-007-00-5									
21	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
22	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8							
23	acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9							
24	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7							
25	phenanthrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-581-5	85-01-8							
26	anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-371-1	120-12-7							
27	fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-912-4	206-44-0							
28	pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-927-3	129-00-0							
29	benzo[a]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
30	chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
31	benzo[b]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
32	benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
33	benzo[a]pyrene; benzo[def]chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
34	indeno[123-cd]pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-893-2	193-39-5							
35	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
36	benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-883-8	191-24-2							
37	phenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
38	polychlorobiphenyls; PCB				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	602-039-00-4	215-648-1	1336-36-3							
Total:								0.0677 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous Property to non-hazardous for cumulative determinand results below the threshold of: 1000 mg/kg (0.1%)
because: Can be discounted as this is a solid waste without a free draining liquid phase.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.0074%)

Classification of sample: TP24

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

Sample details

Sample name:	LoW Code:
TP24	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1.80 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
13%	
(no correction)	

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	antimony { antimony trioxide }				<2 mg/kg	1.197	<2.394 mg/kg	<0.000239 %			<LOD
	051-005-00-X	215-175-0	1309-64-4								
2	arsenic { arsenic trioxide }				14 mg/kg	1.32	18.485 mg/kg	0.00185 %			
	033-003-00-0	215-481-4	1327-53-3								
3	boron { diboron trioxide }			11	<0.4 mg/kg	3.22	<1.288 mg/kg	<0.000129 %			<LOD
	005-008-00-8	215-125-8	1303-86-2								
4	cadmium { cadmium oxide }				0.13 mg/kg	1.142	0.149 mg/kg	0.0000149 %			
	048-002-00-0	215-146-2	1306-19-0								
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				60 mg/kg	1.462	87.693 mg/kg	0.00877 %			
		215-160-9	1308-38-9								
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %			<LOD
	024-017-00-8										
7	copper { dicopper oxide; copper (I) oxide }				28 mg/kg	1.126	31.525 mg/kg	0.00315 %			
	029-002-00-X	215-270-7	1317-39-1								
8	lead { lead chromate }			1	21 mg/kg	1.56	32.756 mg/kg	0.0021 %			
	082-004-00-2	231-846-0	7758-97-6								
9	mercury { mercury dichloride }				<0.05 mg/kg	1.353	<0.0677 mg/kg	<0.00000677 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
10	molybdenum { molybdenum(VI) oxide }				<0.5 mg/kg	1.5	<0.75 mg/kg	<0.000075 %			<LOD
	042-001-00-9	215-204-7	1313-27-5								
11	nickel { nickel chromate }				61 mg/kg	2.976	181.552 mg/kg	0.0182 %			
	028-035-00-7	238-766-5	14721-18-7								
12	selenium { nickel selenate }				0.47 mg/kg	2.554	1.2 mg/kg	0.00012 %			
	028-031-00-5	239-125-2	15060-62-5								
13	zinc { zinc chromate }				80 mg/kg	2.774	221.932 mg/kg	0.0222 %			
	024-007-00-3	236-878-9	13530-65-9								
14	TPH (C6 to C40) petroleum group				90 mg/kg		90 mg/kg	0.009 %			
			TPH								
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	603-181-00-X	216-653-1	1634-04-4								



environmental management for business

#	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	benzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
17	toluene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
18	ethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
19	xylene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<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]							
20	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 }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %		<LOD
	006-007-00-5									
21	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
22	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8							
23	acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9							
24	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7							
25	phenanthrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-581-5	85-01-8							
26	anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-371-1	120-12-7							
27	fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-912-4	206-44-0							
28	pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-927-3	129-00-0							
29	benzo[a]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
30	chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
31	benzo[b]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
32	benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
33	benzo[a]pyrene; benzo[def]chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
34	indeno[123-cd]pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-893-2	193-39-5							
35	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
36	benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-883-8	191-24-2							
37	phenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
38	polychlorobiphenyls; PCB				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	602-039-00-4	215-648-1	1336-36-3							
Total:								0.0662 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous Property to non-hazardous for cumulative determinand results below the threshold of: 1000 mg/kg (0.1%)
because: Can be discounted as this is a solid waste without a free draining liquid phase.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.009%)

Classification of sample: TP26

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

Sample details

Sample name:	LoW Code:
TP26	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.50 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
11%	
(no correction)	

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	antimony { antimony trioxide }				<2 mg/kg	1.197	<2.394 mg/kg	<0.000239 %		<LOD
	051-005-00-X	215-175-0	1309-64-4							
2	arsenic { arsenic trioxide }				12 mg/kg	1.32	15.844 mg/kg	0.00158 %		
	033-003-00-0	215-481-4	1327-53-3							
3	boron { diboron trioxide }			11	<0.4 mg/kg	3.22	<1.288 mg/kg	<0.000129 %		<LOD
	005-008-00-8	215-125-8	1303-86-2							
4	cadmium { cadmium oxide }				0.13 mg/kg	1.142	0.149 mg/kg	0.0000149 %		
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				59 mg/kg	1.462	86.232 mg/kg	0.00862 %		
		215-160-9	1308-38-9							
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %		<LOD
	024-017-00-8									
7	copper { dicopper oxide; copper (I) oxide }				40 mg/kg	1.126	45.036 mg/kg	0.0045 %		
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead chromate }			1	31 mg/kg	1.56	48.354 mg/kg	0.0031 %		
	082-004-00-2	231-846-0	7758-97-6							
9	mercury { mercury dichloride }				<0.05 mg/kg	1.353	<0.0677 mg/kg	<0.00000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
10	molybdenum { molybdenum(VI) oxide }				<0.5 mg/kg	1.5	<0.75 mg/kg	<0.000075 %		<LOD
	042-001-00-9	215-204-7	1313-27-5							
11	nickel { nickel chromate }				68 mg/kg	2.976	202.386 mg/kg	0.0202 %		
	028-035-00-7	238-766-5	14721-18-7							
12	selenium { nickel selenate }				0.72 mg/kg	2.554	1.839 mg/kg	0.000184 %		
	028-031-00-5	239-125-2	15060-62-5							
13	zinc { zinc chromate }				100 mg/kg	2.774	277.415 mg/kg	0.0277 %		
	024-007-00-3	236-878-9	13530-65-9							
14	TPH (C6 to C40) petroleum group				74 mg/kg		74 mg/kg	0.0074 %		
			TPH							
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							

#	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	benzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
17	toluene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
18	ethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
19	xylene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<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]							
20	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 }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %		<LOD
	006-007-00-5									
21	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
22	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8							
23	acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9							
24	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7							
25	phenanthrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-581-5	85-01-8							
26	anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-371-1	120-12-7							
27	fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-912-4	206-44-0							
28	pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-927-3	129-00-0							
29	benzo[a]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
30	chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
31	benzo[b]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
32	benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
33	benzo[a]pyrene; benzo[def]chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
34	indeno[123-cd]pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-893-2	193-39-5							
35	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
36	benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-883-8	191-24-2							
37	phenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
38	polychlorobiphenyls; PCB				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	602-039-00-4	215-648-1	1336-36-3							
Total:								0.0742 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous Property to non-hazardous for cumulative determinand results below the threshold of: 1000 mg/kg (0.1%)
because: Can be discounted as this is a solid waste without a free draining liquid phase.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.0074%)

Classification of sample: TP28

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

Sample details

Sample name:	LoW Code:
TP28	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
2.10 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
9.6%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 9.6% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	antimony { antimony trioxide }				<2 mg/kg	1.197	<2.394 mg/kg	<0.000239 %		<LOD
	051-005-00-X	215-175-0	1309-64-4							
2	arsenic { arsenic trioxide }				9.8 mg/kg	1.32	12.939 mg/kg	0.00129 %		
	033-003-00-0	215-481-4	1327-53-3							
3	boron { diboron trioxide }			11	<0.4 mg/kg	3.22	<1.288 mg/kg	<0.000129 %		<LOD
	005-008-00-8	215-125-8	1303-86-2							
4	cadmium { cadmium oxide }				0.25 mg/kg	1.142	0.286 mg/kg	0.0000286 %		
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				46 mg/kg	1.462	67.232 mg/kg	0.00672 %		
		215-160-9	1308-38-9							
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %		<LOD
	024-017-00-8									
7	copper { dicopper oxide; copper (I) oxide }				33 mg/kg	1.126	37.154 mg/kg	0.00372 %		
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead chromate }			1	18 mg/kg	1.56	28.077 mg/kg	0.0018 %		
	082-004-00-2	231-846-0	7758-97-6							
9	mercury { mercury dichloride }				<0.05 mg/kg	1.353	<0.0677 mg/kg	<0.00000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
10	molybdenum { molybdenum(VI) oxide }				<0.5 mg/kg	1.5	<0.75 mg/kg	<0.000075 %		<LOD
	042-001-00-9	215-204-7	1313-27-5							
11	nickel { nickel chromate }				48 mg/kg	2.976	142.861 mg/kg	0.0143 %		
	028-035-00-7	238-766-5	14721-18-7							
12	selenium { nickel selenate }				0.37 mg/kg	2.554	0.945 mg/kg	0.0000945 %		
	028-031-00-5	239-125-2	15060-62-5							
13	zinc { zinc chromate }				68 mg/kg	2.774	188.642 mg/kg	0.0189 %		
	024-007-00-3	236-878-9	13530-65-9							
14	TPH (C6 to C40) petroleum group				75 mg/kg		75 mg/kg	0.0075 %		
			TPH							
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							



environmental management for business

#	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	benzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
17	toluene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
18	ethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
19	xylene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<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]							
20	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 }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %		<LOD
	006-007-00-5									
21	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
22	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8							
23	acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9							
24	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7							
25	phenanthrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-581-5	85-01-8							
26	anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-371-1	120-12-7							
27	fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-912-4	206-44-0							
28	pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-927-3	129-00-0							
29	benzo[a]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
30	chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
31	benzo[b]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
32	benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
33	benzo[a]pyrene; benzo[def]chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
34	indeno[123-cd]pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-893-2	193-39-5							
35	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
36	benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-883-8	191-24-2							
37	phenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
38	polychlorobiphenyls; PCB				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	602-039-00-4	215-648-1	1336-36-3							
Total:								0.0551 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous Property to non-hazardous for cumulative determinand results below the threshold of: 1000 mg/kg (0.1%)
because: Can be discounted as this is a solid waste without a free draining liquid phase.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.0075%)

Classification of sample: TP30

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

Sample details

Sample name:	LoW Code:
TP30	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1.20 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
11%	
(no correction)	

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	antimony { antimony trioxide }				<2 mg/kg	1.197	<2.394 mg/kg	<0.000239 %			<LOD
	051-005-00-X	215-175-0	1309-64-4								
2	arsenic { arsenic trioxide }				15 mg/kg	1.32	19.805 mg/kg	0.00198 %			
	033-003-00-0	215-481-4	1327-53-3								
3	boron { diboron trioxide }			11	<0.4 mg/kg	3.22	<1.288 mg/kg	<0.000129 %			<LOD
	005-008-00-8	215-125-8	1303-86-2								
4	cadmium { cadmium oxide }				0.3 mg/kg	1.142	0.343 mg/kg	0.0000343 %			
	048-002-00-0	215-146-2	1306-19-0								
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				69 mg/kg	1.462	100.847 mg/kg	0.0101 %			
		215-160-9	1308-38-9								
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %			<LOD
	024-017-00-8										
7	copper { dicopper oxide; copper (I) oxide }				70 mg/kg	1.126	78.812 mg/kg	0.00788 %			
	029-002-00-X	215-270-7	1317-39-1								
8	lead { lead chromate }			1	28 mg/kg	1.56	43.675 mg/kg	0.0028 %			
	082-004-00-2	231-846-0	7758-97-6								
9	mercury { mercury dichloride }				<0.05 mg/kg	1.353	<0.0677 mg/kg	<0.00000677 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
10	molybdenum { molybdenum(VI) oxide }				<0.5 mg/kg	1.5	<0.75 mg/kg	<0.000075 %			<LOD
	042-001-00-9	215-204-7	1313-27-5								
11	nickel { nickel chromate }				87 mg/kg	2.976	258.935 mg/kg	0.0259 %			
	028-035-00-7	238-766-5	14721-18-7								
12	selenium { nickel selenate }				0.93 mg/kg	2.554	2.375 mg/kg	0.000238 %			
	028-031-00-5	239-125-2	15060-62-5								
13	zinc { zinc chromate }				120 mg/kg	2.774	332.898 mg/kg	0.0333 %			
	024-007-00-3	236-878-9	13530-65-9								
14	TPH (C6 to C40) petroleum group				73 mg/kg		73 mg/kg	0.0073 %			
			TPH								
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	603-181-00-X	216-653-1	1634-04-4								

#	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	benzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
17	toluene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
18	ethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
19	xylene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<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]							
20	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 }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %		<LOD
	006-007-00-5									
21	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
22	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8							
23	acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9							
24	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7							
25	phenanthrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-581-5	85-01-8							
26	anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-371-1	120-12-7							
27	fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-912-4	206-44-0							
28	pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-927-3	129-00-0							
29	benzo[a]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
30	chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
31	benzo[b]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
32	benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
33	benzo[a]pyrene; benzo[def]chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
34	indeno[123-cd]pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-893-2	193-39-5							
35	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
36	benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-883-8	191-24-2							
37	phenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
38	polychlorobiphenyls; PCB				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	602-039-00-4	215-648-1	1336-36-3							
Total:								0.0903 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous Property to non-hazardous for cumulative determinand results below the threshold of: 1000 mg/kg (0.1%)
because: Can be discounted as this is a solid waste without a free draining liquid phase.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.0073%)

