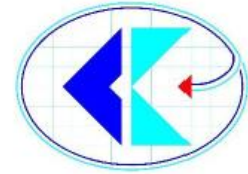


PGL Ref: GH/Rp/P25032

21st May, 2025



COYLE KENNEDY
Consulting Engineers

Coyle Kennedy, Consulting Engineers

Block 1, GFSC

Moneenageisha Road

Galway,

Ireland.

Re: St. Josephs Rd, Portumna, Geotechnical site investigation, Factual report

Introduction

In February 2025, Priority Geotechnical (PGL) were requested by Coyle Kennedy Consulting Engineers, acting on behalf of Galway County Council, to undertake a geotechnical site investigation for the proposed social housing development at St. Josephs Rd., Portumna, Co. Galway (E184941, N204504).



Objectives

The purpose of the site investigation works are required to be undertaken to establish the soil and rock characteristics; together with chemical analysis.

Scope

The original scope of works compiled by Coyle Kennedy, as tendered comprised of;

- 4Nr. cable percussion boreholes;
- 4Nr. rotary boreholes including 2Nr standpipe installations;
- 12Nr. trial pit excavations;
- 7Nr. foundation inspection pits;
- 1Nr. slit trench;
- 2Nr. soakaway tests, BRE365;
- 5Nr. *in situ* California bearing ratio, CBR tests;
- Associated sampling and laboratory testing;
- Associated reporting.

The site works as completed is outlined, herein, noting due to the shallow rock the cable percussion boreholes were replaced by dynamic probing. This factual report provides factual detail and records of the fieldworks and laboratory data sets.

Fieldworks

The fieldworks were carried out under the supervision of PGL Geologist(s) between the 28th February and the 16th May, 2025; in general accordance with BS 5930 (1999) Code of Practice for Site Investigation and Part 9 of BS 1377 (1990), Method of Tests for Soil for Civil Engineering Purposes, *in situ* Tests. The subsequent sections should be read in conjunction with the exploratory logs accompanying this factual report.

Excavations

Thirteen (13) trial pits were excavated to depths 1.65m below existing ground level (bgl) and 2.80m bgl using a 13t tracked excavator. The logs are attached, herein.

Location	Final depth, m bgl	Remarks	
		Stability	Groundwater
TP 01	2.70	Good	2.1m bgl, Steady rate of flow. 2.6m bgl Fast rate of flow.
TP 02	2.80	Moderate	2.40m bgl, Steady rate of flow. 2.60m bgl Fast rate of flow.
TP 03	1.70	Good	1.30m bgl Fast rate of flow.
TP 04	2.80	Poor to very poor.	1.80m bgl, Steady rate of flow. 2.30m bgl Fast rate of flow.
TP 05	2.20	Moderate	1.20m bgl, Steady rate of flow. 1.70m bgl Fast rate of flow.
TP 06	2.50	Good	1.10m bgl, Steady rate of flow. 2.50m bgl Fast rate of flow.
TP 07	1.65	Moderate to good.	1.30m bgl, Slow rate of flow. 1.60m bgl Fast rate of flow.
TP 08	1.90	Good to moderate.	1.60m bgl, Steady rate of flow.
TP 09	1.80	Moderate	1.70m bgl, Fast rate of flow.
TP 10	2.20	Good	2.10m bgl, Slow rate of flow.
TP 11	1.75	Good	1.75m bgl, Trickle rate of flow.
TP 12	2.20	Good to moderate.	2.00m bgl, Fast rate of flow.
TP 13	2.80	Good to moderate	1.90m bgl, Slow rate of flow. 2.80m bgl Fast rate of flow.

Seven (7) foundation inspection pits were excavated to depths 0.50m bgl to 0.95m bgl using a 13t tracked excavator. The logs are attached, herein.

Location	Final depth, m bgl	Remarks	
		Stability	Groundwater
BP 01	0.60	Good	None encountered.
BP 02	0.70	Good	None encountered.
BP 03	0.65	Good	None encountered.
BP 04	0.50	Good	None encountered.
BP 05	0.90	Good	None encountered.
BP 06	0.95	Good	None encountered.
BP 07	0.80	Good	None encountered.

A single (1) slit trench was excavated to depths 2.70m bgl using a 13t tracked excavator. The logs are attached, herein.

Location	Final depth, m bgl	Remarks	
		Stability	Groundwater
ST 01	2.70	Good	1.90m bgl, Steady rate of flow.

Excavations were backfilled with their arisings and the surfaces reinstated.



ARISINGS Backfill

Boreholes

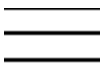
Four (4) rotary boreholes were advanced to depths between 7.4m below ground level (bgl) to 8.9m below ground level (bgl) using PGL's Soilmec SM 8G rotary rig and 131mm diameter casing; 76mm core. The records are presented herein.

Location	Final depth, m bgl
BH01	7.4
BH02	8.7
BH03	8.9
BH04	8.8

Backfill details are displayed graphically on the accompanying borehole logs and detailed as follows:



GRAVEL Backfill to installation/ borehole



uPVC slotted pipe



ARISINGS Backfill



BENTONITE Backfill to installation/ borehole

Sampling

A total of forty six (46) bulk disturbed samples (B), thirty one (31) small disturbed samples (D), two (2) environmental samples (ENV) and 24.0lin.m of core were recovered from the exploratory locations in accordance with Geotechnical Investigation and Sampling – Sampling Methods and Groundwater Measurements (EN ISO 22475-1:2006).

Dynamic probing

PGL's Competitor dynamic probing rig was to undertake dynamic probing (DP(H); 50kg drop weight, 500mm drop height) in general accordance with Geotechnical Investigation and Testing, Part 2, Dynamic probing, BS EN ISO 22476-2:2005. The blows per 100mm (N_{100}) were recorded to refusal being 25blows without progress over 100mm. Seventeen (17) number dynamic probes progressed to refusal at depths 0.8m below existing ground level (bgl) and 2.9m bgl.

Location	Refusal depth, m bgl
DP 01	0.8
DP 02	1.1
DP 03	1.1
DP 04	1.5
DP 05	1.8
DP 06	1.7
DP 07	2.1
DP 08	2.5
DP 09	2.7
DP 10	2.8
DP 11	2.9
DP 12	2.7
DP 13	2.5
DP 14	2.7
DP 15	2.2
DP16	2.7
DP17	2.6

Cone penetrometer

Ten (10) Transport Research Laboratory, TRL dynamic cone penetrometer tests, TRL DCP (8kg drop weight, 575mm drop height) were carried out during the period of investigation. DCP probes were advanced to refusal to establish (unadjusted) *in situ* California Bearing Ratio, CBR using both the Kleyn and TII DN-PAV-03021 equations. (*An adjustment factor of 0.5 is recommended*). The exploratory logs accompany the relevant trial pit excavation, presented within this factual report.

Soakaway test

Two (2) infiltration/ soakaway tests were undertaken in general accordance with BRE Digest 365, Soakaway Design (2003/ 2007); a single (1) drainage cycle was completed within the duration of the working day. The data from the testing accompanies the relevant exploratory records accompanying this report.

Location	Final depth, m bgl	Remarks		Infiltration coefficient, ms ⁻¹
		Stability	Groundwater	
TP SA01	2.00	Moderate	1.90m, Fast rate of flow.	4.15 x E -05
TP SA02	2.00	Good	None encountered.	1.52 x E-05

Survey and location

The 'as built' exploration locations were surveyed to the Ordinance Survey Irish Transverse Mercator system of co-ordinates (ITM) and elevations to Malin Head datum and shown on the relevant exploratory logs and the Exploratory location drawings (P25032-SI-A and P25032-SI-01) accompanying this factual report.

Location	Easting	Northing	Elevation, mOD Malin	Final depth, m bgl	Date dd/mm/yyyy
TP SA01	584875.500	704596.200	41.860	2.00	03/03/2025
TP SA02	584889.600	704524.200	43.810	2.00	03/03/2025
TP 01	584850.400	704520.000	42.780	2.70	03/03/2025
TP 02	584920.600	704526.700	42.800	2.80	02/03/2025
TP 03	584835.600	704595.500	41.730	1.70	03/03/2025
TP 04	584909.700	704549.500	42.000	2.80	03/03/2025
TP 05	584907.400	704575.000	41.860	2.20	03/03/2025
TP 06	584901.500	704603.200	41.950	2.50	04/03/2025
TP 07	584922.700	704610.800	41.950	1.65	04/03/2025
TP 08	584889.200	704624.300	41.990	1.90	04/03/2025
TP 09	584937.900	704558.900	42.200	1.80	04/03/2025
TP 10	584808.000	704589.500	42.620	2.20	04/03/2025
TP 11	584848.200	704578.000	41.620	1.75	04/03/2025
TP 12	584849.600	704542.500	42.170	2.20	04/03/2025
TP 13	584877.100	704543.800	42.440	2.80	04/03/2025
BP 01	584949.400	704545.600	42.740	0.60	28/02/2025
BP 02	584944.900	704561.100	42.380	0.70	28/02/2025
BP 03	584939.400	704584.800	42.080	0.65	28/02/2025
BP 04	584882.000	704636.800	42.050	0.50	28/02/2025

Location	Easting	Northing	Elevation, mOD Malin	Final depth, m bgl	Date dd/mm/yyyy
BP 05	584832.900	704617.100	42.590	0.90	28/02/2025
BP 06	584823.400	704577.300	42.050	0.95	28/02/2025
BP 07	584826.800	704526.000	42.250	0.80	03/03/2025
ST 01	584881.700	704559.000	41.840	2.70	03/03/2025
DP 01	584936.800	704539.870	42.260	0.80	18/04/2025
DP 02	584900.820	704532.650	42.910	1.10	18/04/2025
DP 03	584875.980	704530.300	43.130	1.10	18/04/2025
DP 04	584839.860	704519.770	42.510	1.50	18/04/2025
DP 05	584841.250	704556.870	42.010	1.80	18/04/2025
DP 06	584871.880	704554.950	41.990	1.70	18/04/2025
DP 07	584895.800	704558.220	41.830	2.10	18/04/2025
DP 08	584927.940	704565.340	41.880	2.50	18/04/2025
DP 09	584864.880	704585.560	41.710	2.70	18/04/2025
DP 10	584824.630	704581.320	41.920	2.80	18/04/2025
DP 11	584926.470	704591.650	41.830	2.90	18/01/2025
DP 12	584815.260	704593.610	42.480	2.70	18/04/2025
DP 13	584844.010	704614.280	42.090	2.50	18/04/2025
DP 14	584889.110	704599.370	41.800	2.70	18/04/2025
DP 15	584869.030	704625.980	41.920	2.20	18/04/2025
DP16	584918.660	704616.380	41.980	2.70	18/04/2025
DP17	584897.570	704640.010	41.970	2.60	18/04/2025
BH01	584931.680	704537.430	42.191	7.40	15/05/2025
BH02	584899.360	704591.470	41.816	8.70	12/05/2025
BH03	584847.820	704585.180	41.598	8.90	13//052025
BH04	584855.540	704531.760	42.496	8.80	14/05/2025

Laboratory testing

Laboratory testing was scheduled by PGL on behalf of Coyle Kennedy. Testing was carried out by PGL in accordance with BS1377 (1990), Methods of test for soils for civil engineering purposes and the ISRM suggested methods for rock characterisation, testing and monitoring. Environmental testing was carried out by Chemtest Ltd. (UK) on behalf of PGL. The laboratory data accompanies this report and was summarised as follows;

Type	Quantity, Nr.	Remarks
Natural Moisture Content	28	9% to 34%
Atterberg Limits	6	Liquid Limit, LL 29% to 68% Plastic Limit, PL 20% to 47% Plasticity Index, PI 9 to 24
Particle Size Distribution	21	1Nr. hydrometer analysis on fine soils
Moisture condition value, MCV	3	MCV6.4 to MCV9.9
California bearing ratio, CBR	5	CBR02.2% to CBR3.9%
pH	5	pH 7.4 to 8.8
SO ₄ water soluble 2:1	5	<0.010g/l to 0.015g/l
SO ₄ acid soluble	6	0.019% to 0.084%
Total Sulphur	4	-
Organic content	2	2.8% to 4.8%
Point load index, I _{ss0}	-	MPa to MPa
Environmental, Rialta (2023)	3	TP10 0.5m, TP13 0.5m and BP02 0.3; See results, attached.

Please note that all samples shall be retained for a period no longer than 28 days from the date of this report. Thereafter all remaining samples shall be appropriately disposed of unless a written instruction to the contrary is received by PGL prior to the date of this reporting and within the 28 day period outlined above. Laboratory testing will result in a reduction of sample quantity and in some cases the use of the full sample mass. Samples already tested may not be suitable or available for further testing.

Ground and groundwater conditions

The full details of the ground conditions encountered are provided for on the exploratory records accompanying this factual report. The records provide descriptions, in accordance with BS 5930 (2015) and Eurocode 7, Geotechnical Investigation and Testing, Identification and classification of soils, Part 1, Identification and description (EN ISO 14688-1: 2002),– Identification and Classification of Soil, Part 2: Classification Principles (EN ISO 14688-2:2004) and Identification and Classification of Rock, Part 1: Identification & Description (EN ISO 14689-1:2004) of the materials encountered, *in situ* testing and details of the samples taken, together with any observations made during the site investigation.

Topsoil 150mm to 200mm thick overlay red-brown slightly sandy gravelly SILT to a depth of 0.50m below existing ground level (bgl) to 0.70m bgl. Below this, mixed glacial, grey slightly gravelly sandy CLAY, very clayey very sandy GRAVEL and very clayey very gravelly SAND with low Cobble content was encountered to a depth 1.5m bgl to 2.9m bgl. LIMESTONE (Calp, LU Lucan Formation) was encountered 0.5m bgl (TP09) to 2.9m bgl (BH03).

Groundwater was encountered 0.88m bgl to 2.80m bgl during the period of fieldworks. Groundwater levels may be subject to diurnal, seasonal and climatic variations and can also be affected by drainage conditions etc.

The duration trial pit excavations remain open may not be sufficient to allow for low volume flow to present. Excavations remained open to allow for groundwater ingress depths (rose from base of excavation to, m) after duration (minutes) are reported in the following summary table.

Location	Groundwater strike, m bgl	Remarks
TP 01	2.10, 2.60	2.1m bgl, Steady rate of flow. 2.6m bgl Fast rate of flow. Rose to 2.1m after 335minutes
TP 02	2.40, 2.60	2.40m bgl, Steady rate of flow. 2.60m bgl Fast rate of flow. Rose to 1.93m after 300minutes

Location	Groundwater strike, m bgl	Remarks
TP 03	1.30	1.30m bgl Fast rate of flow. Rose to 1.19m after 320minutes
TP 04	1.80, 2.30	1.80m bgl, Steady rate of flow. 2.30m bgl Fast rate of flow.
TP 05	1.20, 1.70	1.20m bgl, Steady rate of flow. 1.70m bgl Fast rate of flow. Rose to 1.9m after 125minutes
TP 06	1.10, 2.50	1.10m bgl, Steady rate of flow. 2.50m bgl Fast rate of flow. Rose to 1.7m after 30minutes
TP 07	1.30, 1.60	1.30m bgl, Slow rate of flow. 1.60m bgl Fast rate of flow.
TP 08	1.60	1.60m bgl, Steady rate of flow. Rose to 0.88m after 560minutes
TP 09	1.70	1.70m bgl, Fast rate of flow. Rose to 0.91m after 497minutes
TP 10	2.10	2.10m bgl, Slow rate of flow.
TP 11	1.75	1.75m bgl, Trickle rate of flow.
TP 12	2.00	2.00m bgl, Fast rate of flow.
TP 13	1.90, 2.80	1.90m bgl, Slow rate of flow. 2.80m bgl Fast rate of flow.
TP SA01	1.90	1.90m, Fast rate of flow.
TP SA02	-	None encountered.
BH01	-	Standpipe installed
BH02	-	-
BH03	-	Standpipe installed
BH04	-	-

The groundwater regime should be assessed from monitoring standpipes where available. Two (2) number 50mm dia. HDPE standpipe wells were constructed to allow for groundwater monitoring at exploratory locations: BH01 and BH03.

Location	Response zones, m bgl		Diameter, mm	Pipe Type
	from	to		
BH01	0.00	2.00	50	PLAIN
	2.00	7.40	50	SLOTTED
BH03	0.00	3.50	50	PLAIN
	3.50	8.90	50	SLOTTED

A series of groundwater levels were obtained immediately after the period of fieldworks and are presented below.

Standpipe ref	Groundwater level, m bgl					
	21/05/2025	dd/mm/yyyy	dd/mm/yyyy	dd/mm/yyyy	dd/mm/yyyy	dd/mm/yyyy
BH01	2.0					
BH03	1.8					

Should there be any queries in relation to the data collected and presented herein, please do not hesitate to contact our office.

Yours sincerely,
For **Priority Geotechnical**,



Greg Hayes BE MEngSc PGDip Rck.Mech CEng MIEI
Geotechnical Specialist

This report has been prepared for the Employer Galway County Council and their Representative, Coyle Kennedy, as outline, herein.

The information provided should not be used by Third Parties without their prior written permission and notification to PGL or possible Third Party liabilities.

The contents of this report have been presented based on the scope of works. Where additional information becomes available the contents of this report may be subject to change.

No responsibility can be held by PGL for ground conditions between exploratory locations. The exploratory logs provide for ground profiles and configuration of strata relevant to the investigation depths achieved during the fieldworks. Caution shall be taken when extrapolating between such exploratory locations.

No account has been taken of potential subsidence or ground movement due to mineral extraction, mining works or karstification below or in proximity to the site, unless specifically addressed.

KEY TO SYMBOLS ON EXPLORATORY HOLE RECORDS

All linear dimensions are in metres or millimetres

DESCRIPTIONS

** Drillers Description
Friable Easily crumbled

SAMPLES

U() Undisturbed 102mm diameter sample, () denotes number of blows to drive sampler
U()F, U()P F- not recovered, P-partially recovered
U38 Undisturbed 38mm diameter sample
P(F), (P) Piston sample - disturbed
B Bulk sample - disturbed
D Jar Sample - disturbed
W Water Sample
CBR California Bearing Ratio mould sample
ES Chemical Sample for Contamination Analysis
SPTLS Standard Penetration Test S lump sample from split sampler

CORE RECOVERY AND ROCK QUALITY

TCR Total Core Recovery (% of Core Run)
SCR Solid Core Recovery (length of core having at least one full diameter as % of core run)
RQD Rock Quality Designation (length of solid core greater than 100mm as % of core run)
Where there is insufficient space for the TCR, SCR and RQD, the results may be found in the remarks column
If Fracture Spacing in mm (Minimum/Average/Maximum) NI - non intact, NR - no recovery
AZCL Assumed Zone of Core Loss
NI Non intact

GROUNDWATER

▽ Groundwater strike
▼ Groundwater level after standing period
Date/Water Date of shift (day/month)/Depth to water at end of previous shift shown above the date and depth to water at beginning of shift given below the date

INSITU TESTING

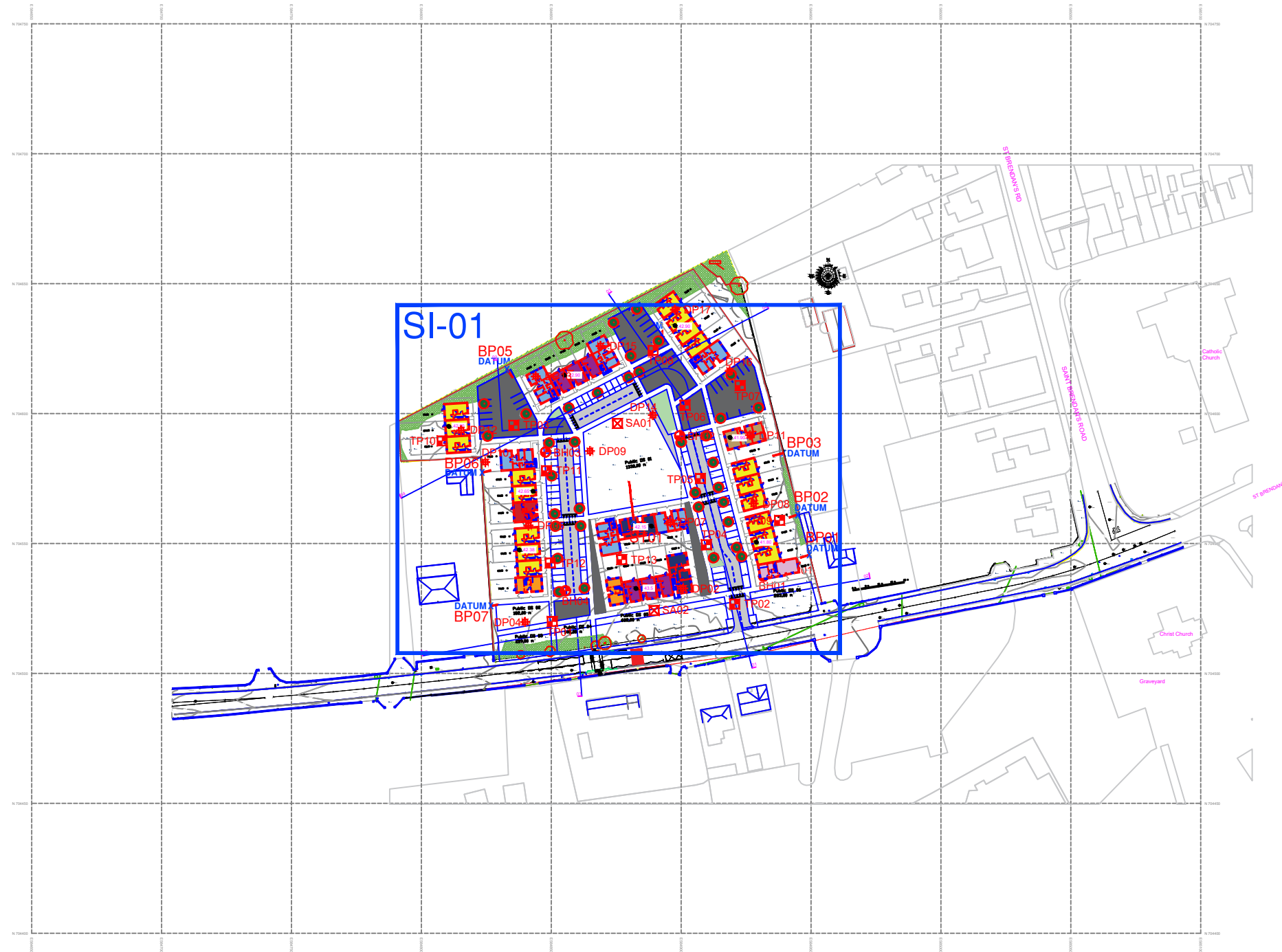
S Standard Penetration Test - split barrel sampler
C Standard Penetration Test - solid 60° cone
SW Self Weight Penetration
Ivp, HVp (R) In Situ Vane Test, Hand Vane Test (R) demonstrates remoulded strength
K(F), (C), (R), (P) Permeability Test
HP Hand Penetrometer Test

MEASURED PROPERTIES

N Standard Penetration Test - blows required to drive 300mm after seating drive
x/y Denotes x blows for y mm within the Standard Penetration Test
x*/y Denotes x blows for y mm within the seating drive
 c_u Undrained Shear Strength (kN/m²)
CBR California Bearing Ratio

ROTARY DRILLING SIZES

Index Letter	Nominal Diameter (mm)	
	Borehole	Core
N	75	54
H	99	76
P	120	92
S	146	113



Portumna Housing

Exploratory Location Layout

P25032

P25032-SI-A

Gary Curtin

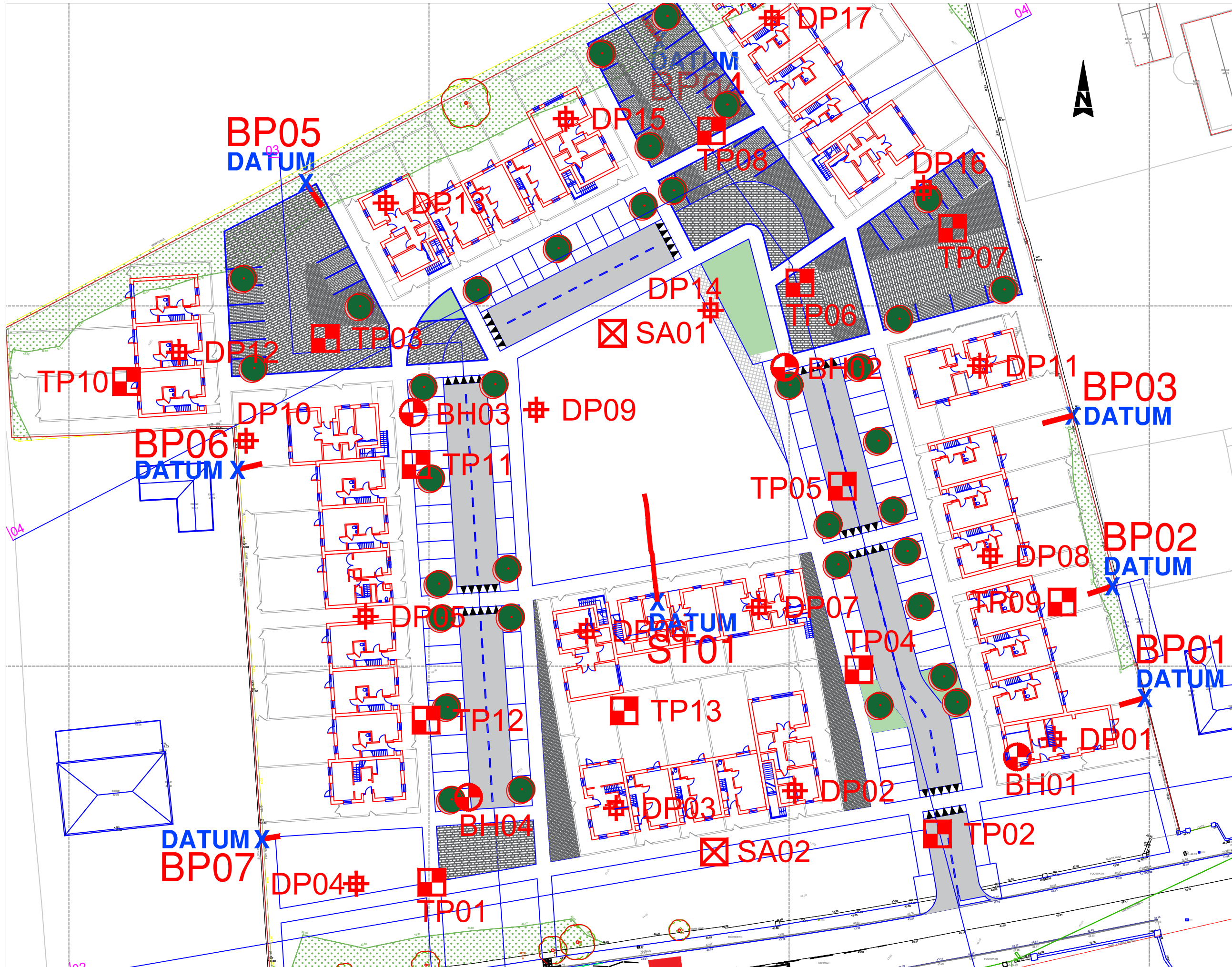
28/04/2025

1:2000 ON A3

GH

D01





KEY:

- BP00 Denotes Boundary Pit and Datum location
- ST00 Denotes Slit Trench and Datum location
- TP00 Denotes Trial Pit location
- SA00 Denotes Soakaway location

JOB NAME:

Portumna Housing

Sheet Title:

Exploratory Location Layout

JOB NUMBER:

P25032

DRAWING NUMBER:

P25032-SI-01

DRAWN BY:

Gary Curtin

DATE:

28/04/2025

SCALE:

1:500 ON A3

APPROVED:

GH

REVISION:

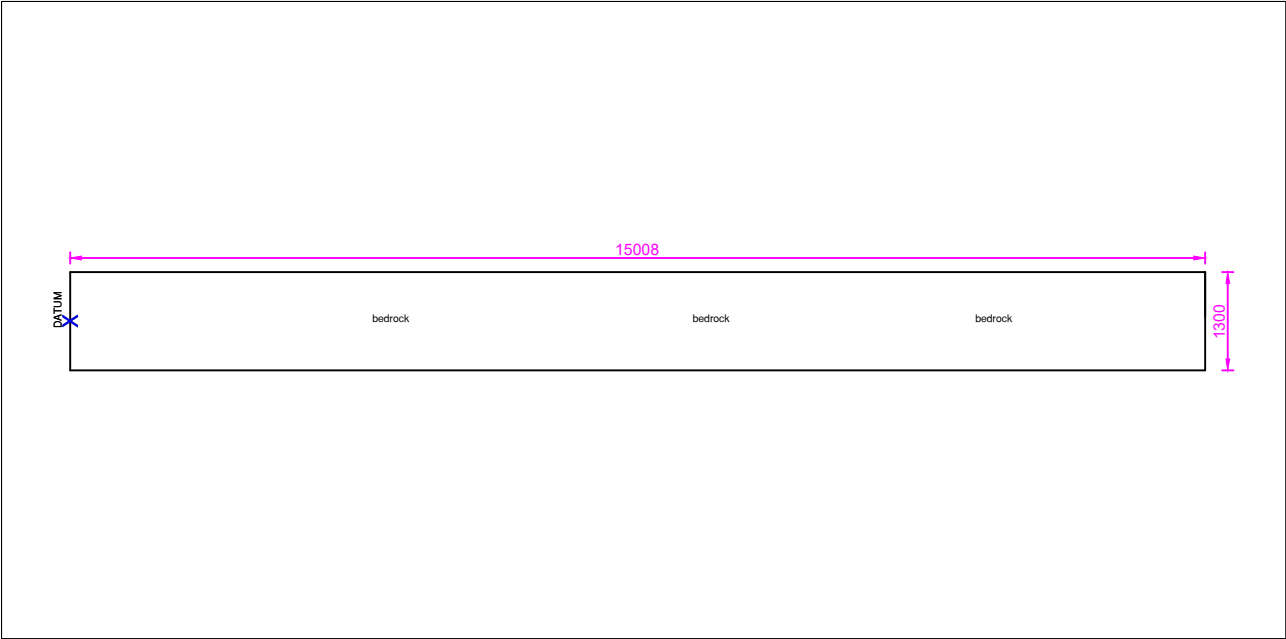
D01



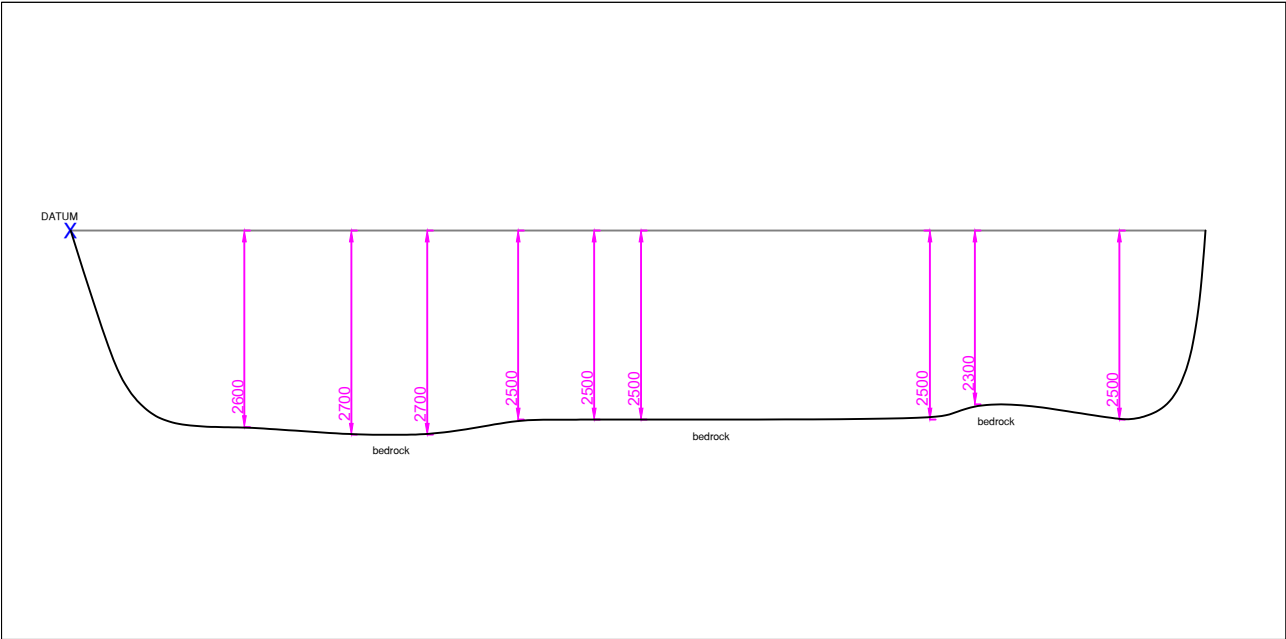
		Priority Geotechnical Ltd. Tel: 021 4631600 Fax: 021 4638690 www.prioritygeotechnical.ie			Trial Pit No ST 01 Sheet 1 of 1	
Project Name: Portumna Social Housing - Site Investigation		Project No. P25032	Co-ords: 584882E - 704559N Level: 41.84m OD		Date 03/03/2025	
Location: Co. Galway			Dimensions (m): 1:30		Scale 1:25	
Client: Galway County Council			Depth: 2.70m BGL		Logged DOC	

Water Strike & Backfill	Samples & In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description	
	Depth (m)	Type	Results					
				0.20	41.64		(TOPSOIL).	
				1.10	40.74		Firm, orangey brown, slightly sandy gravelly SILT. Sand is fine to coarse. Gravel is fine to coarse and angular to sub-angular.	1
				1.10	40.74		Blueish grey, clayey very gravelly SAND with low boulder content. Sand is fine to coarse. Gravel is fine to coarse and angular to sub-rounded. Boulders are sub-angular to sub-rounded, shale lithology and 200-350mm in diameter.	2
	2.60	B		2.70	39.14		End of Pit at 2.700m	3
								4
								5

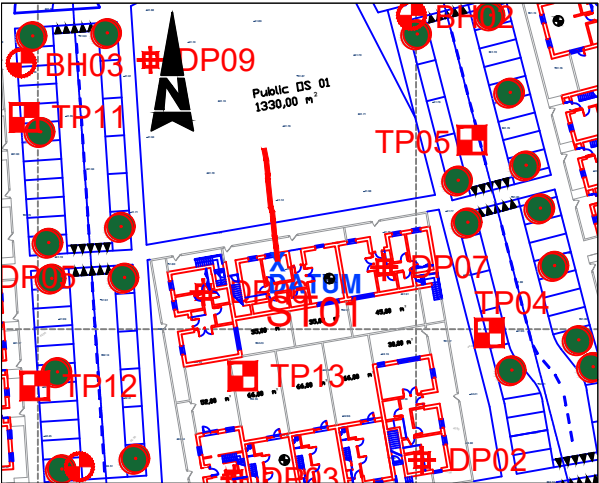
Stability: Good Plant: 13t track machine Backfill: Arisings.		Groundwater: 1.90m bgl, Steady rate of flow.	
Remarks: Trench terminated at 0.60m bgl, refusal. Refer to DWG, job number P25032 st number ST1, for cross section and detail.			