Classification of sample: TP34

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

Sample details

Sample name:	LoW Code:
TP34	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.50 m	
Moisture content:	
11%	
(no correction)	

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	antimony { antimony trioxide }				<2 mg/kg	1.197	<2.394 mg/kg	<0.000239 %			<LOD
	051-005-00-X	215-175-0	1309-64-4								
2	arsenic { arsenic trioxide }				6.7 mg/kg	1.32	8.846 mg/kg	0.000885 %			
	033-003-00-0	215-481-4	1327-53-3								
3	boron { diboron trioxide }			11	<0.4 mg/kg	3.22	<1.288 mg/kg	<0.000129 %			<LOD
	005-008-00-8	215-125-8	1303-86-2								
4	cadmium { cadmium oxide }				0.14 mg/kg	1.142	0.16 mg/kg	0.000016 %			
	048-002-00-0	215-146-2	1306-19-0								
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				74 mg/kg	1.462	108.155 mg/kg	0.0108 %			
		215-160-9	1308-38-9								
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %			<LOD
	024-017-00-8										
7	copper { dicopper oxide; copper (I) oxide }				45 mg/kg	1.126	50.665 mg/kg	0.00507 %			
	029-002-00-X	215-270-7	1317-39-1								
8	lead { lead chromate }			1	25 mg/kg	1.56	38.995 mg/kg	0.0025 %			
	082-004-00-2	231-846-0	7758-97-6								
9	mercury { mercury dichloride }				0.08 mg/kg	1.353	0.108 mg/kg	0.0000108 %			
	080-010-00-X	231-299-8	7487-94-7								
10	molybdenum { molybdenum(VI) oxide }				<0.5 mg/kg	1.5	<0.75 mg/kg	<0.000075 %			<LOD
	042-001-00-9	215-204-7	1313-27-5								
11	nickel { nickel chromate }				100 mg/kg	2.976	297.626 mg/kg	0.0298 %			
	028-035-00-7	238-766-5	14721-18-7								
12	selenium { nickel selenate }				0.7 mg/kg	2.554	1.788 mg/kg	0.000179 %			
	028-031-00-5	239-125-2	15060-62-5								
13	zinc { zinc chromate }				110 mg/kg	2.774	305.156 mg/kg	0.0305 %			
	024-007-00-3	236-878-9	13530-65-9								
14	TPH (C6 to C40) petroleum group				77 mg/kg		77 mg/kg	0.0077 %			
			TPH								
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	603-181-00-X	216-653-1	1634-04-4								



environmental management for business

#	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	benzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
17	toluene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
18	ethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
19	xylene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<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]							
20	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 }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %		<LOD
	006-007-00-5									
21	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
22	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8							
23	acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9							
24	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7							
25	phenanthrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-581-5	85-01-8							
26	anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-371-1	120-12-7							
27	fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-912-4	206-44-0							
28	pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-927-3	129-00-0							
29	benzo[a]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
30	chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
31	benzo[b]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
32	benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
33	benzo[a]pyrene; benzo[def]chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
34	indeno[123-cd]pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-893-2	193-39-5							
35	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
36	benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-883-8	191-24-2							
37	phenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
38	polychlorobiphenyls; PCB				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	602-039-00-4	215-648-1	1336-36-3							
Total:								0.0883 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous Property to non-hazardous for cumulative determinand results below the threshold of: 1000 mg/kg (0.1%)
because: Can be discounted as this is a solid waste without a free draining liquid phase.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.0077%)

Classification of sample: TP38

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

Sample details

Sample name:	LoW Code:
TP38	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.50 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
11%	
(no correction)	

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	antimony { antimony trioxide }				<2 mg/kg	1.197	<2.394 mg/kg	<0.000239 %		<LOD
	051-005-00-X	215-175-0	1309-64-4							
2	arsenic { arsenic trioxide }				5.1 mg/kg	1.32	6.734 mg/kg	0.000673 %		
	033-003-00-0	215-481-4	1327-53-3							
3	boron { diboron trioxide }			11	0.43 mg/kg	3.22	1.385 mg/kg	0.000138 %		
	005-008-00-8	215-125-8	1303-86-2							
4	cadmium { cadmium oxide }				<0.1 mg/kg	1.142	<0.114 mg/kg	<0.0000114 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				57 mg/kg	1.462	83.309 mg/kg	0.00833 %		
		215-160-9	1308-38-9							
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %		<LOD
	024-017-00-8									
7	copper { dicopper oxide; copper (I) oxide }				15 mg/kg	1.126	16.888 mg/kg	0.00169 %		
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead chromate }			1	20 mg/kg	1.56	31.196 mg/kg	0.002 %		
	082-004-00-2	231-846-0	7758-97-6							
9	mercury { mercury dichloride }				<0.05 mg/kg	1.353	<0.0677 mg/kg	<0.00000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
10	molybdenum { molybdenum(VI) oxide }				<0.5 mg/kg	1.5	<0.75 mg/kg	<0.000075 %		<LOD
	042-001-00-9	215-204-7	1313-27-5							
11	nickel { nickel chromate }				55 mg/kg	2.976	163.695 mg/kg	0.0164 %		
	028-035-00-7	238-766-5	14721-18-7							
12	selenium { nickel selenate }				0.48 mg/kg	2.554	1.226 mg/kg	0.000123 %		
	028-031-00-5	239-125-2	15060-62-5							
13	zinc { zinc chromate }				83 mg/kg	2.774	230.254 mg/kg	0.023 %		
	024-007-00-3	236-878-9	13530-65-9							
14	TPH (C6 to C40) petroleum group				78 mg/kg		78 mg/kg	0.0078 %		
			TPH							
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							



environmental management for business

#	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	benzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
17	toluene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
18	ethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
19	xylene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<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]							
20	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 }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %		<LOD
	006-007-00-5									
21	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
22	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8							
23	acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9							
24	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7							
25	phenanthrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-581-5	85-01-8							
26	anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-371-1	120-12-7							
27	fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-912-4	206-44-0							
28	pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-927-3	129-00-0							
29	benzo[a]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
30	chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
31	benzo[b]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
32	benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
33	benzo[a]pyrene; benzo[def]chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
34	indeno[123-cd]pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-893-2	193-39-5							
35	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
36	benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-883-8	191-24-2							
37	phenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
38	polychlorobiphenyls; PCB				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	602-039-00-4	215-648-1	1336-36-3							
Total:								0.0609 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous Property to non-hazardous for cumulative determinand results below the threshold of: 1000 mg/kg (0.1%)
because: Can be discounted as this is a solid waste without a free draining liquid phase.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.0078%)

Classification of sample: TP40

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

Sample details

Sample name:	LoW Code:
TP40	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1.50 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
8.7%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 8.7% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	antimony { antimony trioxide }				<2 mg/kg	1.197	<2.394 mg/kg	<0.000239 %			<LOD
	051-005-00-X	215-175-0	1309-64-4								
2	arsenic { arsenic trioxide }				13 mg/kg	1.32	17.164 mg/kg	0.00172 %			
	033-003-00-0	215-481-4	1327-53-3								
3	boron { diboron trioxide }			11	<0.4 mg/kg	3.22	<1.288 mg/kg	<0.000129 %			<LOD
	005-008-00-8	215-125-8	1303-86-2								
4	cadmium { cadmium oxide }				0.26 mg/kg	1.142	0.297 mg/kg	0.0000297 %			
	048-002-00-0	215-146-2	1306-19-0								
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				60 mg/kg	1.462	87.693 mg/kg	0.00877 %			
		215-160-9	1308-38-9								
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %			<LOD
	024-017-00-8										
7	copper { dicopper oxide; copper (I) oxide }				56 mg/kg	1.126	63.05 mg/kg	0.0063 %			
	029-002-00-X	215-270-7	1317-39-1								
8	lead { lead chromate }			1	25 mg/kg	1.56	38.995 mg/kg	0.0025 %			
	082-004-00-2	231-846-0	7758-97-6								
9	mercury { mercury dichloride }				<0.05 mg/kg	1.353	<0.0677 mg/kg	<0.00000677 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
10	molybdenum { molybdenum(VI) oxide }				<0.5 mg/kg	1.5	<0.75 mg/kg	<0.000075 %			<LOD
	042-001-00-9	215-204-7	1313-27-5								
11	nickel { nickel chromate }				71 mg/kg	2.976	211.315 mg/kg	0.0211 %			
	028-035-00-7	238-766-5	14721-18-7								
12	selenium { nickel selenate }				0.85 mg/kg	2.554	2.171 mg/kg	0.000217 %			
	028-031-00-5	239-125-2	15060-62-5								
13	zinc { zinc chromate }				90 mg/kg	2.774	249.673 mg/kg	0.025 %			
	024-007-00-3	236-878-9	13530-65-9								
14	TPH (C6 to C40) petroleum group				67 mg/kg		67 mg/kg	0.0067 %			
			TPH								
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	603-181-00-X	216-653-1	1634-04-4								



environmental management for business

#	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	benzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
17	toluene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
18	ethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
19	xylene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<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]							
20	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 }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %		<LOD
	006-007-00-5									
21	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
22	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8							
23	acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9							
24	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7							
25	phenanthrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-581-5	85-01-8							
26	anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-371-1	120-12-7							
27	fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-912-4	206-44-0							
28	pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-927-3	129-00-0							
29	benzo[a]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
30	chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
31	benzo[b]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
32	benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
33	benzo[a]pyrene; benzo[def]chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
34	indeno[123-cd]pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-893-2	193-39-5							
35	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
36	benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-883-8	191-24-2							
37	phenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
38	polychlorobiphenyls; PCB				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	602-039-00-4	215-648-1	1336-36-3							
Total:								0.0732 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous Property to non-hazardous for cumulative determinand results below the threshold of: 1000 mg/kg (0.1%)
because: Can be discounted as this is a solid waste without a free draining liquid phase.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.0067%)

Classification of sample: TP42

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

Sample details

Sample name:	LoW Code:
TP42	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1.00 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
16%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 16% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	antimony { antimony trioxide }				<2 mg/kg	1.197	<2.394 mg/kg	<0.000239 %		<LOD
	051-005-00-X	215-175-0	1309-64-4							
2	arsenic { arsenic trioxide }				14 mg/kg	1.32	18.485 mg/kg	0.00185 %		
	033-003-00-0	215-481-4	1327-53-3							
3	boron { diboron trioxide }			11	<0.4 mg/kg	3.22	<1.288 mg/kg	<0.000129 %		<LOD
	005-008-00-8	215-125-8	1303-86-2							
4	cadmium { cadmium oxide }				0.33 mg/kg	1.142	0.377 mg/kg	0.0000377 %		
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				43 mg/kg	1.462	62.847 mg/kg	0.00628 %		
		215-160-9	1308-38-9							
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %		<LOD
	024-017-00-8									
7	copper { dicopper oxide; copper (I) oxide }				43 mg/kg	1.126	48.413 mg/kg	0.00484 %		
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead chromate }			1	19 mg/kg	1.56	29.636 mg/kg	0.0019 %		
	082-004-00-2	231-846-0	7758-97-6							
9	mercury { mercury dichloride }				<0.05 mg/kg	1.353	<0.0677 mg/kg	<0.00000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
10	molybdenum { molybdenum(VI) oxide }				<0.5 mg/kg	1.5	<0.75 mg/kg	<0.000075 %		<LOD
	042-001-00-9	215-204-7	1313-27-5							
11	nickel { nickel chromate }				52 mg/kg	2.976	154.766 mg/kg	0.0155 %		
	028-035-00-7	238-766-5	14721-18-7							
12	selenium { nickel selenate }				0.58 mg/kg	2.554	1.481 mg/kg	0.000148 %		
	028-031-00-5	239-125-2	15060-62-5							
13	zinc { zinc chromate }				66 mg/kg	2.774	183.094 mg/kg	0.0183 %		
	024-007-00-3	236-878-9	13530-65-9							
14	TPH (C6 to C40) petroleum group				88 mg/kg		88 mg/kg	0.0088 %		
			TPH							
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							

#	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	benzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
17	toluene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
18	ethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
19	xylene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<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]							
20	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 }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %		<LOD
	006-007-00-5									
21	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
22	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8							
23	acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9							
24	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7							
25	phenanthrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-581-5	85-01-8							
26	anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-371-1	120-12-7							
27	fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-912-4	206-44-0							
28	pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-927-3	129-00-0							
29	benzo[a]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
30	chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
31	benzo[b]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
32	benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
33	benzo[a]pyrene; benzo[def]chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
34	indeno[123-cd]pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-893-2	193-39-5							
35	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
36	benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-883-8	191-24-2							
37	phenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
38	polychlorobiphenyls; PCB				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	602-039-00-4	215-648-1	1336-36-3							
Total:								0.0585 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous Property to non-hazardous for cumulative determinand results below the threshold of: 1000 mg/kg (0.1%)
because: Can be discounted as this is a solid waste without a free draining liquid phase.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.0088%)

Classification of sample: TP44

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

Sample details

Sample name:	LoW Code:
TP44	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.50 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
15%	
(no correction)	

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	antimony { antimony trioxide }				<2 mg/kg	1.197	<2.394 mg/kg	<0.000239 %			<LOD
	051-005-00-X	215-175-0	1309-64-4								
2	arsenic { arsenic trioxide }				8.8 mg/kg	1.32	11.619 mg/kg	0.00116 %			
	033-003-00-0	215-481-4	1327-53-3								
3	boron { diboron trioxide }			11	<0.4 mg/kg	3.22	<1.288 mg/kg	<0.000129 %			<LOD
	005-008-00-8	215-125-8	1303-86-2								
4	cadmium { cadmium oxide }				<0.1 mg/kg	1.142	<0.114 mg/kg	<0.0000114 %			<LOD
	048-002-00-0	215-146-2	1306-19-0								
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				58 mg/kg	1.462	84.77 mg/kg	0.00848 %			
		215-160-9	1308-38-9								
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %			<LOD
	024-017-00-8										
7	copper { dicopper oxide; copper (I) oxide }				33 mg/kg	1.126	37.154 mg/kg	0.00372 %			
	029-002-00-X	215-270-7	1317-39-1								
8	lead { lead chromate }			1	19 mg/kg	1.56	29.636 mg/kg	0.0019 %			
	082-004-00-2	231-846-0	7758-97-6								
9	mercury { mercury dichloride }				<0.05 mg/kg	1.353	<0.0677 mg/kg	<0.00000677 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
10	molybdenum { molybdenum(VI) oxide }				<0.5 mg/kg	1.5	<0.75 mg/kg	<0.000075 %			<LOD
	042-001-00-9	215-204-7	1313-27-5								
11	nickel { nickel chromate }				57 mg/kg	2.976	169.647 mg/kg	0.017 %			
	028-035-00-7	238-766-5	14721-18-7								
12	selenium { nickel selenate }				0.46 mg/kg	2.554	1.175 mg/kg	0.000117 %			
	028-031-00-5	239-125-2	15060-62-5								
13	zinc { zinc chromate }				75 mg/kg	2.774	208.061 mg/kg	0.0208 %			
	024-007-00-3	236-878-9	13530-65-9								
14	TPH (C6 to C40) petroleum group				71 mg/kg		71 mg/kg	0.0071 %			
			TPH								
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	603-181-00-X	216-653-1	1634-04-4								



environmental management for business

#	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	benzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
17	toluene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
18	ethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
19	xylene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<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]							
20	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 }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %		<LOD
	006-007-00-5									
21	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
22	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8							
23	acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9							
24	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7							
25	phenanthrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-581-5	85-01-8							
26	anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-371-1	120-12-7							
27	fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-912-4	206-44-0							
28	pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-927-3	129-00-0							
29	benzo[a]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
30	chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
31	benzo[b]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
32	benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
33	benzo[a]pyrene; benzo[def]chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
34	indeno[123-cd]pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-893-2	193-39-5							
35	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
36	benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-883-8	191-24-2							
37	phenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
38	polychlorobiphenyls; PCB				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	602-039-00-4	215-648-1	1336-36-3							
Total:								0.0611 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous Property to non-hazardous for cumulative determinand results below the threshold of: 1000 mg/kg (0.1%)
because: Can be discounted as this is a solid waste without a free draining liquid phase.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.0071%)

Classification of sample: TP48

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

Sample details

Sample name:	LoW Code:
TP48	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1.90 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
12%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 12% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	antimony { antimony trioxide }				<2 mg/kg	1.197	<2.394 mg/kg	<0.000239 %			<LOD
	051-005-00-X	215-175-0	1309-64-4								
2	arsenic { arsenic trioxide }				11 mg/kg	1.32	14.524 mg/kg	0.00145 %			
	033-003-00-0	215-481-4	1327-53-3								
3	boron { diboron trioxide }			11	<0.4 mg/kg	3.22	<1.288 mg/kg	<0.000129 %			<LOD
	005-008-00-8	215-125-8	1303-86-2								
4	cadmium { cadmium oxide }				0.19 mg/kg	1.142	0.217 mg/kg	0.0000217 %			
	048-002-00-0	215-146-2	1306-19-0								
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				65 mg/kg	1.462	95.001 mg/kg	0.0095 %			
		215-160-9	1308-38-9								
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %			<LOD
	024-017-00-8										
7	copper { dicopper oxide; copper (I) oxide }				19 mg/kg	1.126	21.392 mg/kg	0.00214 %			
	029-002-00-X	215-270-7	1317-39-1								
8	lead { lead chromate }			1	23 mg/kg	1.56	35.876 mg/kg	0.0023 %			
	082-004-00-2	231-846-0	7758-97-6								
9	mercury { mercury dichloride }				0.07 mg/kg	1.353	0.0947 mg/kg	0.00000947 %			
	080-010-00-X	231-299-8	7487-94-7								
10	molybdenum { molybdenum(VI) oxide }				<0.5 mg/kg	1.5	<0.75 mg/kg	<0.000075 %			<LOD
	042-001-00-9	215-204-7	1313-27-5								
11	nickel { nickel chromate }				59 mg/kg	2.976	175.6 mg/kg	0.0176 %			
	028-035-00-7	238-766-5	14721-18-7								
12	selenium { nickel selenate }				0.63 mg/kg	2.554	1.609 mg/kg	0.000161 %			
	028-031-00-5	239-125-2	15060-62-5								
13	zinc { zinc chromate }				70 mg/kg	2.774	194.19 mg/kg	0.0194 %			
	024-007-00-3	236-878-9	13530-65-9								
14	TPH (C6 to C40) petroleum group				81 mg/kg		81 mg/kg	0.0081 %			
			TPH								
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	603-181-00-X	216-653-1	1634-04-4								



environmental management for business

#	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	benzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
17	toluene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
18	ethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
19	xylene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<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]							
20	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 }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %		<LOD
	006-007-00-5									
21	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
22	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8							
23	acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9							
24	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7							
25	phenanthrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-581-5	85-01-8							
26	anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-371-1	120-12-7							
27	fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-912-4	206-44-0							
28	pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-927-3	129-00-0							
29	benzo[a]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
30	chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
31	benzo[b]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
32	benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
33	benzo[a]pyrene; benzo[def]chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
34	indeno[123-cd]pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-893-2	193-39-5							
35	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
36	benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-883-8	191-24-2							
37	phenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
38	polychlorobiphenyls; PCB				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	602-039-00-4	215-648-1	1336-36-3							
Total:								0.0615 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous Property to non-hazardous for cumulative determinand results below the threshold of: 1000 mg/kg (0.1%)
because: Can be discounted as this is a solid waste without a free draining liquid phase.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.0081%)

Classification of sample: TP50

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

Sample details

Sample name:	LoW Code:
TP50	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.50 m	
Moisture content:	
14%	
(no correction)	

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	antimony { antimony trioxide }				<2 mg/kg	1.197	<2.394 mg/kg	<0.000239 %			<LOD
	051-005-00-X	215-175-0	1309-64-4								
2	arsenic { arsenic trioxide }				13 mg/kg	1.32	17.164 mg/kg	0.00172 %			
	033-003-00-0	215-481-4	1327-53-3								
3	boron { diboron trioxide }			11	<0.4 mg/kg	3.22	<1.288 mg/kg	<0.000129 %			<LOD
	005-008-00-8	215-125-8	1303-86-2								
4	cadmium { cadmium oxide }				0.23 mg/kg	1.142	0.263 mg/kg	0.0000263 %			
	048-002-00-0	215-146-2	1306-19-0								
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				55 mg/kg	1.462	80.386 mg/kg	0.00804 %			
		215-160-9	1308-38-9								
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %			<LOD
	024-017-00-8										
7	copper { dicopper oxide; copper (I) oxide }				53 mg/kg	1.126	59.672 mg/kg	0.00597 %			
	029-002-00-X	215-270-7	1317-39-1								
8	lead { lead chromate }			1	19 mg/kg	1.56	29.636 mg/kg	0.0019 %			
	082-004-00-2	231-846-0	7758-97-6								
9	mercury { mercury dichloride }				<0.05 mg/kg	1.353	<0.0677 mg/kg	<0.00000677 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
10	molybdenum { molybdenum(VI) oxide }				<0.5 mg/kg	1.5	<0.75 mg/kg	<0.000075 %			<LOD
	042-001-00-9	215-204-7	1313-27-5								
11	nickel { nickel chromate }				68 mg/kg	2.976	202.386 mg/kg	0.0202 %			
	028-035-00-7	238-766-5	14721-18-7								
12	selenium { nickel selenate }				0.47 mg/kg	2.554	1.2 mg/kg	0.00012 %			
	028-031-00-5	239-125-2	15060-62-5								
13	zinc { zinc chromate }				93 mg/kg	2.774	257.996 mg/kg	0.0258 %			
	024-007-00-3	236-878-9	13530-65-9								
14	TPH (C6 to C40) petroleum group				92 mg/kg		92 mg/kg	0.0092 %			
			TPH								
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	603-181-00-X	216-653-1	1634-04-4								



environmental management for business

#	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	benzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
17	toluene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
18	ethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
19	xylene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<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]							
20	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 }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %		<LOD
	006-007-00-5									
21	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
22	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8							
23	acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9							
24	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7							
25	phenanthrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-581-5	85-01-8							
26	anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-371-1	120-12-7							
27	fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-912-4	206-44-0							
28	pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-927-3	129-00-0							
29	benzo[a]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
30	chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
31	benzo[b]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
32	benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
33	benzo[a]pyrene; benzo[def]chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
34	indeno[123-cd]pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-893-2	193-39-5							
35	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
36	benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-883-8	191-24-2							
37	phenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
38	polychlorobiphenyls; PCB				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	602-039-00-4	215-648-1	1336-36-3							
Total:								0.0738 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous Property to non-hazardous for cumulative determinand results below the threshold of: 1000 mg/kg (0.1%)
because: Can be discounted as this is a solid waste without a free draining liquid phase.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.0092%)

Classification of sample: TP52

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

Sample details

Sample name:	LoW Code:
TP52	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1.70 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
8.6%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 8.6% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	antimony { antimony trioxide }				<2 mg/kg	1.197	<2.394 mg/kg	<0.000239 %		<LOD
	051-005-00-X	215-175-0	1309-64-4							
2	arsenic { arsenic trioxide }				16 mg/kg	1.32	21.125 mg/kg	0.00211 %		
	033-003-00-0	215-481-4	1327-53-3							
3	boron { diboron trioxide }			11	<0.4 mg/kg	3.22	<1.288 mg/kg	<0.000129 %		<LOD
	005-008-00-8	215-125-8	1303-86-2							
4	cadmium { cadmium oxide }				0.32 mg/kg	1.142	0.366 mg/kg	0.0000366 %		
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				65 mg/kg	1.462	95.001 mg/kg	0.0095 %		
		215-160-9	1308-38-9							
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %		<LOD
	024-017-00-8									
7	copper { dicopper oxide; copper (I) oxide }				57 mg/kg	1.126	64.176 mg/kg	0.00642 %		
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead chromate }			1	28 mg/kg	1.56	43.675 mg/kg	0.0028 %		
	082-004-00-2	231-846-0	7758-97-6							
9	mercury { mercury dichloride }				<0.05 mg/kg	1.353	<0.0677 mg/kg	<0.00000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
10	molybdenum { molybdenum(VI) oxide }				<0.5 mg/kg	1.5	<0.75 mg/kg	<0.000075 %		<LOD
	042-001-00-9	215-204-7	1313-27-5							
11	nickel { nickel chromate }				77 mg/kg	2.976	229.172 mg/kg	0.0229 %		
	028-035-00-7	238-766-5	14721-18-7							
12	selenium { nickel selenate }				0.68 mg/kg	2.554	1.737 mg/kg	0.000174 %		
	028-031-00-5	239-125-2	15060-62-5							
13	zinc { zinc chromate }				100 mg/kg	2.774	277.415 mg/kg	0.0277 %		
	024-007-00-3	236-878-9	13530-65-9							
14	TPH (C6 to C40) petroleum group				63 mg/kg		63 mg/kg	0.0063 %		
			TPH							
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							



environmental management for business

#	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	benzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
17	toluene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
18	ethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
19	xylene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<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]							
20	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 }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %		<LOD
	006-007-00-5									
21	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
22	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8							
23	acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9							
24	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7							
25	phenanthrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-581-5	85-01-8							
26	anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-371-1	120-12-7							
27	fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-912-4	206-44-0							
28	pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-927-3	129-00-0							
29	benzo[a]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
30	chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
31	benzo[b]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
32	benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
33	benzo[a]pyrene; benzo[def]chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
34	indeno[123-cd]pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-893-2	193-39-5							
35	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
36	benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-883-8	191-24-2							
37	phenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
38	polychlorobiphenyls; PCB				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	602-039-00-4	215-648-1	1336-36-3							
Total:								0.0788 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous Property to non-hazardous for cumulative determinand results below the threshold of: 1000 mg/kg (0.1%)
because: Can be discounted as this is a solid waste without a free draining liquid phase.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.0063%)

Classification of sample: TP54

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

Sample details

Sample name:	LoW Code:
TP54	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
1.00 m	
Moisture content:	
12%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: **12% No Moisture Correction applied (MC)**