SLIT TRENCH PLAN, 1:100 ON A4



SLIT TRENCH SECTION, 1:100 ON A4



SLIT TRENCH LOCATION PLAN, NTS on A4

DATUM COORDINATES: EASTING: 584881.7 NORTHING: 704559.0 LEVEL: 41.839mAOD		SLIT TRENCH NUMBER: ST01
KEY: DATUM: X		JOB NAME: Portumna Housing
SLIT TRENCH DIMENSIONS: LENGTH: 15.00m WIDTH: 1.30m DEPTH: 2.70m		JOB NUMBER: P25032
STRATA SHOWN ON DETAILED LOG		DRAWING NUMBER: P25032-ST01
DRAWN BY: Gary Curtin	DATE: 06/03/2025	
LOGGED BY: D.O'C.	DATE: 28/02/2025	
SCALE: AS STATED	APPROVED: GH	
	REVISION: D01	



Number:

ST01

Project
Project No
Engineer

Portumna Housing
P25032
Coyle Kennedy



Number:

ST01

Project
Project No
Engineer

Portumna Housing
P25032
Coyle Kennedy



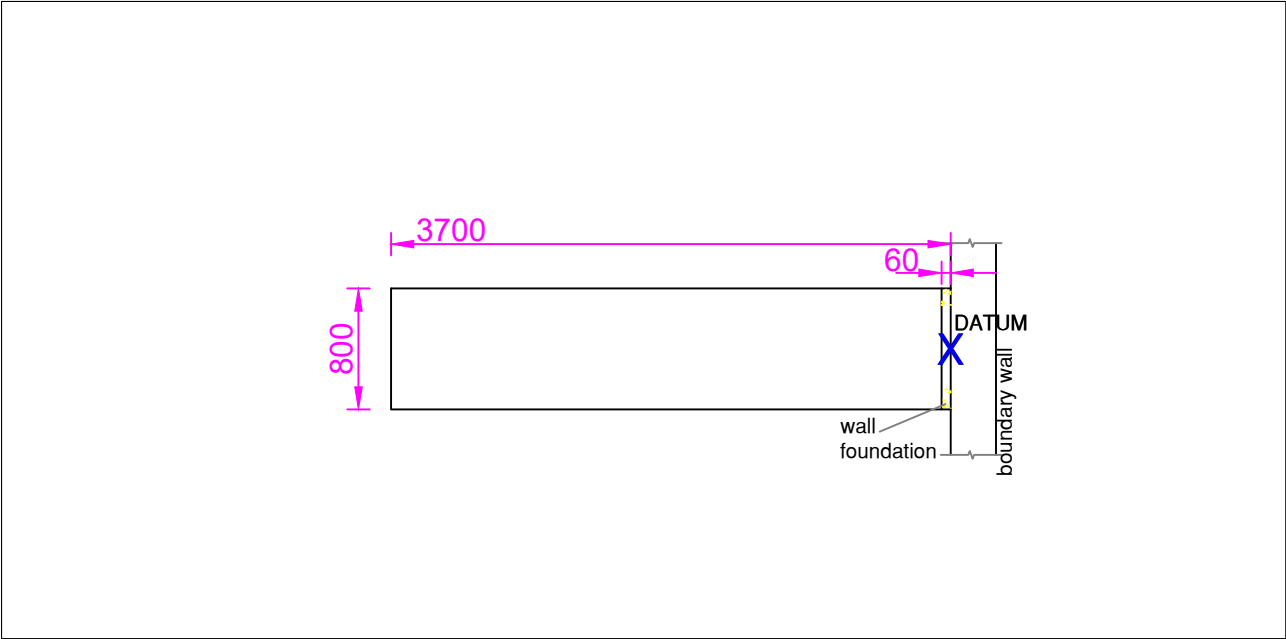
Number:

ST01

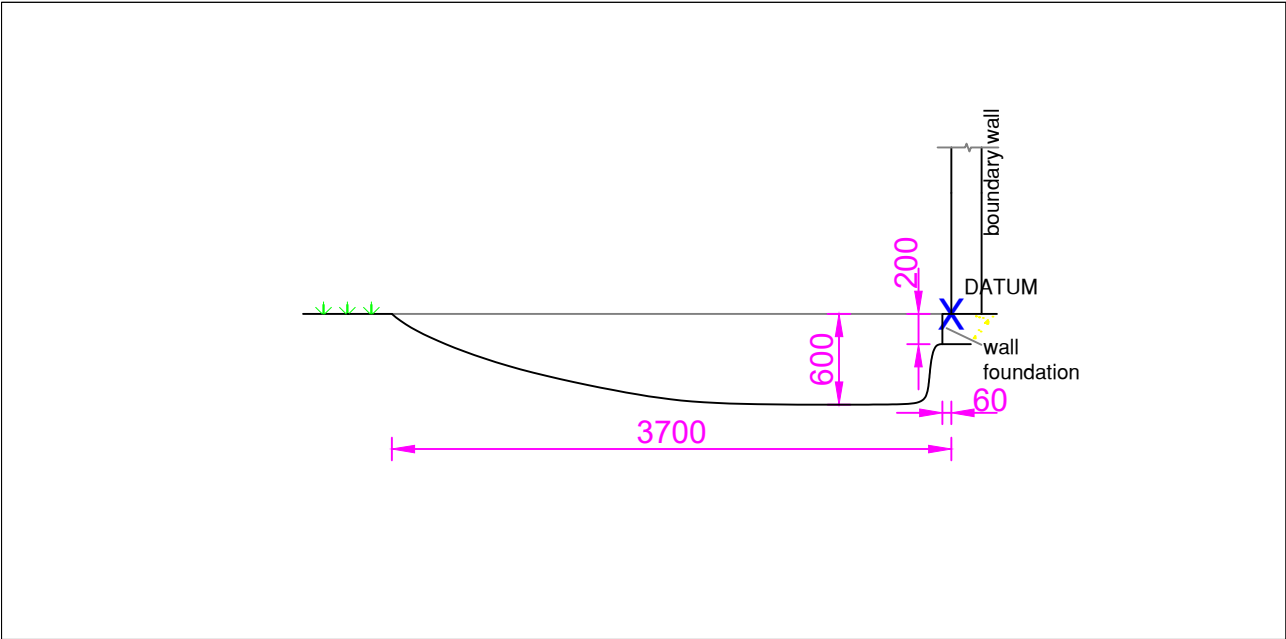
Project
Project No
Engineer

Portumna Housing
P25032
Coyle Kennedy

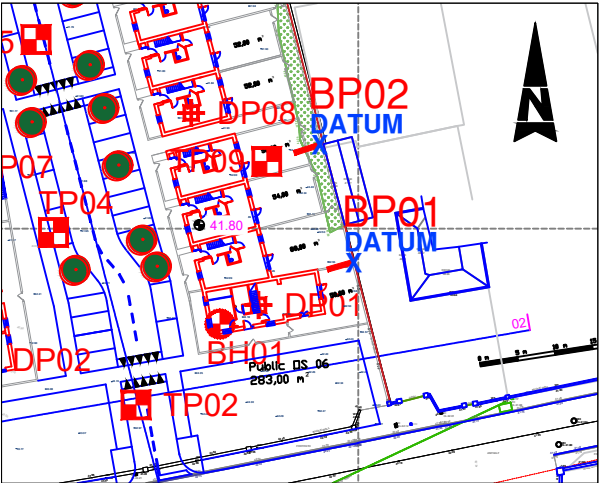
		Priority Geotechnical Ltd. Tel: 021 4631600 Fax: 021 4638690 www.prioritygeotechnical.ie			Trial Pit No BP 01 Sheet 1 of 1		
Project Name: Portumna Social Housing - Site Investigation		Project No. P25032		Co-ords: 584949E - 704546N Level: 42.74m OD		Date 28/02/2025	
Location: Co. Galway				Dimensions (m): 3.70 0.50		Scale 1:25	
Client: Galway County Council				Depth: 0.60m BGL		Logged DOC	
Water Strike & Backfill	Samples & In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description
	Depth (m)	Type	Results				
	0.60	B		0.30	42.44		(MADE GROUND). Soft, greyish brown, sandy gravelly CLAY with high organic matter and waste materials (glass, plastic). Sand is fine to coarse. Gravel is fine to medium and angular to sub-rounded.
				0.60	42.14		Firm, reddish brown, slightly sandy gravelly SILT with low cobble content. Sand is fine to coarse. Gravel is fine to coarse and sub-angular to sub-rounded. Cobbles are sub-angular to sub-rounded, limestone lithology and 63-100mm in diameter. End of Pit at 0.600m
1 2 3 4 5							
Stability: Good Plant: 13t track machine Backfill: Arisings.					Groundwater: None encountered.		
Remarks: Trench terminated at 0.60m bgl, Refer to DWG, job number P25032 st number BP01, for cross section and detail.							



BOUNDARY PIT PLAN, 1:50 ON A4



BOUNDARY PIT SECTION, 1:50 ON A4



BOUNDARY PIT LOCATION PLAN, 1:1000 ON A4

DATUM COORDINATES: EASTING: 584949.4 NORTHING: 704545.6 LEVEL: 42.74m AOD		BOUNDARY PIT NUMBER: BP01
KEY: DATUM: X		JOB NAME: Portumna Housing
BOUNDARY PIT DIMENSIONS: LENGTH: 3.20m WIDTH: 0.80m DEPTH: 0.60m		JOB NUMBER: P25032
STRATA SHOWN ON DETAILED LOG		DRAWING NUMBER: P25032-BP01
DRAWN BY: Gary Curtin	DATE: 06/03/2025	
LOGGED BY: D.O'C.	DATE: 28/02/2025	
SCALE: AS STATED	APPROVED: GH	



Number:

BP01

Project
Project No
Engineer

Portumna Housing
P25032
Coyle Kennedy



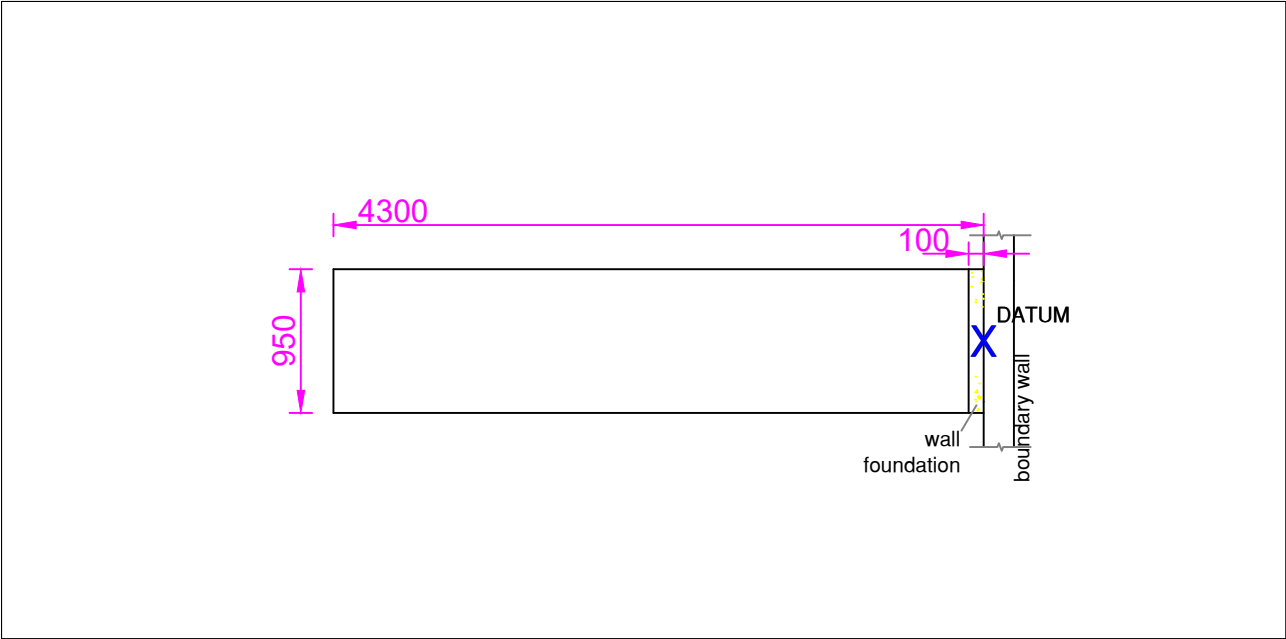
Number:

BP01

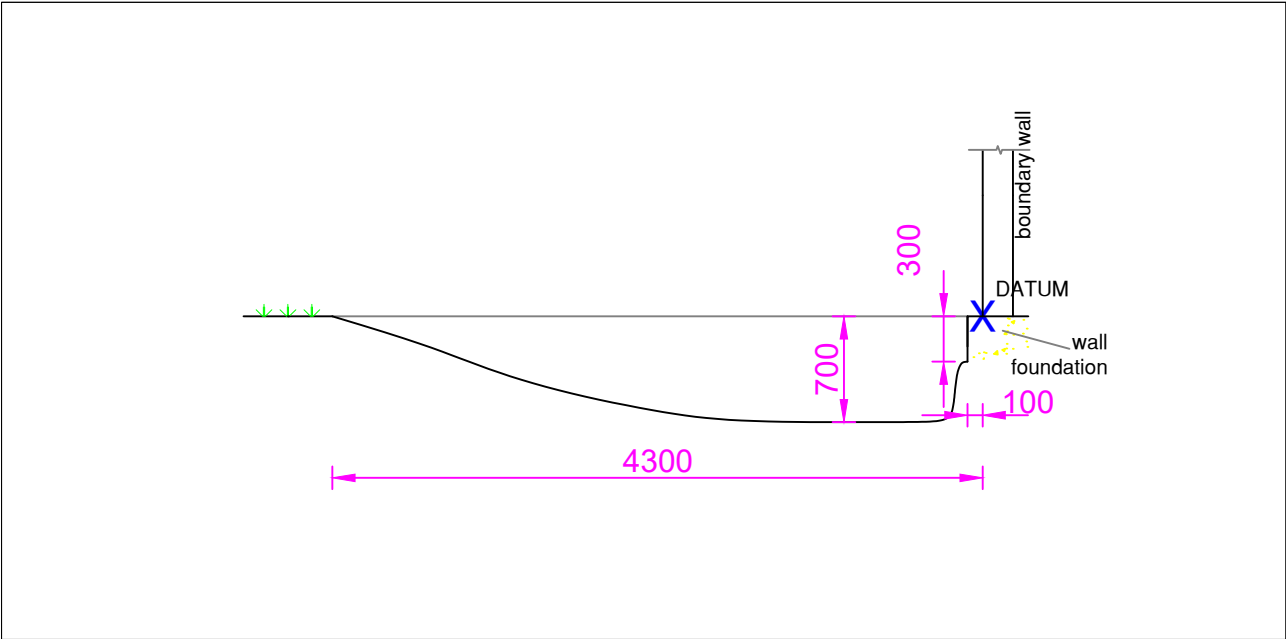
Project
Project No
Engineer

Portumna Housing
P25032
Coyle Kennedy

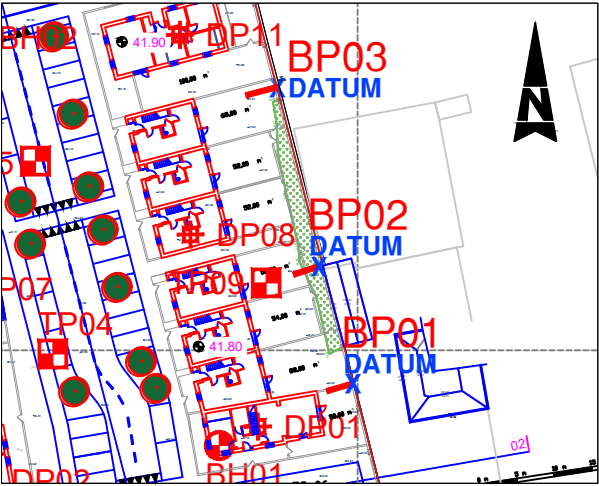
		Priority Geotechnical Ltd. Tel: 021 4631600 Fax: 021 4638690 www.prioritygeotechnical.ie			Trial Pit No BP 02 Sheet 1 of 1			
Project Name: Portumna Social Housing - Site Investigation		Project No. P25032		Co-ords: 584945E - 704561N Level: 42.38m OD		Date 28/02/2025		
Location: Co. Galway				Dimensions (m): 4.30 0.95		Scale 1:25		
Client: Galway County Council				Depth: 0.70m BGL		Logged DOC		
Water Strike & Backfill	Samples & In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description	
	Depth (m)	Type	Results					
				0.20	42.18	 	Topsoil; soft, dark brown, slightly gravelly CLAY with high organic content. Gravel is fine and sub-angular to sub-rounded.	
	0.70	B		0.70	41.68		Firm, brown, slightly sandy gravelly SILT with low boulder content. Sand is fine to coarse. Gravel is fine to coarse and sub-angular to sub-rounded, Boulders are sub-angular to rounded, limestone lithology and 200-236mm in diameter.	
							End of Pit at 0.700m	
							1	
							2	
							3	
							4	
							5	
Stability: Good Plant: 13t track machine Backfill: Arisings.				Groundwater: None encountered.				
Remarks: Trench terminated at 0.70m bgl, Refer to DWG, job number P25032 st number BP02, for cross section and detail.								



BOUNDARY PIT PLAN, 1:50 ON A4



BOUNDARY PIT SECTION, 1:50 ON A4



BOUNDARY PIT LOCATION PLAN, 1:1000 on A4

DATUM COORDINATES: EASTING: 584944.9 NORTHING: 704561.1 LEVEL: 42.381mAOD		BOUNDARY PIT NUMBER: BP02
KEY: DATUM: X		JOB NAME: Portumna Housing
BOUNDARY PIT DIMENSIONS: LENGTH: 4.30m WIDTH: 0.95m DEPTH: 0.70m		JOB NUMBER: P25032
STRATA SHOWN ON DETAILED LOG		DRAWING NUMBER: P25032-BP02
DRAWN BY: Gary Curtin	DATE: 06/03/2025	
LOGGED BY: D.O'C.	DATE: 28/02/2025	
SCALE: AS STATED	APPROVED: GH	
REVISION: D01		



Number:

BP02

Project
Project No
Engineer

Portumna Housing
P25032
Coyle Kennedy

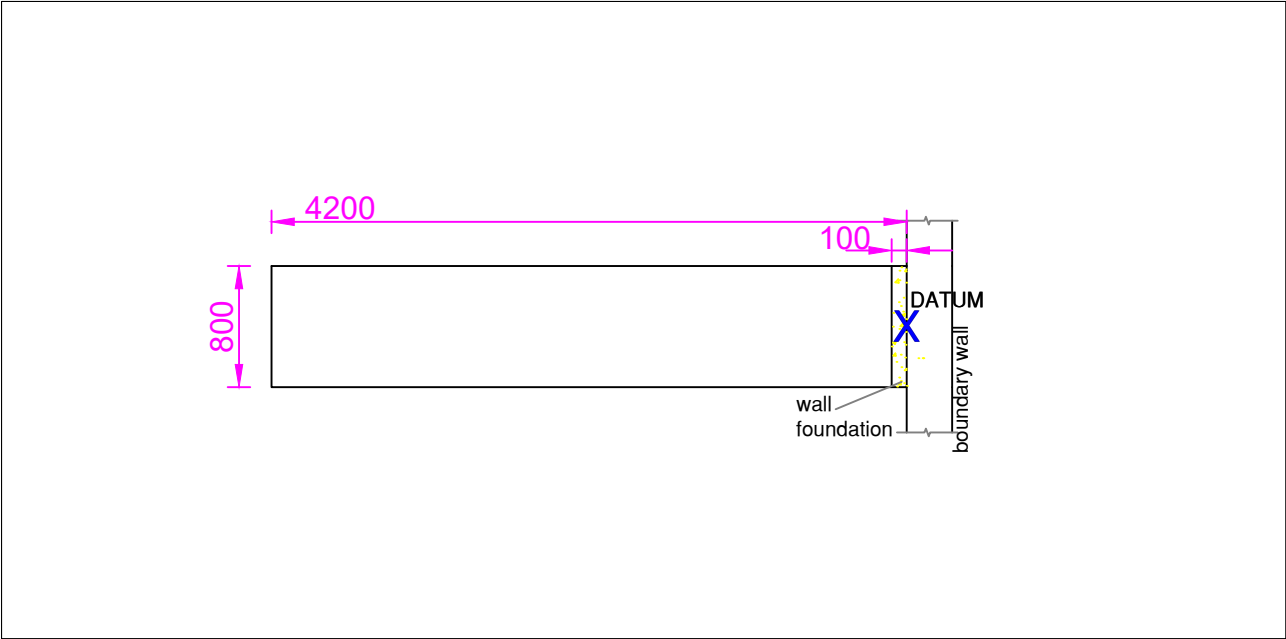


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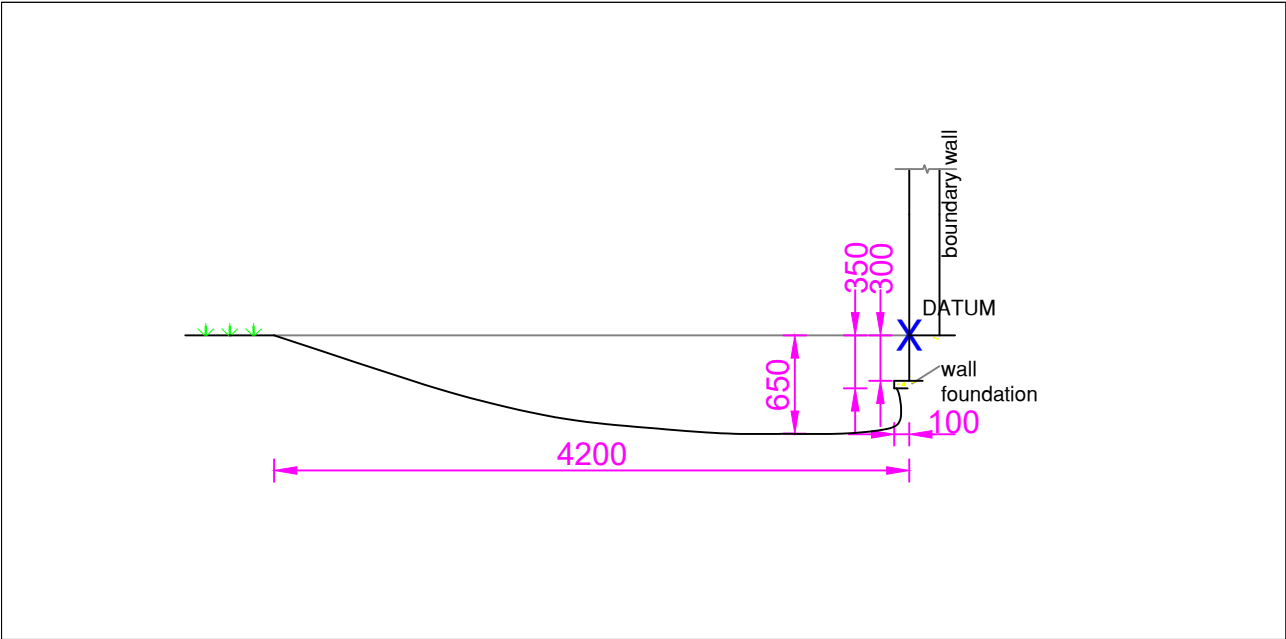
BP02

Project
Project No
Engineer

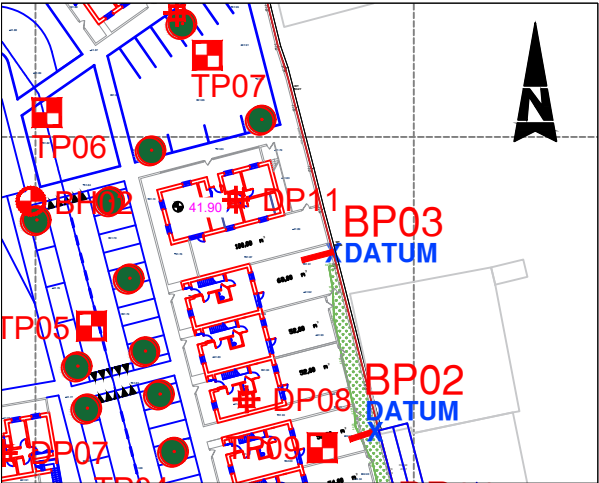
Portumna Housing
P25032
Coyle Kennedy



BOUNDARY PIT PLAN, 1:50 ON A4



BOUNDARY PIT SECTION, 1:50 ON A4



BOUNDARY PIT LOCATION PLAN, 1:1000 on A4

DATUM COORDINATES: EASTING: 584939.4 NORTHING: 7045684.8 LEVEL: 42.076mAOD		BOUNDARY PIT NUMBER: BP03
KEY: DATUM: X		JOB NAME: Portumna Housing
BOUNDARY PIT DIMENSIONS: LENGTH: 4.20m WIDTH: 0.80m DEPTH: 0.65m		JOB NUMBER: P25032
STRATA SHOWN ON DETAILED LOG		DRAWING NUMBER: P25032-BP03
DRAWN BY: Gary Curtin	DATE: 06/03/2025	
LOGGED BY: D.O'C.	DATE: 28/02/2025	
SCALE: AS STATED	APPROVED: GH	
	REVISION: D01	



Number:

BP03

Project
Project No
Engineer

Portumna Housing
P25032
Coyle Kennedy



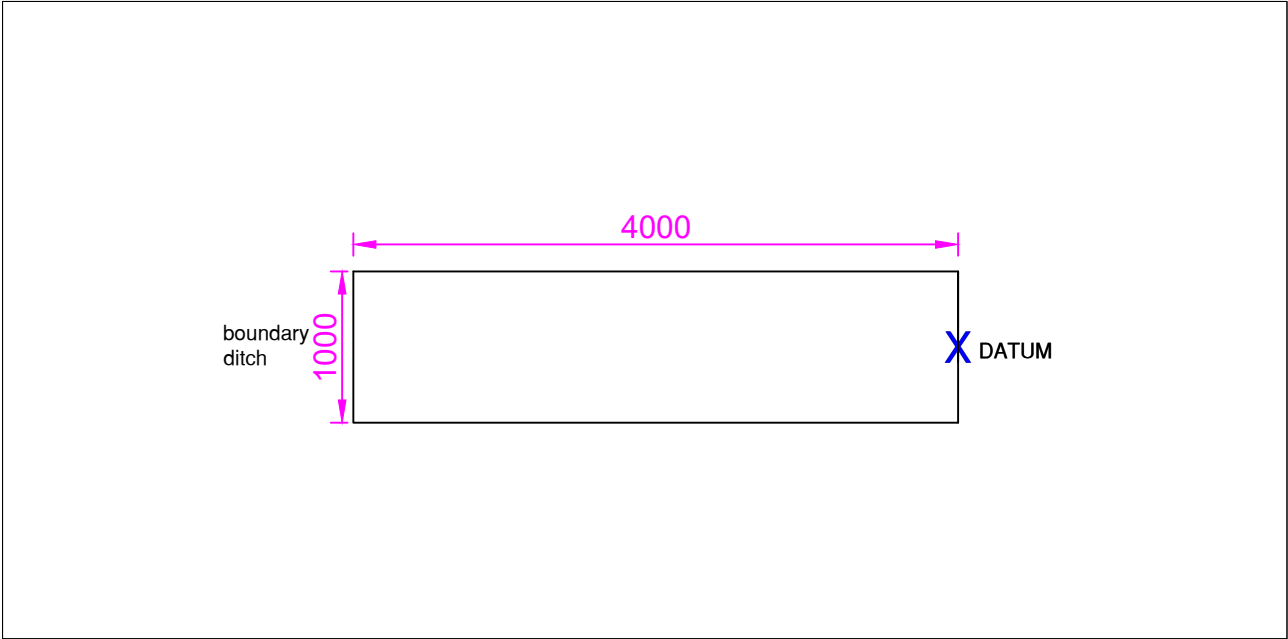
Number:

BP03

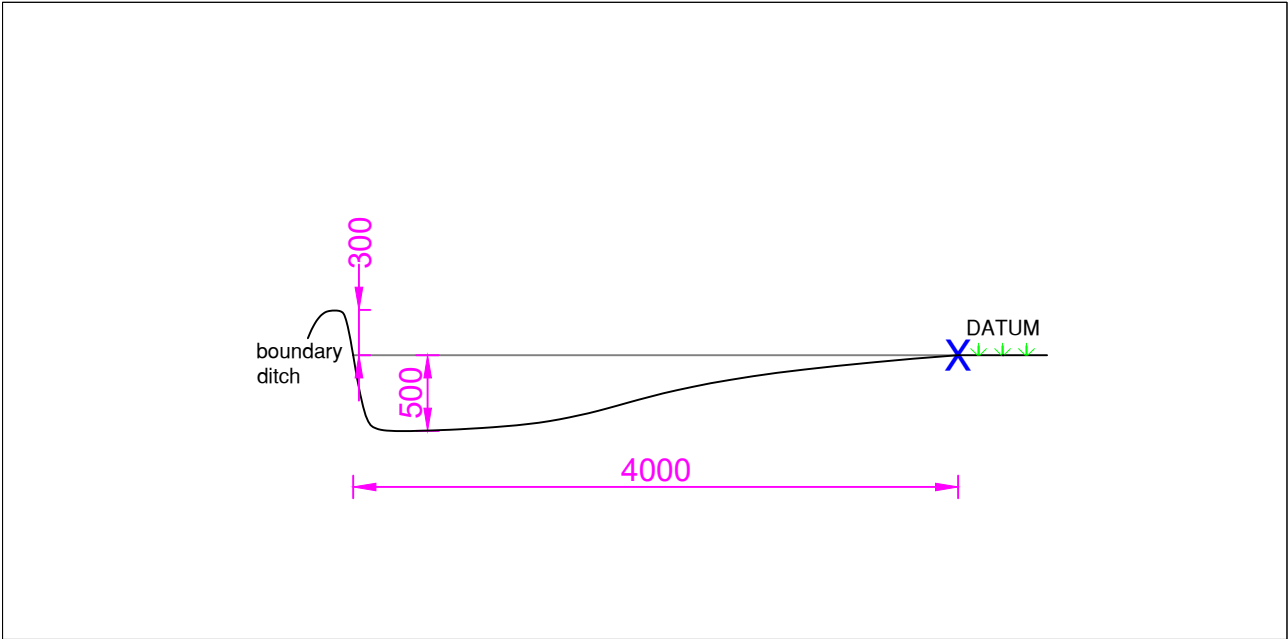
Project
Project No
Engineer

Portumna Housing
P25032
Coyle Kennedy

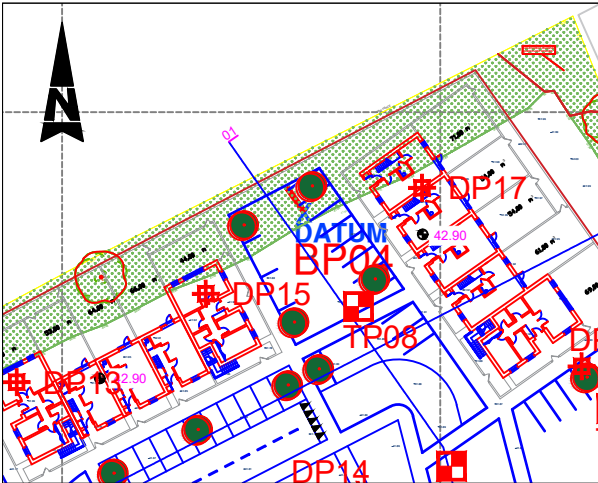
		Priority Geotechnical Ltd. Tel: 021 4631600 Fax: 021 4638690 www.prioritygeotechnical.ie			Trial Pit No BP 04 Sheet 1 of 1			
Project Name: Portumna Social Housing - Site Investigation		Project No. P25032		Co-ords: 584882E - 704637N Level: 42.05m OD		Date 28/02/2025		
Location: Co. Galway				Dimensions (m): 4.00 1.00		Scale 1:25		
Client: Galway County Council				Depth: 0.50m BGL		Logged DOC		
Water Strike & Backfill	Samples & In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description	
	Depth (m)	Type	Results					
	0.50	B		0.50	41.55		Soft, dark brown, gravelly SILT with low boulder content and high organic content. Gravel is fine to coarse and sub-angular to rounded. Boulders are sub-angular to sub-rounded, limestone lithology and 200-350mm in diameter.	
							End of Pit at 0.500m	
							1	
							2	
							3	
							4	
							5	
Stability: Good Plant: 13t track machine Backfill: Arisings.					Groundwater: None encountered.			
Remarks: Trench terminated at 0.50m bgl, Refer to DWG, job number P25032 st number BP04, for cross section and detail.								