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	antimony { antimony trioxide }				<2 mg/kg	1.197	<2.394 mg/kg	<0.000239 %			<LOD
	051-005-00-X	215-175-0	1309-64-4								
2	arsenic { arsenic trioxide }				8.7 mg/kg	1.32	11.487 mg/kg	0.00115 %			
	033-003-00-0	215-481-4	1327-53-3								
3	boron { diboron trioxide }			11	<0.4 mg/kg	3.22	<1.288 mg/kg	<0.000129 %			<LOD
	005-008-00-8	215-125-8	1303-86-2								
4	cadmium { cadmium oxide }				0.29 mg/kg	1.142	0.331 mg/kg	0.0000331 %			
	048-002-00-0	215-146-2	1306-19-0								
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				55 mg/kg	1.462	80.386 mg/kg	0.00804 %			
		215-160-9	1308-38-9								
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %			<LOD
	024-017-00-8										
7	copper { dicopper oxide; copper (I) oxide }				38 mg/kg	1.126	42.784 mg/kg	0.00428 %			
	029-002-00-X	215-270-7	1317-39-1								
8	lead { lead chromate }			1	27 mg/kg	1.56	42.115 mg/kg	0.0027 %			
	082-004-00-2	231-846-0	7758-97-6								
9	mercury { mercury dichloride }				<0.05 mg/kg	1.353	<0.0677 mg/kg	<0.00000677 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
10	molybdenum { molybdenum(VI) oxide }				<0.5 mg/kg	1.5	<0.75 mg/kg	<0.000075 %			<LOD
	042-001-00-9	215-204-7	1313-27-5								
11	nickel { nickel chromate }				68 mg/kg	2.976	202.386 mg/kg	0.0202 %			
	028-035-00-7	238-766-5	14721-18-7								
12	selenium { nickel selenate }				0.36 mg/kg	2.554	0.919 mg/kg	0.0000919 %			
	028-031-00-5	239-125-2	15060-62-5								
13	zinc { zinc chromate }				110 mg/kg	2.774	305.156 mg/kg	0.0305 %			
	024-007-00-3	236-878-9	13530-65-9								
14	TPH (C6 to C40) petroleum group				70 mg/kg		70 mg/kg	0.007 %			
			TPH								
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	603-181-00-X	216-653-1	1634-04-4								



environmental management for business

#		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		benzene 601-020-00-8	200-753-7	71-43-2		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
17		toluene 601-021-00-3	203-625-9	108-88-3		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
18	●	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
19		xylene 601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
20		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 }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %		<LOD
		006-007-00-5									
21		naphthalene 601-052-00-2	202-049-5	91-20-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
22	●	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			205-917-1	208-96-8							
23	●	acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			201-469-6	83-32-9							
24	●	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			201-695-5	86-73-7							
25	●	phenanthrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			201-581-5	85-01-8							
26	●	anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			204-371-1	120-12-7							
27	●	fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			205-912-4	206-44-0							
28	●	pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			204-927-3	129-00-0							
29		benzo[a]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		601-033-00-9	200-280-6	56-55-3							
30		chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		601-048-00-0	205-923-4	218-01-9							
31		benzo[b]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		601-034-00-4	205-911-9	205-99-2							
32		benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		601-036-00-5	205-916-6	207-08-9							
33		benzo[a]pyrene; benzo[def]chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		601-032-00-3	200-028-5	50-32-8							
34	●	indeno[123-cd]pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			205-893-2	193-39-5							
35		dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		601-041-00-2	200-181-8	53-70-3							
36	●	benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
			205-883-8	191-24-2							
37		phenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		604-001-00-2	203-632-7	108-95-2							
38	●	polychlorobiphenyls; PCB				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
		602-039-00-4	215-648-1	1336-36-3							
Total:									0.0749 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous Property to non-hazardous for cumulative determinand results below the threshold of: 1000 mg/kg (0.1%)
because: Can be discounted as this is a solid waste without a free draining liquid phase.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.007%)

Classification of sample: TP58

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

Sample details

Sample name:	LoW Code:
TP58	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1.50 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
11%	
(no correction)	

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	antimony { antimony trioxide }				<2 mg/kg	1.197	<2.394 mg/kg	<0.000239 %		<LOD
	051-005-00-X	215-175-0	1309-64-4							
2	arsenic { arsenic trioxide }				7.6 mg/kg	1.32	10.034 mg/kg	0.001 %		
	033-003-00-0	215-481-4	1327-53-3							
3	boron { diboron trioxide }			11	<0.4 mg/kg	3.22	<1.288 mg/kg	<0.000129 %		<LOD
	005-008-00-8	215-125-8	1303-86-2							
4	cadmium { cadmium oxide }				<0.1 mg/kg	1.142	<0.114 mg/kg	<0.0000114 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				29 mg/kg	1.462	42.385 mg/kg	0.00424 %		
		215-160-9	1308-38-9							
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %		<LOD
	024-017-00-8									
7	copper { dicopper oxide; copper (I) oxide }				18 mg/kg	1.126	20.266 mg/kg	0.00203 %		
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead chromate }			1	15 mg/kg	1.56	23.397 mg/kg	0.0015 %		
	082-004-00-2	231-846-0	7758-97-6							
9	mercury { mercury dichloride }				<0.05 mg/kg	1.353	<0.0677 mg/kg	<0.00000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
10	molybdenum { molybdenum(VI) oxide }				<0.5 mg/kg	1.5	<0.75 mg/kg	<0.000075 %		<LOD
	042-001-00-9	215-204-7	1313-27-5							
11	nickel { nickel chromate }				29 mg/kg	2.976	86.312 mg/kg	0.00863 %		
	028-035-00-7	238-766-5	14721-18-7							
12	selenium { nickel selenate }				0.35 mg/kg	2.554	0.894 mg/kg	0.0000894 %		
	028-031-00-5	239-125-2	15060-62-5							
13	zinc { zinc chromate }				50 mg/kg	2.774	138.707 mg/kg	0.0139 %		
	024-007-00-3	236-878-9	13530-65-9							
14	TPH (C6 to C40) petroleum group				64 mg/kg		64 mg/kg	0.0064 %		
			TPH							
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							



environmental management for business

#	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	benzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
17	toluene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
18	ethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
19	xylene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<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]							
20	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 }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %		<LOD
	006-007-00-5									
21	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
22	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8							
23	acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9							
24	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7							
25	phenanthrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-581-5	85-01-8							
26	anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-371-1	120-12-7							
27	fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-912-4	206-44-0							
28	pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-927-3	129-00-0							
29	benzo[a]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
30	chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
31	benzo[b]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
32	benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
33	benzo[a]pyrene; benzo[def]chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
34	indeno[123-cd]pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-893-2	193-39-5							
35	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
36	benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-883-8	191-24-2							
37	phenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
38	polychlorobiphenyls; PCB				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	602-039-00-4	215-648-1	1336-36-3							
Total:								0.0386 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous Property to non-hazardous for cumulative determinand results below the threshold of: 1000 mg/kg (0.1%)
because: Can be discounted as this is a solid waste without a free draining liquid phase.

Hazard Statements hit:

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

Because of determinand:

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

Classification of sample: TP60

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

Sample details

Sample name:	LoW Code:
TP60	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
2.00 m	
Moisture content:	
7.2%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 7.2% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	antimony { antimony trioxide }				<2 mg/kg	1.197	<2.394 mg/kg	<0.000239 %		<LOD
	051-005-00-X	215-175-0	1309-64-4							
2	arsenic { arsenic trioxide }				11 mg/kg	1.32	14.524 mg/kg	0.00145 %		
	033-003-00-0	215-481-4	1327-53-3							
3	boron { diboron trioxide }			11	<0.4 mg/kg	3.22	<1.288 mg/kg	<0.000129 %		<LOD
	005-008-00-8	215-125-8	1303-86-2							
4	cadmium { cadmium oxide }				0.32 mg/kg	1.142	0.366 mg/kg	0.0000366 %		
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				48 mg/kg	1.462	70.155 mg/kg	0.00702 %		
		215-160-9	1308-38-9							
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %		<LOD
	024-017-00-8									
7	copper { dicopper oxide; copper (I) oxide }				35 mg/kg	1.126	39.406 mg/kg	0.00394 %		
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead chromate }			1	15 mg/kg	1.56	23.397 mg/kg	0.0015 %		
	082-004-00-2	231-846-0	7758-97-6							
9	mercury { mercury dichloride }				<0.05 mg/kg	1.353	<0.0677 mg/kg	<0.00000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
10	molybdenum { molybdenum(VI) oxide }				<0.5 mg/kg	1.5	<0.75 mg/kg	<0.000075 %		<LOD
	042-001-00-9	215-204-7	1313-27-5							
11	nickel { nickel chromate }				59 mg/kg	2.976	175.6 mg/kg	0.0176 %		
	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 %		
	028-031-00-5	239-125-2	15060-62-5							
13	zinc { zinc chromate }				76 mg/kg	2.774	210.835 mg/kg	0.0211 %		
	024-007-00-3	236-878-9	13530-65-9							
14	TPH (C6 to C40) petroleum group				520 mg/kg		520 mg/kg	0.052 %		
			TPH							
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							



environmental management for business

#	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	benzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
17	toluene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
18	ethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
19	xylene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<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]							
20	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 }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %		<LOD
	006-007-00-5									
21	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
22	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8							
23	acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9							
24	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7							
25	phenanthrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-581-5	85-01-8							
26	anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-371-1	120-12-7							
27	fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-912-4	206-44-0							
28	pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-927-3	129-00-0							
29	benzo[a]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
30	chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
31	benzo[b]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
32	benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
33	benzo[a]pyrene; benzo[def]chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
34	indeno[123-cd]pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-893-2	193-39-5							
35	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
36	benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-883-8	191-24-2							
37	phenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
38	polychlorobiphenyls; PCB				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	602-039-00-4	215-648-1	1336-36-3							
Total:								0.106 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous Property to non-hazardous for cumulative determinand results below the threshold of: 1000 mg/kg (0.1%)
because: Can be discounted as this is a solid waste without a free draining liquid phase.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.052%)

Classification of sample: TP62

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

Sample details

Sample name:	LoW Code:
TP62	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.50 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
10%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 10% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	antimony { antimony trioxide }				<2 mg/kg	1.197	<2.394 mg/kg	<0.000239 %		<LOD
	051-005-00-X	215-175-0	1309-64-4							
2	arsenic { arsenic trioxide }				6 mg/kg	1.32	7.922 mg/kg	0.000792 %		
	033-003-00-0	215-481-4	1327-53-3							
3	boron { diboron trioxide }			11	0.42 mg/kg	3.22	1.352 mg/kg	0.000135 %		
	005-008-00-8	215-125-8	1303-86-2							
4	cadmium { cadmium oxide }				<0.1 mg/kg	1.142	<0.114 mg/kg	<0.0000114 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				25 mg/kg	1.462	36.539 mg/kg	0.00365 %		
		215-160-9	1308-38-9							
6	chromium in chromium(VI) compounds { chromium (VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %		<LOD
	024-017-00-8									
7	copper { dicopper oxide; copper (I) oxide }				18 mg/kg	1.126	20.266 mg/kg	0.00203 %		
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead chromate }			1	9.6 mg/kg	1.56	14.974 mg/kg	0.00096 %		
	082-004-00-2	231-846-0	7758-97-6							
9	mercury { mercury dichloride }				<0.05 mg/kg	1.353	<0.0677 mg/kg	<0.00000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
10	molybdenum { molybdenum(VI) oxide }				<0.5 mg/kg	1.5	<0.75 mg/kg	<0.000075 %		<LOD
	042-001-00-9	215-204-7	1313-27-5							
11	nickel { nickel chromate }				37 mg/kg	2.976	110.122 mg/kg	0.011 %		
	028-035-00-7	238-766-5	14721-18-7							
12	selenium { nickel selenate }				<0.25 mg/kg	2.554	<0.638 mg/kg	<0.0000638 %		<LOD
	028-031-00-5	239-125-2	15060-62-5							
13	zinc { zinc chromate }				40 mg/kg	2.774	110.966 mg/kg	0.0111 %		
	024-007-00-3	236-878-9	13530-65-9							
14	TPH (C6 to C40) petroleum group				81 mg/kg		81 mg/kg	0.0081 %		
			TPH							
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							



environmental management for business

#	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	benzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
17	toluene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
18	ethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
19	xylene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<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]							
20	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 }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %		<LOD
	006-007-00-5									
21	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
22	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8							
23	acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9							
24	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7							
25	phenanthrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-581-5	85-01-8							
26	anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-371-1	120-12-7							
27	fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-912-4	206-44-0							
28	pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-927-3	129-00-0							
29	benzo[a]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
30	chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
31	benzo[b]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
32	benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
33	benzo[a]pyrene; benzo[def]chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
34	indeno[123-cd]pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-893-2	193-39-5							
35	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
36	benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-883-8	191-24-2							
37	phenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
38	polychlorobiphenyls; PCB				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	602-039-00-4	215-648-1	1336-36-3							
Total:								0.0386 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous Property to non-hazardous for cumulative determinand results below the threshold of: 1000 mg/kg (0.1%)
because: Can be discounted as this is a solid waste without a free draining liquid phase.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.0081%)

Classification of sample: TP64

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

Sample details

Sample name:	LoW Code:
TP64	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1.00 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
11%	
(no correction)	

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	antimony { antimony trioxide }				<2 mg/kg	1.197	<2.394 mg/kg	<0.000239 %			<LOD
	051-005-00-X	215-175-0	1309-64-4								
2	arsenic { arsenic trioxide }				9.3 mg/kg	1.32	12.279 mg/kg	0.00123 %			
	033-003-00-0	215-481-4	1327-53-3								
3	boron { diboron trioxide }			11	<0.4 mg/kg	3.22	<1.288 mg/kg	<0.000129 %			<LOD
	005-008-00-8	215-125-8	1303-86-2								
4	cadmium { cadmium oxide }				0.22 mg/kg	1.142	0.251 mg/kg	0.0000251 %			
	048-002-00-0	215-146-2	1306-19-0								
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				39 mg/kg	1.462	57.001 mg/kg	0.0057 %			
		215-160-9	1308-38-9								
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %			<LOD
	024-017-00-8										
7	copper { dicopper oxide; copper (I) oxide }				25 mg/kg	1.126	28.147 mg/kg	0.00281 %			
	029-002-00-X	215-270-7	1317-39-1								
8	lead { lead chromate }			1	17 mg/kg	1.56	26.517 mg/kg	0.0017 %			
	082-004-00-2	231-846-0	7758-97-6								
9	mercury { mercury dichloride }				<0.05 mg/kg	1.353	<0.0677 mg/kg	<0.00000677 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
10	molybdenum { molybdenum(VI) oxide }				<0.5 mg/kg	1.5	<0.75 mg/kg	<0.000075 %			<LOD
	042-001-00-9	215-204-7	1313-27-5								
11	nickel { nickel chromate }				45 mg/kg	2.976	133.932 mg/kg	0.0134 %			
	028-035-00-7	238-766-5	14721-18-7								
12	selenium { nickel selenate }				0.45 mg/kg	2.554	1.149 mg/kg	0.000115 %			
	028-031-00-5	239-125-2	15060-62-5								
13	zinc { zinc chromate }				71 mg/kg	2.774	196.964 mg/kg	0.0197 %			
	024-007-00-3	236-878-9	13530-65-9								
14	TPH (C6 to C40) petroleum group				70 mg/kg		70 mg/kg	0.007 %			
			TPH								
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	603-181-00-X	216-653-1	1634-04-4								



environmental management for business

#		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		benzene 601-020-00-8	200-753-7	71-43-2		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
17		toluene 601-021-00-3	203-625-9	108-88-3		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
18	●	ethylbenzene 601-023-00-4	202-849-4	100-41-4		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
19		xylene 601-022-00-9	202-422-2 [1] 203-396-5 [2] 203-576-3 [3] 215-535-7 [4]	95-47-6 [1] 106-42-3 [2] 108-38-3 [3] 1330-20-7 [4]		<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
20		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 }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %		<LOD
		006-007-00-5									
21		naphthalene 601-052-00-2	202-049-5	91-20-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
22	●	acenaphthylene	205-917-1	208-96-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
23	●	acenaphthene	201-469-6	83-32-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
24	●	fluorene	201-695-5	86-73-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
25	●	phenanthrene	201-581-5	85-01-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
26	●	anthracene	204-371-1	120-12-7		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
27	●	fluoranthene	205-912-4	206-44-0		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
28	●	pyrene	204-927-3	129-00-0		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
29		benzo[a]anthracene 601-033-00-9	200-280-6	56-55-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
30		chrysene 601-048-00-0	205-923-4	218-01-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
31		benzo[b]fluoranthene 601-034-00-4	205-911-9	205-99-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
32		benzo[k]fluoranthene 601-036-00-5	205-916-6	207-08-9		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
33		benzo[a]pyrene; benzo[def]chrysene 601-032-00-3	200-028-5	50-32-8		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
34	●	indeno[123-cd]pyrene	205-893-2	193-39-5		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
35		dibenz[a,h]anthracene 601-041-00-2	200-181-8	53-70-3		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
36	●	benzo[ghi]perylene	205-883-8	191-24-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
37		phenol 604-001-00-2	203-632-7	108-95-2		<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
38	●	polychlorobiphenyls; PCB 602-039-00-4	215-648-1	1336-36-3		<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
Total:									0.0525 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous Property to non-hazardous for cumulative determinand results below the threshold of: 1000 mg/kg (0.1%)
because: Can be discounted as this is a solid waste without a free draining liquid phase.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.007%)

Classification of sample: TP66

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

Sample details

Sample name:	LoW Code:
TP66	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.50 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
18%	
(no correction)	

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	antimony { antimony trioxide }				<2 mg/kg	1.197	<2.394 mg/kg	<0.000239 %			<LOD
	051-005-00-X	215-175-0	1309-64-4								
2	arsenic { arsenic trioxide }				6.7 mg/kg	1.32	8.846 mg/kg	0.000885 %			
	033-003-00-0	215-481-4	1327-53-3								
3	boron { diboron trioxide }			11	0.6 mg/kg	3.22	1.932 mg/kg	0.000193 %			
	005-008-00-8	215-125-8	1303-86-2								
4	cadmium { cadmium oxide }				0.14 mg/kg	1.142	0.16 mg/kg	0.000016 %			
	048-002-00-0	215-146-2	1306-19-0								
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				40 mg/kg	1.462	58.462 mg/kg	0.00585 %			
		215-160-9	1308-38-9								
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %			<LOD
	024-017-00-8										
7	copper { dicopper oxide; copper (I) oxide }				15 mg/kg	1.126	16.888 mg/kg	0.00169 %			
	029-002-00-X	215-270-7	1317-39-1								
8	lead { lead chromate }			1	18 mg/kg	1.56	28.077 mg/kg	0.0018 %			
	082-004-00-2	231-846-0	7758-97-6								
9	mercury { mercury dichloride }				<0.05 mg/kg	1.353	<0.0677 mg/kg	<0.00000677 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
10	molybdenum { molybdenum(VI) oxide }				0.8 mg/kg	1.5	1.2 mg/kg	0.00012 %			
	042-001-00-9	215-204-7	1313-27-5								
11	nickel { nickel chromate }				33 mg/kg	2.976	98.217 mg/kg	0.00982 %			
	028-035-00-7	238-766-5	14721-18-7								
12	selenium { nickel selenate }				0.4 mg/kg	2.554	1.022 mg/kg	0.000102 %			
	028-031-00-5	239-125-2	15060-62-5								
13	zinc { zinc chromate }				86 mg/kg	2.774	238.577 mg/kg	0.0239 %			
	024-007-00-3	236-878-9	13530-65-9								
14	TPH (C6 to C40) petroleum group				98 mg/kg		98 mg/kg	0.0098 %			
			TPH								
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	603-181-00-X	216-653-1	1634-04-4								



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HazWasteOnline™

Report created by Austin Hynes on 12 Mar 2025

#	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	benzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
17	toluene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
18	ethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
19	xylene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<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]							
20	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 }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %		<LOD
	006-007-00-5									
21	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
22	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8							
23	acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9							
24	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7							
25	phenanthrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-581-5	85-01-8							
26	anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-371-1	120-12-7							
27	fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-912-4	206-44-0							
28	pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-927-3	129-00-0							
29	benzo[a]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
30	chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
31	benzo[b]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
32	benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
33	benzo[a]pyrene; benzo[def]chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
34	indeno[123-cd]pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-893-2	193-39-5							
35	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
36	benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-883-8	191-24-2							
37	phenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
38	polychlorobiphenyls; PCB				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	602-039-00-4	215-648-1	1336-36-3							
Total:								0.0548 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous Property to non-hazardous for cumulative determinand results below the threshold of: 1000 mg/kg (0.1%)
because: Can be discounted as this is a solid waste without a free draining liquid phase.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.0098%)

Classification of sample: TP68

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

Sample details

Sample name:	LoW Code:
TP68	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
1.80 m	
Moisture content:	
11%	
(no correction)	

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	antimony { antimony trioxide }				<2 mg/kg	1.197	<2.394 mg/kg	<0.000239 %			<LOD
	051-005-00-X	215-175-0	1309-64-4								
2	arsenic { arsenic trioxide }				21 mg/kg	1.32	27.727 mg/kg	0.00277 %			
	033-003-00-0	215-481-4	1327-53-3								
3	boron { diboron trioxide }			11	<0.4 mg/kg	3.22	<1.288 mg/kg	<0.000129 %			<LOD
	005-008-00-8	215-125-8	1303-86-2								
4	cadmium { cadmium oxide }				0.47 mg/kg	1.142	0.537 mg/kg	0.0000537 %			
	048-002-00-0	215-146-2	1306-19-0								
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				49 mg/kg	1.462	71.616 mg/kg	0.00716 %			
		215-160-9	1308-38-9								
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %			<LOD
	024-017-00-8										
7	copper { dicopper oxide; copper (I) oxide }				48 mg/kg	1.126	54.043 mg/kg	0.0054 %			
	029-002-00-X	215-270-7	1317-39-1								
8	lead { lead chromate }			1	28 mg/kg	1.56	43.675 mg/kg	0.0028 %			
	082-004-00-2	231-846-0	7758-97-6								
9	mercury { mercury dichloride }				<0.05 mg/kg	1.353	<0.0677 mg/kg	<0.00000677 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
10	molybdenum { molybdenum(VI) oxide }				<0.5 mg/kg	1.5	<0.75 mg/kg	<0.000075 %			<LOD
	042-001-00-9	215-204-7	1313-27-5								
11	nickel { nickel chromate }				61 mg/kg	2.976	181.552 mg/kg	0.0182 %			
	028-035-00-7	238-766-5	14721-18-7								
12	selenium { nickel selenate }				0.61 mg/kg	2.554	1.558 mg/kg	0.000156 %			
	028-031-00-5	239-125-2	15060-62-5								
13	zinc { zinc chromate }				120 mg/kg	2.774	332.898 mg/kg	0.0333 %			
	024-007-00-3	236-878-9	13530-65-9								
14	TPH (C6 to C40) petroleum group				71 mg/kg		71 mg/kg	0.0071 %			
			TPH								
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	603-181-00-X	216-653-1	1634-04-4								



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#	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	benzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
17	toluene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
18	ethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
19	xylene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<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]							
20	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 }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %		<LOD
	006-007-00-5									
21	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
22	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8							
23	acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9							
24	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7							
25	phenanthrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-581-5	85-01-8							
26	anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-371-1	120-12-7							
27	fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-912-4	206-44-0							
28	pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-927-3	129-00-0							
29	benzo[a]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
30	chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
31	benzo[b]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
32	benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
33	benzo[a]pyrene; benzo[def]chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
34	indeno[123-cd]pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-893-2	193-39-5							
35	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
36	benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-883-8	191-24-2							
37	phenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
38	polychlorobiphenyls; PCB				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	602-039-00-4	215-648-1	1336-36-3							
Total:								0.0777 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous Property to non-hazardous for cumulative determinand results below the threshold of: 1000 mg/kg (0.1%)
because: Can be discounted as this is a solid waste without a free draining liquid phase.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.0071%)

Classification of sample: TP70

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

Sample details

Sample name:	LoW Code:
TP70	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1.50 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
8.7%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 8.7% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	antimony { antimony trioxide }				<2 mg/kg	1.197	<2.394 mg/kg	<0.000239 %		<LOD
	051-005-00-X	215-175-0	1309-64-4							
2	arsenic { arsenic trioxide }				25 mg/kg	1.32	33.008 mg/kg	0.0033 %		
	033-003-00-0	215-481-4	1327-53-3							
3	boron { diboron trioxide }			11	<0.4 mg/kg	3.22	<1.288 mg/kg	<0.000129 %		<LOD
	005-008-00-8	215-125-8	1303-86-2							
4	cadmium { cadmium oxide }				0.45 mg/kg	1.142	0.514 mg/kg	0.0000514 %		
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				55 mg/kg	1.462	80.386 mg/kg	0.00804 %		
		215-160-9	1308-38-9							
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %		<LOD
	024-017-00-8									
7	copper { dicopper oxide; copper (I) oxide }				39 mg/kg	1.126	43.91 mg/kg	0.00439 %		
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead chromate }			1	24 mg/kg	1.56	37.436 mg/kg	0.0024 %		
	082-004-00-2	231-846-0	7758-97-6							
9	mercury { mercury dichloride }				<0.05 mg/kg	1.353	<0.0677 mg/kg	<0.00000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
10	molybdenum { molybdenum(VI) oxide }				0.5 mg/kg	1.5	0.75 mg/kg	0.000075 %		
	042-001-00-9	215-204-7	1313-27-5							
11	nickel { nickel chromate }				66 mg/kg	2.976	196.433 mg/kg	0.0196 %		
	028-035-00-7	238-766-5	14721-18-7							
12	selenium { nickel selenate }				0.58 mg/kg	2.554	1.481 mg/kg	0.000148 %		
	028-031-00-5	239-125-2	15060-62-5							
13	zinc { zinc chromate }				100 mg/kg	2.774	277.415 mg/kg	0.0277 %		
	024-007-00-3	236-878-9	13530-65-9							
14	TPH (C6 to C40) petroleum group				63 mg/kg		63 mg/kg	0.0063 %		
			TPH							
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							



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#	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	benzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
17	toluene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
18	ethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
19	xylene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<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]							
20	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 }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %		<LOD
	006-007-00-5									
21	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
22	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8							
23	acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9							
24	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7							
25	phenanthrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-581-5	85-01-8							
26	anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-371-1	120-12-7							
27	fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-912-4	206-44-0							
28	pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-927-3	129-00-0							
29	benzo[a]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
30	chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
31	benzo[b]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
32	benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
33	benzo[a]pyrene; benzo[def]chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
34	indeno[123-cd]pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-893-2	193-39-5							
35	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
36	benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-883-8	191-24-2							
37	phenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
38	polychlorobiphenyls; PCB				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	602-039-00-4	215-648-1	1336-36-3							
Total:								0.0728 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous Property to non-hazardous for cumulative determinand results below the threshold of: 1000 mg/kg (0.1%)
because: Can be discounted as this is a solid waste without a free draining liquid phase.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.0063%)