BOUNDARY PIT PLAN, 1:50 ON A4



BOUNDARY PIT SECTION, 1:50 ON A4



BOUNDARY PIT LOCATION PLAN, 1:1000 on A4

DATUM COORDINATES: EASTING: 584939.4 NORTHING: 7045684.8 LEVEL: 42.076mAOD		BOUNDARY PIT NUMBER: BP04
KEY: DATUM: X		JOB NAME: Portumna Housing
BOUNDARY PIT DIMENSIONS: LENGTH: 4.00m WIDTH: 1.00m DEPTH: 0.50m		JOB NUMBER: P25032
STRATA SHOWN ON DETAILED LOG		DRAWING NUMBER: P25032-BP04
DRAWN BY: Gary Curtin	DATE: 06/03/2025	
LOGGED BY: D.O'C.	DATE: 28/02/2025	
SCALE: AS STATED	APPROVED: GH	
REVISION: D01		



Number:

BP04

Project
Project No
Engineer

Portumna Housing
P25032
Coyle Kennedy



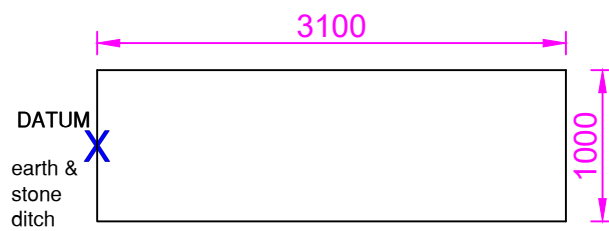
Number:

BP04

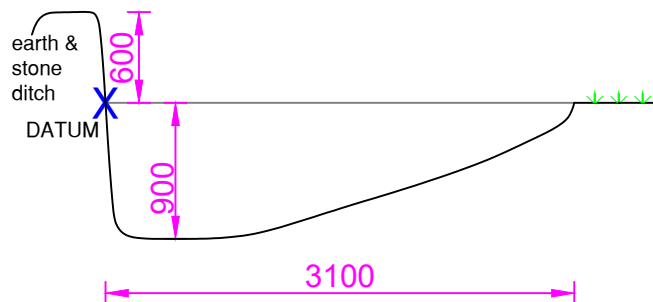
Project
Project No
Engineer

Portumna Housing
P25032
Coyle Kennedy

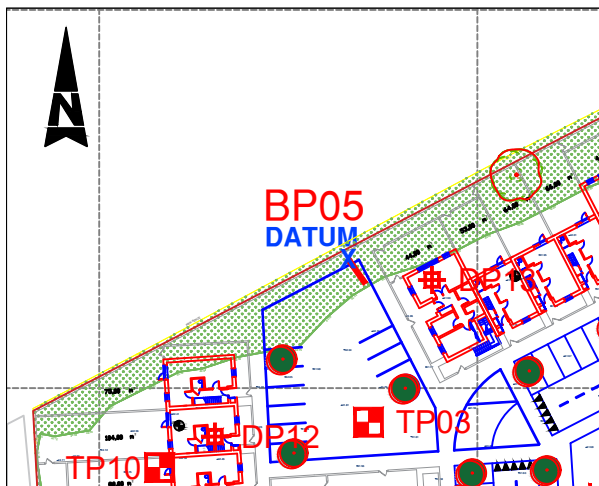
		Priority Geotechnical Ltd. Tel: 021 4631600 Fax: 021 4638690 www.prioritygeotechnical.ie			Trial Pit No BP 05 Sheet 1 of 1			
Project Name: Portumna Social Housing - Site Investigation		Project No. P25032		Co-ords: 584833E - 704617N Level: 42.59m OD		Date 28/02/2025		
Location: Co. Galway				Dimensions (m): 3.10 1.00		Scale 1:25		
Client: Galway County Council				Depth: 0.90m BGL		Logged DOC		
Water Strike & Backfill	Samples & In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description	
	Depth (m)	Type	Results					
	0.50	B		0.20	42.39		(TOPSOIL). Dark brown, slightly sandy gravelly CLAY with high organic content. Sand is fine to coarse. Gravel is fine to coarse and sub-angular to sub-rounded. Firm, brown, slightly sandy slightly gravelly SILT with organic content. Sand is fine to coarse. Gravel is fine to coarse and angular to rounded.	
				0.90	41.69		End of Pit at 0.900m	1
								2
								3
								4
								5
Stability: Good Plant: 13t track machine Backfill: Arisings.					Groundwater: None encountered.			
Remarks: Trench terminated at 0.90m bgl, Refer to DWG, job number P25032 st number BP05, for cross section and detail.								



BOUNDARY PIT PLAN, 1:50 ON A4



BOUNDARY PIT SECTION, 1:50 ON A4



BOUNDARY PIT LOCATION PLAN, 1:1000 on A4

DATUM COORDINATES: EASTING: 584832.9 NORTHING: 704617.1 LEVEL: 42.589mAOD		BOUNDARY PIT NUMBER: BP05
KEY: DATUM: X		JOB NAME: Portumna Housing
BOUNDARY PIT DIMENSIONS: LENGTH: 3.10m WIDTH: 1.00m DEPTH: 0.90m		JOB NUMBER: P25032
STRATA SHOWN ON DETAILED LOG		DRAWING NUMBER: P25032-BP05
DRAWN BY: Gary Curtin	DATE: 06/03/2025	
LOGGED BY: D.O'C.	DATE: 28/02/2025	
SCALE: AS STATED	APPROVED: GH	
REVISION: D01		



Number:

BP05

Project
Project No
Engineer

Portumna Housing
P25032
Coyle Kennedy



Number:

BP05

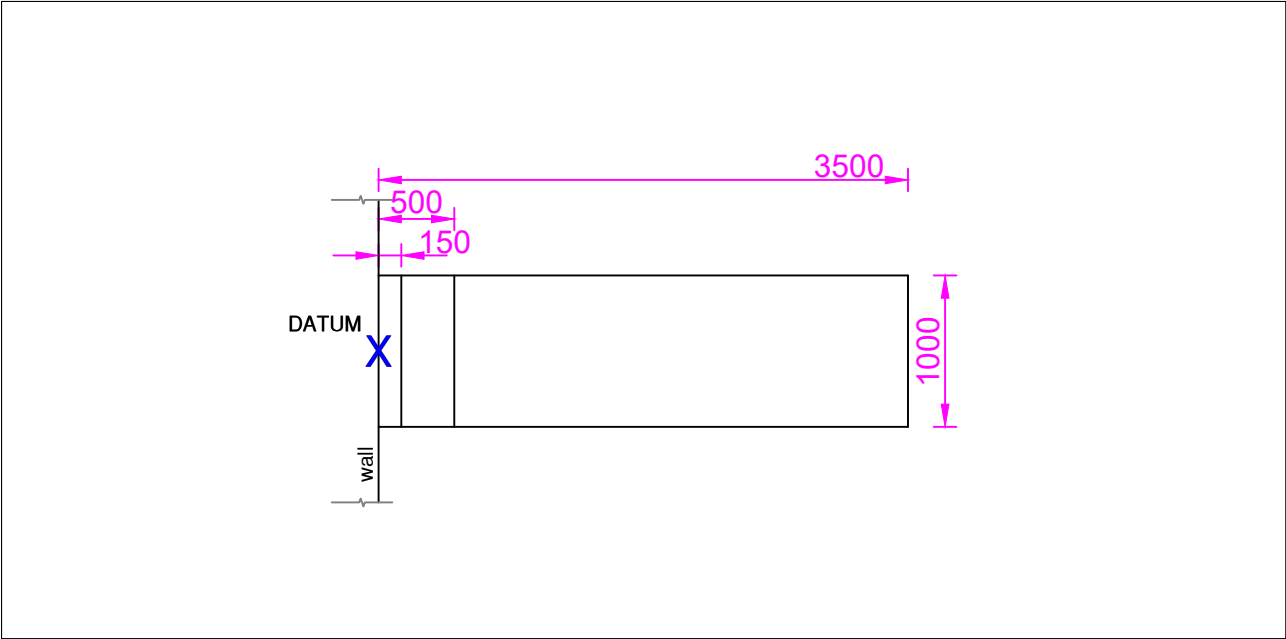
Project
Project No
Engineer

Portumna Housing
P25032
Coyle Kennedy

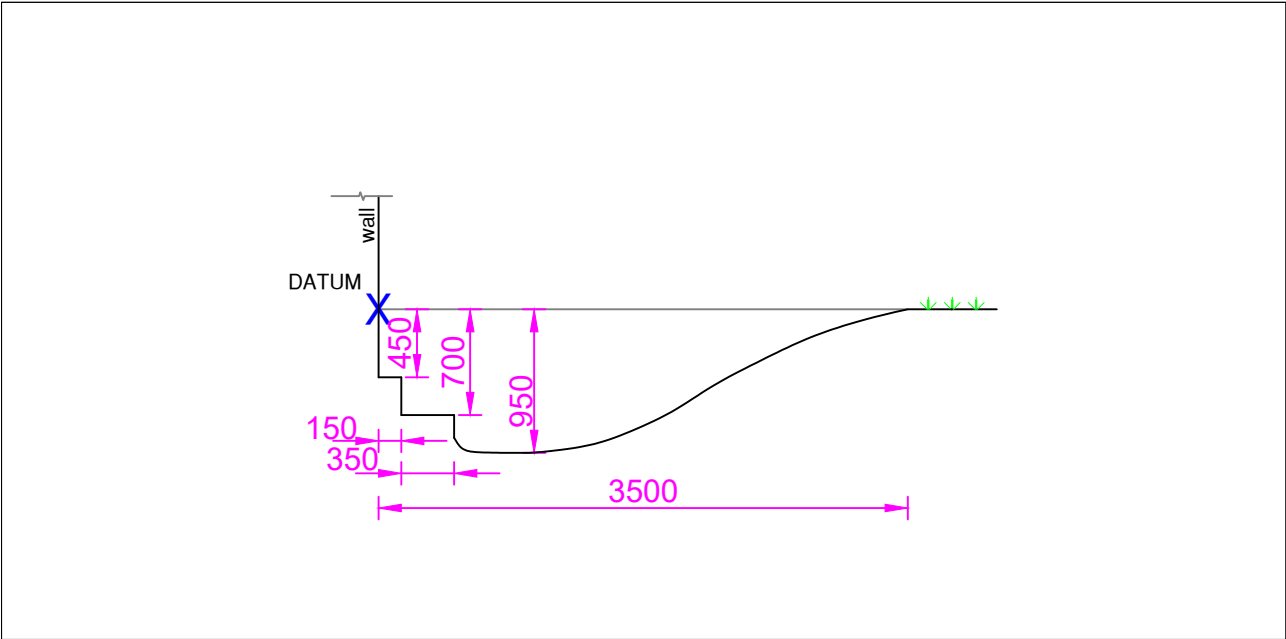
		Priority Geotechnical Ltd. Tel: 021 4631600 Fax: 021 4638690 www.prioritygeotechnical.ie				Trial Pit No BP 06 Sheet 1 of 1	
Project Name: Portumna Social Housing - Site Investigation		Project No. P25032		Co-ords: 584823E - 704577N Level: 42.05m OD		Date 28/02/2025	
Location: Co. Galway				Dimensions (m): 1.00 3.50		Scale 1:25	
Client: Galway County Council				Depth: 0.95m BGL		Logged DOC	

Water Strike & Backfill	Samples & In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description	
	Depth (m)	Type	Results					
	0.80	B		0.95	41.10		(MADE GROUND). Brown, sandy gravelly CLAY with organic content and waste materials (plastic, cloth). Sand is fine to coarse. Gravel is fine and sub-angular to sub-rounded.	1
							End of Pit at 0.950m	2
								3
								4
								5

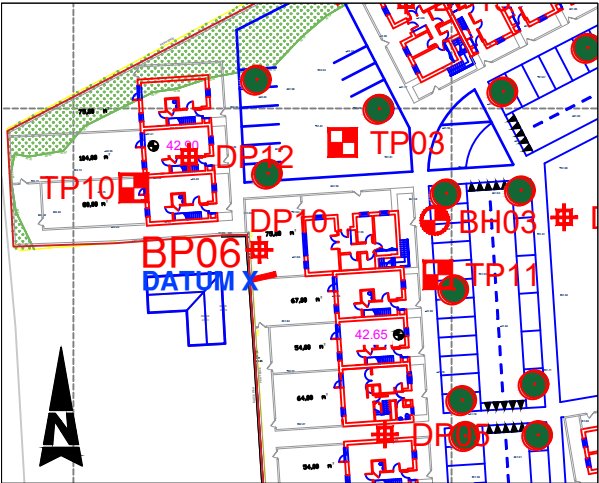
Stability: Good Plant: 13t track machine Backfill: Arisings.		Groundwater: None encountered.
Remarks: Trench terminated at 0.95m bgl, Refer to DWG, job number P25032 st number BP06, for cross section and detail.		



BOUNDARY PIT PLAN, 1:50 ON A4



BOUNDARY PIT SECTION, 1:50 ON A4



BOUNDARY PIT LOCATION PLAN, 1:1000 on A4

DATUM COORDINATES: EASTING: 584823.4 NORTHING: 704577.3 LEVEL: 42.053mAOD		BOUNDARY PIT NUMBER: BP06
KEY: DATUM: X		JOB NAME: Portumna Housing
BOUNDARY PIT DIMENSIONS: LENGTH: 3.10m WIDTH: 1.00m DEPTH: 0.90m		JOB NUMBER: P25032
STRATA SHOWN ON DETAILED LOG		DRAWING NUMBER: P25032-BP06
DRAWN BY: Gary Curtin	DATE: 06/03/2025	
LOGGED BY: D.O'C.	DATE: 28/02/2025	
SCALE: AS STATED	APPROVED: GH	
REVISION: D01		



Number:

BP06

Project
Project No
Engineer

Portumna Housing
P25032
Coyle Kennedy

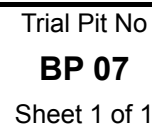


Number:

BP06

Project
Project No
Engineer

Portumna Housing
P25032
Coyle Kennedy

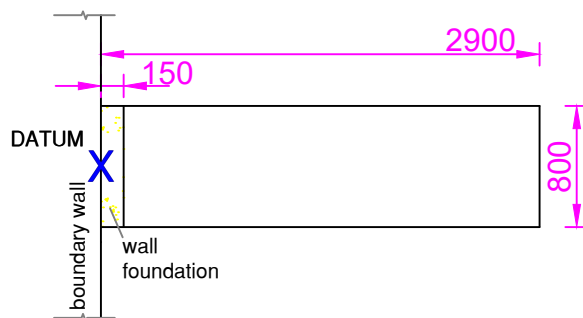


Date
03/03/2025

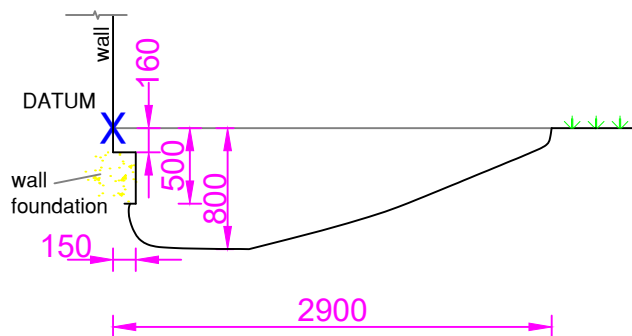
Scale
1:25

Logged
DOC

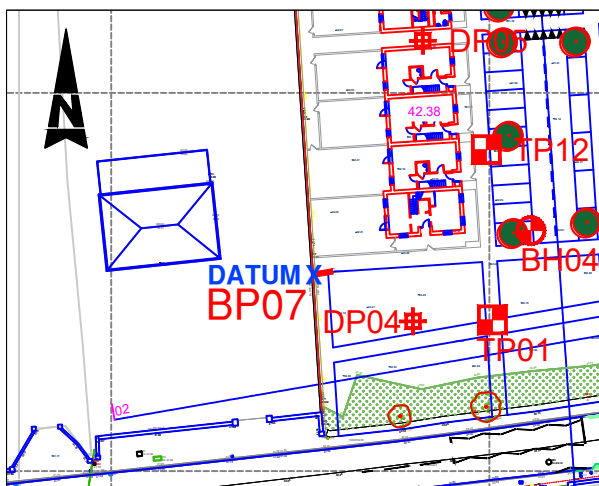
Remarks: Trench terminated at 0.80m bgl. Refer to DWG. job number P25032 st number BP07. for cross section and detail.	
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BOUNDARY PIT PLAN, 1:50 ON A4



BOUNDARY PIT SECTION, 1:50 ON A4



BOUNDARY PIT LOCATION PLAN, 1:1000 on A4

DATUM COORDINATES:
EASTING: 584826.8
NORTHING: 704526.0
LEVEL: 42.246mAOD

BOUNDARY PIT NUMBER:

BP07

JOB NAME:

Portumna Housing

JOB NUMBER:

P25032

DRAWING NUMBER:

P25032-BP07

KEY:
DATUM: X

BOUNDARY PIT DIMENSIONS:
LENGTH: 2.90m
WIDTH: 0.80m
DEPTH: 0.80m

STRATA SHOWN ON DETAILED LOG

DRAWN BY:
Gary Curtin

DATE:
06/03/2025

LOGGED BY:
D.O'C.

DATE:
03/03/2025

SCALE:
AS STATED

APPROVED:
GH

REVISION:
D01





Number:

BP07

Project
Project No
Engineer

Portumna Housing
P25032
Coyle Kennedy



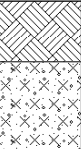
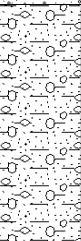
Number:

BP07

Project
Project No
Engineer

Portumna Housing
P25032
Coyle Kennedy

		Priority Geotechnical Ltd. Tel: 021 4631600 Fax: 021 4638690 www.prioritygeotechnical.ie			Trial Pit No TP 01 Sheet 1 of 1	
Project Name: Portumna Social Housing - Site Investigation		Project No. P25032		Co-ords: 584850E - 704520N Level: 42.78m OD		Date 03/03/2025
Location: Co. Galway				Dimensions (m): 3.50 0.80		Scale 1:25
Client: Galway County Council				Depth: 2.70m BGL		Logged DOC

Water Strike & Backfill	Samples & In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description	
	Depth (m)	Type	Results					
				0.20	42.58		(TOPSOIL).	1
				0.50	42.28			
	0.60 0.60	B D					Firm grey, slightly gravelly sandy CLAY with low cobble and boulder contents. Sand is fine to coarse. Gravel is fine to coarse and angular to sub-rounded. Boulders are sub-angular to sub-rounded, limestone lithology and 200-350mm in diameter.	2
	1.30 1.30	B D		1.30	41.48			
	2.40 2.40	B D					GRAVEL dense below 1.9m.	3
			2.70	40.08		End of Pit at 2.700m	4	
								5

Stability: Good Plant: 13t track machine Backfill: Arisings.		Groundwater: 2.1m bgl, Steady rate of flow. 2.6m bgl, Fast rate of flow.
Remarks: Trial pit terminated at 2.70m bgl, refusal on bedrock. DCP carried out here at 0.60m bgl. Groundwater levels monitored on request of client. 12:05, 2.70m bgl. 12:26, 2.46m bgl. 17:40, 2.10m bgl.		

No	Job	Location	Date	Engineer
P25032	03/03/2025	DCP-TP01	03/03/2025	DOC

Drop	Weight	Cone	Correlation
575mm	8kg	60°	TRL DCP

Starting depth mm bgl	Ground level, mOD Malin	Easting	Northing
500	42.775	584850.392	704520.035

Blows	Depth (m bgl)	Penetration (mm)	PenRate (mm/blow)	CBR, % (Kleyn)	CBR, % (TII DN- PAV-03021)
0	0.582	82	-	-	-
1	0.624	42	42	3.6	5.8
1	0.632	8	8	29	34
1	0.645	13	13	16	20
1	0.658	13	13	16	20
1	0.676	18	18	10	14
1	0.693	17	17	11	15
1	0.704	11	11	20	24
1	0.712	8	8	29	34
1	0.725	13	13	16	20
1	0.731	6	6	42	45
1	0.738	7	7	35	39
1	0.740	2	2	170	145
1	0.750	10	10	22	26
1	0.761	11	11	20	24
1	0.764	3	3	102	95
1	0.766	2	2	170	145
1	0.769	3	3	102	95
1	0.778	9	9	25	30
1	0.783	5	5	53	55
1	0.789	6	6	42	45
1	0.797	8	8	29	34
1	0.806	9	9	25	30
1	0.815	9	9	25	30
1	0.829	14	14	14	19
1	0.866	37	37	4.2	6.6

Adjustments	0.71	moderate
	0.5	dry
	0.35	very dry
	0.5	not assessed

Estimated ultimate bearing resistance

393 kPa

Estimated allowable bearing resistance (FoS= 2.5)

157 kPa

Depth, D

0.6 m bgl



Number:

TP01

Project
Project No
Engineer

Portumna Housing
P25032
Coyle Kennedy



Number:

TP01

Project
Project No
Engineer

Portumna Housing
P25032
Coyle Kennedy

		Priority Geotechnical Ltd. Tel: 021 4631600 Fax: 021 4638690 www.prioritygeotechnical.ie			Trial Pit No TP 02 Sheet 1 of 1	
Project Name: Portumna Social Housing - Site Investigation		Project No. P25032	Co-ords: 584921E - 704527N Level: 42.80m OD		Date 02/03/2025	
Location: Co. Galway			Dimensions (m): 0.00 3.60		Scale 1:25	
Client: Galway County Council			Depth: 2.80m BGL		Logged DOC	

Water Strike & Backfill	Samples & In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description		
	Depth (m)	Type	Results						
				0.20	42.60		(TOPSOIL). Firm, dark brown, sandy gravelly CLAY with high organic content. Sand is fine to coarse. Gravel is fine to coarse and angular to sub-rounded. Soft to firm, reddish brown, slightly andy slightly gravelly SILT with low cobble content. Sand is fine to coarse. Gravel is fine to coarse and sub-angular to sub-rounded. Cobbles are sub-rounded, limestone lithology and 63-150mm in diameter.		
	0.50 0.50	B D							
				0.70	42.10				
	1.50 1.50	B D							
				2.20 2.20	B D				
				2.50	40.30		Medium dense grey, slightly clayey sandy GRAVEL with medium boulder content. Sand is fine to coarse. Gravel is fine to coarse and sub-angular to sub-rounded. Boulders are sub-angular to sub-rounded, limestone lithology and >200mm in diameter.		
			2.80	40.00					
							End of Pit at 2.80m		

Stability: Moderate Plant: 13t track machine Backfill: Arisings.		Groundwater: 2.40m bgl, Steady rate of flow. 2.60m bgl, Fast rate of flow.	
Remarks: Trial pit terminated at 2.80m bgl, refusal. Groundwater levels monitored on request of client. 13:10, 2.60m bgl. 17:50, 1.93m bgl.			



Number:

TP02

Project
Project No
Engineer

Portumna Housing
P25032
Coyle Kennedy



Number:

TP02

Project
Project No
Engineer

Portumna Housing
P25032
Coyle Kennedy

 Priority Geotechnical Ltd. Tel: 021 4631600 Fax: 021 4638690 www.prioritygeotechnical.ie						Trial Pit No TP 03 Sheet 1 of 1			
Project Name: Portumna Social Housing - Site Investigation				Project No. P25032		Co-ords: 584836E - 704596N Level: 41.73m OD		Date 03/03/2025	
Location: Co. Galway						Dimensions (m): 1.00 3.10		Scale 1:25	
Client: Galway County Council								Depth: 1.70m BGL	

Water Strike & Backfill	Samples & In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description		
	Depth (m)	Type	Results						
				0.20	41.53		(TOPSOIL). Firm, dark brown, slightly sandy slightly gravelly CLAY with high organic content. Sand is fine to coarse. Gravel is fine and sub-angular to sub-rounded. Soft to firm reddish brown, slightly sandy slightly gravelly SILT. Sand is fine to coarse. Gravel is fine to medium and sub-angular to sub-rounded. <i>Gravel content increases with depth. Dark grey in colour.</i>	1	
				1.50	40.23			Weathered, fractured weak, LIMESTONE-SHALE bedrock (LU, Calp).	
	1.70 1.70	B D		1.70	40.03			End of Pit at 1.700m	2
								3	
								4	
								5	

Stability: Good Plant: 13t track machine Backfill: Arisings.	Groundwater: 1.30m bgl, Fast rate of flow.
Remarks: Trial pit terminated at 2.80m bgl, refusal. Groundwater levels monitored on request of client. 12:10, 1.70m bgl. 12:35, 1.39m bgl. 17:30, 1.19m bgl.	



Number:

TP03

Project
Project No
Engineer

Portumna Housing
P25032
Coyle Kennedy



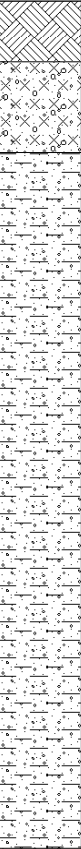
Number:

TP03

Project
Project No
Engineer

Portumna Housing
P25032
Coyle Kennedy

				Priority Geotechnical Ltd. Tel: 021 4631600 Fax: 021 4638690 www.prioritygeotechnical.ie				Trial Pit No TP 04 Sheet 1 of 1	
Project Name: Portumna Social Housing - Site Investigation				Project No. P25032		Co-ords: 584910E - 704550N Level: 42.00m OD		Date 03/03/2025	
Location: Co. Galway						Dimensions (m): 3.40 0.80		Scale 1:25	
Client: Galway County Council						Depth: 2.80m BGL		Logged DOC	

Water Strike & Backfill	Samples & In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description	
	Depth (m)	Type	Results					
	0.20			0.20	41.80		(TOPSOIL). Firm, dark brown, slightly gravelly sandy CLAY with high organic content. Sand is fine to coarse. Gravel is fine and sub-angular to sub-rounded. Firm, reddish brown sandy gravelly SILT with low cobble content. Sand is fine to coarse. Gravel is fine to coarse and sub-angular to sub-rounded. Cobbles are sub-angular, limestone lithology and 63-150mm in diameter. Firm blueish grey, slightly gravelly sandy CLAY with low boulder content. Sand is fine to coarse. Gravel is fine to coarse and angular to sub-rounded. Boulders are sub-rounded, limestone lithology and 200-400mm in diameter.	
	0.50	B		0.50	41.50			
	0.50	D						
	1.50	B		1.50				
	1.50	D						
	2.50	B		2.50				
	2.50	D						
	2.80			2.80	39.20		End of Pit at 2.800m	

Stability: Poor to very poor.

Plant: 13t track machine

Backfill: Arisings.

Remarks: Trial pit terminated at 2.80m bgl, refusal. DCP carried out.

Groundwater: 1.80m bgl, Steady rate of flow. 2.30m bgl, Fast rate of flow.

No	Job	Location	Date	Engineer
P25032	03/03/2025	DCP-TP04	03/03/2025	DOC

Drop	Weight	Cone	Correlation
575mm	8kg	60°	TRL DCP

Starting depth, mm bgl	Ground level, mOD Malin	Easting	Northing
500	41.997	584909.745	704549.535

Blows	Depth (m bgl)	Penetration (mm)	PenRate (mm/blow)	CBR, % (Kleyn)	CBR, % (TII DN-PAV-03021)
0	0.560	60	-	-	-
1	0.634	74	74	1.7	3.2
1	0.675	41	41	3.7	6.0
1	0.719	44	44	3.4	5.5
1	0.765	46	46	3.2	5.3
1	0.814	49	49	2.9	4.9
1	0.877	63	63	2.1	3.8
1	0.947	70	70	1.9	3.4
1	0.967	20	20	9.1	13
1	0.990	23	23	7.6	11
1	1.009	19	19	10	13
1	1.016	7	7	35	39
1	1.030	14	14	14	19
1	1.035	5	5	53	55
1	1.036	1	1	410	302
1	1.042	6	6	42	45
1	1.047	5	5	53	55
1	1.049	2	2	170	145
1	1.052	3	3	102	95
1	1.054	2	2	170	145
1	1.060	6	6	42	45
1	1.064	4	4	70	70
1	1.071	7	7	35	39
1	1.073	2	2	170	145
1	1.075	2	2	170	145
1	1.078	3	3	102	95

Adjustments	0.71	moderate
	0.5	dry
	0.35	very dry
	0.5	not assessed

Estimated ultimate bearing resistance

168 kPa

Estimated allowable bearing resistance (FoS= 2.5)

82 kPa

Depth, D

0.6 m bgl



Number:

TP05

Project
Project No
Engineer

Portumna Housing
P25032
Coyle Kennedy



Number:

TP05

Project
Project No
Engineer

Portumna Housing
P25032
Coyle Kennedy

Project Name: Portumna Social Housing - Site Investigation

Project No.
P25032

Co-ords:584907E - 704575N
Level: 41.86m OD

Date
03/03/2025

Location: Co. Galway

Dimensions (m):

3.00

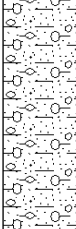
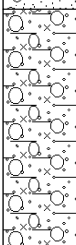
Scale
1:25

Client: Galway County Council

Depth:
2.20m BGL

0.80

Logged
DOC

Water Strike & Backfill	Samples & In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description
	Depth (m)	Type	Results				
	0.50	B		0.10	41.76		(TOPSOIL). Soft, brown, sandy gravelly CLAY with high organic content. Sand is fine to coarse. Gravel is fine and sub-angular to sub-rounded.
				0.40	41.46		Soft to firm, reddish brown, slightly gravelly sandy SILT. Sand is fine to coarse. Gravel is fine to coarse and sub-angular to sub-rounded.
	1.20	B		1.20	40.66		Firm, dark grey, slightly sandy slightly gravelly CLAY with low boulder content. Sand is fine to coarse. Gravel is fine to coarse. Boulders are sub-rounded, limestone lithology and 200-400mm in diameter.
							Firm blueish grey, slightly sandy gravelly CLAY with low boulder content. Sand is fine to coarse. Gravel is fine to coarse and angular to sub-angular. Boulders are sub-rounded, limestone lithology and 200-400mm in diameter.
	2.20	B		2.00	39.86		Weathered, fractured, weak, LIMESTONE-SHALE bedrock. (Calp, LU)
2.20				39.66		End of Pit at 2.200m	

Stability:	Moderate
Plant:	13t track machine
Backfill:	Arisings.

Groundwater: 1.20m bql, Steady rate of flow. 1.70m bql, Fast rate of flow.

Remarks: Trial pit terminated at 2.70m bgl, refusal on bedrock. DCP carried out here. Groundwater levels monitored on request of client. 15:45, 2.20m bgl. 15:47, 2.1m bgl. 17:50, 1.90m bgl.

No	Job	Location	Date	Engineer
P25032	03/03/2025	DCP-TP05	03/03/2025	DOC

Drop	Weight	Cone	Correlation
575mm	8kg	60°	TRL DCP

Starting depth, mm bgl	Ground level, mOD Malin	Easting	Northing
500	41.858	584907.385	704574.965

Blows	Depth (m bgl)	Penetration (mm)	Penetration Per blow (mm)	CBR, % (Kleyn)	CBR, % (TII DN-PAV-03021)
0	0.558	58	-	-	-
1	0.614	56	56	2.5	4.3
1	0.665	51	51	2.8	4.7
1	0.714	49	49	2.9	4.9
1	0.756	42	42	3.6	5.8
1	0.799	43	43	3.5	5.7
1	0.854	55	55	2.5	4.4
1	0.907	53	53	2.6	4.5
1	0.920	13	13	16	20
1	0.931	11	11	20	24
1	0.939	8	8	29	34
1	0.949	10	10	22	26
1	0.961	12	12	17	22
1	0.970	9	9	25	30
1	0.982	12	12	17	22
1	0.995	13	13	16	20
1	0.996	1	1	410	302
6	1.001	5	1	517	366

Adjustments	0.71	moderate
	0.5	dry
	0.35	very dry
	0.5	not assessed

Estimated ultimate bearing resistance
Estimated allowable bearing resistance (FoS= 2.5)
Depth, D

254 kPa
102 kPa
0.6 m bgl



Number:

TP06

Project
Project No
Engineer

Portumna Housing
P25032
Coyle Kennedy



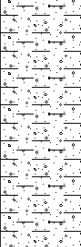
Number:

TP06

Project
Project No
Engineer

Portumna Housing
P25032
Coyle Kennedy

		Priority Geotechnical Ltd. Tel: 021 4631600 Fax: 021 4638690 www.prioritygeotechnical.ie			Trial Pit No TP 06 Sheet 1 of 1	
Project Name: Portumna Social Housing - Site Investigation		Project No. P25032	Co-ords: 584902E - 704603N Level: 41.95m OD		Date 04/03/2025	
Location: Co. Galway			Dimensions (m): 3.60		Scale 1:25	
Client: Galway County Council			Depth: 2.50m BGL		Logged DOC	

Water Strike & Backfill	Samples & In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description				
	Depth (m)	Type	Results								
				0.20	41.75		(TOPSOIL). Firm, dark brown, slightly sandy gravelly CLAY with high organic content. Sand is fine to coarse. Gravel is fine to coarse and angular to sub-rounded. Soft to firm, reddish brown, slightly sandy slightly gravelly SILT. Sand is fine to coarse. Gravel is fine and sub-angular to sub-rounded.	1			
	0.50 0.50	B D		0.50	41.45					Firm, dark grey, slightly sandy slightly gravelly CLAY with low cobble content. Sand is fine to coarse. Gravel is fine to coarse and sub-angular to sub-rounded. Cobbles are sub-angular to sub-rounded, limestone lithology and 63-120mm in diameter.	2
	1.10 1.10	B D		1.10	40.85		Firm becoming stiff, dark grey, slightly sandy gravelly CLAY with low boulder content. Sand is fine to coarse. Gravel is fine to coarse and angular to sub-rounded.				
	2.40 2.40	B D		2.30	39.65						
				2.50	39.45	End of Pit at 2.500m			4		
								5			

Stability: Good Plant: 13t track machine Backfill: Arisings.		Groundwater: 1.10m bgl, Steady rate of flow. 2.50m bgl, Fast rate of flow.	
Remarks: Trial pit terminated at 2.50m bgl, refusal on bedrock. DCP carried out here at 0.60m bgl. Groundwater levels monitored on request of client. 16:40, 2.30m bgl. 17:00, 1.70m.			

No	Job	Location	Date	Engineer
P25032	03/03/2025	DCP-TP06	03/03/2025	DOC

Drop	Weight	Cone	Correlation
575mm	8kg	60°	TRL DCP

Starting depth, mm bgl	Ground level, mOD Malin	Easting	Northing
300	41.951	584901.542	704603.230

Blows	Depth (m bgl)	Penetration (mm)	Penetration Per blow (mm)	CBR, % (Kleyn)	CBR, % (TII DN-PAV-03021)
0	0.372	72	-	-	-
1	0.458	86	86	1.4	2.7
1	0.519	61	61	2.2	3.9
1	0.570	51	51	2.8	4.7
1	0.611	41	41	3.7	6.0
1	0.663	52	52	2.7	4.6
1	0.695	32	32	5.0	7.7
1	0.719	24	24	7.2	10
1	0.732	13	13	16	20
1	0.741	9	9	25	30
1	0.760	19	19	10	13
1	0.770	10	10	22	26
1	0.780	10	10	22	26
1	0.795	15	15	13	17
1	0.808	13	13	16	20
1	0.816	8	8	29	34
1	0.831	15	15	13	17
1	0.842	11	11	20	24
1	0.853	11	11	20	24
1	0.864	11	11	20	24
1	0.873	9	9	25	30
1	0.882	9	9	25	30
1	0.893	11	11	20	24
1	0.902	9	9	25	30
1	0.911	9	9	25	30
1	0.920	9	9	25	30

Adjustments	0.71	moderate
	0.5	dry
	0.35	very dry
	0.5	not assessed

Estimated ultimate bearing resistance

238 kPa

Estimated allowable bearing resistance (FoS= 2.5)

95 kPa

Depth, D

0.5 m bgl



Number:

TP06

Project
Project No
Engineer

Portumna Housing
P25032
Coyle Kennedy

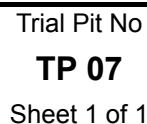


Number:

TP06

Project
Project No
Engineer

Portumna Housing
P25032
Coyle Kennedy



Date
04/03/2025

Scale
1:25

Logged
DOC

Stability: Moderate to good.	Groundwater: 1.30m bgl, Slow rate of flow. 1.60m bgl, Fast rate of flow.
Plant: 13t track machine	
Backfill: Arisings.	
Remarks: Trial pit terminated at 1.65m bgl, refusal on bedrock. DCP carried out here at 0.60m bgl. Groundwater levels monitored on request of client. 09:22, 1.61m bal. 17:20. 0.88m bal.	