Classification of sample: TP72

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

Sample details

Sample name:	LoW Code:
TP72	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.50 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
16%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: **16% No Moisture Correction applied (MC)**

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	antimony { antimony trioxide }				<2 mg/kg	1.197	<2.394 mg/kg	<0.000239 %		<LOD
	051-005-00-X	215-175-0	1309-64-4							
2	arsenic { arsenic trioxide }				14 mg/kg	1.32	18.485 mg/kg	0.00185 %		
	033-003-00-0	215-481-4	1327-53-3							
3	boron { diboron trioxide }			11	0.48 mg/kg	3.22	1.546 mg/kg	0.000155 %		
	005-008-00-8	215-125-8	1303-86-2							
4	cadmium { cadmium oxide }				0.34 mg/kg	1.142	0.388 mg/kg	0.0000388 %		
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				44 mg/kg	1.462	64.308 mg/kg	0.00643 %		
		215-160-9	1308-38-9							
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %		<LOD
	024-017-00-8									
7	copper { dicopper oxide; copper (I) oxide }				31 mg/kg	1.126	34.903 mg/kg	0.00349 %		
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead chromate }			1	24 mg/kg	1.56	37.436 mg/kg	0.0024 %		
	082-004-00-2	231-846-0	7758-97-6							
9	mercury { mercury dichloride }				0.06 mg/kg	1.353	0.0812 mg/kg	0.00000812 %		
	080-010-00-X	231-299-8	7487-94-7							
10	molybdenum { molybdenum(VI) oxide }				0.9 mg/kg	1.5	1.35 mg/kg	0.000135 %		
	042-001-00-9	215-204-7	1313-27-5							
11	nickel { nickel chromate }				50 mg/kg	2.976	148.813 mg/kg	0.0149 %		
	028-035-00-7	238-766-5	14721-18-7							
12	selenium { nickel selenate }				0.96 mg/kg	2.554	2.452 mg/kg	0.000245 %		
	028-031-00-5	239-125-2	15060-62-5							
13	zinc { zinc chromate }				93 mg/kg	2.774	257.996 mg/kg	0.0258 %		
	024-007-00-3	236-878-9	13530-65-9							
14	TPH (C6 to C40) petroleum group				74 mg/kg		74 mg/kg	0.0074 %		
			TPH							
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							



environmental management for business

#	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	benzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
17	toluene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
18	ethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
19	xylene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<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]							
20	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 }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %		<LOD
	006-007-00-5									
21	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
22	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8							
23	acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9							
24	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7							
25	phenanthrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-581-5	85-01-8							
26	anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-371-1	120-12-7							
27	fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-912-4	206-44-0							
28	pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-927-3	129-00-0							
29	benzo[a]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
30	chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
31	benzo[b]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
32	benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
33	benzo[a]pyrene; benzo[def]chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
34	indeno[123-cd]pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-893-2	193-39-5							
35	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
36	benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-883-8	191-24-2							
37	phenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
38	polychlorobiphenyls; PCB				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	602-039-00-4	215-648-1	1336-36-3							
Total:								0.0635 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous Property to non-hazardous for cumulative determinand results below the threshold of: 1000 mg/kg (0.1%)
because: Can be discounted as this is a solid waste without a free draining liquid phase.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.0074%)

Classification of sample: TP74

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

Sample details

Sample name:	LoW Code:	
TP74	Chapter:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
1.20 m		
Moisture content:		
15%		
(no correction)		

Hazard properties

None identified

Determinands

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

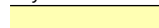
#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	antimony { antimony trioxide }				<2 mg/kg	1.197	<2.394 mg/kg	<0.000239 %		<LOD
	051-005-00-X	215-175-0	1309-64-4							
2	arsenic { arsenic trioxide }				12 mg/kg	1.32	15.844 mg/kg	0.00158 %		
	033-003-00-0	215-481-4	1327-53-3							
3	boron { diboron trioxide }			11	0.45 mg/kg	3.22	1.449 mg/kg	0.000145 %		
	005-008-00-8	215-125-8	1303-86-2							
4	cadmium { cadmium oxide }				0.2 mg/kg	1.142	0.228 mg/kg	0.0000228 %		
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				38 mg/kg	1.462	55.539 mg/kg	0.00555 %		
		215-160-9	1308-38-9							
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %		<LOD
	024-017-00-8									
7	copper { dicopper oxide; copper (I) oxide }				43 mg/kg	1.126	48.413 mg/kg	0.00484 %		
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead chromate }			1	15 mg/kg	1.56	23.397 mg/kg	0.0015 %		
	082-004-00-2	231-846-0	7758-97-6							
9	mercury { mercury dichloride }				<0.05 mg/kg	1.353	<0.0677 mg/kg	<0.00000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
10	molybdenum { molybdenum(VI) oxide }				<0.5 mg/kg	1.5	<0.75 mg/kg	<0.000075 %		<LOD
	042-001-00-9	215-204-7	1313-27-5							
11	nickel { nickel chromate }				55 mg/kg	2.976	163.695 mg/kg	0.0164 %		
	028-035-00-7	238-766-5	14721-18-7							
12	selenium { nickel selenate }				0.76 mg/kg	2.554	1.941 mg/kg	0.000194 %		
	028-031-00-5	239-125-2	15060-62-5							
13	zinc { zinc chromate }				63 mg/kg	2.774	174.771 mg/kg	0.0175 %		
	024-007-00-3	236-878-9	13530-65-9							
14	TPH (C6 to C40) petroleum group				<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
			TPH							
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							



environmental management for business

#	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	benzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
17	toluene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
18	ethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
19	xylene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<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]							
20	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 }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %		<LOD
	006-007-00-5									
21	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
22	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8							
23	acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9							
24	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7							
25	phenanthrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-581-5	85-01-8							
26	anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-371-1	120-12-7							
27	fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-912-4	206-44-0							
28	pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-927-3	129-00-0							
29	benzo[a]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
30	chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
31	benzo[b]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
32	benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
33	benzo[a]pyrene; benzo[def]chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
34	indeno[123-cd]pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-893-2	193-39-5							
35	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
36	benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-883-8	191-24-2							
37	phenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
38	polychlorobiphenyls; PCB				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	602-039-00-4	215-648-1	1336-36-3							
Total:								0.0494 %		

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: TP76

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

Sample details

Sample name:	LoW Code:
TP76	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
0.50 m	
Moisture content:	
9.1%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 9.1% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	antimony { antimony trioxide }				<2 mg/kg	1.197	<2.394 mg/kg	<0.000239 %		<LOD
	051-005-00-X	215-175-0	1309-64-4							
2	arsenic { arsenic trioxide }				10 mg/kg	1.32	13.203 mg/kg	0.00132 %		
	033-003-00-0	215-481-4	1327-53-3							
3	boron { diboron trioxide }			11	0.45 mg/kg	3.22	1.449 mg/kg	0.000145 %		
	005-008-00-8	215-125-8	1303-86-2							
4	cadmium { cadmium oxide }				0.17 mg/kg	1.142	0.194 mg/kg	0.0000194 %		
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				35 mg/kg	1.462	51.154 mg/kg	0.00512 %		
		215-160-9	1308-38-9							
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %		<LOD
	024-017-00-8									
7	copper { dicopper oxide; copper (I) oxide }				38 mg/kg	1.126	42.784 mg/kg	0.00428 %		
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead chromate }			1	16 mg/kg	1.56	24.957 mg/kg	0.0016 %		
	082-004-00-2	231-846-0	7758-97-6							
9	mercury { mercury dichloride }				<0.05 mg/kg	1.353	<0.0677 mg/kg	<0.00000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
10	molybdenum { molybdenum(VI) oxide }				<0.5 mg/kg	1.5	<0.75 mg/kg	<0.000075 %		<LOD
	042-001-00-9	215-204-7	1313-27-5							
11	nickel { nickel chromate }				44 mg/kg	2.976	130.956 mg/kg	0.0131 %		
	028-035-00-7	238-766-5	14721-18-7							
12	selenium { nickel selenate }				0.73 mg/kg	2.554	1.864 mg/kg	0.000186 %		
	028-031-00-5	239-125-2	15060-62-5							
13	zinc { zinc chromate }				62 mg/kg	2.774	171.997 mg/kg	0.0172 %		
	024-007-00-3	236-878-9	13530-65-9							
14	TPH (C6 to C40) petroleum group				<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
			TPH							
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							



environmental management for business

#	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	benzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
17	toluene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
18	ethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
19	xylene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<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]							
20	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 }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %		<LOD
	006-007-00-5									
21	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
22	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8							
23	acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9							
24	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7							
25	phenanthrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-581-5	85-01-8							
26	anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-371-1	120-12-7							
27	fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-912-4	206-44-0							
28	pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-927-3	129-00-0							
29	benzo[a]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
30	chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
31	benzo[b]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
32	benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
33	benzo[a]pyrene; benzo[def]chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
34	indeno[123-cd]pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-893-2	193-39-5							
35	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
36	benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-883-8	191-24-2							
37	phenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
38	polychlorobiphenyls; PCB				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	602-039-00-4	215-648-1	1336-36-3							
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: TP78

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

Sample details

Sample name:	LoW Code:
TP78	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1.50 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
12%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 12% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	antimony { antimony trioxide }				<2 mg/kg	1.197	<2.394 mg/kg	<0.000239 %		<LOD
	051-005-00-X	215-175-0	1309-64-4							
2	arsenic { arsenic trioxide }				5 mg/kg	1.32	6.602 mg/kg	0.00066 %		
	033-003-00-0	215-481-4	1327-53-3							
3	boron { diboron trioxide }			11	0.56 mg/kg	3.22	1.803 mg/kg	0.00018 %		
	005-008-00-8	215-125-8	1303-86-2							
4	cadmium { cadmium oxide }				0.11 mg/kg	1.142	0.126 mg/kg	0.0000126 %		
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				49 mg/kg	1.462	71.616 mg/kg	0.00716 %		
		215-160-9	1308-38-9							
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %		<LOD
	024-017-00-8									
7	copper { dicopper oxide; copper (I) oxide }				23 mg/kg	1.126	25.895 mg/kg	0.00259 %		
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead chromate }			1	14 mg/kg	1.56	21.837 mg/kg	0.0014 %		
	082-004-00-2	231-846-0	7758-97-6							
9	mercury { mercury dichloride }				0.05 mg/kg	1.353	0.0677 mg/kg	0.00000677 %		
	080-010-00-X	231-299-8	7487-94-7							
10	molybdenum { molybdenum(VI) oxide }				<0.5 mg/kg	1.5	<0.75 mg/kg	<0.000075 %		<LOD
	042-001-00-9	215-204-7	1313-27-5							
11	nickel { nickel chromate }				53 mg/kg	2.976	157.742 mg/kg	0.0158 %		
	028-035-00-7	238-766-5	14721-18-7							
12	selenium { nickel selenate }				0.46 mg/kg	2.554	1.175 mg/kg	0.000117 %		
	028-031-00-5	239-125-2	15060-62-5							
13	zinc { zinc chromate }				72 mg/kg	2.774	199.739 mg/kg	0.02 %		
	024-007-00-3	236-878-9	13530-65-9							
14	TPH (C6 to C40) petroleum group				16 mg/kg		16 mg/kg	0.0016 %		
			TPH							
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							



environmental management for business

#	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	benzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
17	toluene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
18	ethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
19	xylene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<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]							
20	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 }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %		<LOD
	006-007-00-5									
21	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
22	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8							
23	acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9							
24	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7							
25	phenanthrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-581-5	85-01-8							
26	anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-371-1	120-12-7							
27	fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-912-4	206-44-0							
28	pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-927-3	129-00-0							
29	benzo[a]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
30	chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
31	benzo[b]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
32	benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
33	benzo[a]pyrene; benzo[def]chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
34	indeno[123-cd]pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-893-2	193-39-5							
35	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
36	benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-883-8	191-24-2							
37	phenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
38	polychlorobiphenyls; PCB				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	602-039-00-4	215-648-1	1336-36-3							
Total:								0.0502 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous Property to non-hazardous for cumulative determinand results below the threshold of: 1000 mg/kg (0.1%)
because: Can be discounted as this is a solid waste without a free draining liquid phase.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.0016%)

Classification of sample: TP82

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

Sample details

Sample name:	LoW Code:
TP82	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1.70 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
15%	
(no correction)	

Hazard properties

None identified

Determinands

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

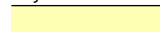
#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	antimony { antimony trioxide }				<2 mg/kg	1.197	<2.394 mg/kg	<0.000239 %			<LOD
	051-005-00-X	215-175-0	1309-64-4								
2	arsenic { arsenic trioxide }				9.9 mg/kg	1.32	13.071 mg/kg	0.00131 %			
	033-003-00-0	215-481-4	1327-53-3								
3	boron { diboron trioxide }			11	<0.4 mg/kg	3.22	<1.288 mg/kg	<0.000129 %			<LOD
	005-008-00-8	215-125-8	1303-86-2								
4	cadmium { cadmium oxide }				0.17 mg/kg	1.142	0.194 mg/kg	0.0000194 %			
	048-002-00-0	215-146-2	1306-19-0								
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				32 mg/kg	1.462	46.77 mg/kg	0.00468 %			
		215-160-9	1308-38-9								
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %			<LOD
	024-017-00-8										
7	copper { dicopper oxide; copper (I) oxide }				31 mg/kg	1.126	34.903 mg/kg	0.00349 %			
	029-002-00-X	215-270-7	1317-39-1								
8	lead { lead chromate }			1	16 mg/kg	1.56	24.957 mg/kg	0.0016 %			
	082-004-00-2	231-846-0	7758-97-6								
9	mercury { mercury dichloride }				<0.05 mg/kg	1.353	<0.0677 mg/kg	<0.00000677 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
10	molybdenum { molybdenum(VI) oxide }				<0.5 mg/kg	1.5	<0.75 mg/kg	<0.000075 %			<LOD
	042-001-00-9	215-204-7	1313-27-5								
11	nickel { nickel chromate }				43 mg/kg	2.976	127.979 mg/kg	0.0128 %			
	028-035-00-7	238-766-5	14721-18-7								
12	selenium { nickel selenate }				0.52 mg/kg	2.554	1.328 mg/kg	0.000133 %			
	028-031-00-5	239-125-2	15060-62-5								
13	zinc { zinc chromate }				61 mg/kg	2.774	169.223 mg/kg	0.0169 %			
	024-007-00-3	236-878-9	13530-65-9								
14	TPH (C6 to C40) petroleum group				<10 mg/kg		<10 mg/kg	<0.001 %			<LOD
			TPH								
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	603-181-00-X	216-653-1	1634-04-4								



environmental management for business

#	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	benzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
17	toluene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
18	ethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
19	xylene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<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]							
20	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 }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %		<LOD
	006-007-00-5									
21	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
22	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8							
23	acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9							
24	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7							
25	phenanthrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-581-5	85-01-8							
26	anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-371-1	120-12-7							
27	fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-912-4	206-44-0							
28	pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-927-3	129-00-0							
29	benzo[a]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
30	chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
31	benzo[b]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
32	benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
33	benzo[a]pyrene; benzo[def]chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
34	indeno[123-cd]pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-893-2	193-39-5							
35	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
36	benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-883-8	191-24-2							
37	phenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
38	polychlorobiphenyls; PCB				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	602-039-00-4	215-648-1	1336-36-3							
Total:								0.0428 %		

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: TP86

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

Sample details

Sample name:	LoW Code:
TP86	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1.40 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
8.8%	
(no correction)	

Hazard properties

None identified

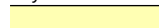
Determinands

Moisture content: 8.8% No Moisture Correction applied (MC)

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	antimony { antimony trioxide }				<2 mg/kg	1.197	<2.394 mg/kg	<0.000239 %		<LOD
	051-005-00-X	215-175-0	1309-64-4							
2	arsenic { arsenic trioxide }				5.8 mg/kg	1.32	7.658 mg/kg	0.000766 %		
	033-003-00-0	215-481-4	1327-53-3							
3	boron { diboron trioxide }			11	0.66 mg/kg	3.22	2.125 mg/kg	0.000213 %		
	005-008-00-8	215-125-8	1303-86-2							
4	cadmium { cadmium oxide }				<0.1 mg/kg	1.142	<0.114 mg/kg	<0.0000114 %		<LOD
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				37 mg/kg	1.462	54.078 mg/kg	0.00541 %		
		215-160-9	1308-38-9							
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %		<LOD
	024-017-00-8									
7	copper { dicopper oxide; copper (I) oxide }				17 mg/kg	1.126	19.14 mg/kg	0.00191 %		
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead chromate }			1	14 mg/kg	1.56	21.837 mg/kg	0.0014 %		
	082-004-00-2	231-846-0	7758-97-6							
9	mercury { mercury dichloride }				<0.05 mg/kg	1.353	<0.0677 mg/kg	<0.00000677 %		<LOD
	080-010-00-X	231-299-8	7487-94-7							
10	molybdenum { molybdenum(VI) oxide }				<0.5 mg/kg	1.5	<0.75 mg/kg	<0.000075 %		<LOD
	042-001-00-9	215-204-7	1313-27-5							
11	nickel { nickel chromate }				44 mg/kg	2.976	130.956 mg/kg	0.0131 %		
	028-035-00-7	238-766-5	14721-18-7							
12	selenium { nickel selenate }				0.43 mg/kg	2.554	1.098 mg/kg	0.00011 %		
	028-031-00-5	239-125-2	15060-62-5							
13	zinc { zinc chromate }				73 mg/kg	2.774	202.513 mg/kg	0.0203 %		
	024-007-00-3	236-878-9	13530-65-9							
14	TPH (C6 to C40) petroleum group				<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
			TPH							
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							

#	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	benzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
17	toluene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
18	ethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
19	xylene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<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]							
20	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 }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %		<LOD
	006-007-00-5									
21	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
22	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8							
23	acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9							
24	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7							
25	phenanthrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-581-5	85-01-8							
26	anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-371-1	120-12-7							
27	fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-912-4	206-44-0							
28	pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-927-3	129-00-0							
29	benzo[a]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
30	chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
31	benzo[b]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
32	benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
33	benzo[a]pyrene; benzo[def]chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
34	indeno[123-cd]pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-893-2	193-39-5							
35	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
36	benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-883-8	191-24-2							
37	phenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
38	polychlorobiphenyls; PCB				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	602-039-00-4	215-648-1	1336-36-3							
Total:								0.0449 %		

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: BH3

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

Sample details

Sample name:	LoW Code:
BH3	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.50 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
9.9%	
(no correction)	

Hazard properties

None identified

Determinands

Moisture content: 9.9% No Moisture Correction applied (MC)

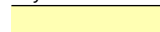
#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	antimony { antimony trioxide }				<2 mg/kg	1.197	<2.394 mg/kg	<0.000239 %			<LOD
	051-005-00-X	215-175-0	1309-64-4								
2	arsenic { arsenic trioxide }				9.9 mg/kg	1.32	13.071 mg/kg	0.00131 %			
	033-003-00-0	215-481-4	1327-53-3								
3	boron { diboron trioxide }			11	<0.4 mg/kg	3.22	<1.288 mg/kg	<0.000129 %			<LOD
	005-008-00-8	215-125-8	1303-86-2								
4	cadmium { cadmium oxide }				0.38 mg/kg	1.142	0.434 mg/kg	0.0000434 %			
	048-002-00-0	215-146-2	1306-19-0								
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				40 mg/kg	1.462	58.462 mg/kg	0.00585 %			
		215-160-9	1308-38-9								
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %			<LOD
	024-017-00-8										
7	copper { dicopper oxide; copper (I) oxide }				31 mg/kg	1.126	34.903 mg/kg	0.00349 %			
	029-002-00-X	215-270-7	1317-39-1								
8	lead { lead chromate }			1	18 mg/kg	1.56	28.077 mg/kg	0.0018 %			
	082-004-00-2	231-846-0	7758-97-6								
9	mercury { mercury dichloride }				<0.05 mg/kg	1.353	<0.0677 mg/kg	<0.00000677 %			<LOD
	080-010-00-X	231-299-8	7487-94-7								
10	molybdenum { molybdenum(VI) oxide }				0.5 mg/kg	1.5	0.75 mg/kg	0.000075 %			
	042-001-00-9	215-204-7	1313-27-5								
11	nickel { nickel chromate }				44 mg/kg	2.976	130.956 mg/kg	0.0131 %			
	028-035-00-7	238-766-5	14721-18-7								
12	selenium { nickel selenate }				0.72 mg/kg	2.554	1.839 mg/kg	0.000184 %			
	028-031-00-5	239-125-2	15060-62-5								
13	zinc { zinc chromate }				64 mg/kg	2.774	177.545 mg/kg	0.0178 %			
	024-007-00-3	236-878-9	13530-65-9								
14	TPH (C6 to C40) petroleum group				<10 mg/kg		<10 mg/kg	<0.001 %			<LOD
			TPH								
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	603-181-00-X	216-653-1	1634-04-4								



environmental management for business

#	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	benzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
17	toluene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
18	ethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
19	xylene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<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]							
20	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 }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %		<LOD
	006-007-00-5									
21	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
22	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8							
23	acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9							
24	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7							
25	phenanthrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-581-5	85-01-8							
26	anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-371-1	120-12-7							
27	fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-912-4	206-44-0							
28	pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-927-3	129-00-0							
29	benzo[a]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
30	chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
31	benzo[b]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
32	benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
33	benzo[a]pyrene; benzo[def]chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
34	indeno[123-cd]pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-893-2	193-39-5							
35	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
36	benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-883-8	191-24-2							
37	phenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
38	polychlorobiphenyls; PCB				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	602-039-00-4	215-648-1	1336-36-3							
Total:								0.0454 %		

Key

	User supplied data
	Determinand values ignored for classification, see column 'Conc. Not Used' for reason
	Determinand defined or amended by HazWasteOnline (see Appendix A)
	Speciated 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: BH7

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

Sample details

Sample name:	LoW Code:
BH7	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
2.00 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
20%	
(no correction)	

Hazard properties

None identified

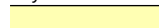
Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	antimony { antimony trioxide }				<2 mg/kg	1.197	<2.394 mg/kg	<0.000239 %		<LOD
	051-005-00-X	215-175-0	1309-64-4							
2	arsenic { arsenic trioxide }				5.2 mg/kg	1.32	6.866 mg/kg	0.000687 %		
	033-003-00-0	215-481-4	1327-53-3							
3	boron { diboron trioxide }			11	0.44 mg/kg	3.22	1.417 mg/kg	0.000142 %		
	005-008-00-8	215-125-8	1303-86-2							
4	cadmium { cadmium oxide }				0.23 mg/kg	1.142	0.263 mg/kg	0.0000263 %		
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				42 mg/kg	1.462	61.385 mg/kg	0.00614 %		
		215-160-9	1308-38-9							
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %		<LOD
	024-017-00-8									
7	copper { dicopper oxide; copper (I) oxide }				13 mg/kg	1.126	14.637 mg/kg	0.00146 %		
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead chromate }			1	16 mg/kg	1.56	24.957 mg/kg	0.0016 %		
	082-004-00-2	231-846-0	7758-97-6							
9	mercury { mercury dichloride }				0.05 mg/kg	1.353	0.0677 mg/kg	0.00000677 %		
	080-010-00-X	231-299-8	7487-94-7							
10	molybdenum { molybdenum(VI) oxide }				<0.5 mg/kg	1.5	<0.75 mg/kg	<0.000075 %		<LOD
	042-001-00-9	215-204-7	1313-27-5							
11	nickel { nickel chromate }				34 mg/kg	2.976	101.193 mg/kg	0.0101 %		
	028-035-00-7	238-766-5	14721-18-7							
12	selenium { nickel selenate }				0.71 mg/kg	2.554	1.813 mg/kg	0.000181 %		
	028-031-00-5	239-125-2	15060-62-5							
13	zinc { zinc chromate }				65 mg/kg	2.774	180.32 mg/kg	0.018 %		
	024-007-00-3	236-878-9	13530-65-9							
14	TPH (C6 to C40) petroleum group				<10 mg/kg		<10 mg/kg	<0.001 %		<LOD
			TPH							
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							

#	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	benzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
17	toluene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
18	ethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
19	xylene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<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]							
20	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 }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %		<LOD
	006-007-00-5									
21	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
22	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8							
23	acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9							
24	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7							
25	phenanthrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-581-5	85-01-8							
26	anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-371-1	120-12-7							
27	fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-912-4	206-44-0							
28	pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-927-3	129-00-0							
29	benzo[a]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
30	chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
31	benzo[b]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
32	benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
33	benzo[a]pyrene; benzo[def]chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
34	indeno[123-cd]pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-893-2	193-39-5							
35	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
36	benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-883-8	191-24-2							
37	phenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
38	polychlorobiphenyls; PCB				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	602-039-00-4	215-648-1	1336-36-3							
Total:								0.0401 %		

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: BH1

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

Sample details

Sample name:	LoW Code:
BH1	Chapter: 17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
Sample Depth:	Entry: 17 05 04 (Soil and stones other than those mentioned in 17 05 03)
2.00 m	
Moisture content:	
14%	
(no correction)	

Hazard properties

None identified

Determinands

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

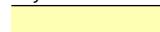
#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	antimony { antimony trioxide }				<2 mg/kg	1.197	<2.394 mg/kg	<0.000239 %			<LOD
	051-005-00-X	215-175-0	1309-64-4								
2	arsenic { arsenic trioxide }				16 mg/kg	1.32	21.125 mg/kg	0.00211 %			
	033-003-00-0	215-481-4	1327-53-3								
3	boron { diboron trioxide }			11	<0.4 mg/kg	3.22	<1.288 mg/kg	<0.000129 %			<LOD
	005-008-00-8	215-125-8	1303-86-2								
4	cadmium { cadmium oxide }				0.47 mg/kg	1.142	0.537 mg/kg	0.0000537 %			
	048-002-00-0	215-146-2	1306-19-0								
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				94 mg/kg	1.462	137.386 mg/kg	0.0137 %			
		215-160-9	1308-38-9								
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %			<LOD
	024-017-00-8										
7	copper { dicopper oxide; copper (I) oxide }				42 mg/kg	1.126	47.287 mg/kg	0.00473 %			
	029-002-00-X	215-270-7	1317-39-1								
8	lead { lead chromate }			1	29 mg/kg	1.56	45.235 mg/kg	0.0029 %			
	082-004-00-2	231-846-0	7758-97-6								
9	mercury { mercury dichloride }				0.06 mg/kg	1.353	0.0812 mg/kg	0.00000812 %			
	080-010-00-X	231-299-8	7487-94-7								
10	molybdenum { molybdenum(VI) oxide }				0.6 mg/kg	1.5	0.9 mg/kg	0.00009 %			
	042-001-00-9	215-204-7	1313-27-5								
11	nickel { nickel chromate }				96 mg/kg	2.976	285.721 mg/kg	0.0286 %			
	028-035-00-7	238-766-5	14721-18-7								
12	selenium { nickel selenate }				1.5 mg/kg	2.554	3.831 mg/kg	0.000383 %			
	028-031-00-5	239-125-2	15060-62-5								
13	zinc { zinc chromate }				110 mg/kg	2.774	305.156 mg/kg	0.0305 %			
	024-007-00-3	236-878-9	13530-65-9								
14	TPH (C6 to C40) petroleum group				<10 mg/kg		<10 mg/kg	<0.001 %			<LOD
			TPH								
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	603-181-00-X	216-653-1	1634-04-4								