No	Job	Location	Date	Engineer
P25032	03/03/2025	DCP-TP07	03/03/2025	DOC

Drop	Weight	Cone	Correlation
575mm	8kg	60°	TRL DCP

Starting depth, mm bgl	Ground level, mOD Malin	Easting	Northing
300	41.950	584922.665	704610.840

Blows	Depth (m bgl)	Penetration (mm)	Penetration Per blow (mm)	CBR, % (Kleyn)	CBR, % (TII DN-PAV-03021)
0	0.345	45	-	-	-
1	0.392	47	47	3.1	5.2
1	0.449	57	57	2.4	4.2
1	0.481	32	32	5.0	7.7
1	0.508	27	27	6.2	9.3
1	0.521	13	13	16	20
1	0.530	9	9	25	30
1	0.546	16	16	12	16
1	0.552	6	6	42	45
1	0.563	11	11	20	24
1	0.575	12	12	17	22
1	0.586	11	11	20	24
1	0.597	11	11	20	24
1	0.609	12	12	17	22
1	0.615	6	6	42	45
1	0.627	12	12	17	22
1	0.632	5	5	53	55
1	0.639	7	7	35	39
1	0.648	9	9	25	30
1	0.659	11	11	20	24
1	0.663	4	4	70	70
1	0.691	28	28	6.0	8.9
1	0.695	4	4	70	70

Adjustments	0.71	moderate
	0.5	dry
	0.35	very dry
	0.5	not assessed

Estimated ultimate bearing resistance

252 kPa

Estimated allowable bearing resistance (FoS= 2.5)

101 kPa

Depth, D

0.4 m bgl



Number:

TP07

Project
Project No
Engineer

Portumna Housing
P25032
Coyle Kennedy

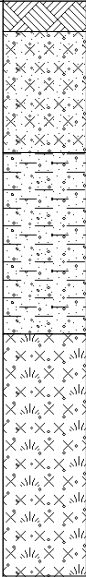


Number:

TP07

Project
Project No
Engineer

Portumna Housing
P25032
Coyle Kennedy

				Priority Geotechnical Ltd. Tel: 021 4631600 Fax: 021 4638690 www.prioritygeotechnical.ie				Trial Pit No TP 08 Sheet 1 of 1	
Project Name: Portumna Social Housing - Site Investigation				Project No. P25032		Co-ords: 584889E - 704624N Level: 41.99m OD		Date 04/03/2025	
Location: Co. Galway						Dimensions (m): 3.10 0.80		Scale 1:25	
Client: Galway County Council						Depth: 1.90m BGL		Logged DOC	
Water Strike & Backfill	Samples & In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description		
	Depth (m)	Type	Results						
	0.10			0.10	41.89		(TOPSOIL). Soft, dark brown, slightly sandy slightly gravelly CLAY with high organic content. Sand is fine to coarse. Gravel is fine and sub-angular to sub-rounded. Soft to firm, light brown, slightly sandy slightly gravelly SILT. Sand is fine to coarse. Gravel is fine to medium and sub-angular to sub-rounded.		
	0.50 0.50	B D		0.50	41.49		Firm dark blueish grey, andy slightly gravelly CLAY with low cobble content. Sand is fine to coarse. Gravel is fine to coarse and angular to sub-angular. Cobbles are sub-angular, shale lithology and 63-140mm in diameter.		
	1.00 1.00	B D		1.10	40.89		Firm becoming stiff blueish grey, slightly sandy gravelly CLAY with low cobble content. Sand is fine to coarse. Gravel is fine to coarse and angular to sub-angular. Cobbles are angular to sub-angular, shale lithology and 63-70mm in diameter.		
	1.50 1.50	B D		1.90	40.09		CLAY stiff below 1.7m.		
						End of Pit at 1.900m		2	
								3	
								4	
								5	
Stability: Good to moderate. Plant: 13t track machine Backfill: Arisings.						Groundwater: 1.60m bgl, Steady rate of flow.			
Remarks: Trial pit terminated at 1.60m bgl, refusal on bedrock. DCP carried out. Groundwater levels monitored on request of client. 10:15, 1.90m bgl. 10:17, 1.78m bgl. 17:22, 0.91m bgl.									

No	Job	Location	Date	Engineer
P25032	03/03/2025	DCP-TP08	04/03/2025	DOC

Drop	Weight	Cone	Correlation
575mm	8kg	60°	TRL DCP

Starting depth, mm bgl	Ground level, mOD Malin	Easting	Northing
500	41.988	584889.219	704624.270

Blows	Depth (m bgl)	Penetration (mm)	Penetration Per blow (mm)	CBR, % (Kleyn)	CBR, % (TII DN-PAV-03021)
0	0.554	54	-	-	-
1	0.609	55	55	2.5	4.4
1	0.675	66	66	2.0	3.6
1	0.736	61	61	2.2	3.9
1	0.770	34	34	4.7	7.3
1	0.810	40	40	3.8	6.1
1	0.850	40	40	3.8	6.1
1	0.881	31	31	5.2	8.0
1	0.920	39	39	3.9	6.3
1	0.941	21	21	8.6	12
1	0.944	3	3	102	95
1	0.953	9	9	25	30
1	0.961	8	8	29	34
1	0.963	2	2	170	145
1	0.970	7	7	35	39
1	0.973	3	3	102	95
1	0.981	8	8	29	34
1	0.990	9	9	25	30
1	0.994	4	4	70	70
1	0.998	4	4	70	70
1	1.001	3	3	102	95
1	1.004	3	3	102	95
1	1.013	9	9	25	30
1	1.019	6	6	42	45
1	1.023	4	4	70	70
1	1.033	10	10	22	26

Adjustments	0.71	moderate
	0.5	dry
	0.35	very dry
	0.5	not assessed

Estimated ultimate bearing resistance

231 kPa

Estimated allowable bearing resistance (FoS= 2.5)

93 kPa

Depth, D

0.6 m bgl



Number:

TP08

Project
Project No
Engineer

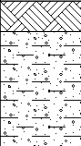
Portumna Housing
P25032
Coyle Kennedy



Number: TP08

Project Portumna Housing
Project No P25032
Engineer Coyle Kennedy

				Priority Geotechnical Ltd. Tel: 021 4631600 Fax: 021 4638690 www.prioritygeotechnical.ie				Trial Pit No TP 09 Sheet 1 of 1	
Project Name: Portumna Social Housing - Site Investigation				Project No. P25032		Co-ords: 584938E - 704559N Level: 42.20m OD		Date 04/03/2025	
Location: Co. Galway						Dimensions (m): 0.80 2.80		Scale 1:25	
Client: Galway County Council						Depth: 1.80m BGL		Logged DOC	

Water Strike & Backfill	Samples & In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description	
	Depth (m)	Type	Results					
	0.10			0.10	42.10		(TOPSOIL). Soft, brown, slightly sandy slightly gravelly CLAY with high organic content. Sand is fine to coarse. Gravel is fine and sub-angular to sub-rounded.	
	0.50	B		0.50	41.70		Soft to firm, brown, slightly sandy slightly gravelly SILT Sand is fine to coarse. Gravel is fine to coarse and angular to sub-rounded.	
	0.50	D					Weathered LIMESTONE-SHALE bedrock. (Calp, LU)	1
	1.50	B		1.60	40.60		Hard LIMESTONE-SHALE bedrock.	
	1.50	D		1.80	40.40		End of Pit at 1.800m	2
								3
								4
								5

Stability: Moderate Plant: 13t track machine Backfill: Arisings.				Groundwater: 1.70m bgl, Fast rate of flow.			
Remarks: Trial pit terminated at 1.80m bgl, refusal on bedrock.							



Number:

TP09

**Project
Project No
Engineer**

Portumna Housing
P25032
Coyle Kennedy



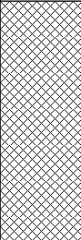
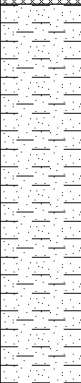
Number:

TP09

Project
Project No
Engineer

Portumna Housing
P25032
Coyle Kennedy

		Priority Geotechnical Ltd. Tel: 021 4631600 Fax: 021 4638690 www.prioritygeotechnical.ie			Trial Pit No TP 10 Sheet 1 of 1	
Project Name: Portumna Social Housing - Site Investigation		Project No. P25032	Co-ords: 584808E - 704590N Level: 42.62m OD		Date 04/03/2025	
Location: Co. Galway			Dimensions (m): 1.10 3.20		Scale 1:25	
Client: Galway County Council			Depth: 2.20m BGL		Logged DOC	

Water Strike & Backfill	Samples & In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description	
	Depth (m)	Type	Results					
	0.50 0.50	B ENV		0.80	41.82		(MADE GROUND). Soft, dark brown, sandy gravelly CLAY with high organic content and waste materials (plastic, ceramic fragments, glass). Sand is fine to coarse. Gravel is fine to medium and angular to sub-rounded. <i>Sand content increases with depth. Organic content decreases with depth.</i>	
	1.50 1.50	B D						Firm to stiff, light brown, slightly sandy CLAY. Sand is fine to coarse.
				2.10 2.20	40.52 40.42		Weak, weathered SLIMESTONE-SHALE bedrock (Calp, LU). <i>Limestone-Shale was hard below 2.2m</i> End of Pit at 2.200m	

Stability: Good Plant: 13t track machine Backfill: Arisings.		Groundwater: 2.10m bgl, Slow rate of flow.	
Remarks: Trial pit terminated at 2.20m bgl, refusal on bedrock. DCP carried out here.			

No	Job	Location	Date	Engineer
P25032	03/03/2025	DCP-TP10	04/03/2025	DOC

Drop	Weight	Cone	Correlation
575mm	8kg	60°	TRL DCP

Starting depth, mm bgl	Ground level, mOD Malin	Easting	Northing
500	42.652	584807.998	704589.547

Blows	Depth (m bgl)	Penetration (mm)	Penetration Per blow (mm)	CBR, % (Kleyn)	CBR, % (TII DN-PAV-03021)
0	0.630	130	-	-	-
1	0.705	75	75	1.7	3.1
1	0.743	38	38	4.0	6.5
1	0.812	69	69	1.9	3.4
1	0.850	38	38	4.0	6.5
1	0.921	71	71	1.8	3.3
1	0.933	12	12	17	22
1	0.982	49	49	2.9	4.9
1	1.018	36	36	4.3	6.8
1	1.044	26	26	6.5	9.6
1	1.069	25	25	6.9	10
1	1.083	14	14	14	19
1	1.105	22	22	8.1	12
1	1.132	27	27	6.2	9.3
1	1.155	23	23	7.6	11
1	1.183	28	28	6.0	8.9
1	1.210	27	27	6.2	9.3
1	1.239	29	29	5.7	8.6
1	1.262	23	23	7.6	11
1	1.287	25	25	6.9	10
1	1.312	25	25	6.9	10
1	1.329	17	17	11	15
1	1.354	25	25	6.9	10
1	1.376	22	22	8.1	12
1	1.399	23	23	7.6	11

Adjustments	0.71	moderate
	0.5	dry
	0.35	very dry
	0.5	not assessed

Estimated ultimate bearing resistance

151 kPa

Estimated allowable bearing resistance (FoS= 2.5)

80 kPa

Depth, D

0.7 m bgl



Number:

TP11

Project
Project No
Engineer

Portumna Housing
P25032
Coyle Kennedy



Number:

TP10

Project
Project No
Engineer

Portumna Housing
P25032
Coyle Kennedy



Number:

TP10

Project
Project No
Engineer

Portumna Housing
P25032
Coyle Kennedy

		Priority Geotechnical Ltd. Tel: 021 4631600 Fax: 021 4638690 www.prioritygeotechnical.ie			Trial Pit No TP 11 Sheet 1 of 1	
Project Name: Portumna Social Housing - Site Investigation		Project No. P25032	Co-ords: 584848E - 704578N Level: 41.62m OD		Date 04/03/2025	
Location: Co. Galway			Dimensions (m): 0.80 2.60		Scale 1:25	
Client: Galway County Council			Depth: 1.75m BGL		Logged DOC	

Water Strike & Backfill	Samples & In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description	
	Depth (m)	Type	Results					
				0.20	41.42		(TOPSOIL). Firm, brown, slightly sandy gravelly CLAY with high organic content. Sand is fine to coarse. Gravel is fine to coarse and sub-angular to sub-rounded.	
	0.50 0.50	B D					Soft to firm, brown, slightly sandy slightly gravelly SILT. Sand is fine to coarse. Gravel is fine to coarse and sub-angular to sub-rounded.	
				0.75	40.87			
	1.20 1.20	B D						
				1.75	39.87		End of Pit at 1.750m	

Stability: Good Plant: 13t track machine Backfill: Arisings.		Groundwater: 1.75m bgl, Trickle rate of flow.
Remarks: Trial pit terminated at 1.75m bgl, refusal on bedrock. DCP carried out here.		

No	Job	Location	Date	Engineer
P25032	03/03/2025	DCP-TP11	04/03/2025	DOC

Drop	Weight	Cone	Correlation
575mm	8kg	60°	TRL DCP

Starting depth, mm bgl	Ground level, mOD Malin	Easting	Northing
500	41.623	584848.236	704578.010

Blows	Depth (m bgl)	Penetration (mm)	Penetration Per blow (mm)	CBR, % (Kleyn)	CBR, % (TII DN-PAV-03021)
0	0.562	62	-	-	-
1	0.621	59	59	2.3	4.1
1	0.668	47	47	3.1	5.2
1	0.728	60	60	2.3	4.0
1	0.781	53	53	2.6	4.5
1	0.825	44	44	3.4	5.5
1	0.864	39	39	3.9	6.3
1	0.901	37	37	4.2	6.6
1	0.934	33	33	4.8	7.5
1	0.968	34	34	4.7	7.3
1	0.996	28	28	6.0	8.9
1	1.024	28	28	6.0	8.9
1	1.063	39	39	3.9	6.3
1	1.069	6	6	42	45
1	1.102	33	33	4.8	7.5
1	1.139	37	37	4.2	6.6
1	1.168	29	29	5.7	8.6
1	1.195	27	27	6.2	9.3
1	1.224	29	29	5.7	8.6
1	1.245	21	21	8.6	12
1	1.274	29	29	5.7	8.6
1	1.293	19	19	10	13
1	1.310	17	17	11	15
1	1.326	16	16	12	16
1	1.337	11	11	20	24
1	1.351	14	14	14	19

Adjustments	0.71	moderate
	0.5	dry
	0.35	very dry
	0.5	not assessed

Estimated ultimate bearing resistance

161 kPa

Estimated allowable bearing resistance (FoS= 2.5)

94 kPa

Depth, D

0.6 m bgl



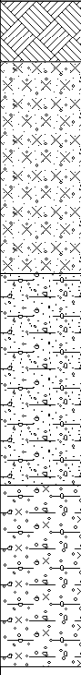
Number:

TP11

Project
Project No
Engineer

Portumna Housing
P25032
Coyle Kennedy

		Priority Geotechnical Ltd. Tel: 021 4631600 Fax: 021 4638690 www.prioritygeotechnical.ie			Trial Pit No TP 12 Sheet 1 of 1	
Project Name: Portumna Social Housing - Site Investigation		Project No. P25032		Co-ords: 584850E - 704542N Level: 42.17m OD		Date 04/03/2025
Location: Co. Galway				Dimensions (m): 0.70 2.90		Scale 1:25
Client: Galway County Council				Depth: 2.20m BGL		Logged DOC

Water Strike & Backfill	Samples & In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description	
	Depth (m)	Type	Results					
				0.20	41.97		(TOPSOIL). Firm, brown, slightly sandy slightly gravelly CLAY with high organic content. Sand is fine to coarse. Gravel is fine to coarse and sub-angular to sub-rounded.	
	0.50 0.50 0.50	B D ENV					Soft to firm, reddish brown, slightly gravelly slightly sandy SILT. Sand is fine to coarse. Gravel is fine to medium and angular to sub-angular.	
				0.90	41.27		Loose blueish grey, very clayey very gravelly SAND with low cobble content. Sand is fine to coarse. Gravel is fine to coarse and angular to sub-angular. Cobbles are angular to sub-rounded, shale lithology and 63-150mm in diameter.	1
	1.30 1.30	B D						
				1.60	40.57		Medium dense blueish grey, very clayey very sandy GRAVEL with low boulder content. Sand is fine to coarse. Gravel is fine to coarse and angular to sub-angular. Boulders are sub-angular to sub-rounded, shale lithology and 200-300mm in diameter.	2
	2.00 2.00	B D						
				2.20	39.97		End of Pit at 2.20m	
								3
								4
								5

Stability: Good to moderate. Plant: 13t track machine Backfill: Arisings.		Groundwater: 2.00m bgl, Fast rate of flow.
Remarks: Trial pit terminated at 2.20m bgl, refusal on bedrock. DCP carried out here.		

No	Job	Location	Date	Engineer
P25032	03/03/2025	DCP-TP12	04/03/2025	DOC

Drop	Weight	Cone	Correlation
575mm	8kg	60°	TRL DCP

Starting depth mm bgl	Ground level, mOD Malin	Easting	Northing
500	42.171	584849.568	704542.464

Blows	Depth (m bgl)	Penetration (mm)	Penetration Per blow (mm)	CBR, % (Kleyn)	CBR, % (TII DN-PAV-03021)
0	0.533	33	-	-	-
1	0.582	49	49	2.9	4.9
1	0.637	55	55	2.5	4.4
1	0.690	53	53	2.6	4.5
1	0.739	49	49	2.9	4.9
1	0.794	55	55	2.5	4.4
1	0.836	42	42	3.6	5.8
1	0.858	22	22	8.1	11.5
1	0.892	34	34	4.7	7.3
1	0.953	61	61	2.2	3.9
1	1.029	76	76	1.7	3.1
1	1.056	27	27	6.2	9.3
1	1.074	18	18	10	14
1	1.083	9	9	25	30
1	1.102	19	19	10	13
1	1.113	11	11	20	24
1	1.131	18	18	10	14
1	1.154	23	23	7.6	11
1	1.167	13	13	16	20
1	1.181	14	14	14	19
1	1.191	10	10	22	26
1	1.213	22	22	8.1	12
1	1.219	6	6	42	45
1	1.233	14	14	14	19
1	1.249	16	16	12	16
1	1.260	11	11	20	24

Adjustments	0.71	moderate
	0.5	dry
	0.35	very dry
	0.5	not assessed



Number:

TP12

Project
Project No
Engineer

Portumna Housing
P25032
Coyle Kennedy



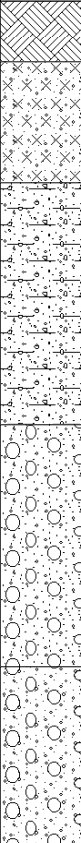
Number:

TP12

Project
Project No
Engineer

Portumna Housing
P25032
Coyle Kennedy

		Priority Geotechnical Ltd. Tel: 021 4631600 Fax: 021 4638690 www.prioritygeotechnical.ie			Trial Pit No TP 13 Sheet 1 of 1		
Project Name: Portumna Social Housing - Site Investigation		Project No. P25032	Co-ords: 584877E - 704544N Level: 42.44m OD		Date 04/03/2025		
Location: Co. Galway			Dimensions (m): 0.80 3.10		Scale 1:25		
Client: Galway County Council			Depth: 2.80m BGL		Logged DOC		

Water Strike & Backfill	Samples & In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description	
	Depth (m)	Type	Results					
				0.20	42.24		(TOPSOIL). Firm, dark brown, slightly sandy slightly gravelly CLAY with high organic content. Sand is fine to coarse. Gravel is fine to coarse and sub-angular. Soft to firm, reddish brown, slightly gravelly sandy SILT. Sand is fine to coarse. Gravel is fine and sub-angular to sub-rounded.	
	0.50 0.50	B D		0.60	41.84		Loose blueish grey, clayey very gravelly SAND with low boulder content. Sand is fine to coarse. Gravel is fine to coarse and angular to sub-rounded. Boulders are sub-rounded, shale lithology and 200-400mm in diameter.	1
	1.30 1.30	B D		1.40	41.04		Medium dense grey, clayey very gravelly SAND with low boulder content. Sand is fine to coarse. Gravel is fine to coarse and angular to sub-rounded. Boulders are sub-rounded, shale lithology and 200-600mm in diameter.	2
	2.00 2.00	B D		2.20	40.24		Dense Greyish brown, sandy GRAVEL with low boulder content. Sand is fine to coarse. Gravel is fine to coarse and angular to sub-angular. Boulders are sub-angular to sub-rounded, shale lithology and 200-600mm in diameter.	
	2.80 2.80	B D		2.80	39.64		End of Pit at 2.800m	3
								4
								5

Stability: Good to moderate Plant: 13t track machine Backfill: Arisings.	Groundwater: 1.90m bgl, Slow rate of flow. 2.80m bgl, Fast rate of flow.
Remarks: Trial pit terminated at 2.80m bgl, refusal on bedrock. DCP carried out here.	

No	Job	Location	Date	Engineer
P25032	03/03/2025	DCP-TP13	04/03/2025	DOC

Drop	Weight	Cone	Correlation
575mm	8kg	60°	TRL DCP

Starting depth, mm bgl	Ground level, mOD Malin	Easting	Northing
500	42.439	584877.147	704543.765

Blows	Depth (m bgl)	Penetration (mm)	Penetration Per blow (mm)	CBR, % (Kleyn)	CBR, % (TII DN-PAV-03021)
0	0.545	45	-	-	-
1	0.595	50	50	2.9	4.8
1	0.639	44	44	3.4	5.5
1	0.665	26	26	6.5	10
1	0.675	10	10	22	26
1	0.681	6	6	42	45
1	0.696	15	15	13	17
1	0.712	16	16	12	16
1	0.751	39	39	3.9	6.3
1	0.792	41	41	3.7	6.0
1	0.807	15	15	13	17
1	0.821	14	14	14	19
1	0.840	19	19	10	13
1	0.866	26	26	6.5	10
1	0.889	23	23	7.6	11
1	0.909	20	20	9.1	13
1	0.922	13	13	16	20
1	0.940	18	18	10	14
1	0.951	11	11	20	24
1	0.970	19	19	10	13
1	0.974	4	4	70	70
1	0.984	10	10	22	26
1	0.991	7	7	35	39
1	0.996	5	5	53	55
1	1.004	8	8	29	34
1	1.010	6	6	42	45

Adjustments	0.71	moderate
	0.5	dry
	0.35	very dry
	0.5	not assessed

Estimated ultimate bearing resistance

254 kPa

Estimated allowable bearing resistance (FoS= 2.5)

110 kPa

Depth, D

0.6 m bgl



Number:

TP13

Project
Project No
Engineer

Portumna Housing
P25032
Coyle Kennedy



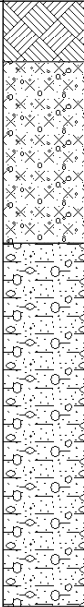
Number:

TP13

Project
Project No
Engineer

Portumna Housing
P25032
Coyle Kennedy

		Priority Geotechnical Ltd. Tel: 021 4631600 Fax: 021 4638690 www.prioritygeotechnical.ie			Trial Pit No TP SA01 Sheet 1 of 1	
Project Name: Portumna Social Housing - Site Investigation		Project No. P25032	Co-ords: 584876E - 704596N Level: 41.86m OD		Date 03/03/2025	
Location: Co. Galway			Dimensions (m): 0.80		Scale 1:25	
Client: Galway County Council			Depth: 2.00m BGL		Logged DOC	

Water Strike & Backfill	Samples & In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description	
	Depth (m)	Type	Results					
				0.20	41.66		(TOPSOIL). Firm to stiff, dark brown, sandy slightly gravelly CLAY with high organic matter. Sand is fine to coarse. Gravel is fine and sub-angular to sub-rounded. Soft to firm light brown, slightly sandy slightly gravelly SILT. Sand is fine to coarse. Gravel is fine to coarse and angular to sub-rounded.	
				0.80	41.06		Firm, grey with orange mottling, slightly sandy gravelly CLAY with low boulder content. Sand is fine to coarse. Gravel is fine to coarse and angular to sub-angular. Boulders are sub-angular to sub-rounded, limestone lithology and 200-350mm in diameter.	1
	1.30	B						
	2.00	B		2.00	39.86		End of Pit at 2.000m	2
								3
								4
								5

Stability: Moderate Plant: 13t track machine Backfill: Arisings.		Groundwater: 1.90m, Fast rate of flow.	
Remarks: Trial pit terminated at 2.00m bgl. Scheduled depth achieved. Soakaway test scheduled here; Groundwater ingress in very fast.			

P25032

Portumna Housing

03/03/2025

Test 1

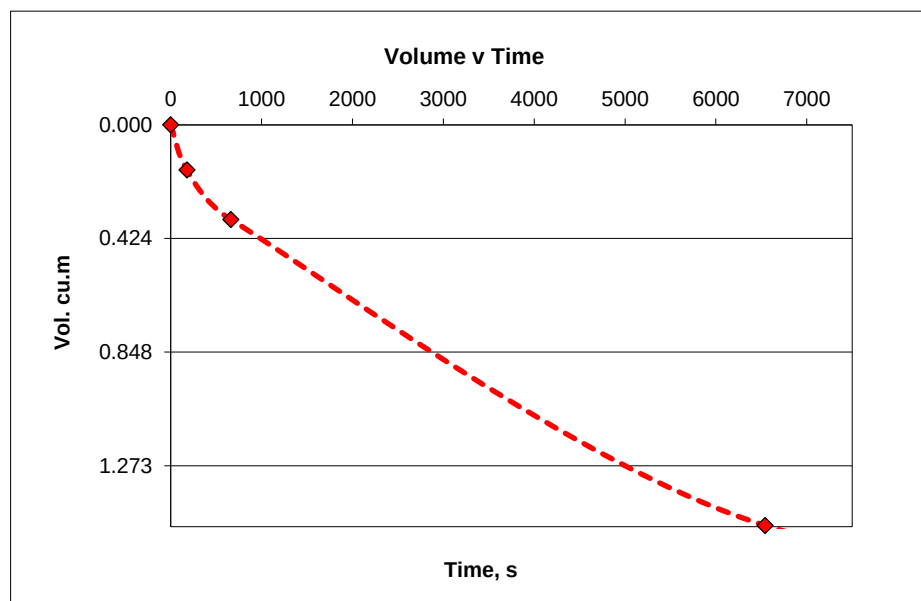
TP SA01

E584875.534 N704596.189 41.862mOD

l, m	2.600	b, m	0.800	d, m	2.000
l_base, m	2.100			d_eff, m	0.200
l_eff, m	2.100			GW, m	0.790

	Time, min	Measure, m bgl	Time, sec	Depth water, m	Fall, m	Volume
09:03	0	1.800	0	0.20	0.00	0.000
	3	1.700	180	0.30	-0.10	0.168
	11	1.590	660	0.41	-0.21	0.353
	109	0.910	6540	1.09	-0.89	1.495
	213	0.830	12780	1.17	-0.97	1.630
17:20	497	0.790	29820	1.21	-1.01	1.697
					ingress -	

Area	1.680 m ²	V _{p75-25 theory}	volume	1.0164 m ³
50% Area_eff, a _{p50}	5.189 m ²	V _{p 75 - 25 actual}	volume	0.8484 m ³
50% Area_act, a _{p50}	5.114 m ²	t _{p 75- 25 actual}	time	4000 s
Infiltration Coefficient		f		4.15E-05 ms ⁻¹

**NOTES:**

Groundwater encountered 1.9m bg; rising to 0.79m bgl (41.123mOD).

See TP SA01 for ground conditons slightly sandy gravelly CLAY to 2.0m bgl

Infiltration calculated over actual rise observed and measured over test duration



Number:

TP SA01

Project
Project No
Engineer

Portumna Housing
P25032
Coyle Kennedy



Number:

TP SA01

Project
Project No
Engineer

Portumna Housing
P25032
Coyle Kennedy

Project Name: Portumna Social Housing - Site Investigation

Project No.
P25032

Co-ords:584890E - 704524N
Level: 43.81m OD

Date
03/03/2025

Location: Co. Galway

Dimensions (m): 2.90

Scale
1:25

Client: Galway County Council

Depth:
2.00m BGL

Logged
DOC

Water Strike & Backfill	Samples & In Situ Testing			Depth (m)	Level (m OD)	Legend	Stratum Description					
	Depth (m)	Type	Results									
	2.00	B		0.20	43.61		(TOPSOIL). Firm, dark brown, sandy gravelly CLAY with high organic matter. Sand is fie to coarse. Gravel is fine and sub-angular to sub-rounded.	1 -				
				0.70	43.11				Light brown, soft to firm, slightly sandy slightly gravelly SILT with low cobble content. Sand is fine to coarse. Gravel is fine to coarse and sub-angular to sub-rounded. Cobbles are sub-angular to sub-rounded, limestone lithology and 63-150mm in diameter.			
									Firm dark grey, slightly sandy gravelly CLAY with low boulder content. Sand is fine to coarse, Gravel is fine to coarse and angular to sub-rounded. Boulders are sub-angular, limestone lithology and 200-500mm in diameter.			
											Stiff below 1.1m.	
				2.00	41.81		End of Pit at 2.000m	2 -				
						</						

Stability:	Good
Plant:	13t track machine
Backfill:	Arisings.

Groundwater: None encountered.

Remarks: Trial pit terminated at 2.00m bgl. Scheduled depth achieved. Soakaway test carried out.

Test 1

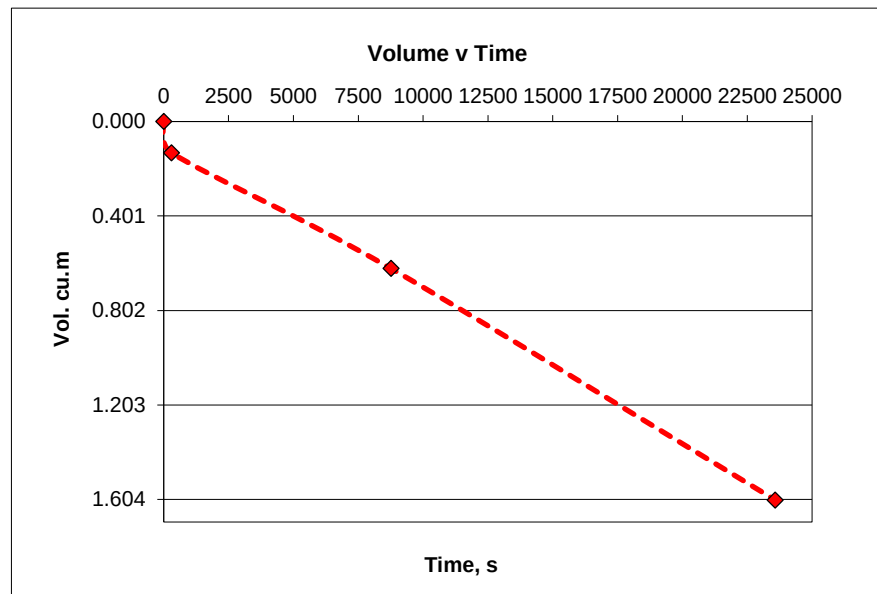
TP SA02

E584889.568 N704524.219 43.814mOD

l, m 2.900 b, m 0.900 d, m 2.000
 l_base, m 2.100 d_eff, m 1.220
 l_eff, m 2.100

	Time, min	Measure, m bgl	Time, sec	Depth water, m	Fall, m	Volume
10:13	0	0.780	0	1.22	0.00	0.000
	5	0.850	300	1.15	0.07	0.132
	146	1.110	8760	0.89	0.33	0.624
17:45	393	1.630	23580	0.37	0.85	1.607

Area 1.890 m² $V_{p75-25 \text{ theory}}$ volume 1.1529 m³
 50% Area_eff, a_{p50} 5.550 m² $V_{p75-25 \text{ actual}}$ volume 1.1529 m³
 50% Area_act, a_{p50} 5.120 m² $t_{p75-25 \text{ actual}}$ time 14820 s
Infiltration Coefficient f 1.52E-05 ms⁻¹



NOTES:

No groundwater encountered.