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#	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	benzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
17	toluene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
18	ethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
19	xylene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<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]							
20	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 }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %		<LOD
	006-007-00-5									
21	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
22	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8							
23	acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9							
24	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7							
25	phenanthrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-581-5	85-01-8							
26	anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-371-1	120-12-7							
27	fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-912-4	206-44-0							
28	pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-927-3	129-00-0							
29	benzo[a]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
30	chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
31	benzo[b]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
32	benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
33	benzo[a]pyrene; benzo[def]chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
34	indeno[123-cd]pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-893-2	193-39-5							
35	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
36	benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-883-8	191-24-2							
37	phenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
38	polychlorobiphenyls; PCB				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	602-039-00-4	215-648-1	1336-36-3							
Total:								0.0849 %		

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: BH14

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

Sample details

Sample name:	LoW Code:
BH14	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
0.50 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
20%	
(no correction)	

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.	Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number							
1	antimony { antimony trioxide }				<2 mg/kg	1.197	<2.394 mg/kg	<0.000239 %		<LOD
	051-005-00-X	215-175-0	1309-64-4							
2	arsenic { arsenic trioxide }				6.7 mg/kg	1.32	8.846 mg/kg	0.000885 %		
	033-003-00-0	215-481-4	1327-53-3							
3	boron { diboron trioxide }			11	0.54 mg/kg	3.22	1.739 mg/kg	0.000174 %		
	005-008-00-8	215-125-8	1303-86-2							
4	cadmium { cadmium oxide }				0.3 mg/kg	1.142	0.343 mg/kg	0.0000343 %		
	048-002-00-0	215-146-2	1306-19-0							
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				51 mg/kg	1.462	74.539 mg/kg	0.00745 %		
		215-160-9	1308-38-9							
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %		<LOD
	024-017-00-8									
7	copper { dicopper oxide; copper (I) oxide }				26 mg/kg	1.126	29.273 mg/kg	0.00293 %		
	029-002-00-X	215-270-7	1317-39-1							
8	lead { lead chromate }			1	24 mg/kg	1.56	37.436 mg/kg	0.0024 %		
	082-004-00-2	231-846-0	7758-97-6							
9	mercury { mercury dichloride }				0.07 mg/kg	1.353	0.0947 mg/kg	0.00000947 %		
	080-010-00-X	231-299-8	7487-94-7							
10	molybdenum { molybdenum(VI) oxide }				0.8 mg/kg	1.5	1.2 mg/kg	0.00012 %		
	042-001-00-9	215-204-7	1313-27-5							
11	nickel { nickel chromate }				49 mg/kg	2.976	145.837 mg/kg	0.0146 %		
	028-035-00-7	238-766-5	14721-18-7							
12	selenium { nickel selenate }				0.92 mg/kg	2.554	2.35 mg/kg	0.000235 %		
	028-031-00-5	239-125-2	15060-62-5							
13	zinc { zinc chromate }				86 mg/kg	2.774	238.577 mg/kg	0.0239 %		
	024-007-00-3	236-878-9	13530-65-9							
14	TPH (C6 to C40) petroleum group				14 mg/kg		14 mg/kg	0.0014 %		
			TPH							
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	603-181-00-X	216-653-1	1634-04-4							

#	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	benzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
17	toluene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
18	ethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
19	xylene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<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]							
20	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 }				0.5 mg/kg	1.884	0.942 mg/kg	0.0000942 %		
	006-007-00-5									
21	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
22	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8							
23	acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9							
24	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7							
25	phenanthrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-581-5	85-01-8							
26	anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-371-1	120-12-7							
27	fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-912-4	206-44-0							
28	pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-927-3	129-00-0							
29	benzo[a]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
30	chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
31	benzo[b]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
32	benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
33	benzo[a]pyrene; benzo[def]chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
34	indeno[123-cd]pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-893-2	193-39-5							
35	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
36	benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-883-8	191-24-2							
37	phenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
38	polychlorobiphenyls; PCB				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	602-039-00-4	215-648-1	1336-36-3							
Total:								0.0547 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous Property to non-hazardous for cumulative determinand results below the threshold of: 1000 mg/kg (0.1%)
because: Can be discounted as this is a solid waste without a free draining liquid phase.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.0014%)

Classification of sample: BH15A

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

Sample details

Sample name:	LoW Code:
BH15A	Chapter:
Sample Depth:	17: Construction and Demolition Wastes (including excavated soil from contaminated sites)
1.00 m	Entry:
Moisture content:	17 05 04 (Soil and stones other than those mentioned in 17 05 03)
11%	
(no correction)	

Hazard properties

None identified

Determinands

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

#	Determinand			CLP Note	User entered data	Conv. Factor	Compound conc.		Classification value	MC Applied	Conc. Not Used
	EU CLP index number	EC Number	CAS Number								
1	antimony { antimony trioxide }				<2 mg/kg	1.197	<2.394 mg/kg	<0.000239 %			<LOD
	051-005-00-X	215-175-0	1309-64-4								
2	arsenic { arsenic trioxide }				7.1 mg/kg	1.32	9.374 mg/kg	0.000937 %			
	033-003-00-0	215-481-4	1327-53-3								
3	boron { diboron trioxide }			11	1.1 mg/kg	3.22	3.542 mg/kg	0.000354 %			
	005-008-00-8	215-125-8	1303-86-2								
4	cadmium { cadmium oxide }				0.3 mg/kg	1.142	0.343 mg/kg	0.0000343 %			
	048-002-00-0	215-146-2	1306-19-0								
5	chromium in chromium(III) compounds { chromium(III) oxide (worst case) }				81 mg/kg	1.462	118.386 mg/kg	0.0118 %			
		215-160-9	1308-38-9								
6	chromium in chromium(VI) compounds { chromium(VI) compounds, with the exception of barium chromate and of compounds specified elsewhere in this Annex }				<0.5 mg/kg	2.27	<1.135 mg/kg	<0.000113 %			<LOD
	024-017-00-8										
7	copper { dicopper oxide; copper (I) oxide }				58 mg/kg	1.126	65.302 mg/kg	0.00653 %			
	029-002-00-X	215-270-7	1317-39-1								
8	lead { lead chromate }			1	39 mg/kg	1.56	60.833 mg/kg	0.0039 %			
	082-004-00-2	231-846-0	7758-97-6								
9	mercury { mercury dichloride }				0.05 mg/kg	1.353	0.0677 mg/kg	0.00000677 %			
	080-010-00-X	231-299-8	7487-94-7								
10	molybdenum { molybdenum(VI) oxide }				<0.5 mg/kg	1.5	<0.75 mg/kg	<0.000075 %			<LOD
	042-001-00-9	215-204-7	1313-27-5								
11	nickel { nickel chromate }				110 mg/kg	2.976	327.389 mg/kg	0.0327 %			
	028-035-00-7	238-766-5	14721-18-7								
12	selenium { nickel selenate }				1.1 mg/kg	2.554	2.809 mg/kg	0.000281 %			
	028-031-00-5	239-125-2	15060-62-5								
13	zinc { zinc chromate }				160 mg/kg	2.774	443.863 mg/kg	0.0444 %			
	024-007-00-3	236-878-9	13530-65-9								
14	TPH (C6 to C40) petroleum group				12 mg/kg		12 mg/kg	0.0012 %			
			TPH								
15	tert-butyl methyl ether; MTBE; 2-methoxy-2-methylpropane				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %			<LOD
	603-181-00-X	216-653-1	1634-04-4								



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#	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	benzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-020-00-8	200-753-7	71-43-2							
17	toluene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-021-00-3	203-625-9	108-88-3							
18	ethylbenzene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<LOD
	601-023-00-4	202-849-4	100-41-4							
19	xylene				<0.001 mg/kg		<0.001 mg/kg	<0.0000001 %		<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]							
20	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 }				<0.5 mg/kg	1.884	<0.942 mg/kg	<0.0000942 %		<LOD
	006-007-00-5									
21	naphthalene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-052-00-2	202-049-5	91-20-3							
22	acenaphthylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-917-1	208-96-8							
23	acenaphthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-469-6	83-32-9							
24	fluorene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-695-5	86-73-7							
25	phenanthrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		201-581-5	85-01-8							
26	anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-371-1	120-12-7							
27	fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-912-4	206-44-0							
28	pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		204-927-3	129-00-0							
29	benzo[a]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-033-00-9	200-280-6	56-55-3							
30	chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-048-00-0	205-923-4	218-01-9							
31	benzo[b]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-034-00-4	205-911-9	205-99-2							
32	benzo[k]fluoranthene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-036-00-5	205-916-6	207-08-9							
33	benzo[a]pyrene; benzo[def]chrysene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-032-00-3	200-028-5	50-32-8							
34	indeno[123-cd]pyrene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-893-2	193-39-5							
35	dibenz[a,h]anthracene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	601-041-00-2	200-181-8	53-70-3							
36	benzo[ghi]perylene				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
		205-883-8	191-24-2							
37	phenol				<0.1 mg/kg		<0.1 mg/kg	<0.00001 %		<LOD
	604-001-00-2	203-632-7	108-95-2							
38	polychlorobiphenyls; PCB				<0.05 mg/kg		<0.05 mg/kg	<0.000005 %		<LOD
	602-039-00-4	215-648-1	1336-36-3							
Total:								0.103 %		

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

Supplementary Hazardous Property Information

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

Force this Hazardous Property to non-hazardous for cumulative determinand results below the threshold of: 1000 mg/kg (0.1%)
because: Can be discounted as this is a solid waste without a free draining liquid phase.

Hazard Statements hit:

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

Because of determinand:

TPH (C6 to C40) petroleum group (conc.: 0.0012%)

Appendix A: Classifier defined and non EU CLP 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: Hazard statements taken from WM3 1st Edition 2015; Risk phrases: WM2 3rd Edition 2013

Data source: WM3 1st Edition 2015

Data source date: 25 May 2015

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

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

EU CLP index number: 601-023-00-4

Description/Comments:

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

Reason for additional Hazards Statement(s):

03 Jun 2015 - Carc. 2; H351 hazard statement sourced from: IARC Group 2B (77) 2000

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

EU CLP 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):

14 Dec 2015 - EUH032 >= 0.2 % hazard statement sourced from: WM3, Table C12.2

• **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

■ **polychlorobiphenyls; PCB** (EC Number: 215-648-1, CAS Number: 1336-36-3)

EU CLP index number: 602-039-00-4

Description/Comments: Worst Case: IARC considers PCB Group 1; Carcinogenic to humans;

POP specific threshold from ATP1 (Regulation 756/2010/EU) to POPs Regulation (Regulation 850/2004/EC). Where applicable, the calculation method laid down in European standards EN 12766-1 and EN 12766-2 shall be applied.

Additional Hazard Statement(s): Carc. 1A; H350

Reason for additional Hazards Statement(s):

29 Sep 2015 - Carc. 1A; H350 hazard statement sourced from: IARC Group 1 (23, Sup 7, 100C) 2012

Appendix B: Rationale for selection of metal species

antimony {antimony trioxide}

Worst case CLP species based on hazard statements/molecular weight and low solubility. Industrial sources include: flame retardants in electrical apparatus, textiles and coatings (edit as required)

arsenic {arsenic trioxide}

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

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 (edit as required)

cadmium {cadmium oxide}

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

chromium in chromium(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 (edit as required)

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

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

copper {dicopper oxide; copper (I) oxide}

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

lead {lead chromate}

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

mercury {mercury dichloride}

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

molybdenum {molybdenum(VI) oxide}

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

nickel {nickel chromate}

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

selenium {nickel selenate}

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

zinc {zinc chromate}

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

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] (edit as required)

Appendix C: Version

HazWasteOnline Classification Engine: **EU WM3 1st Edition v1.1.NI using the EU LoW**

HazWasteOnline Classification Engine Version: 2025.65.6483.11817 (06 Mar 2025)

HazWasteOnline Database: 2025.65.6483.11817 (06 Mar 2025)

This classification utilises the following guidance and legislation:

WM3 v1.1.NI - Waste Classification - 1st Edition v1.1.NI - Jan 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

17th ATP - Regulation (EU) 2021/849 of 11 March 2021

18th ATP - Regulation (EU) 2022/692 of 16 February 2022

POPs Amendment 2022 - Regulation (EU) 2022/2400 of 23 November 2022

19th ATP - Regulation (EU) 2023/1434 of 25 April 2023

20th ATP - Regulation (EU) 2023/1435 of 2 May 2023

21st ATP - Regulation (EU) 2024/197 of 19 October 2023

22nd ATP - Regulation (EU) 2024/2564 of 19th June 2024