See TP SA02 for ground conditions slightly sandy gravelly CLAY to 2.0m bgl

Infiltration calculated over actual rise observed and measured over test duration



Number:

TP SA02

Project
Project No
Engineer

Portumna Housing
P25032
Coyle Kennedy



Number:

TP SA02

**Project
Project No
Engineer**

Portumna Housing
P25032
Coyle Kennedy

		Priority Geotechnical Ltd. Tel: 021 4631600 Fax: 021 4638690 www.prioritygeotechnical.ie		Probe No DP 01 Sheet 1 of 1																																																																			
Project Name: Portumna Social Housing - Site Investigation		Project No. P25032	Co-ords: 584937E - 704540N		Hole Type DP																																																																		
Location: Co. Galway			Level: 42.26m OD		Scale 1:25																																																																		
Client: Galway County Council			Dates: 18/04/2025		Logged By LG																																																																		
Depth (m) Blows/100mm Torque (Nm) <table><tr><td>1</td><td>3</td><td></td><td></td><td></td><td></td></tr><tr><td></td><td>2</td><td></td><td></td><td></td><td></td></tr><tr><td></td><td>2</td><td></td><td></td><td></td><td></td></tr><tr><td></td><td>3</td><td></td><td></td><td></td><td></td></tr><tr><td></td><td>4</td><td></td><td></td><td></td><td></td></tr><tr><td></td><td>3</td><td></td><td></td><td></td><td></td></tr><tr><td></td><td>4</td><td></td><td></td><td></td><td></td></tr><tr><td></td><td>25</td><td></td><td></td><td></td><td></td></tr><tr><td>2</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>3</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>4</td><td></td><td></td><td></td><td></td><td></td></tr></table>						1	3						2						2						3						4						3						4						25					2						3						4					
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Remarks: Dynamic probe terminated at 0.80m bgl, refusal.		Fall Height (mm): 500		Cone Base Dia. (mm): 43																																																																			
		Hammer Mass (Kg): 50.0		Cone Angle (Deg): 90																																																																			
		Probe Type: DPH		Final Depth (m bgl): 0.80																																																																			

		Priority Geotechnical Ltd. Tel: 021 4631600 Fax: 021 4638690 www.prioritygeotechnical.ie		Probe No DP 02 Sheet 1 of 1																																																																																					
Project Name: Portumna Social Housing - Site Investigation		Project No. P25032		Co-ords: 584901E - 704533N																																																																																					
Location: Co. Galway		Level: 42.91m OD		Hole Type DP																																																																																					
Client: Galway County Council		Dates: 18/04/2025		Scale 1:25 Logged By LG																																																																																					
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Remarks: Dynamic probe terminated at 1.10m bgl, refusal.		Fall Height (mm): 500		Cone Base Dia. (mm): 43																																																																																					
		Hammer Mass (Kg): 50.0		Cone Angle (Deg): 90																																																																																					
		Probe Type: DPH		Final Depth (m bgl): 1.10																																																																																					

		Priority Geotechnical Ltd. Tel: 021 4631600 Fax: 021 4638690 www.prioritygeotechnical.ie		Probe No DP 03 Sheet 1 of 1																									
Project Name: Portumna Social Housing - Site Investigation		Project No. P25032	Co-ords: 584876E - 704530N		Hole Type DP																								
Location: Co. Galway			Level: 43.13m OD		Scale 1:25																								
Client: Galway County Council			Dates: 18/04/2025		Logged By LG																								
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Remarks: Dynamic probe terminated at 1.10m bgl, refusal.		Fall Height (mm): 500 Hammer Mass (Kg): 50.0 Probe Type: DPH		Cone Base Dia. (mm): 43 Cone Angle (Deg): 90 Final Depth (m bgl): 1.10																									

		Priority Geotechnical Ltd. Tel: 021 4631600 Fax: 021 4638690 www.prioritygeotechnical.ie		Probe No DP 04 Sheet 1 of 1																																																																																																													
Project Name: Portumna Social Housing - Site Investigation		Project No. P25032	Co-ords: 584840E - 704520N		Hole Type DP																																																																																																												
Location: Co. Galway			Level: 42.50m OD		Scale 1:25																																																																																																												
Client: Galway County Council			Dates: 18/04/2025		Logged By LG																																																																																																												
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Remarks: Dynamic probe terminated at 1.50m bgl, refusal.		Fall Height (mm): 500		Cone Base Dia. (mm): 43																																																																																																													
		Hammer Mass (Kg): 50.0		Cone Angle (Deg): 90																																																																																																													
		Probe Type: DPH		Final Depth (m bgl): 1.50																																																																																																													

		Priority Geotechnical Ltd. Tel: 021 4631600 Fax: 021 4638690 www.prioritygeotechnical.ie		Probe No DP 06 Sheet 1 of 1	
Project Name: Portumna Social Housing - Site Investigation		Project No. P25032		Co-ords: 584872E - 704555N	
Location: Co. Galway		Level: 41.99m OD		Scale 1:25	
Client: Galway County Council		Dates: 18/04/2025		Logged By LG	

Depth (m)	Blows/100mm	Torque (Nm)
0.0	2	
0.1	2	
0.2	3	
0.3	4	
0.4	3	
0.5	3	
0.6	4	
0.7	5	
0.8	5	
0.9	4	
1.0	4	
1.1	5	
1.2	5	
1.3	7	
1.4	7	
1.5	12	
1.6	25	
1.7		
1.8		
1.9		
2.0		
2.1		
2.2		
2.3		
2.4		
2.5		
2.6		
2.7		
2.8		
2.9		
3.0		
3.1		
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3.6		
3.7		
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3.9		
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4.2		
4.3		
4.4		
4.5		
4.6		
4.7		
4.8		
4.9		
5.0		

Remarks: Dynamic probe terminated at 1.70m bgl, refusal.	Fall Height (mm): 500	Cone Base Dia. (mm): 43	
	Hammer Mass (Kg): 50.0	Cone Angle (Deg): 90	
	Probe Type: DPH	Final Depth (m bgl): 1.70	

		Priority Geotechnical Ltd. Tel: 021 4631600 Fax: 021 4638690 www.prioritygeotechnical.ie		Probe No DP 07 Sheet 1 of 1	
Project Name: Portumna Social Housing - Site Investigation		Project No. P25032		Co-ords: 584896E - 704558N	
Location: Co. Galway		Level: 41.82m OD		Scale 1:25	
Client: Galway County Council		Dates: 18/04/2025		Logged By LG	

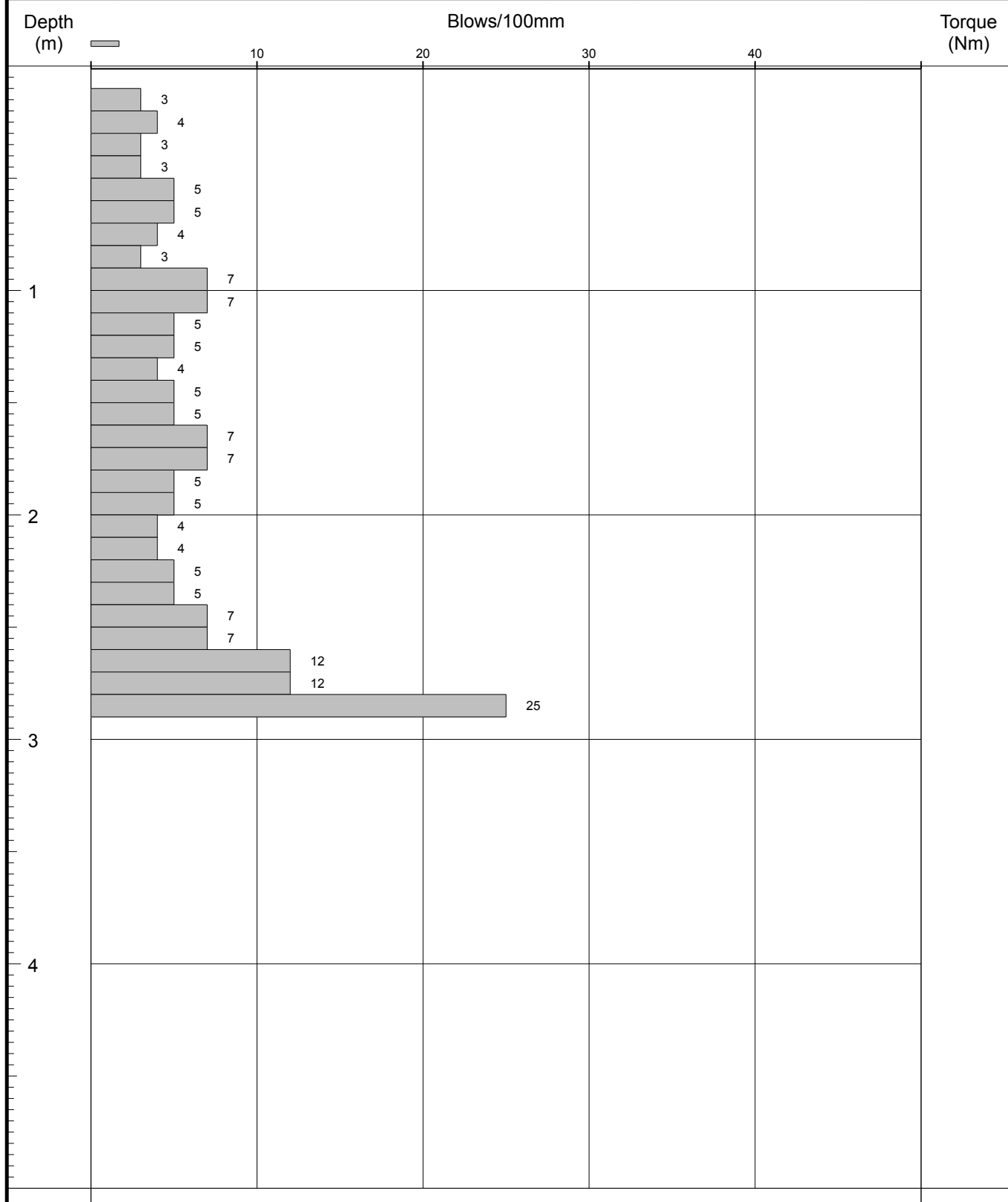
Depth (m)	Blows/100mm	Torque (Nm)
0.0		
0.1	3	
0.2	3	
0.3	4	
0.4	4	
0.5	3	
0.6	4	
0.7	5	
0.8	5	
0.9	4	
1.0	4	
1.1	5	
1.2	4	
1.3	4	
1.4	5	
1.5	5	
1.6	7	
1.7	7	
1.8	5	
1.9	10	
2.0	10	
2.1	25	
2.2		
2.3		
2.4		
2.5		
2.6		
2.7		
2.8		
2.9		
3.0		
3.1		
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3.7		
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4.0		
4.1		
4.2		
4.3		
4.4		
4.5		
4.6		
4.7		
4.8		
4.9		
5.0		

Remarks: Dynamic probe terminated at 2.10m bgl, refusal.	Fall Height (mm): 500	Cone Base Dia. (mm): 43	
	Hammer Mass (Kg): 50.0	Cone Angle (Deg): 90	
	Probe Type: DPH	Final Depth (m bgl): 2.10	

		Priority Geotechnical Ltd. Tel: 021 4631600 Fax: 021 4638690 www.prioritygeotechnical.ie		Probe No DP 08 Sheet 1 of 1																																																																																																																																																																			
Project Name: Portumna Social Housing - Site Investigation		Project No. P25032		Co-ords: 584928E - 704565N																																																																																																																																																																			
Location: Co. Galway		Level: 41.88m OD		Hole Type DP																																																																																																																																																																			
Client: Galway County Council		Dates: 18/04/2025		Scale 1:25 Logged By LG																																																																																																																																																																			
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		Probe Type: DPH		Final Depth (m bgl): 2.50																																																																																																																																																																			

		Priority Geotechnical Ltd. Tel: 021 4631600 Fax: 021 4638690 www.prioritygeotechnical.ie		Probe No DP 09 Sheet 1 of 1																																																																																				
Project Name: Portumna Social Housing - Site Investigation		Project No. P25032	Co-ords: 584865E - 704586N		Hole Type DP																																																																																			
Location: Co. Galway			Level: 41.71m OD		Scale 1:25																																																																																			
Client: Galway County Council			Dates: 18/04/2025		Logged By LG																																																																																			
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		Hammer Mass (Kg): 50.0		Cone Angle (Deg): 90																																																																																				
		Probe Type: DPH		Final Depth (m bgl): 2.70																																																																																				

Project Name:	Portumna Social Housing - Site Investigation	Project No.	P25032	Co-ords:	584825E - 704581N	Hole Type	DP
Location:	Co. Galway	Level:	41.92m OD	Scale	1:25	Logged By	32
Client:	Galway County Council	Dates:	18/04/2025				



Remarks: Dynamic probe terminated at 2.80m bgl, refusal.	Fall Height (mm): 500	Cone Base Dia. (mm): 43
	Hammer Mass (Kg): 50.0	Cone Angle (Deg): 90
	Probe Type: DPH	Final Depth (m bgl): 2.80

		Priority Geotechnical Ltd. Tel: 021 4631600 Fax: 021 4638690 www.prioritygeotechnical.ie		Probe No DP 11 Sheet 1 of 1																																																																																						
Project Name: Portumna Social Housing - Site Investigation		Project No. P25032		Co-ords: 584926E - 704592N																																																																																						
Location: Co. Galway		Level: 41.82m OD		Hole Type DP																																																																																						
Client: Galway County Council		Dates: 18/01/2025		Scale 1:25 Logged By LG																																																																																						
<table><thead><tr><th>Depth (m)</th><th>Blows/100mm</th><th>Torque (Nm)</th></tr></thead><tbody><tr><td rowspan="10">1</td><td>3</td><td></td></tr><tr><td>4</td><td></td></tr><tr><td>3</td><td></td></tr><tr><td>4</td><td></td></tr><tr><td>5</td><td></td></tr><tr><td>5</td><td></td></tr><tr><td>4</td><td></td></tr><tr><td>3</td><td></td></tr><tr><td>5</td><td></td></tr><tr><td>5</td><td></td></tr><tr><td rowspan="10">2</td><td>4</td><td></td></tr><tr><td>4</td><td></td></tr><tr><td>5</td><td></td></tr><tr><td>5</td><td></td></tr><tr><td>3</td><td></td></tr><tr><td>3</td><td></td></tr><tr><td>4</td><td></td></tr><tr><td>5</td><td></td></tr><tr><td>7</td><td></td></tr><tr><td>7</td><td></td></tr><tr><td rowspan="10">3</td><td>5</td><td></td></tr><tr><td>8</td><td></td></tr><tr><td>7</td><td></td></tr><tr><td>5</td><td></td></tr><tr><td>7</td><td></td></tr><tr><td>7</td><td></td></tr><tr><td>10</td><td></td></tr><tr><td>17</td><td></td></tr><tr><td>25</td><td></td></tr><tr><td rowspan="10">4</td><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></tbody></table>						Depth (m)	Blows/100mm	Torque (Nm)	1	3		4		3		4		5		5		4		3		5		5		2	4		4		5		5		3		3		4		5		7		7		3	5		8		7		5		7		7		10		17		25		4																				
Depth (m)	Blows/100mm	Torque (Nm)																																																																																								
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Remarks: Dynamic probe terminated at 2.90m bgl, refusal.		Fall Height (mm): 500		Cone Base Dia. (mm): 43																																																																																						
		Hammer Mass (Kg): 50.0		Cone Angle (Deg): 90																																																																																						
		Probe Type: DPH		Final Depth (m bgl): 2.90																																																																																						

		Priority Geotechnical Ltd. Tel: 021 4631600 Fax: 021 4638690 www.prioritygeotechnical.ie		Probe No DP 12 Sheet 1 of 1	
Project Name: Portumna Social Housing - Site Investigation		Project No. P25032		Co-ords: 584815E - 704594N	
Location: Co. Galway		Level: 42.48m OD		Scale 1:25	
Client: Galway County Council		Dates: 18/04/2025		Logged By LG	

Depth (m)	Blows/100mm	Torque (Nm)
0.0		
0.1	4	
0.2	4	
0.3	3	
0.4	4	
0.5	3	
0.6	3	
0.7	4	
0.8	5	
0.9	5	
1.0	4	
1.1	5	
1.2	5	
1.3	5	
1.4	7	
1.5	7	
1.6	5	
1.7	5	
1.8	4	
1.9	4	
2.0	4	
2.1	8	
2.2	8	
2.3	10	
2.4	10	
2.5	16	
2.6	25	
2.7		
2.8		
2.9		
3.0		
3.1		
3.2		
3.3		
3.4		
3.5		
3.6		
3.7		
3.8		
3.9		
4.0		

Remarks: Dynamic probe terminated at 2.70m bgl, refusal.	Fall Height (mm): 500	Cone Base Dia. (mm): 43
	Hammer Mass (Kg): 50.0	Cone Angle (Deg): 90
	Probe Type: DPH	Final Depth (m bgl): 2.70

		Priority Geotechnical Ltd. Tel: 021 4631600 Fax: 021 4638690 www.prioritygeotechnical.ie		Probe No DP 13 Sheet 1 of 1	
Project Name: Portumna Social Housing - Site Investigation		Project No. P25032		Co-ords: 584844E - 704614N	
Location: Co. Galway		Level: 42.09m OD		Scale 1:25	
Client: Galway County Council		Dates: 18/04/2025		Logged By LG	

Depth (m)	Blows/100mm	Torque (Nm)
1	4	
	3	
	4	
	4	
	3	
	5	
	6	
	6	
	5	
	4	
	4	
	5	
	4	
	5	
	5	
	4	
	7	
	7	
2	5	
	5	
	10	
	10	
	8	
	15	
	25	
3		
4		

Remarks: Dynamic probe terminated at 2.50m bgl, refusal.		Fall Height (mm): 500		Cone Base Dia. (mm): 43	
		Hammer Mass (Kg): 50.0		Cone Angle (Deg): 90	
		Probe Type: DPH		Final Depth (m bgl): 2.50	

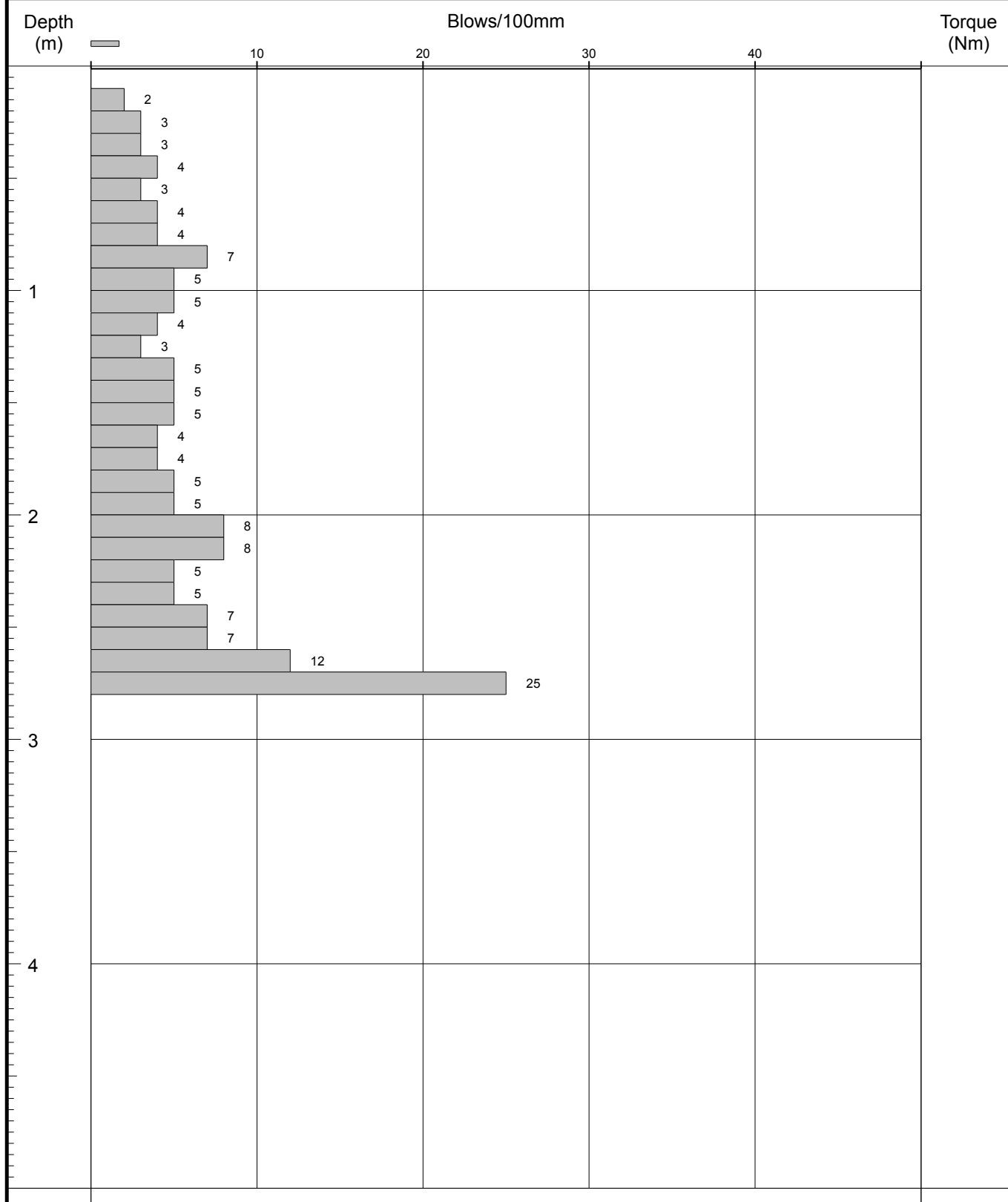
		Priority Geotechnical Ltd. Tel: 021 4631600 Fax: 021 4638690 www.prioritygeotechnical.ie		Probe No DP 14 Sheet 1 of 1	
Project Name: Portumna Social Housing - Site Investigation		Project No. P25032		Co-ords: 584889E - 704599N	
Location: Co. Galway		Level: 41.80m OD		Scale 1:25	
Client: Galway County Council		Dates: 18/04/2025		Logged By LG	

Depth (m)	Blows/100mm	Torque (Nm)
0.0	2	
0.1	2	
0.2	4	
0.3	4	
0.4	3	
0.5	2	
0.6	4	
0.7	4	
0.8	5	
0.9	5	
1.0	4	
1.1	4	
1.2	5	
1.3	5	
1.4	4	
1.5	4	
1.6	5	
1.7	5	
1.8	4	
1.9	4	
2.0	5	
2.1	5	
2.2	7	
2.3	7	
2.4	10	
2.5	12	
2.6	25	
2.7		
2.8		
2.9		
3.0		
3.1		
3.2		
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4.1		
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4.8		
4.9		
5.0		

Remarks: Dynamic probe terminated at 2.70m bgl, refusal.	Fall Height (mm): 500	Cone Base Dia. (mm): 43
	Hammer Mass (Kg): 50.0	Cone Angle (Deg): 90
	Probe Type: DPH	Final Depth (m bgl): 2.70

		Priority Geotechnical Ltd. Tel: 021 4631600 Fax: 021 4638690 www.prioritygeotechnical.ie		Probe No DP 15 Sheet 1 of 1																																																																																																																																																	
Project Name: Portumna Social Housing - Site Investigation		Project No. P25032		Co-ords: 584869E - 704626N																																																																																																																																																	
Location: Co. Galway		Level: 41.92m OD		Hole Type DP																																																																																																																																																	
Client: Galway County Council		Dates: 18/04/2025		Scale 1:25 Logged By LG																																																																																																																																																	
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Remarks: Dynamic probe terminated at 2.20m bgl, refusal.		Fall Height (mm): 500		Cone Base Dia. (mm): 43																																																																																																																																																	
		Hammer Mass (Kg): 50.0		Cone Angle (Deg): 90																																																																																																																																																	
		Probe Type: DPH		Final Depth (m bgl): 2.20																																																																																																																																																	

Project Name:	Portumna Social Housing - Site Investigation	Project No.	P25032	Co-ords:	584919E - 704616N	Hole Type	DP
Location:	Co. Galway	Level:	41.98m OD	Scale	1:25	Logged By	LG
Client:	Galway County Council	Dates:	18/04/2025				



Remarks: Dynamic probe terminated at 2.70m bgl, refusal.	Fall Height (mm): 500	Cone Base Dia. (mm): 43
	Hammer Mass (Kg): 50.0	Cone Angle (Deg): 90
	Probe Type: DPH	Final Depth (m bgl): 2.70

		Priority Geotechnical Ltd. Tel: 021 4631600 Fax: 021 4638690 www.prioritygeotechnical.ie		Probe No DP17 Sheet 1 of 1																																																																														
Project Name: Portumna Social Housing - Site Investigation		Project No. P25032	Co-ords: 584898E - 704640N		Hole Type DP																																																																													
Location: Co. Galway			Level: 41.97m OD		Scale 1:25																																																																													
Client: Galway County Council			Dates: 18/04/2025		Logged By LG																																																																													
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Remarks: Dynamic probe terminated at 2.60m bgl, refusal.		Fall Height (mm): 500		Cone Base Dia. (mm): 43																																																																														
		Hammer Mass (Kg): 50.0		Cone Angle (Deg): 90																																																																														
		Probe Type: DPH		Final Depth (m bgl): 2.60																																																																														

KEY TO SYMBOLS - LABORATORY TEST RESULT

U	Undisturbed Sample	
P	Piston Sample	
TWS	Thin Wall Sample	
B	Bulk Sample - Disturbed	
D	Jar Sample - Disturbed	
W	Water Sample	
pH	Acidity/Alkalinity Index	
SO ₃	% - Total Sulphate Content (acid soluble)	
SO ₃	g/ltr - Water Soluble Sulphate (Water or 2:1 Aqueous Soil Extract)	
+	Calcareous Reaction	
Cl	Chloride Content	
PI	Plasticity Index	
<425	% of material in sample passing 425 micron sieve	
LL	Liquid Limit	
PL	Plastic Limit	
MC	Water Content	
NP	Non Plastic	
Y _b	Bulk Density	
Y _d	Dry Density	
Ps	Particle Density	
U/D	Undrained/Drained Triaxial	
U/C	Unconsolidated/Consolidated Triaxial	
T/M	Single Stage/Multistage Triaxial	
100/38	Sample Diameter (mm)	
REM	Remoulded Triaxial Test Specimen	
TST	Triaxial Suction Test	
V	Vane Test	
DSB	Drained Shear Box	
RSB	Residual Shear Box	
RS	Ring Shear	
σ ₃	Cell Pressure	
σ ₁ -σ ₃	Deviator Stress	
c	Cohesion	
c ₋	Effective Cohesion Intercept	
φ	Angle of Shearing Resistance - Degrees	
φ ₋	Effective Angle of Shearing Resistance	
ε _f	Strain at Failure	
*	Failed under 1 st Load	
**	Failed under 2 nd Load	
#	Untestable	
##	Excessive Strain	
p _{-o}	Effective Overburden Pressure	
m _v	Coefficient of Volume Decrease	
c _v	Coefficient of Consolidation	
Opt	Optimum	
Nat	Natural	
Std	Standard Compaction - 2.5kg Rammer	(¶ CBR)
Hvy	Heavy Compaction - 4.5kg Rammer	(§ CBR)
Vib	Vibratory Compaction	
CBR	California Bearing Ratio	
Sat m.c.	Saturation Moisture Content	
MCV	Moisture Condition Value	

Natural Moisture Content/Atterberg Limits Summary

Job Ref

BS 1377 : Part 2 : 1990 : Clause 3

Location

Portumna Social Housing - Site Investigation

P25032

Hole ID	Sample Ref	Depth (m)	Sample Type	Sample Description	MC	LL	PL	PI	% Pass 425
BP 01	1	0.6	B	Slightly sandy gravelly SILT	32				
BP 02	1	0.7	B	Slightly sandy gravelly SILT	34				
BP 03	1	0.6	B	Slightly sandy gravelly SILT	32				
BP 04	1	0.5	B	Gravelly SILT	28				
BP 05	1	0.5	B	Slightly sandy gravelly SILT	23				
BP 07	1	0.7	B	Slightly sandy gravelly SILT	19				
TP 01	1	0.6	B	Slightly gravelly sandy CLAY with low cobble content		29	20	9	68.3
TP 01	2	0.6	D	Slightly gravelly sandy CLAY with low cobble content	12				
TP 01	4	1.3	D	Very clayey very sandy GRAVEL with low cobble content	9				
TP 02	2	0.5	D	Clayey very gravelly SAND with low cobble content	16				
TP 02	4	1.5	D	Clayey very gravelly SAND with high cobble content	12				
TP 04	1	0.5	B	Slightly gravelly sandy SILT		60	38	22	89.3
TP 04	2	0.5	D	Slightly gravelly sandy SILT	31				
TP 04	4	1.5	D	Slightly gravelly sandy CLAY	12				
TP 04	6	2.5	D	Slightly gravelly sandy SILT	16				
TP 06	1	0.5	B	Slightly sandy slightly gravelly SILT		68	47	21	94.1
TP 06	2	0.5	D	Slightly sandy slightly gravelly SILT	34				
TP 06	4	1.1	D	Slightly sandy gravelly CLAY	17				
TP 07	1	0.5	B	Slightly sandy slightly gravelly SILT		61	37	24	89.1
TP 07	2	0.5	D	Slightly sandy slightly gravelly SILT	34				

Location	Portumna Social Housing - Site Investigation	P25032
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[illegible]

PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P25032

Borehole / Pit
No

TP 01

Location

Portumna Social Housing - Site Investigation

Sample No

1

Depth

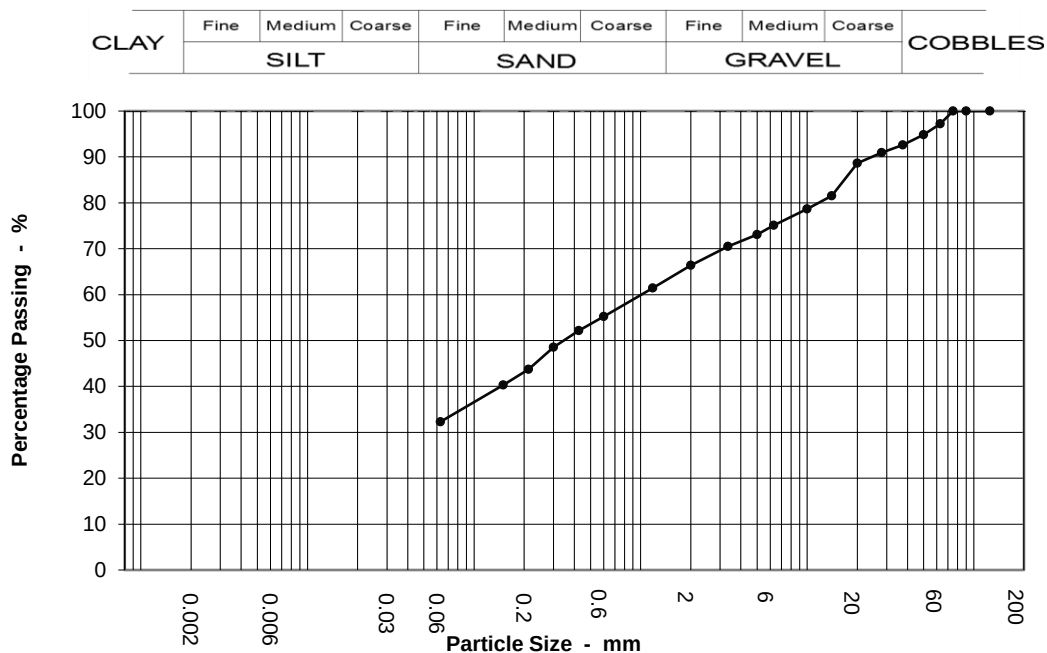
0.60 m

Soil Description

Slightly gravelly sandy CLAY with low cobble content

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	97		
50	95		
37.5	93		
28	91		
20	89		
14	82		
10	79		
6.3	75		
5	73		
3.35	70		
2	66		
1.18	61		
0.6	55		
0.425	52		
0.3	49		
0.212	44		
0.15	40		
0.063	32		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.3
Sedimentation	N/A

Sample Proportions	
Cobbles	3.0
Gravel	31.0
Sand	34.0
Silt & Clay	32.0

Grading Analysis	
D100	75.00
D60	1.01
D10	
Uniformity Coefficient	

PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P25032

Borehole / Pit
No

TP 01

Location

Portumna Social Housing - Site Investigation

Sample No

3

Depth

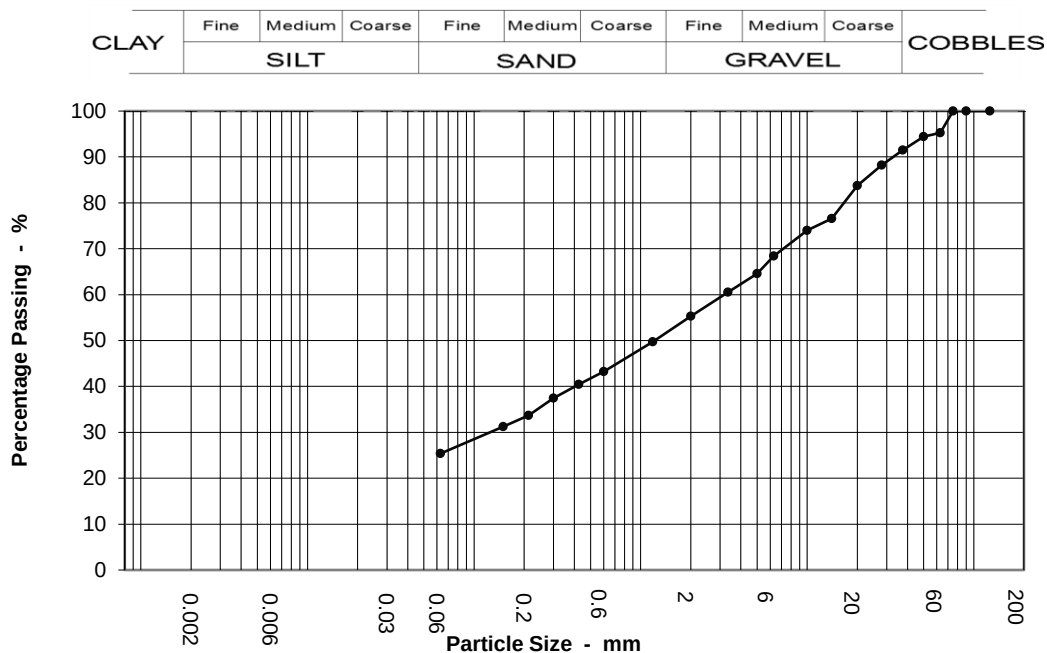
1.30 m

Soil Description

Very clayey very sandy GRAVEL with low cobble content

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	95		
50	94		
37.5	91		
28	88		
20	84		
14	77		
10	74		
6.3	68		
5	65		
3.35	61		
2	55		
1.18	50		
0.6	43		
0.425	40		
0.3	37		
0.212	34		
0.15	31		
0.063	25		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.3
Sedimentation	N/A

Sample Proportions	
Cobbles	5.0
Gravel	40.0
Sand	30.0
Silt & Clay	25.0

Grading Analysis	
D100	75.00
D60	3.18
D10	
Uniformity Coefficient	

PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P25032

Borehole / Pit
No

TP 02

Location

Portumna Social Housing - Site Investigation

Sample No

1

Depth

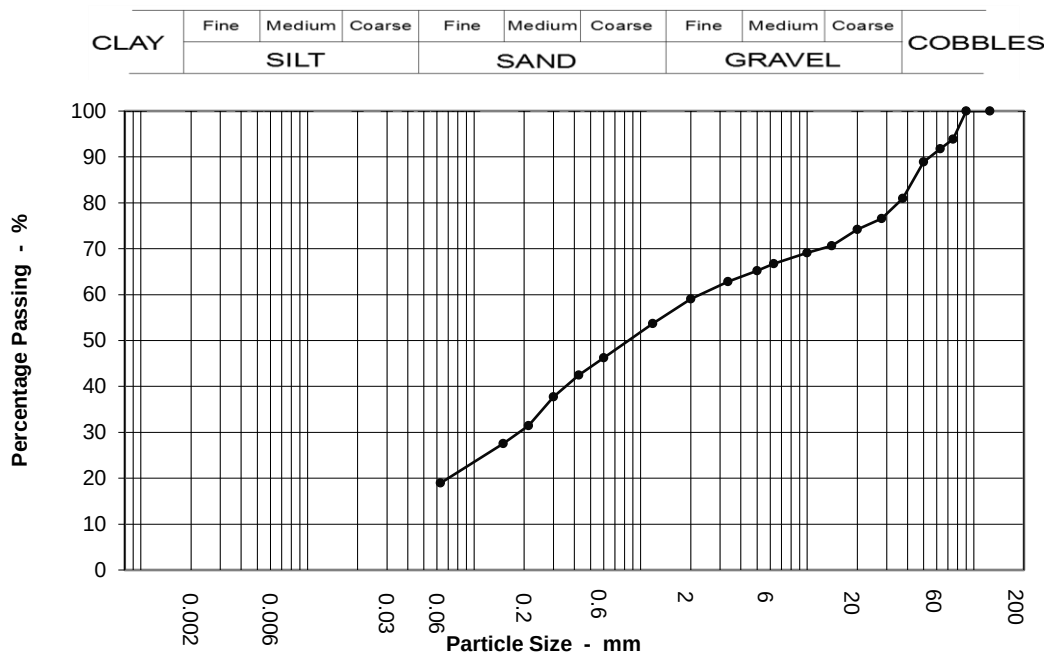
0.50 m

Soil Description

Clayey very gravelly SAND with low cobble content

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	94		
63	92		
50	89		
37.5	81		
28	77		
20	74		
14	71		
10	69		
6.3	67		
5	65		
3.35	63		
2	59		
1.18	54		
0.6	46		
0.425	42		
0.3	38		
0.212	31		
0.15	28		
0.063	19		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.3
Sedimentation	N/A

Sample Proportions	
Cobbles	8.0
Gravel	33.0
Sand	40.0
Silt & Clay	19.0

Grading Analysis	
D100	90.00
D60	2.27
D10	
Uniformity Coefficient	

PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P25032

Borehole / Pit
No

TP 02

Location

Portumna Social Housing - Site Investigation

Sample No

3

Depth

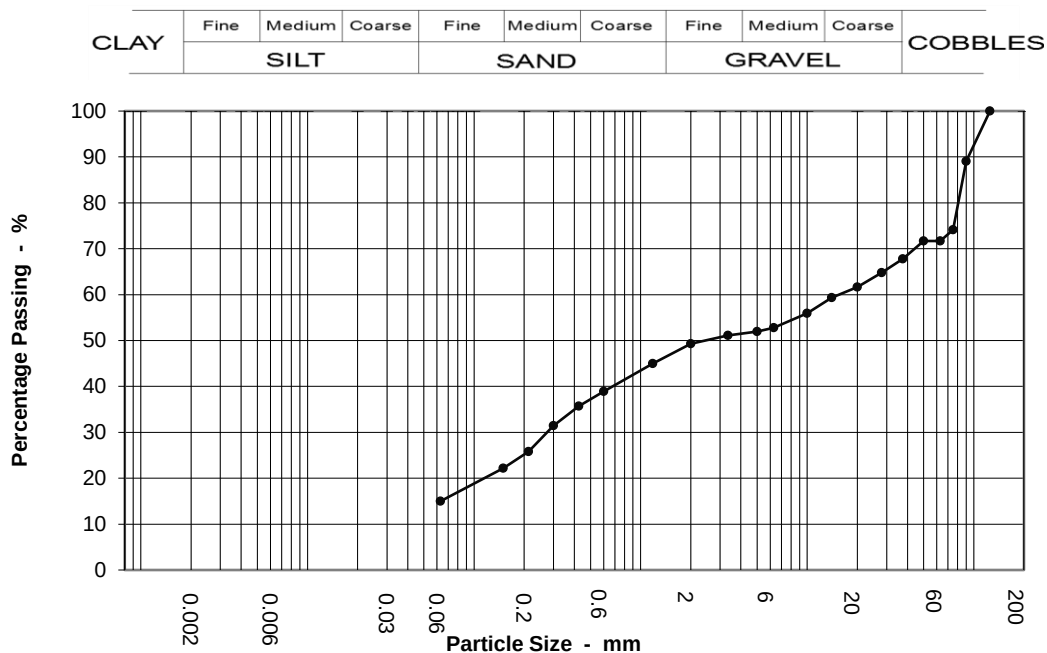
1.50 m

Soil Description

Clayey very gravelly SAND with high cobble content

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	89		
75	74		
63	72		
50	72		
37.5	68		
28	65		
20	62		
14	59		
10	56		
6.3	53		
5	52		
3.35	51		
2	49		
1.18	45		
0.6	39		
0.425	36		
0.3	31		
0.212	26		
0.15	22		
0.063	15		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.3
Sedimentation	N/A

Sample Proportions	
Cobbles	28.0
Gravel	22.0
Sand	34.0
Silt & Clay	15.0

Grading Analysis	
D100	125.00
D60	15.50
D10	
Uniformity Coefficient	

PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P25032

Borehole / Pit
No

TP 04

Location

Portumna Social Housing - Site Investigation

Sample No

1

Depth

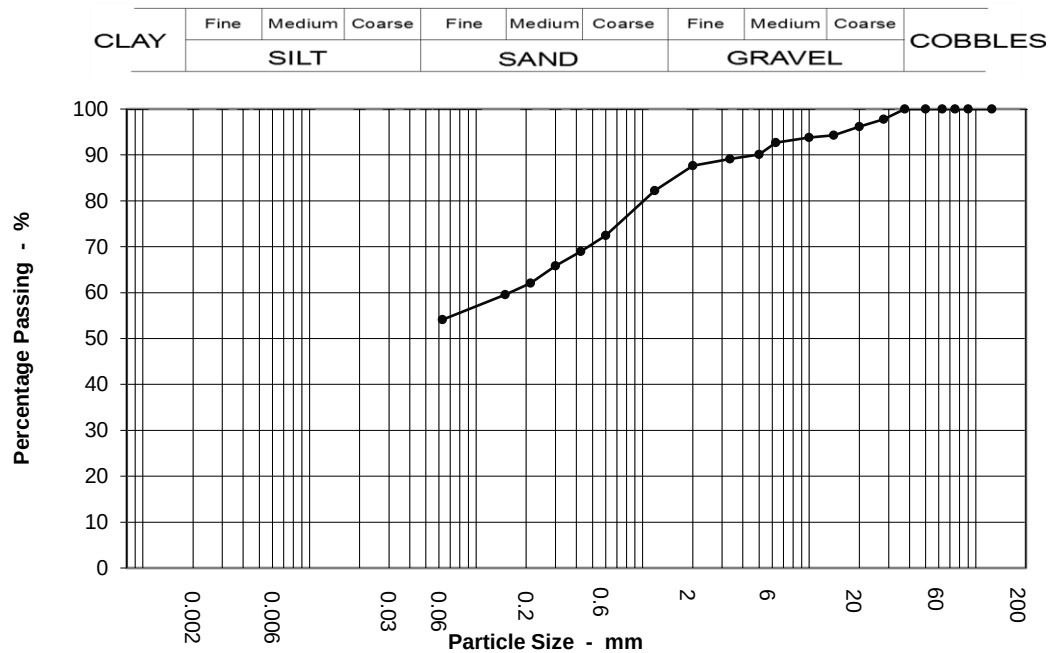
0.50 m

Soil Description

Slightly gravelly sandy SILT

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	98		
20	96		
14	94		
10	94		
6.3	93		
5	90		
3.35	89		
2	88		
1.18	82		
0.6	72		
0.425	69		
0.3	66		
0.212	62		
0.15	60		
0.063	54		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.3
Sedimentation	N/A

Sample Proportions	
Cobbles	0.0
Gravel	12.0
Sand	34.0
Silt & Clay	54.0

Grading Analysis	
D100	37.50
D60	0.16
D10	
Uniformity Coefficient	

PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P25032

Borehole / Pit
No

TP 04

Location

Portumna Social Housing - Site Investigation

Sample No

3

Depth

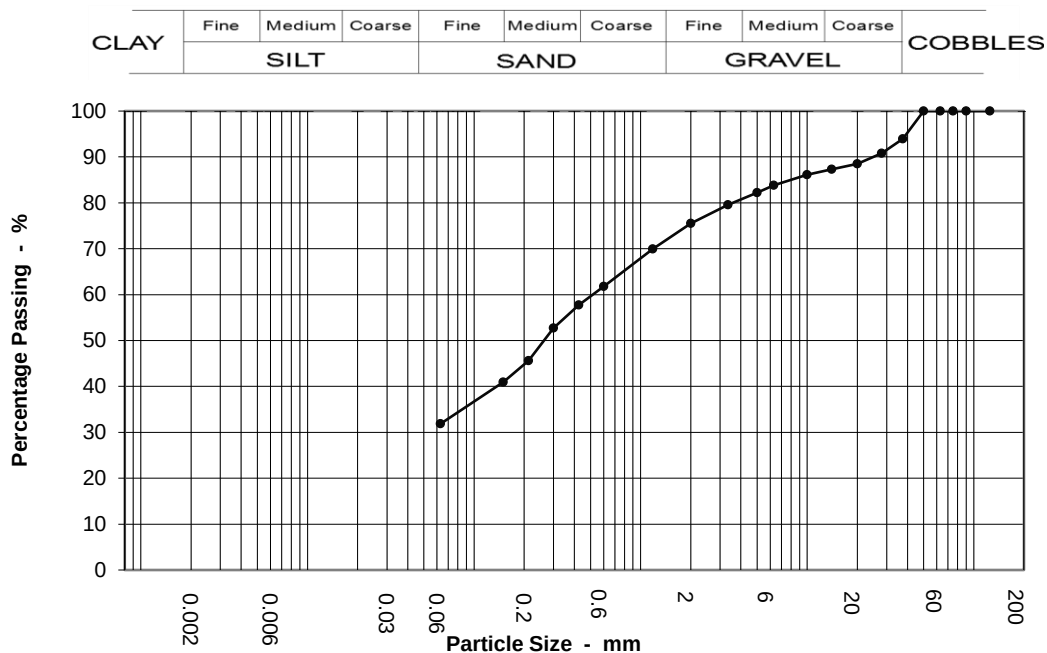
1.50 m

Soil Description

Slightly gravelly sandy CLAY

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	94		
28	91		
20	88		
14	87		
10	86		
6.3	84		
5	82		
3.35	80		
2	75		
1.18	70		
0.6	62		
0.425	58		
0.3	53		
0.212	46		
0.15	41		
0.063	32		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.3
Sedimentation	N/A

Sample Proportions	
Cobbles	0.0
Gravel	25.0
Sand	44.0
Silt & Clay	32.0

Grading Analysis	
D100	50.00
D60	0.51
D10	
Uniformity Coefficient	

PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P25032

Borehole / Pit
No

TP 05

Location

Portumna Social Housing - Site Investigation

Sample No

1

Depth

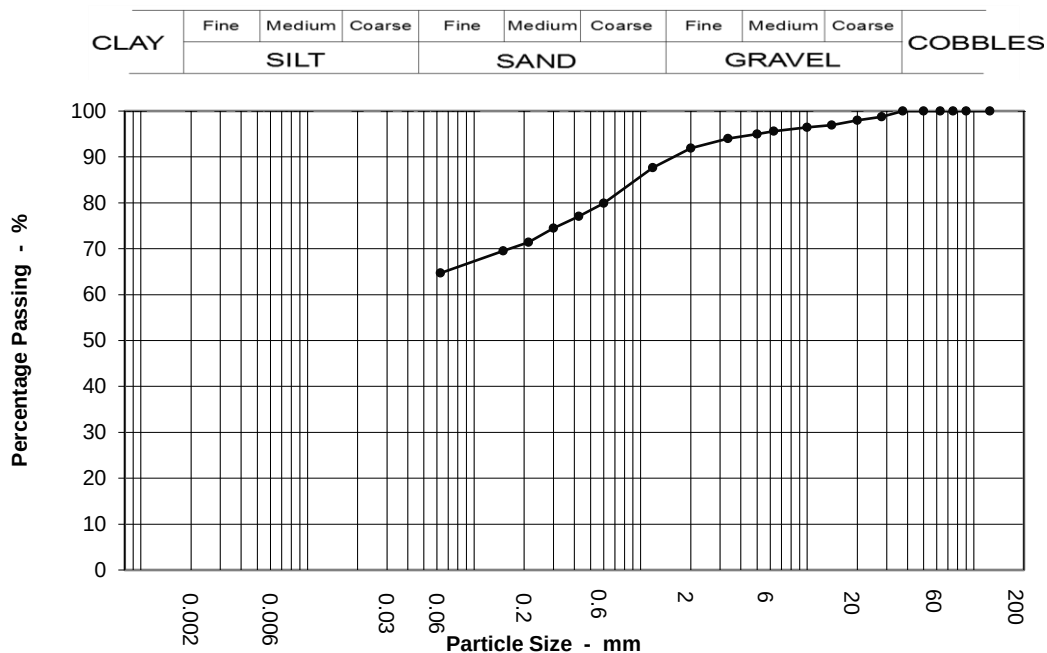
0.50 m

Soil Description

Slightly sandy SILT

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	99		
20	98		
14	97		
10	96		
6.3	96		
5	95		
3.35	94		
2	92		
1.18	88		
0.6	80		
0.425	77		
0.3	74		
0.212	71		
0.15	70		
0.063	65		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.3
Sedimentation	N/A

Sample Proportions	
Cobbles	0.0
Gravel	8.0
Sand	27.0
Silt & Clay	65.0

Grading Analysis	
D100	37.50
D60	
D10	
Uniformity Coefficient	

PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P25032

Borehole / Pit
No

TP 05

Location

Portumna Social Housing - Site Investigation

Sample No

2

Depth

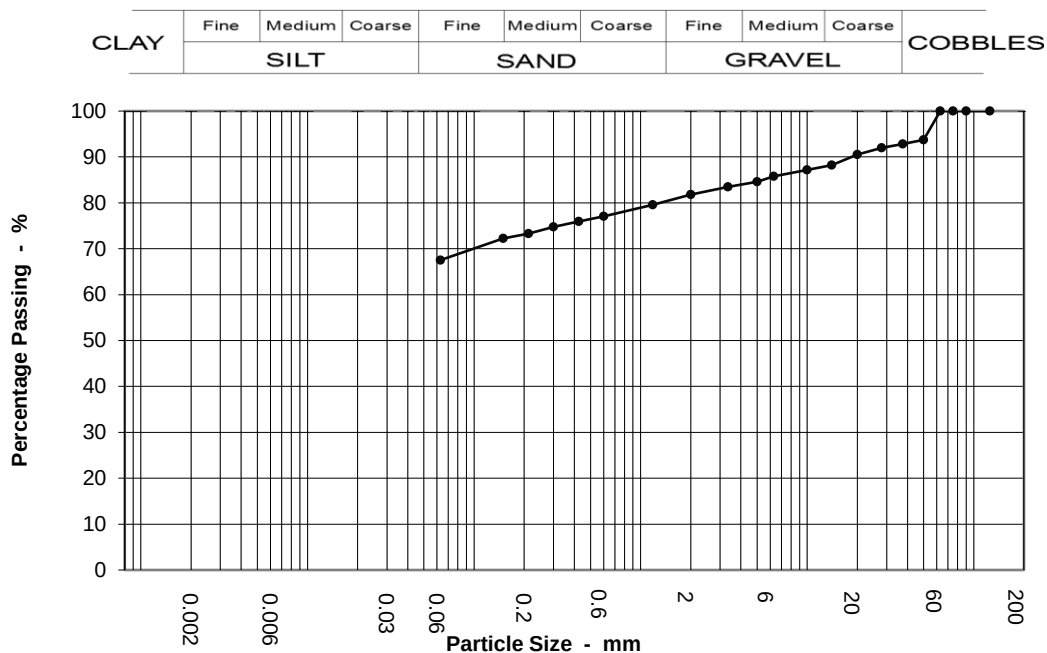
1.20 m

Soil Description

Slightly sandy slightly gravelly CLAY

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	94		
37.5	93		
28	92		
20	91		
14	88		
10	87		
6.3	86		
5	85		
3.35	83		
2	82		
1.18	80		
0.6	77		
0.425	76		
0.3	75		
0.212	73		
0.15	72		
0.063	68		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.3
Sedimentation	N/A

Sample Proportions	
Cobbles	0.0
Gravel	18.0
Sand	14.0
Silt & Clay	68.0

Grading Analysis	
D100	63.00
D60	
D10	
Uniformity Coefficient	

PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P25032

Borehole / Pit
No

TP 06

Location

Portumna Social Housing - Site Investigation

Sample No

1

Depth

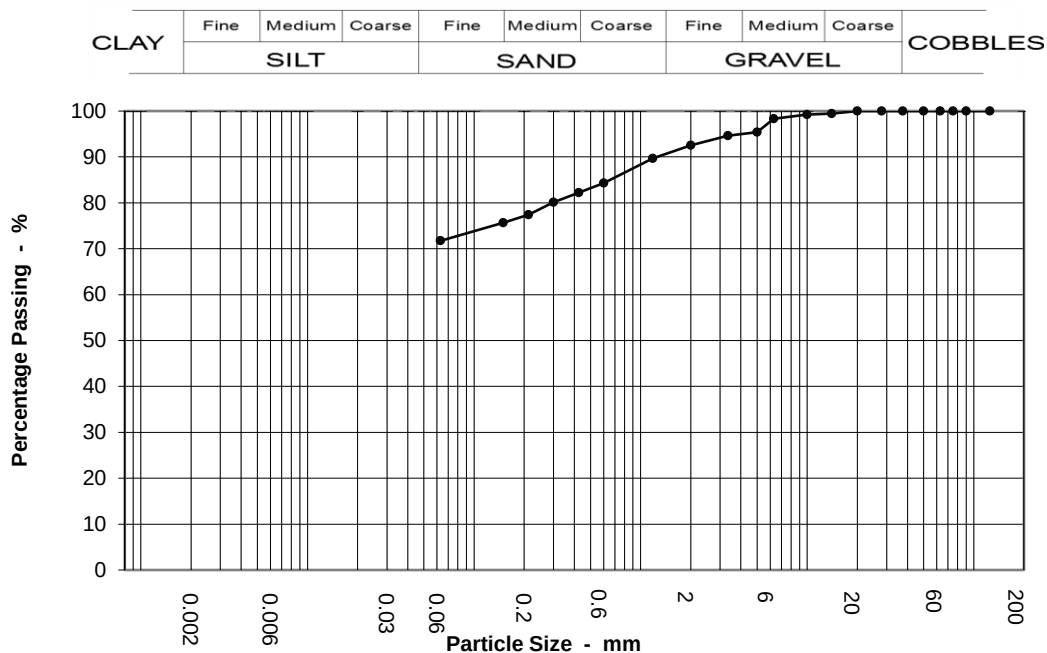
0.50 m

Soil Description

Slightly sandy slightly gravelly SILT

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	99		
10	99		
6.3	98		
5	95		
3.35	95		
2	93		
1.18	90		
0.6	84		
0.425	82		
0.3	80		
0.212	77		
0.15	76		
0.063	72		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.3
Sedimentation	N/A

Sample Proportions	
Cobbles	0.0
Gravel	7.0
Sand	21.0
Silt & Clay	72.0

Grading Analysis	
D100	20.00
D60	
D10	
Uniformity Coefficient	

PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P25032

Borehole / Pit
No

TP 07

Location

Portumna Social Housing - Site Investigation

Sample No

1

Depth

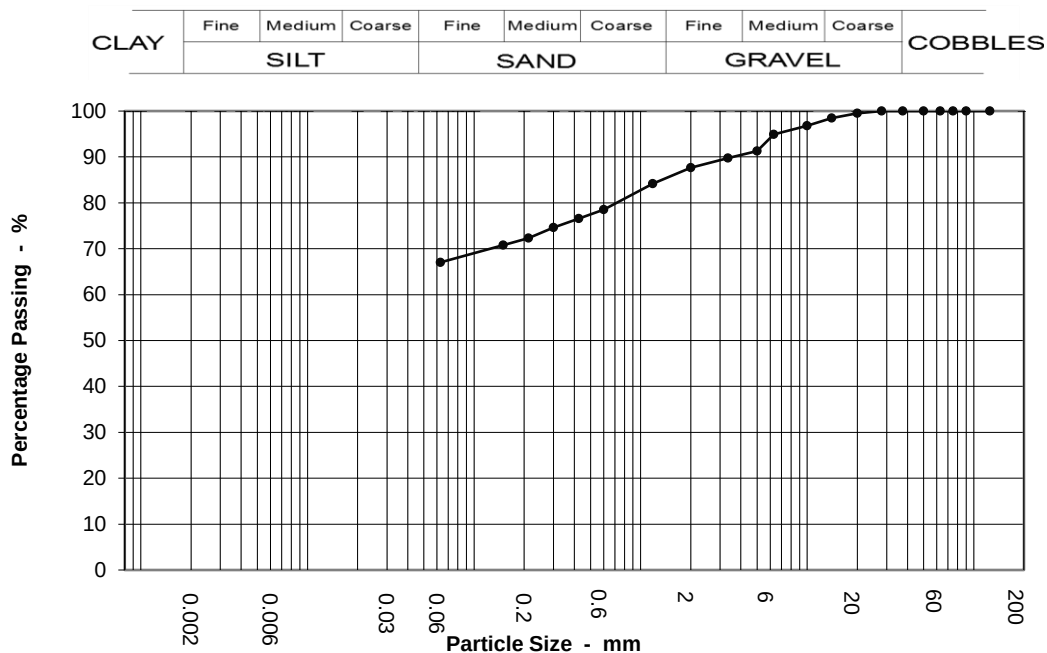
0.50 m

Soil Description

Slightly sandy slightly gravelly SILT

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	99		
14	98		
10	97		
6.3	95		
5	91		
3.35	90		
2	88		
1.18	84		
0.6	79		
0.425	77		
0.3	75		
0.212	72		
0.15	71		
0.063	67		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.3
Sedimentation	N/A

Sample Proportions	
Cobbles	0.0
Gravel	12.0
Sand	21.0
Silt & Clay	67.0

Grading Analysis	
D100	28.00
D60	
D10	
Uniformity Coefficient	

PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P25032

Borehole / Pit
No

TP 08

Location

Portumna Social Housing - Site Investigation

Sample No

1

Depth

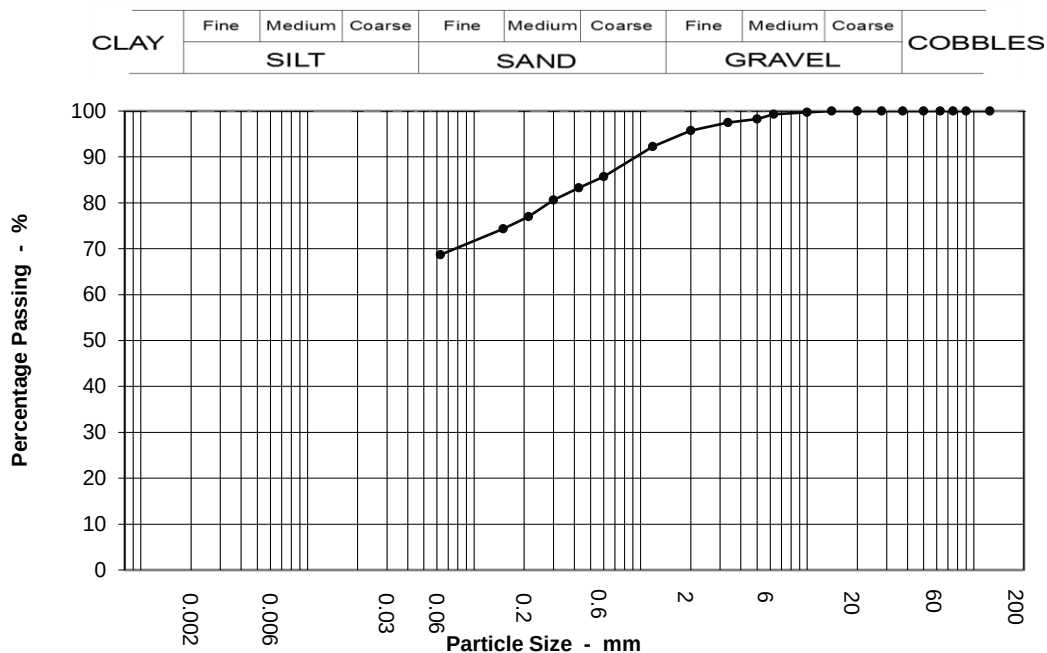
0.50 m

Soil Description

Slightly sandy SILT

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	100		
14	100		
10	100		
6.3	99		
5	98		
3.35	98		
2	96		
1.18	92		
0.6	86		
0.425	83		
0.3	81		
0.212	77		
0.15	74		
0.063	69		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.3
Sedimentation	N/A

Sample Proportions	
Cobbles	0.0
Gravel	4.0
Sand	27.0
Silt & Clay	69.0

Grading Analysis	
D100	20.00
D60	
D10	
Uniformity Coefficient	

PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P25032

Borehole / Pit
No

TP 08

Location

Portumna Social Housing - Site Investigation

Sample No

3

Depth

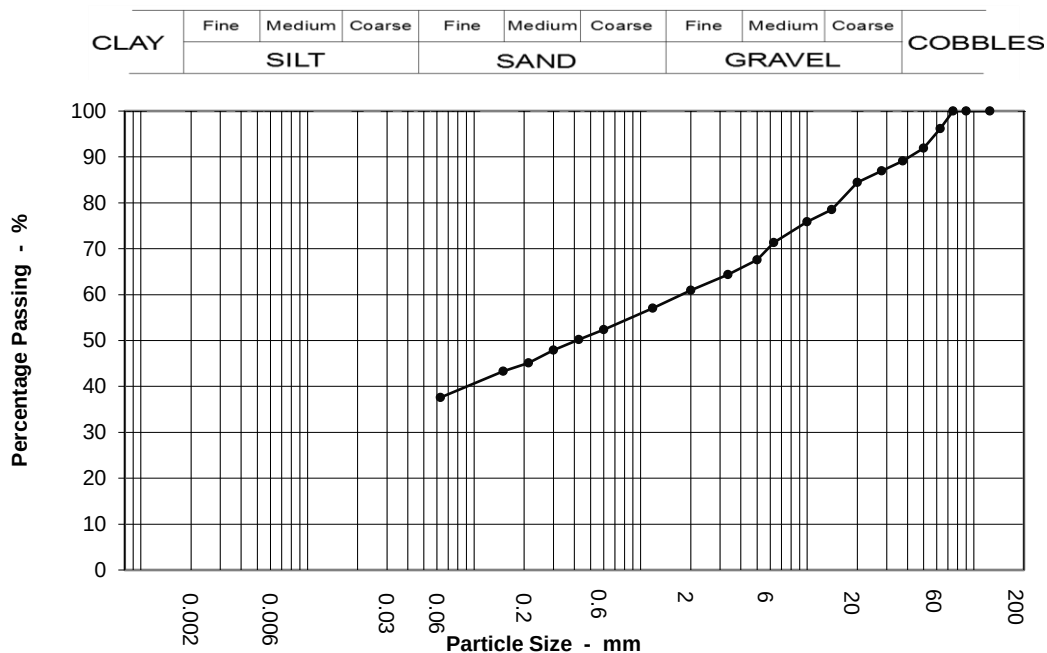
1.00 m

Soil Description

Slightly sandy gravelly CLAY

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	96		
50	92		
37.5	89		
28	87		
20	84		
14	79		
10	76		
6.3	71		
5	68		
3.35	64		
2	61		
1.18	57		
0.6	52		
0.425	50		
0.3	48		
0.212	45		
0.15	43		
0.063	38		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.3
Sedimentation	N/A

Sample Proportions	
Cobbles	4.0
Gravel	35.0
Sand	23.0
Silt & Clay	38.0

Grading Analysis	
D100	75.00
D60	1.76
D10	
Uniformity Coefficient	

PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P25032

Borehole / Pit
No

TP 08

Location

Portumna Social Housing - Site Investigation

Sample No

5

Depth

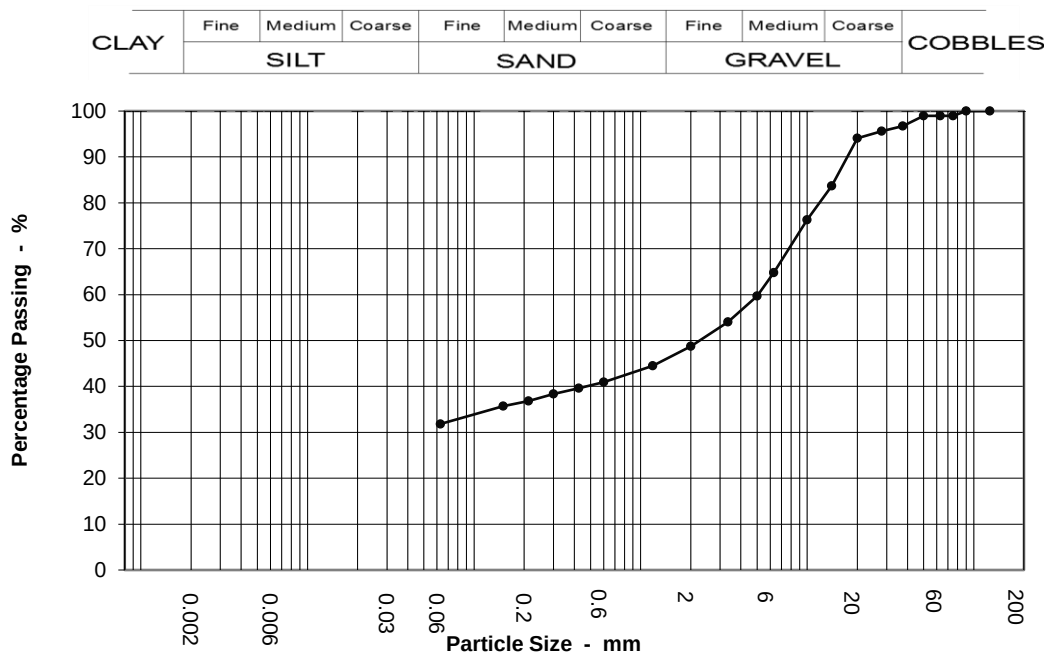
1.50 m

Soil Description

Slightly sandy gravelly CLAY with low cobble content

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	99		
63	99		
50	99		
37.5	97		
28	96		
20	94		
14	84		
10	76		
6.3	65		
5	60		
3.35	54		
2	49		
1.18	45		
0.6	41		
0.425	40		
0.3	38		
0.212	37		
0.15	36		
0.063	32		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.3
Sedimentation	N/A

Sample Proportions	
Cobbles	1.0
Gravel	50.0
Sand	17.0
Silt & Clay	32.0

Grading Analysis	
D100	90.00
D60	5.07
D10	
Uniformity Coefficient	

PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P25032

Borehole / Pit
No

TP 10

Location

Portumna Social Housing - Site Investigation

Sample No

3

Depth

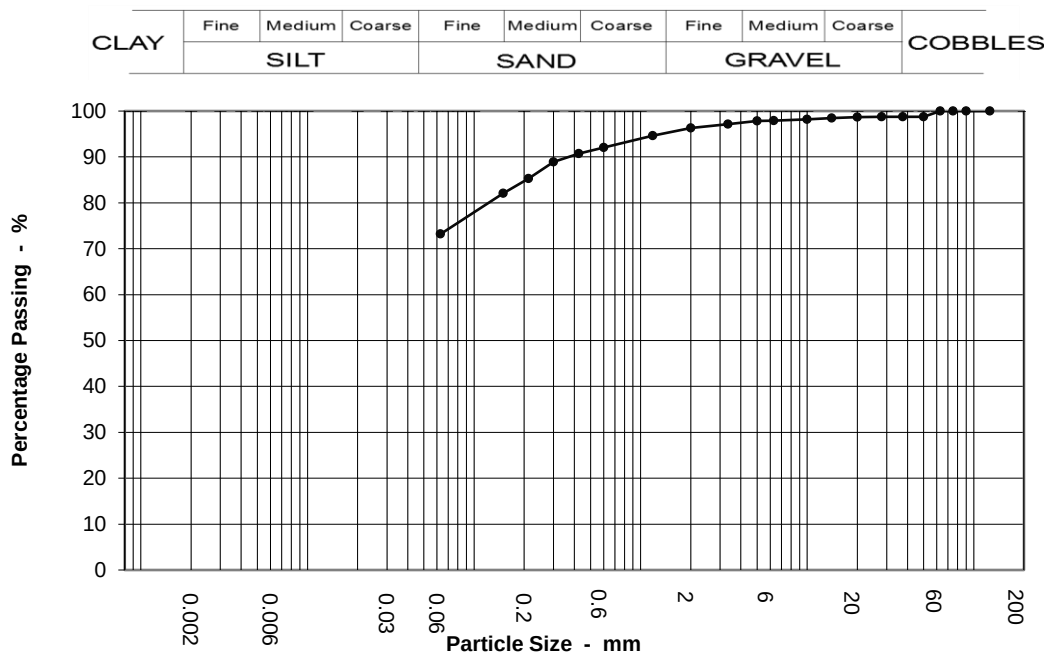
1.50 m

Soil Description

Slightly sandy CLAY

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	99		
37.5	99		
28	99		
20	99		
14	98		
10	98		
6.3	98		
5	98		
3.35	97		
2	96		
1.18	95		
0.6	92		
0.425	91		
0.3	89		
0.212	85		
0.15	82		
0.063	73		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.3
Sedimentation	N/A

Sample Proportions	
Cobbles	0.0
Gravel	4.0
Sand	23.0
Silt & Clay	73.0

Grading Analysis	
D100	63.00
D60	
D10	
Uniformity Coefficient	

PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P25032

Borehole / Pit
No

TP 11

Location

Portumna Social Housing - Site Investigation

Sample No

1

Depth

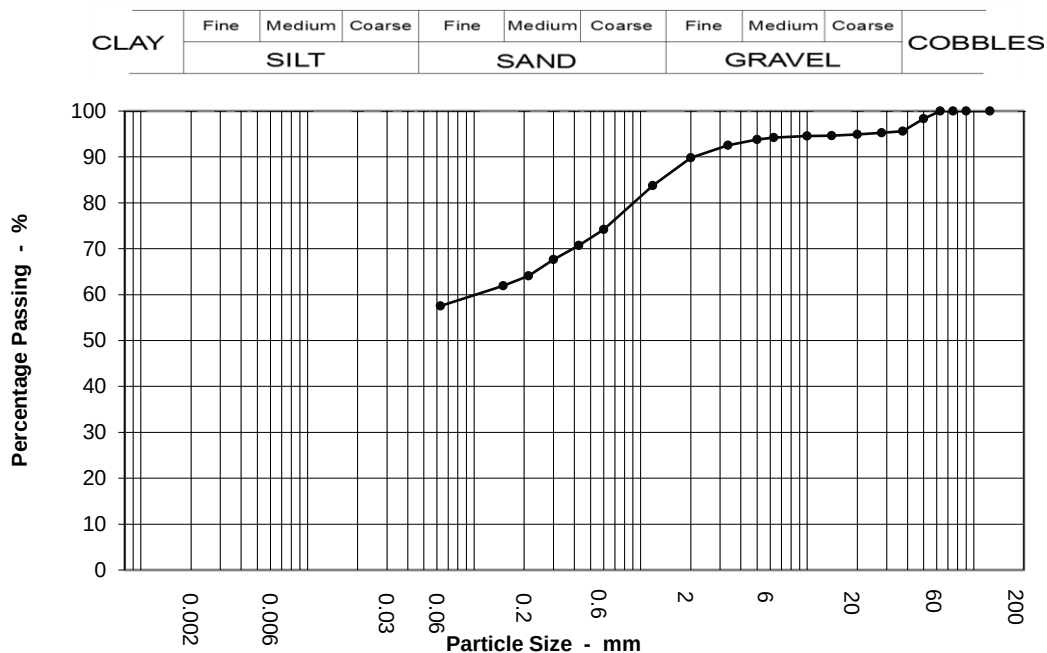
0.50 m

Soil Description

Slightly sandy slightly gravelly CLAY

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	98		
37.5	96		
28	95		
20	95		
14	95		
10	95		
6.3	94		
5	94		
3.35	93		
2	90		
1.18	84		
0.6	74		
0.425	71		
0.3	68		
0.212	64		
0.15	62		
0.063	58		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.3
Sedimentation	N/A

Sample Proportions	
Cobbles	0.0
Gravel	10.0
Sand	32.0
Silt & Clay	58.0

Grading Analysis	
D100	63.00
D60	0.10
D10	
Uniformity Coefficient	

PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P25032

Borehole / Pit
No

TP 11

Location

Portumna Social Housing - Site Investigation

Sample No

3

Depth

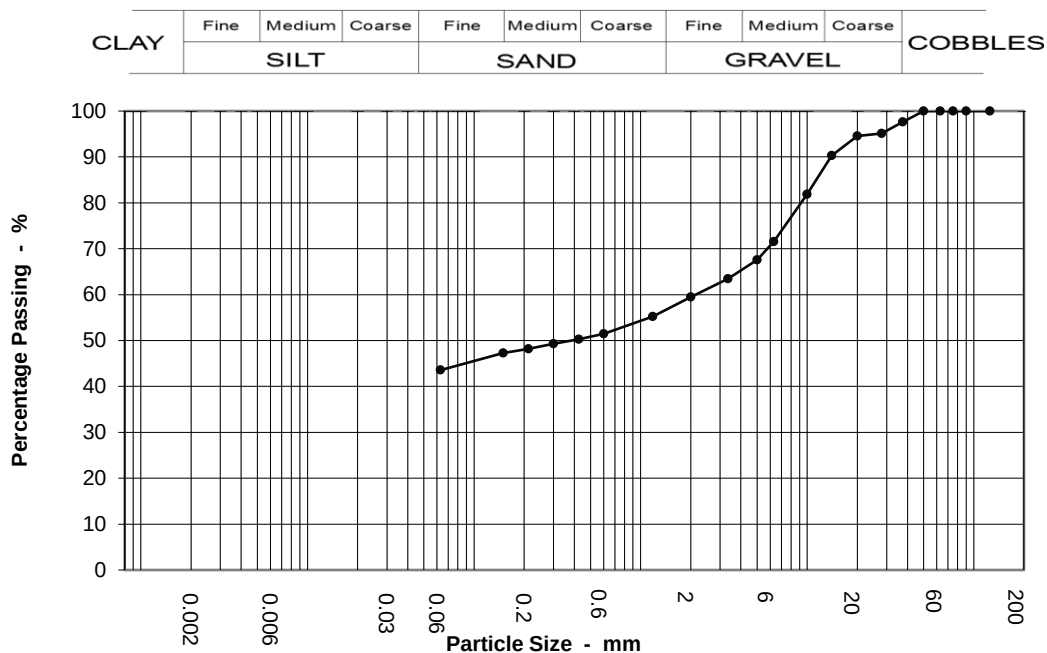
1.20 m

Soil Description

Slightly sandy gravelly CLAY

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	98		
28	95		
20	95		
14	90		
10	82		
6.3	72		
5	68		
3.35	63		
2	59		
1.18	55		
0.6	51		
0.425	50		
0.3	49		
0.212	48		
0.15	47		
0.063	44		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.3
Sedimentation	N/A

Sample Proportions	
Cobbles	0.0
Gravel	41.0
Sand	16.0
Silt & Clay	44.0

Grading Analysis	
D100	50.00
D60	2.14
D10	
Uniformity Coefficient	

PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P25032

Borehole / Pit
No

TP 12

Location

Portumna Social Housing - Site Investigation

Sample No

1

Depth

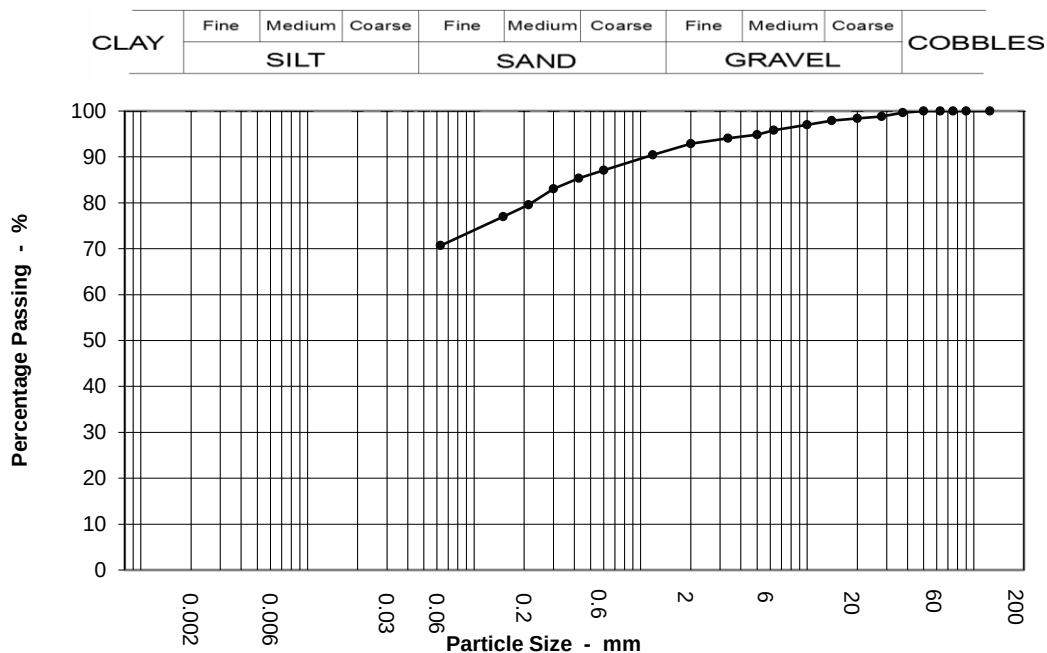
0.50 m

Soil Description

Slightly sandy SILT

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	99		
20	98		
14	98		
10	97		
6.3	96		
5	95		
3.35	94		
2	93		
1.18	90		
0.6	87		
0.425	85		
0.3	83		
0.212	80		
0.15	77		
0.063	71		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.3
Sedimentation	N/A

Sample Proportions	
Cobbles	0.0
Gravel	7.0
Sand	22.0
Silt & Clay	71.0

Grading Analysis	
D100	50.00
D60	
D10	
Uniformity Coefficient	

PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P25032

Borehole / Pit
No

TP 12

Location

Portumna Social Housing - Site Investigation

Sample No

4

Depth

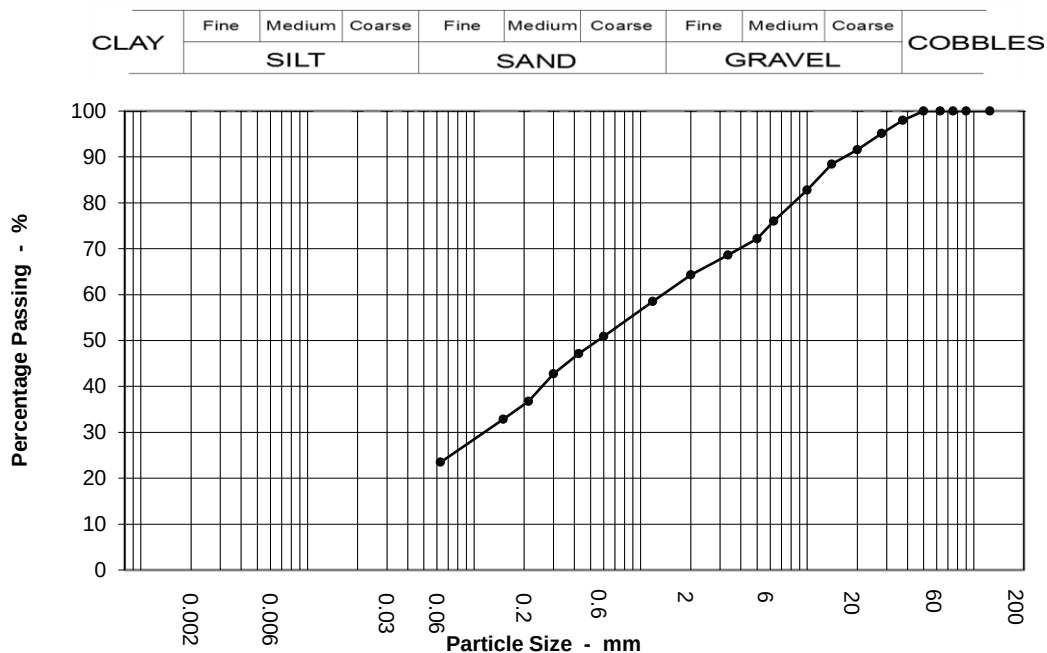
1.30 m

Soil Description

Very clayey very gravelly SAND

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	98		
28	95		
20	92		
14	88		
10	83		
6.3	76		
5	72		
3.35	69		
2	64		
1.18	58		
0.6	51		
0.425	47		
0.3	43		
0.212	37		
0.15	33		
0.063	23		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.3
Sedimentation	N/A

Sample Proportions	
Cobbles	0.0
Gravel	36.0
Sand	41.0
Silt & Clay	23.0

Grading Analysis	
D100	50.00
D60	1.35
D10	
Uniformity Coefficient	

PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P25032

Borehole / Pit
No

TP 12

Location

Portumna Social Housing - Site Investigation

Sample No

7

Depth

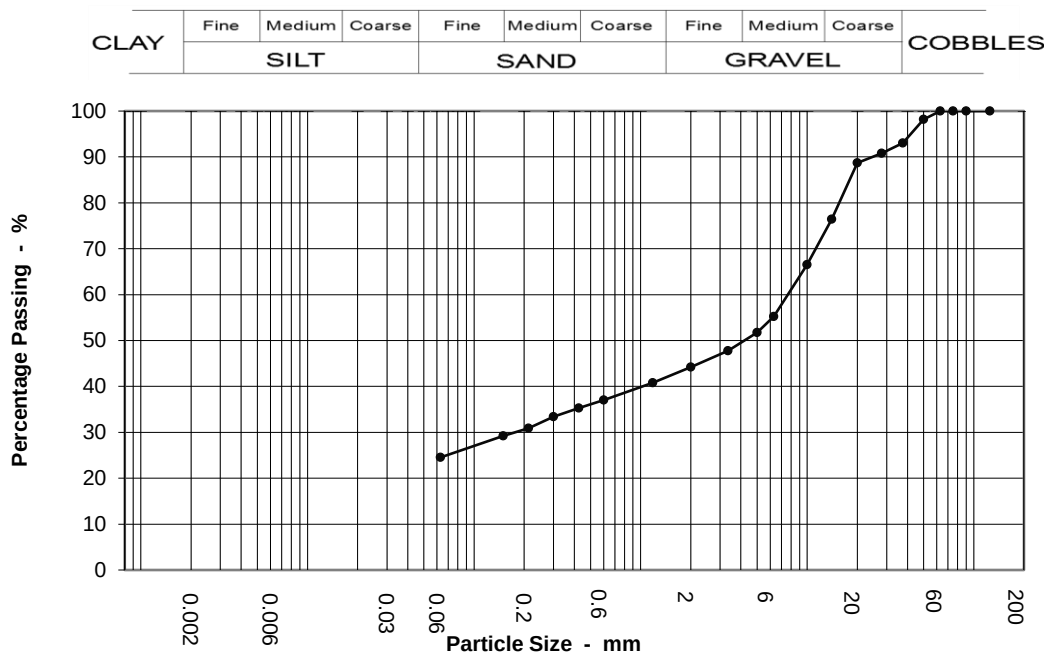
2.00 m

Soil Description

Very clayey very sandy GRAVEL

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	98		
37.5	93		
28	91		
20	89		
14	76		
10	66		
6.3	55		
5	52		
3.35	48		
2	44		
1.18	41		
0.6	37		
0.425	35		
0.3	33		
0.212	31		
0.15	29		
0.063	25		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.3
Sedimentation	N/A

Sample Proportions	
Cobbles	0.0
Gravel	56.0
Sand	20.0
Silt & Clay	25.0

Grading Analysis	
D100	63.00
D60	7.66
D10	
Uniformity Coefficient	

PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P25032

Borehole / Pit
No

TP SA01

Location

Portumna Social Housing - Site Investigation

Sample No

1

Depth

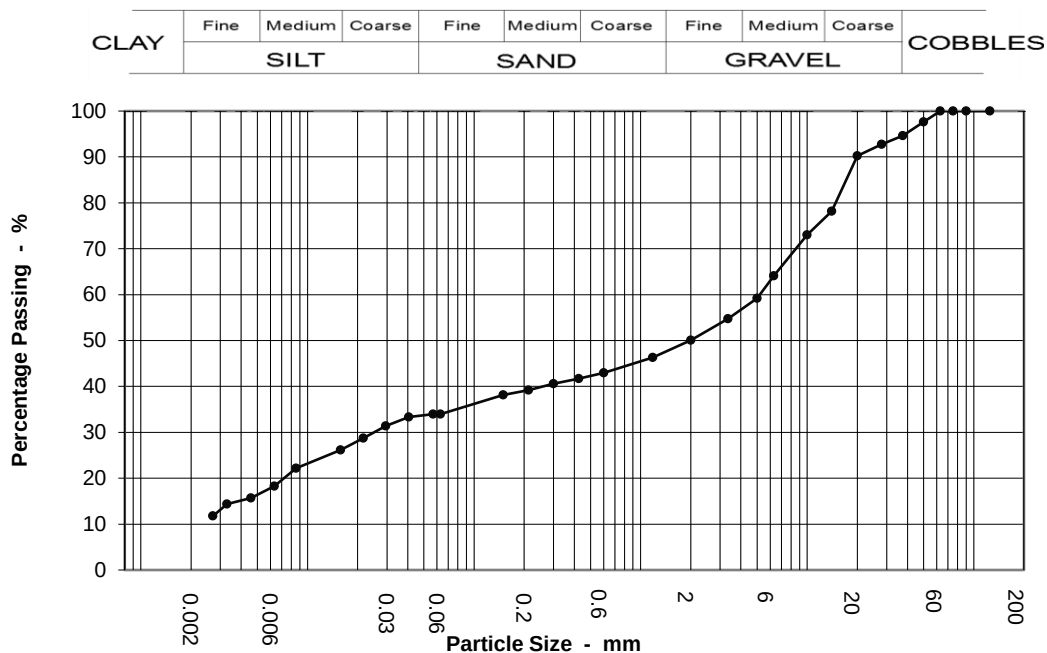
1.30 m

Soil Description

Slightly sandy gravelly CLAY

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.057	34
90	100	0.041	33
75	100	0.029	31
63	100	0.022	29
50	98	0.016	26
37.5	95	0.009	22
28	93	0.006	18
20	90	0.005	16
14	78	0.003	14
10	73	0.003	12
6.3	64	0.002	9
5	59		
3.35	55		
2	50		
1.18	46		
0.6	43		
0.425	42		
0.3	41		
0.212	39		
0.15	38		
0.063	34		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.5
Sedimentation	Clause 9.5

Sample Proportions	
Cobbles	0.0
Gravel	50.0
Sand	16.0
Silt	24.0
Clay	10.0

Grading Analysis	
D100	63.00
D60	5.20
D10	0.00
Uniformity Coefficient	2800.00

PARTICLE SIZE DISTRIBUTION

BS 1377 : Part 2 : 1990 : Clause 9

Job Ref

P25032

Borehole / Pit
No

TP SA01

Location

Portumna Social Housing - Site Investigation

Sample No

2

Depth

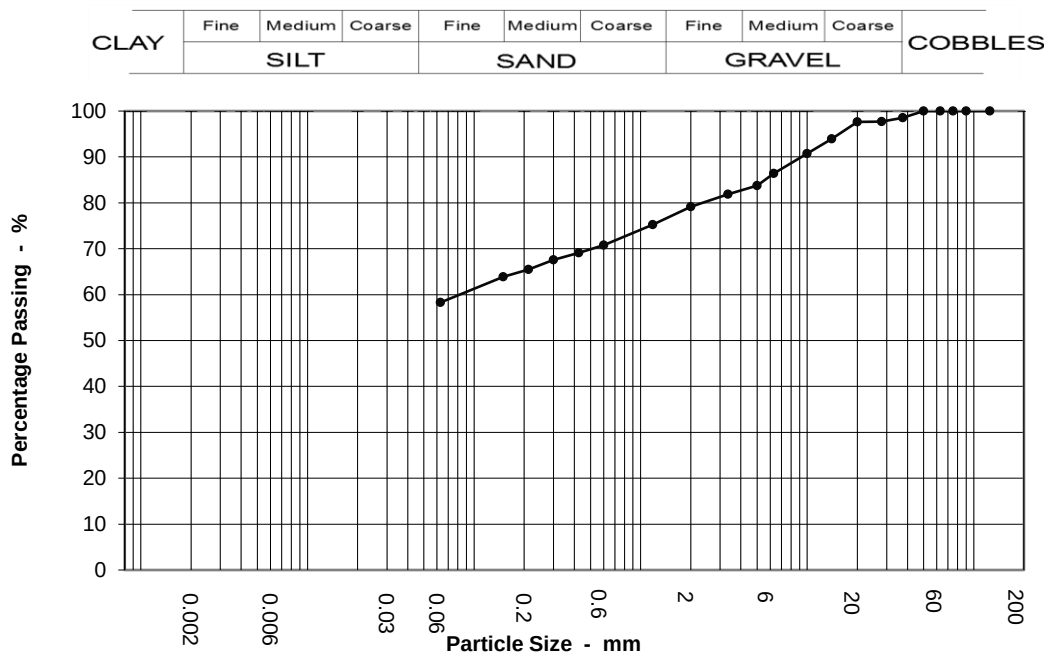
2.00 m

Soil Description

Slightly sandy slightly gravelly CLAY

Sample type

B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	99		
28	98		
20	98		
14	94		
10	91		
6.3	86		
5	84		
3.35	82		
2	79		
1.18	75		
0.6	71		
0.425	69		
0.3	68		
0.212	66		
0.15	64		
0.063	58		

Test Method	
BS 1377 : Part 2 : 1990	
Sieving	Clause 9.3
Sedimentation	N/A

Sample Proportions	
Cobbles	0.0
Gravel	21.0
Sand	21.0
Silt & Clay	58.0

Grading Analysis	
D100	50.00
D60	0.08
D10	
Uniformity Coefficient	

Moisture Condition Value

BS 1377 : Part 4 : 1990 Clause 5

Job Ref

P25032

Location

Portumna Social Housing - Site Investigation

Borehole / Pit
No

TP 01

Sample No

1

Soil Description

Slightly gravelly sandy CLAY with low cobble content

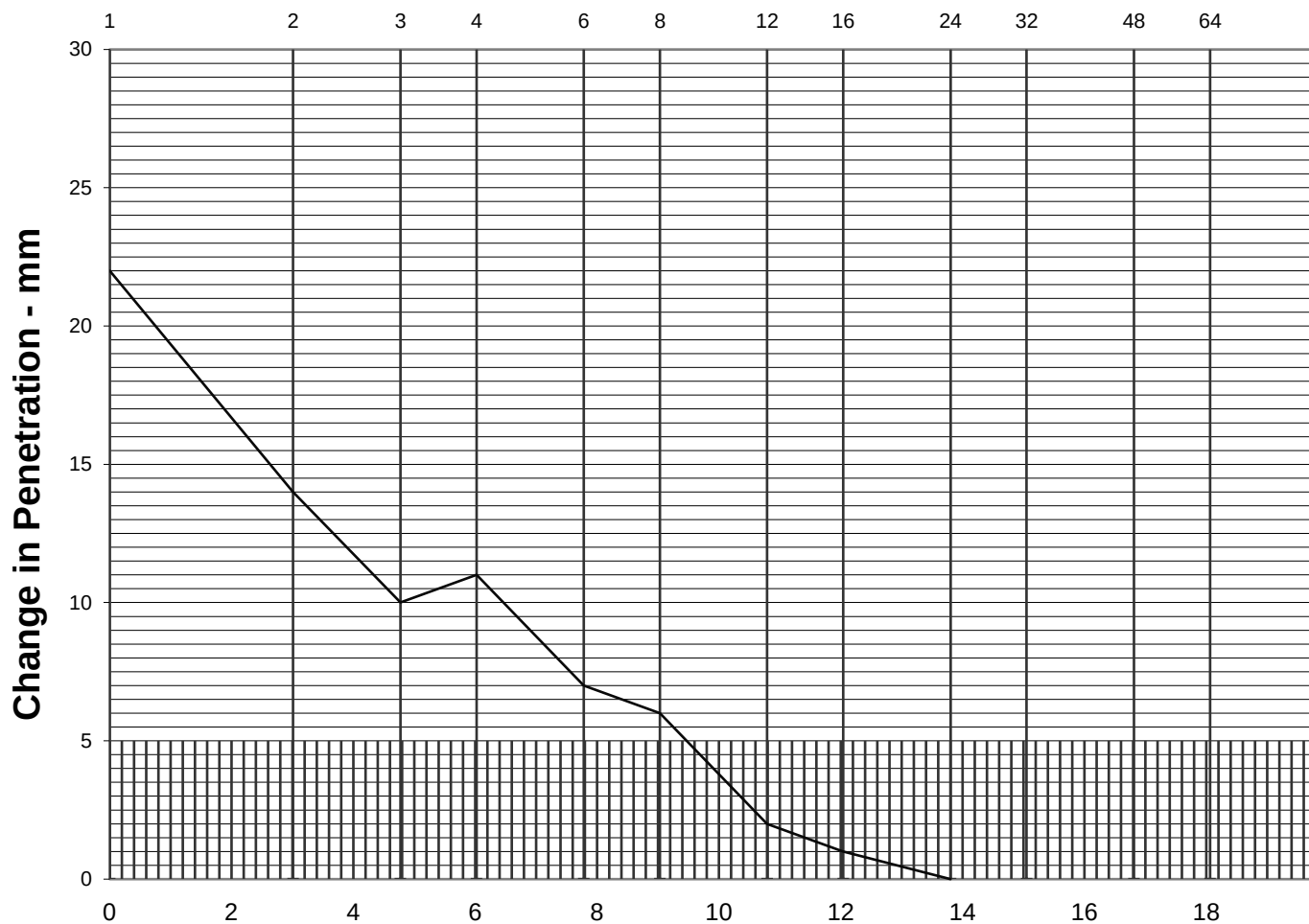
Sample Type

B

Depth

0.60 m

Number of Blows



Moisture Condition Value

Specimen No	1	2	3	4	5	6
Moisture Condition Value	6.4					
Moisture Content %	13.42					
Bulk density after compaction Mg/m ³	2.22					
Dry density after compaction Mg/m ³	1.96					
Hand vane strength kPa						
Method of determining MCV	Steepest fit line	Steepest fit line	Steepest fit line	Steepest fit line	Steepest fit line	
Mass retained on 20mm sieve %	10.8					

Moisture Condition Value

BS 1377 : Part 4 : 1990 Clause 5

Job Ref

P25032

Location

Portumna Social Housing - Site Investigation

Borehole / Pit
No

TP 04

Sample No

1

Soil Description

Slightly gravelly sandy SILT

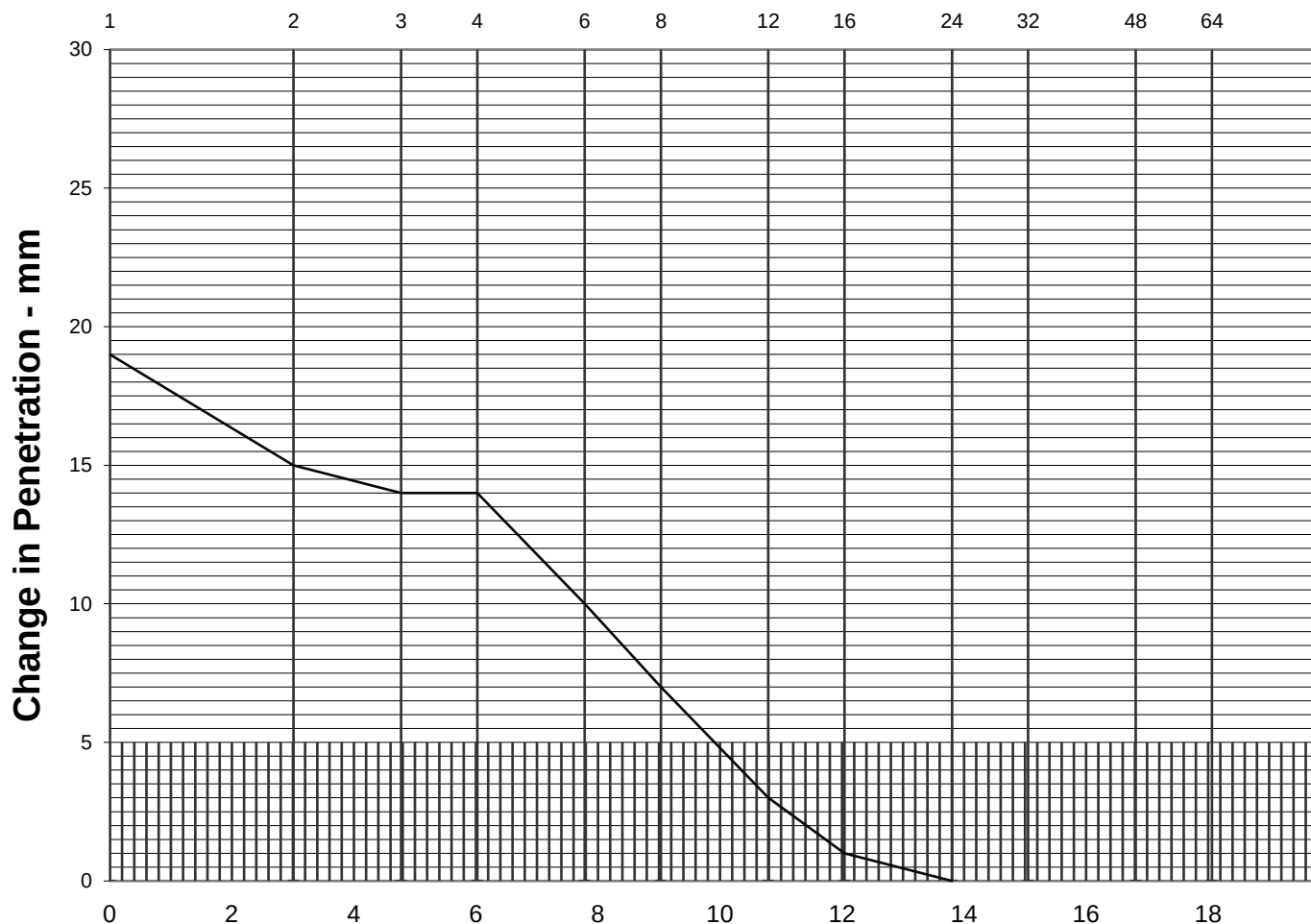
Sample Type

B

Depth

0.50 m

Number of Blows



Moisture Condition Value

Specimen No	1	2	3	4	5	6
Moisture Condition Value	9.9					
Moisture Content %	28.25					
Bulk density after compaction Mg/m ³	1.89					
Dry density after compaction Mg/m ³	1.47					
Hand vane strength kPa						
Method of determining MCV	Steepest fit line	Steepest fit line	Steepest fit line	Steepest fit line	Steepest fit line	
Mass retained on 20mm sieve %	3.1					

Moisture Condition Value

BS 1377 : Part 4 : 1990 Clause 5

Job Ref

P25032

Location

Portumna Social Housing - Site Investigation

Borehole / Pit
No

TP 08

Sample No

3

Soil Description

Slightly sandy gravelly CLAY

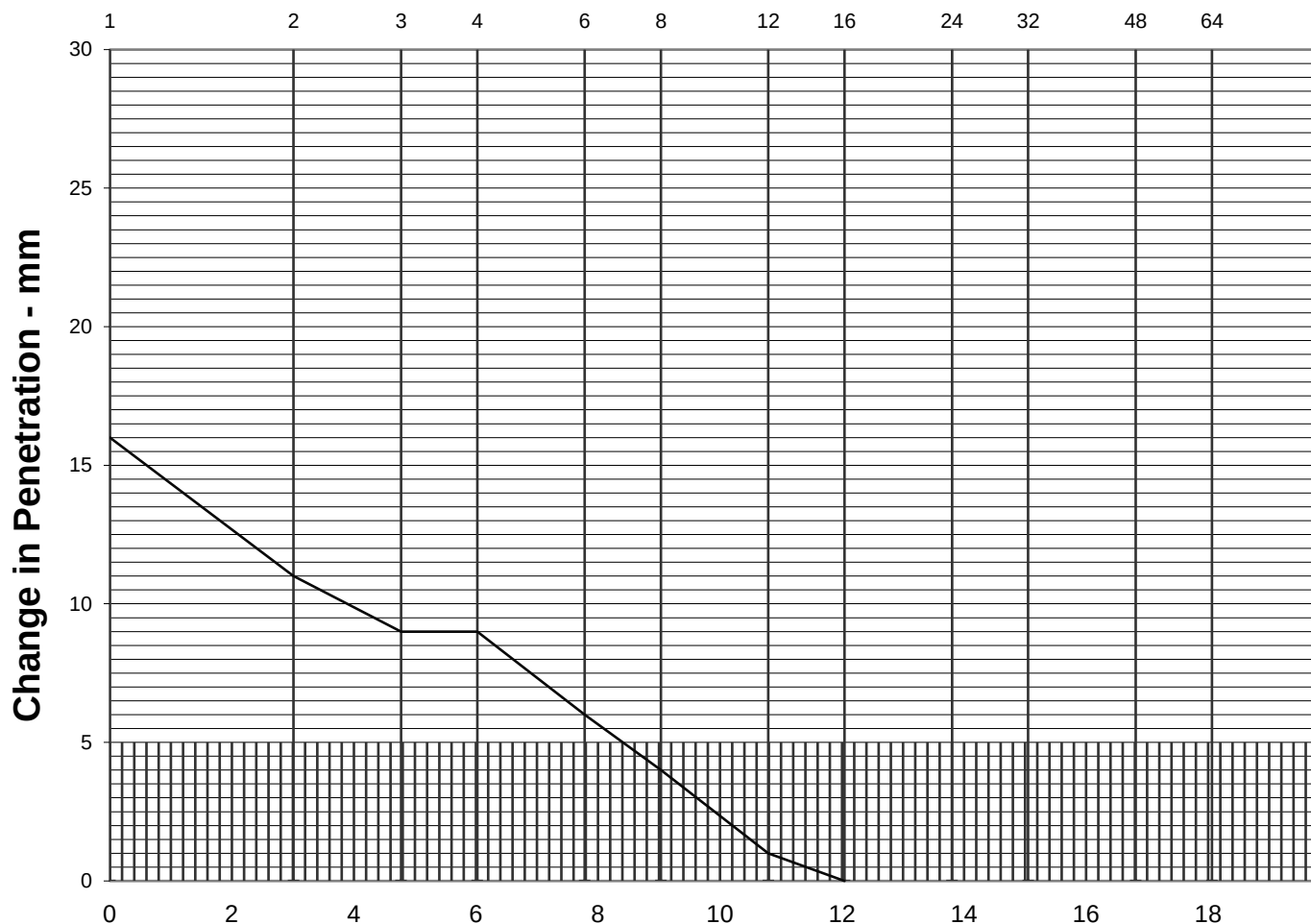
Sample Type

B

Depth

1.00 m

Number of Blows



Moisture Condition Value

Specimen No	1	2	3	4	5	6
Moisture Condition Value	8.4					
Moisture Content %	13.20					
Bulk density after compaction Mg/m ³	2.25					
Dry density after compaction Mg/m ³	1.99					
Hand vane strength kPa						
Method of determining MCV	Steepest fit line	Steepest fit line	Steepest fit line	Steepest fit line	Steepest fit line	
Mass retained on 20mm sieve %	14.5					

CALIFORNIA BEARING RATIO

BS 1377 : Part 4 : 1990 Clause 7.4

Job Ref

P25032

Borehole / Pit
No

TP 05

Site Name

Portumna Social Housing - Site Investigation

Sample No

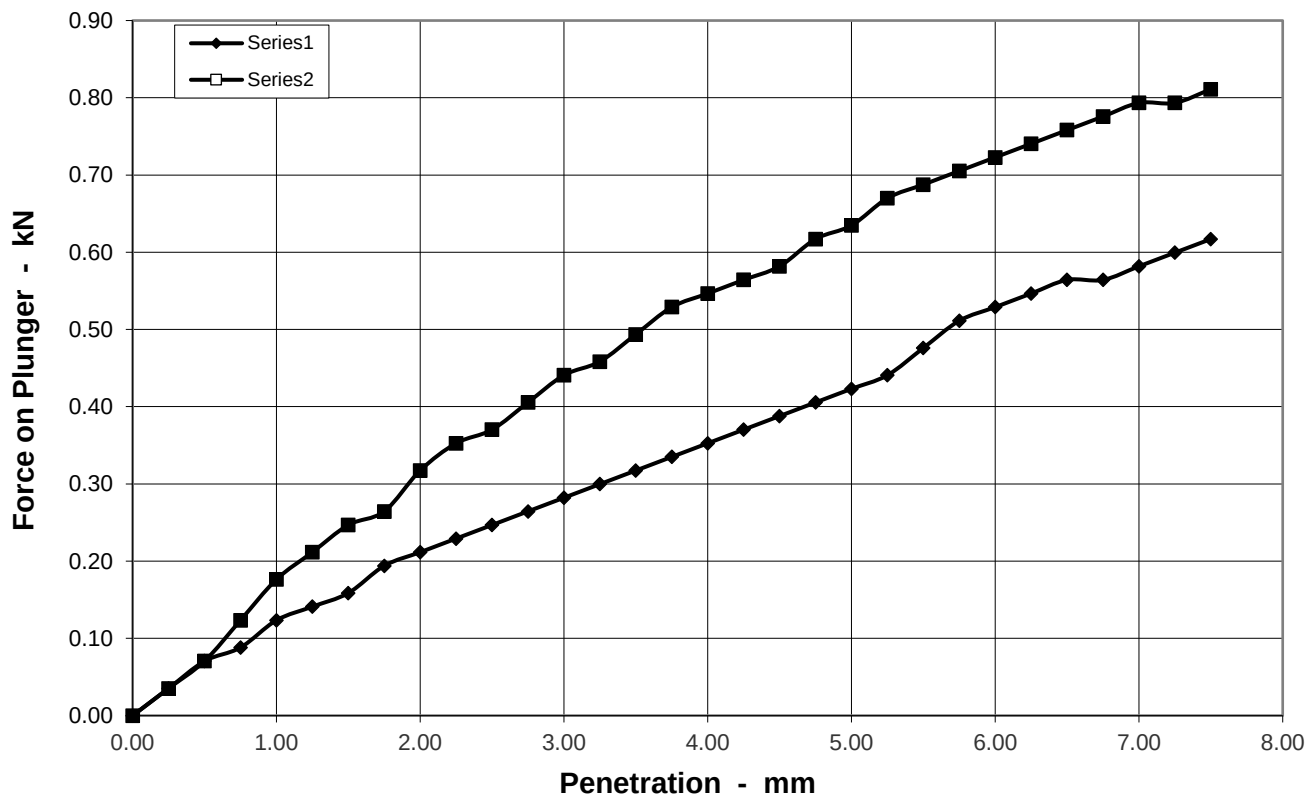
1

Depth

0.5 m

Soil Description

Slightly sandy SILT



Preparation	Method of Compaction	
	Hammer type	2.5kg Rammer
	Soaking Period	days
	Amount of Swell	mm

Sample Conditions		
Natural Moisture Content	%	32.0
Moisture Content - TOP	%	32.4
Moisture Content - BASE	%	31.8
Bulk Density	Mg/m ³	1.83
Dry Density	Mg/m ³	1.38

Test Conditions		
Sample Retained on 20 mm sieve	%	1.6
Seating Load - TOP	N	
Seating Load - BASE	N	
Surcharge	kg	8

Penetration mm	CBR Values %	
	TOP	BASE
2.5	1.9	2.8
5	2.1	3.2
Accepted CBR	2.1	3.2

Remarks

CALIFORNIA BEARING RATIO

BS 1377 : Part 4 : 1990 Clause 7.4

Job Ref

P25032

Borehole / Pit
No

TP 06

Site Name

Portumna Social Housing - Site Investigation

Sample No

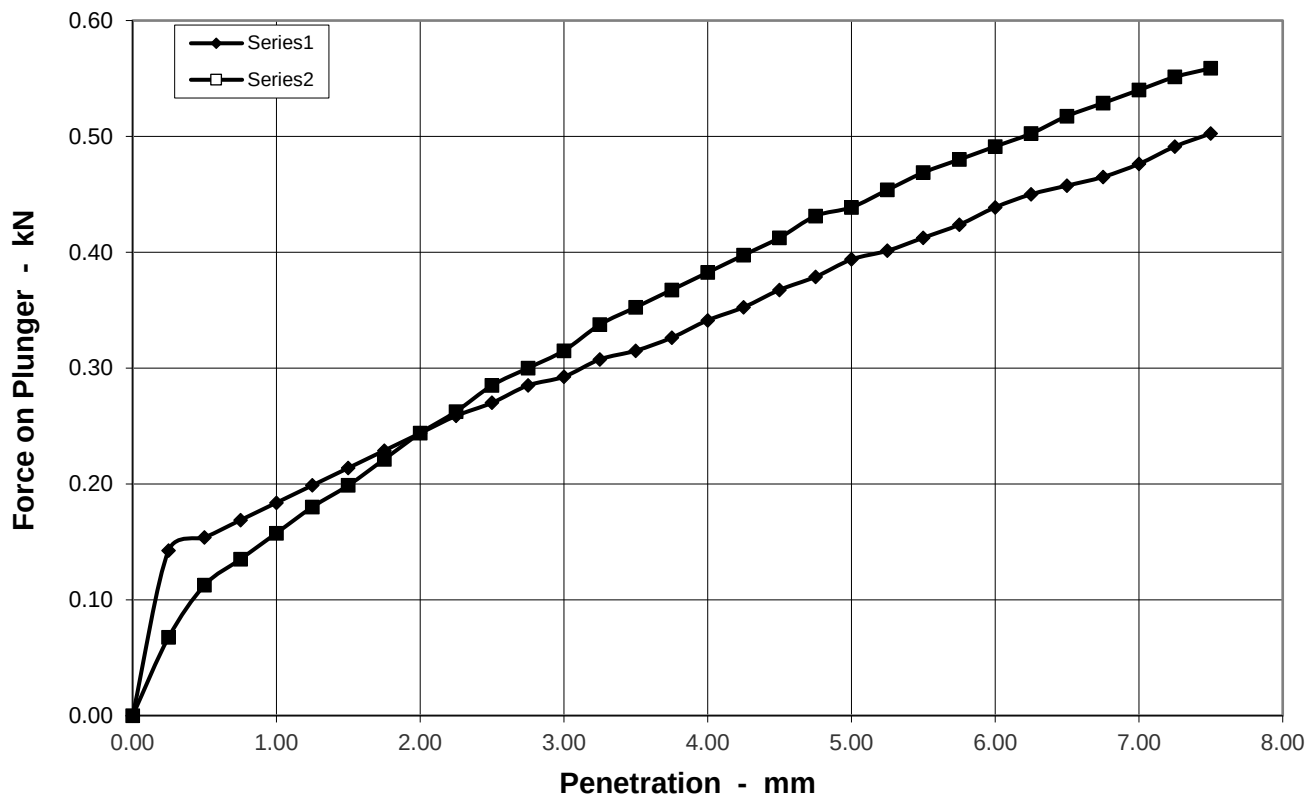
1

Depth

0.5 m

Soil Description

Slightly sandy slightly gravelly SILT



Preparation	Method of Compaction	
	Hammer type	2.5kg Rammer
	Soaking Period	days
	Amount of Swell	mm

Sample Conditions		
Natural Moisture Content	%	36.0
Moisture Content - TOP	%	35.8
Moisture Content - BASE	%	35.0
Bulk Density	Mg/m ³	1.80
Dry Density	Mg/m ³	1.32

Test Conditions		
Sample Retained on 20 mm sieve	%	0.0
Seating Load - TOP	N	
Seating Load - BASE	N	
Surcharge	kg	8

Penetration mm	CBR Values %	
	TOP	BASE
2.5	2.0	2.2
5	2.0	2.2
Accepted CBR	2.0	2.2

Remarks

CALIFORNIA BEARING RATIO

BS 1377 : Part 4 : 1990 Clause 7.4

Job Ref

P25032

Borehole / Pit
No

TP 08

Site Name

Portumna Social Housing - Site Investigation

Sample No

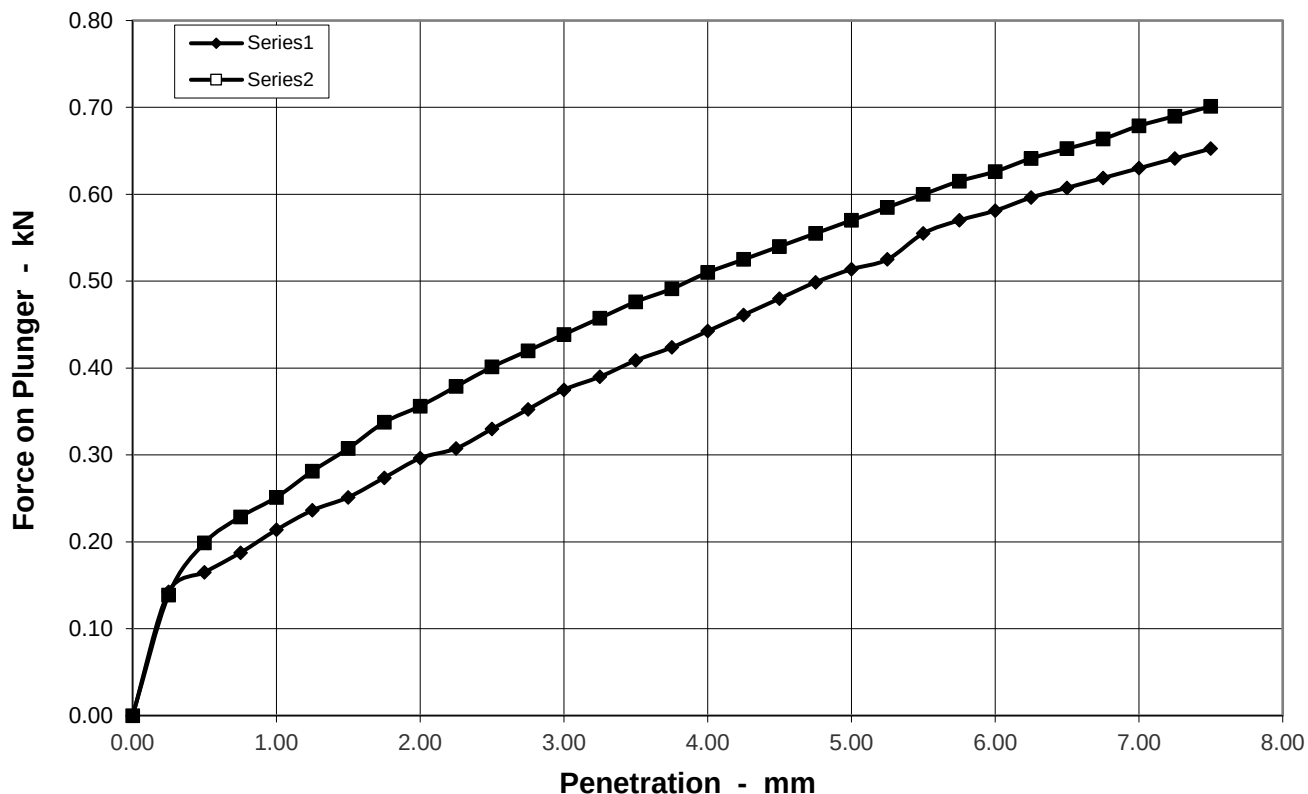
1

Depth

0.5 m

Soil Description

Slightly sandy SILT



Preparation	Method of Compaction	
	Hammer type	2.5kg Rammer
	Soaking Period	days
	Amount of Swell	mm

Sample Conditions		
Natural Moisture Content	%	34.0
Moisture Content - TOP	%	33.6
Moisture Content - BASE	%	33.9
Bulk Density	Mg/m ³	1.81
Dry Density	Mg/m ³	1.36

Test Conditions		
Sample Retained on 20 mm sieve	%	0.0
Seating Load - TOP	N	
Seating Load - BASE	N	
Surcharge	kg	8

Penetration mm	CBR Values %	
	TOP	BASE
2.5	2.5	3.0
5	2.6	2.9
Accepted CBR	2.6	3.0

Remarks

CALIFORNIA BEARING RATIO

BS 1377 : Part 4 : 1990 Clause 7.4

Job Ref

P25032

Borehole / Pit No

TP 11

Site Name

Portumna Social Housing - Site Investigation

Sample No

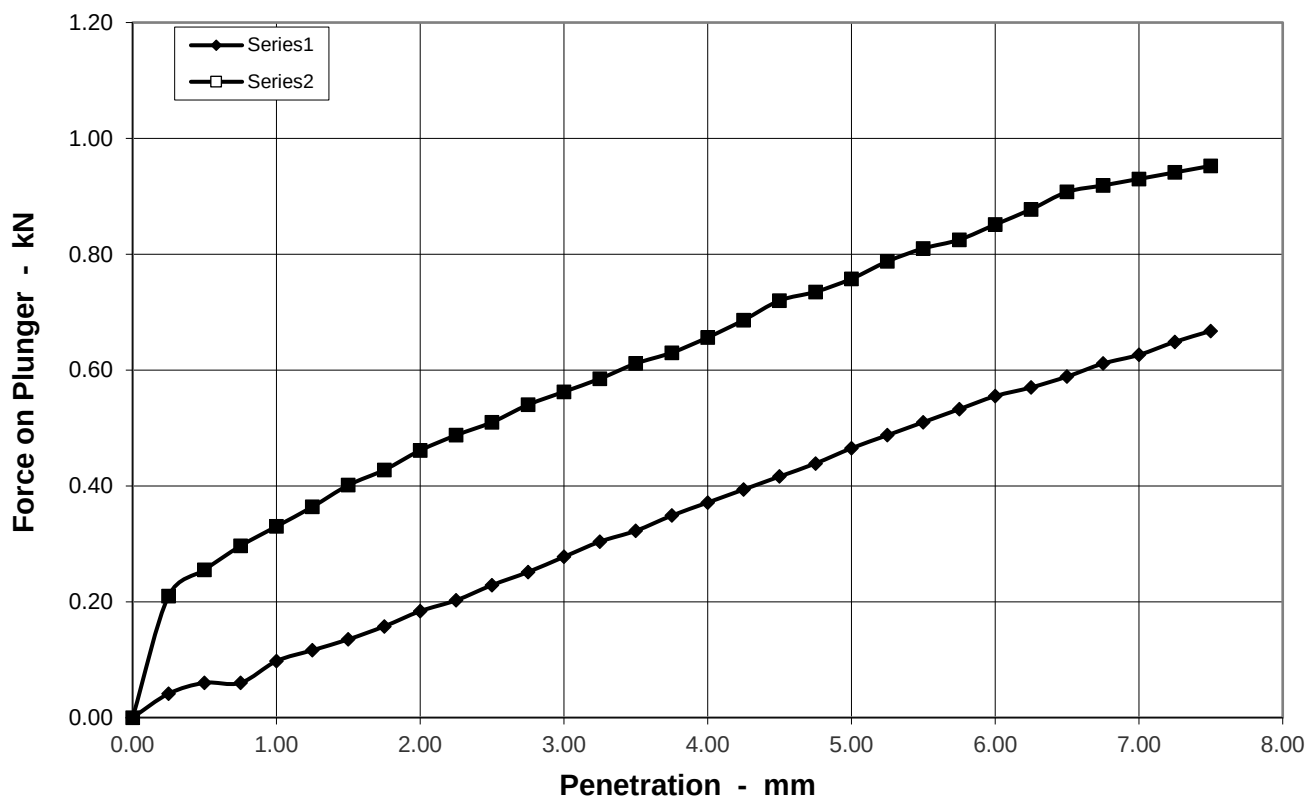
1

Depth

0.5 m

Soil Description

Slightly sandy slightly gravelly CLAY



Preparation	Method of Compaction	
	Hammer type	2.5kg Rammer
	Soaking Period	days
	Amount of Swell	mm

Sample Conditions		
Natural Moisture Content	%	34.0
Moisture Content - TOP	%	34.3
Moisture Content - BASE	%	33.7
Bulk Density	Mg/m ³	1.80
Dry Density	Mg/m ³	1.34

Test Conditions		
Sample Retained on 20 mm sieve	%	3.9
Seating Load - TOP	N	
Seating Load - BASE	N	
Surcharge	kg	8

Penetration mm	CBR Values %	
	TOP	BASE
2.5	1.7	3.9
5	2.3	3.8
Accepted CBR	2.3	3.9

Remarks

CALIFORNIA BEARING RATIO

BS 1377 : Part 4 : 1990 Clause 7.4

Job Ref

P25032

Borehole / Pit
No

TP 13

Site Name

Portumna Social Housing - Site Investigation

Sample No

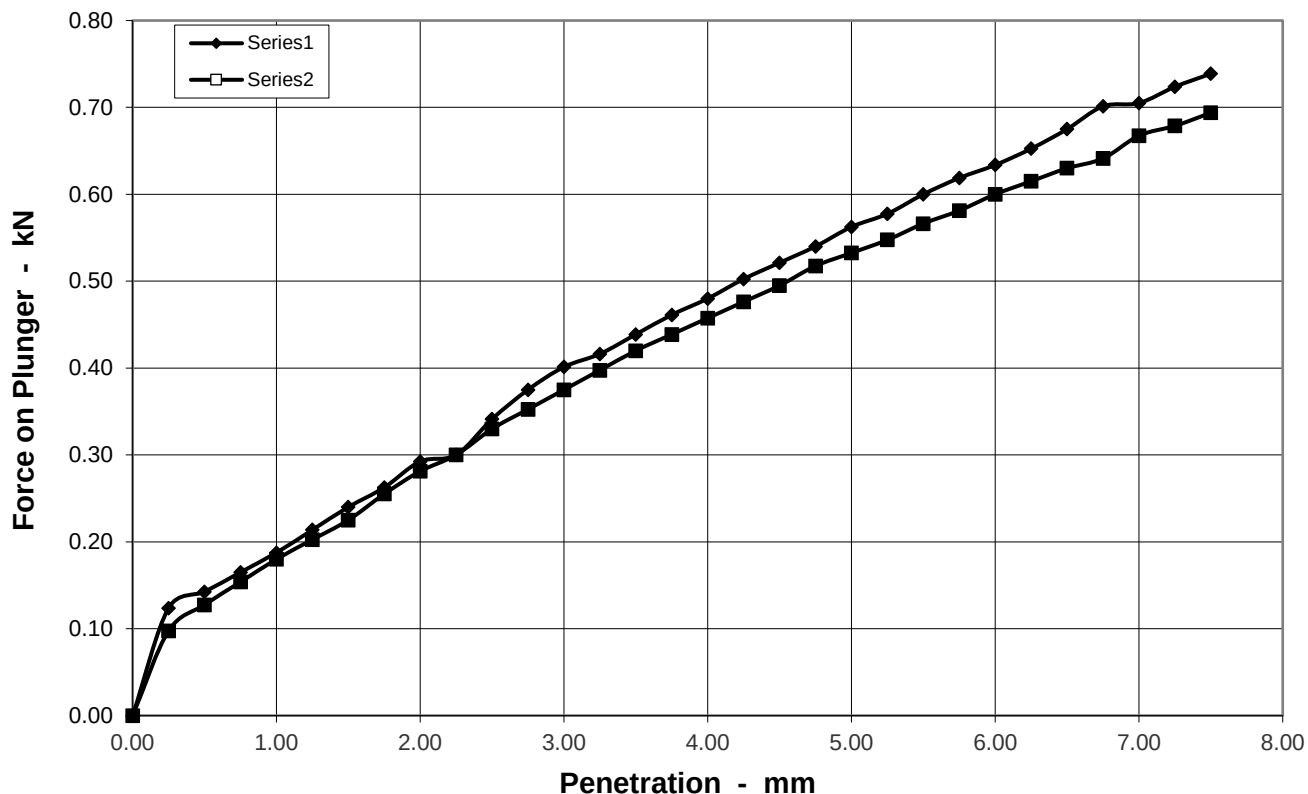
1

Depth

0.5 m

Soil Description

Slightly gravelly sandy SILT



Preparation	Method of Compaction	
	Hammer type	2.5kg Rammer
	Soaking Period	days
	Amount of Swell	mm

Sample Conditions		
Natural Moisture Content	%	25.0
Moisture Content - TOP	%	24.7
Moisture Content - BASE	%	23.8
Bulk Density	Mg/m ³	1.96
Dry Density	Mg/m ³	1.57

Test Conditions		
Sample Retained on 20 mm sieve	%	3.8
Seating Load - TOP	N	
Seating Load - BASE	N	
Surcharge	kg	8

Penetration mm	CBR Values %	
	TOP	BASE
2.5	2.6	2.5
5	2.8	2.7
Accepted CBR	2.8	2.7

Remarks



Final Report

Report No.: 25-13358-1
Initial Date of Issue: 25-Apr-2025

Re-Issue Details:

Client Priority Geotechnical Ltd
Client Address: Unit 12
Owenacurra Business Park
Midleton
County Cork
Ireland

Contact(s): Colette Kelly
Project P25032 Portumna Housing

Quotation No.: **Date Received:** 23-Apr-2025

Order No.: 16791 **Date Instructed:** 23-Apr-2025

No. of Samples: 4

Turnaround (Wkdays): 5 **Results Due:** 29-Apr-2025

Date Approved: 25-Apr-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 - Soil

Project: P25032

Client: Priority Geotechnical Ltd		Chemtest Job No.: 25-13358 25-13358 25-13358 25-13358							
Quotation No.:		Chemtest Sample ID.: 1963701 1963702 1963703 1963704							
		Sample Location: TP01 TP06 TP08 TP12							
		Sample Type: SOIL SOIL SOIL SOIL							
		Top Depth (m): 0.60 0.50 0.50 0.50							
		Date Sampled: 15-Apr-2025 15-Apr-2025 15-Apr-2025 15-Apr-2025							
Determinand	HWOL Code	Accred.	SOP	Units	LOD				
Moisture		N	2030	%	0.020	10	24	20	18
pH at 20C		U	2010		4.0	8.6	8.2	7.4	7.8
Sulphate (2:1 Water Soluble) as SO4		U	2120	g/l	0.010	< 0.010	0.01	0.015	< 0.010
Sulphate (Acid Soluble)		U	2430	%	0.010	0.037	0.074	0.084	0.019
Organic Matter		U	2625	%	0.40	4.8	2.8		

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
2010	pH Value of Soils	pH at 20°C	pH Meter	
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	
2430	Total Sulphate in soils	Total Sulphate	Acid digestion followed by determination of sulphate in extract by ICP-OES.	
2625	Total Organic Carbon in Soils	Total organic Carbon (TOC)	Determined by high temperature combustion under oxygen, using an Eltra elemental analyser.	

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.: 25-14091-1

Initial Date of Issue: 01-May-2025

Re-Issue Details:

Client Priority Geotechnical Ltd

Client Address: Unit 12
Owenacurra Business Park
Midleton
County Cork
Ireland

Contact(s): Colette Kelly

Project P25032 Portumna Housing

Quotation No.: **Date Received:** 28-Apr-2025

Order No.: 16791 **Date Instructed:** 28-Apr-2025

No. of Samples: 1

Turnaround (Wkdays): 5 **Results Due:** 02-May-2025

Date Approved: 01-May-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 - Soil

Project: P25032 Portumna Housing

Client: Priority Geotechnical Ltd		Chemtest Job No.:		25-14091		
Quotation No.:		Chemtest Sample ID.:		1966013		
		Sample Location:		TP03		
		Sample Type:		SOIL		
		Top Depth (m):		1.7		
		Date Sampled:		24-Apr-2025		
Determinand	HWOL Code	Accred.	SOP	Units	LOD	
Moisture		N	2030	%	0.020	14
Soil Colour		N	2040		N/A	Brown
Other Material		N	2040		N/A	Stones
Soil Texture		N	2040		N/A	Clay
pH at 20C		M	2010		4.0	8.8
Sulphate (2:1 Water Soluble) as SO4		M	2120	g/l	0.010	< 0.010
Sulphate (Acid Soluble)		U	2430	%	0.010	0.059

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
2010	pH Value of Soils	pH at 20°C	pH Meter	
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	
2430	Total Sulphate in soils	Total Sulphate	Acid digestion followed by determination of sulphate in extract by ICP-OES.	

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SOP	Standard operating procedure
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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 .

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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

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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

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GW - Ground Water
LE - Land Leachate
NA - Not Applicable
PL - Prepared Leachate
PW - Processed Water
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SA - Saline Water
SW - Surface Water
TE - Treated Effluent
TS - Treated Sewage
UL - Unspecified Liquid

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HWOL Acronym System

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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.: 25-08258-1

Initial Date of Issue: 18-Mar-2025

Re-Issue Details:

Client Priority Geotechnical Ltd

Client Address: Unit 12
Owenacurra Business Park
Midleton
County Cork
Ireland

Contact(s): Colette Kelly

Project P25032 Portumna House

Quotation No.: Q24-36581

Date Received: 10-Mar-2025

Order No.: 16791

Date Instructed: 10-Mar-2025

No. of Samples: 3

Turnaround (Wkdays): 5

Results Due: 14-Mar-2025

Date Approved: 18-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: P25032 Portumna House

Client: Priority Geotechnical Ltd	Chemtest Job No.:					25-08258	25-08258	25-08258
Quotation No.: Q24-36581	Chemtest Sample ID.:					1944987	1944988	1944989
	Sample Location:					TP10	TP13	BP02
	Sample Type:					SOIL	SOIL	SOIL
	Top Depth (m):					0.5	0.5	0.3
	Date Sampled:					04-Mar-2025	04-Mar-2025	04-Mar-2025
Determinand	Accred.	SOP	Type	Units	LOD			
Ammonium	U	1220	10:1	mg/l	0.050	0.067	0.080	0.17
Ammonium	N	1220	10:1	mg/kg	0.10	0.71	0.83	1.7

Results - Soil

Project: P25032 Portumna House

Client: Priority Geotechnical Ltd		Chemtest Job No.:				25-08258	25-08258	25-08258
Quotation No.: Q24-36581		Chemtest Sample ID.:				1944987	1944988	1944989
		Sample Location:				TP10	TP13	BP02
		Sample Type:				SOIL	SOIL	SOIL
		Top Depth (m):				0.5	0.5	0.3
		Date Sampled:				04-Mar-2025	04-Mar-2025	04-Mar-2025
		Asbestos Lab:				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
Moisture		N	2030	%	0.020	18	17	40
Soil Colour		N	2040		N/A	Brown	Brown	Brown
Other Material		N	2040		N/A	Stones and Roots	Stones and Roots	Stones and Roots
Soil Texture		N	2040		N/A	Loam	Loam	Loam
Boron (Hot Water Soluble)		M	2120	mg/kg	0.40	0.65	1.0	1.6
Sulphur (Elemental)		M	2180	mg/kg	1.0	< 1.0	< 1.0	< 1.0
Cyanide (Total)		M	2300	mg/kg	0.50	< 0.50	< 0.50	< 0.50
Sulphide (Easily Liberatable)		N	2325	mg/kg	0.50	3.4	4.1	4.4
Sulphate (Total)		U	2430	%	0.010	0.10	0.10	0.26
Arsenic		M	2455	mg/kg	0.5	9.4	13	9.6
Barium		M	2455	mg/kg	0.5	54	85	60
Cadmium		M	2455	mg/kg	0.10	0.57	0.85	0.89
Chromium		M	2455	mg/kg	0.5	16	25	17
Molybdenum		M	2455	mg/kg	0.5	0.8	1.2	1.2
Antimony		N	2455	mg/kg	2.0	< 2.0	< 2.0	< 2.0
Copper		M	2455	mg/kg	0.50	16	23	21
Mercury		M	2455	mg/kg	0.05	0.08	0.11	0.18
Nickel		M	2455	mg/kg	0.50	33	56	33
Lead		M	2455	mg/kg	0.50	33	49	55
Selenium		M	2455	mg/kg	0.25	0.85	1.4	1.2
Zinc		M	2455	mg/kg	0.50	82	89	300
Chromium (Trivalent)		N	2490	mg/kg	1.0	16	25	17
Chromium (Hexavalent)		N	2490	mg/kg	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	< 0.05
Aliphatic VPH >C6-C7	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C7-C8	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Aliphatic VPH >C8-C10	HS_2D_AL	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Total Aliphatic VPH >C5-C10	HS_2D_AL	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25
Aliphatic EPH >C10-C12 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0	< 2.0	< 2.0
Aliphatic EPH >C12-C16 MC	EH_2D_AL_#1	M	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0
Aliphatic EPH >C16-C21 MC	EH_2D_AL_#1	M	2690	mg/kg	2.00	< 2.0	< 2.0	< 2.0
Aliphatic EPH >C21-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	3.00	< 3.0	< 3.0	6.5
Aliphatic EPH >C35-C40 MC	EH_2D_AL_#1	N	2690	mg/kg	10.00	< 10	< 10	< 10
Total Aliphatic EPH >C10-C35 MC	EH_2D_AL_#1	M	2690	mg/kg	5.00	< 5.0	< 5.0	7.6
Aromatic VPH >C5-C7	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05

Results - Soil

Project: P25032 Portumna House

Client: Priority Geotechnical Ltd		Chemtest Job No.:				25-08258	25-08258	25-08258
Quotation No.: Q24-36581		Chemtest Sample ID.:				1944987	1944988	1944989
		Sample Location:				TP10	TP13	BP02
		Sample Type:				SOIL	SOIL	SOIL
		Top Depth (m):				0.5	0.5	0.3
		Date Sampled:				04-Mar-2025	04-Mar-2025	04-Mar-2025
		Asbestos Lab:				DURHAM	DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD			
Aromatic VPH >C7-C8	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Aromatic VPH >C8-C10	HS_2D_AR	U	2780	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Total Aromatic VPH >C5-C10	HS_2D_AR	U	2780	mg/kg	0.25	< 0.25	< 0.25	< 0.25
Aromatic EPH >C10-C12 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	5.8	< 1.0	10
Aromatic EPH >C12-C16 MC	EH_2D_AR_#1	U	2690	mg/kg	1.00	< 1.0	< 1.0	< 1.0
Aromatic EPH >C16-C21 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	2.7	4.7	2.1
Aromatic EPH >C21-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	2.00	2.7	< 2.0	19
Aromatic EPH >C35-C40 MC	EH_2D_AR_#1	N	2690	mg/kg	1.00	1.2	1.6	4.1
Total Aromatic EPH >C10-C35 MC	EH_2D_AR_#1	U	2690	mg/kg	5.00	12	6.5	31
Total VPH >C5-C10	HS_2D_Total	U	2780	mg/kg	0.50	< 0.50	< 0.50	< 0.50
Total EPH >C10-C35 MC	EH_2D_Total_#1	U	2690	mg/kg	10.00	14	< 10	39
Mineral Oil EPH		N	2670	mg/kg	10	< 10	< 10	< 10
Benzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0
Toluene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0
Ethylbenzene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0
m & p-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0
o-Xylene		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0
Methyl Tert-Butyl Ether		M	2760	µg/kg	1.0	< 1.0	< 1.0	< 1.0
Naphthalene		M	2800	mg/kg	0.10	< 0.10	< 0.10	0.40
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
Phenanthrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Pyrene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Benzo[a]anthracene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Chrysene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Benzo[b]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Benzo[k]fluoranthene		M	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
Benzo[a]pyrene		M	2800	mg/kg	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
Dibenz(a,h)Anthracene		N	2800	mg/kg	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
Coronene		N	2800	mg/kg	0.10	< 0.10	< 0.10	< 0.10
PCB 28		U	2815	mg/kg	0.010	< 0.010	< 0.010	< 0.010
PCB 52		U	2815	mg/kg	0.010	< 0.010	< 0.010	< 0.010
PCB 101		U	2815	mg/kg	0.010	< 0.010	< 0.010	< 0.010
PCB 118		U	2815	mg/kg	0.010	< 0.010	< 0.010	< 0.010

Results - Soil

Project: P25032 Portumna House

Client: Priority Geotechnical Ltd		Chemtest Job No.:				25-08258	25-08258	25-08258
Quotation No.: Q24-36581		Chemtest Sample ID.:				1944987	1944988	1944989
		Sample Location:				TP10	TP13	BP02
		Sample Type:				SOIL	SOIL	SOIL
		Top Depth (m):				0.5	0.5	0.3
		Date Sampled:				04-Mar-2025	04-Mar-2025	04-Mar-2025
		Asbestos Lab:				DURHAM	DURHAM	DURHAM
Determinand	HWOL Code	Accred.	SOP	Units	LOD			
PCB 153		U	2815	mg/kg	0.010	< 0.010	< 0.010	< 0.010
PCB 138		U	2815	mg/kg	0.010	< 0.010	< 0.010	< 0.010
PCB 180		U	2815	mg/kg	0.010	< 0.010	< 0.010	< 0.010
Tot PCBs Low (7 Congeners)		N	2815	mg/kg	0.05	< 0.05	< 0.05	< 0.05
Total Phenols		M	2920	mg/kg	0.10	< 0.10	< 0.10	< 0.10

Results - Single Stage WAC

Project: P25032 Portumna House

Project: T-20002 Fortissima Road						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-08258 Chemtest Sample ID: 1944987 Sample Ref: Sample ID: Sample Location: TP10 Top Depth(m): 0.5 Bottom Depth(m): Sampling Date: 04-Mar-2025						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	%	3.0	3	5	6
Loss On Ignition	2610		M	%	3.9	--	--	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		8.4	--	>6	--
Acid Neutralisation Capacity	2015		N	mol/kg	0.021	--	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	0.0008	0.0076	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	0.0007	0.0072	0.5	10	70
Copper	1455		U	0.0021	0.021	2	50	100
Mercury	1455		U	< 0.00005	< 0.00050	0.01	0.2	2
Molybdenum	1455		U	0.0005	0.0046	0.5	10	30
Nickel	1455		U	0.0009	0.0087	0.4	10	40
Lead	1455		U	0.0006	0.0056	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	0.065	4	50	200
Chloride	1220		U	< 1.0	< 10	800	15000	25000
Fluoride	1220		U	0.26	2.6	10	150	500
Sulphate	1220		U	< 1.0	< 10	1000	20000	50000
Total Dissolved Solids	1020		N	52	510	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 (%)	17
WAC Sample Weight	[E] 1619

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: P25032 Portumna House

Project: T-20002 Fortissima Road						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-08258 Chemtest Sample ID: 1944988 Sample Ref: Sample ID: Sample Location: TP13 Top Depth(m): 0.5 Bottom Depth(m): Sampling Date: 04-Mar-2025						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	%	1.3	3	5	6
Loss On Ignition	2610		M	%	3.5	--	--	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		8.5	--	>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	0.0025	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	0.0006	0.0058	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	0.0005	0.0050	0.5	10	30
Nickel	1455		U	< 0.0005	< 0.0050	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	0.0052	0.1	0.5	7
Zinc	1455		U	0.008	0.079	4	50	200
Chloride	1220		U	1.2	12	800	15000	25000
Fluoride	1220		U	0.46	4.6	10	150	500
Sulphate	1220		U	< 1.0	< 10	1000	20000	50000
Total Dissolved Solids	1020		N	64	640	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 (%)	11
WAC Sample Weight	2592

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: P25032 Portumna House

Project: T-20002 Fortissima Road						Landfill Waste Acceptance Criteria		
Chemtest Job No: 25-08258 Chemtest Sample ID: 1944989 Sample Ref: Sample ID: Sample Location: BP02 Top Depth(m): 0.3 Bottom Depth(m): Sampling Date: 04-Mar-2025						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	%	8.6	3	5	6
Loss On Ignition	2610		M	%	20	--	--	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	15	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	0.0050	--	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	0.0007	0.0065	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	0.0006	0.0061	0.5	10	70
Copper	1455		U	0.0042	0.042	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	0.0020	0.020	0.4	10	40
Lead	1455		U	0.0007	0.0071	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	0.025	0.25	4	50	200
Chloride	1220		U	3.8	38	800	15000	25000
Fluoride	1220		U	0.10	1.0	10	150	500
Sulphate	1220		U	< 1.0	< 10	1000	20000	50000
Total Dissolved Solids	1020		N	28	280	4000	60000	100000
Phenol Index	1920		U	< 0.030	< 0.30	1	-	-
Dissolved Organic Carbon	1610		U	5.4	54	500	800	1000

Solid Information	
Dry mass of test portion/kg	0.090
Moisture (%)	7.4
WAC Sample Weight	[E] 274.0

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:
1944987			TP10	04-Mar-2025	E	Amber Glass 250ml
1944987			TP10	04-Mar-2025	E	Amber Glass 60ml
1944987			TP10	04-Mar-2025	E	Plastic Tub 1000g
1944989			BP02	04-Mar-2025	E	Amber Glass 250ml
1944989			BP02	04-Mar-2025	E	Amber Glass 60ml
1944989			BP02	04-Mar-2025	E	Plastic Tub 1000g

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	
2180	Sulphur (Elemental) in Soils by HPLC	Sulphur	Dichloromethane extraction / HPLC with UV detection	
2192	Asbestos	Asbestos	Polarised light microscopy / Gravimetry	
2300	Cyanides & Thiocyanate in Soils	Free (or easy 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-diphenylcarbazine.	
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	
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.	

Test Methods

SOP	Title	Parameters included	Method summary	Water Accred.
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*; Dibenzo[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	
650	Characterisation of Waste (Leaching WAC)	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