GROUND INVESTIGATIONS IRELAND
Geotechnical & Environmental

Catherinestown House,
Hazelhatch Road,
Newcastle,
Co. Dublin.
D22 YD52

Tel: 01 601 5175 / 5176
Email: info@gii.ie
Web: www.gii.ie

Ground Investigations Ireland

Tinahask Co. Wicklow

Hayes Higgins

Ground Investigation Report

August 2023

GROUND INVESTIGATIONS IRELAND
Geotechnical & Environmental

Catherinestown House,
Hazelhatch Road,
Newcastle,
Co. Dublin.
D22 YD52

Tel: 01 601 5175 / 5176
Email: info@gii.ie
Web: www.gii.ie

DOCUMENT CONTROL SHEET

Project Title	Tinahask Co. Wicklow
Engineer	Hayes Higgins
Client	Wicklow County Council
Project No	12960-06-23
Document Title	Ground Investigation Report

Rev.	Status	Author(s)	Reviewed By	Approved By	Office of Origin	Issue Date
A	Final	J Conneally	S Kealy	S Kealy	Dublin	18 August 2023

Ground Investigations Ireland Ltd. present the results of the fieldworks and laboratory testing in accordance with the specification and related documents provided by or on behalf of the client The possibility of variation in the ground and/or groundwater conditions between or below exploratory locations or due to the investigation techniques employed must be taken into account when this report and the appendices inform designs or decisions where such variation may be considered relevant. Ground and/or groundwater conditions may vary due to seasonal, man-made or other activities not apparent during the fieldworks and no responsibility can be taken for such variation. The data presented and the recommendations included in this report and associated appendices are intended for the use of the client and the client's geotechnical representative only and any duty of care to others is excluded unless approved in writing.

GROUND INVESTIGATIONS IRELAND
Geotechnical & Environmental

Catherinestown House,
Hazelhatch Road,
Newcastle,
Co. Dublin.
D22 YD52

Tel: 01 601 5175 / 5176
Email: info@gii.ie
Web: www.gii.ie

CONTENTS

APPENDICES

1.0 Preamble

On the instructions of Hayes Higgins Engineers, a site investigation was carried out by Ground Investigations Ireland Ltd., between 11/7/2023 and 03/08/2023 at the site of the proposed residential development in Tinahask, Arklow, Co. Wicklow.

2.0 Overview

2.1. Background

It is proposed to construct a new residential development with associated services, access roads and car parking at the proposed site. The site is currently greenfield. The proposed construction is envisaged to consist of conventional foundations and pavement make up with some local excavations for services and plant.

2.2. Purpose and Scope

The purpose of the site investigation was to investigate subsurface conditions utilising a variety of investigative methods in accordance with the project specification. The scope of the work undertaken for this project included the following:

- Visit project site to observe existing conditions
- Carry out 20 No. Trial Pits to a maximum depth of 4.5m BGL
- Carry out 6 No. Soakaways to determine a soil infiltration value to BRE digest 365
- Carry out 33 No. Dynamic Probes to determine soil strength/density characteristics
- Report with recommendations

3.0 Subsurface Exploration

3.1. General

During the ground investigation a programme of intrusive investigation specified by the Consulting Engineer was undertaken to determine the sub surface conditions at the proposed site. Regular sampling and in-situ testing was undertaken in the exploratory holes to facilitate the geotechnical descriptions.
The procedures used in this site investigation are in accordance with Eurocode 7 Part 2: Ground Investigation and testing (ISEN 1997 – 2:2007) and B.S. 5930:2015.

3.2. Trial Pits

The trial pits were excavated using an 8T tracked excavator at the locations shown in the exploratory hole location plan in Appendix 1. The locations were checked using a CAT scan to minimise the potential for encountering services during the excavation. The trial pits were sampled, logged and photographed by a Geotechnical Engineer/Engineering Geologist prior to backfilling with arisings. Notes were made of any

services, inclusions, pit stability, groundwater encountered and the characteristics of the strata encountered and are presented on the trial pit logs which are provided in Appendix 2 of this Report.

3.3. Soakaway Testing

The soakaway testing was carried out in selected trial pits at the locations shown in the exploratory hole location plan in Appendix 1. These pits were carefully excavated and filled with water to assess the infiltration characteristics of the proposed site. The pits were allowed to drain and the drop in water level was recorded over time as required by BRE Digest 365. The pits were logged prior to completing the soakaway test and were backfilled with arising's upon completion. The soakaway test results are provided in Appendix 3 of this Report.

3.4. Dynamic Probing (DPH)

The dynamic probe tests (DPH) were carried out at the locations shown in the location plan in Appendix 1 in accordance with B.S. 1377: Part 9 1990. The test consists of mechanically driving a cone with a 50kg weight in 100mm intervals and monitoring the number of blows required. An equivalent Standard Penetration Test (SPT) 'N' value may be calculated by dividing the total number of blows over a 300mm drive length by 1.5. The dynamic probe logs are provided in Appendix 4 of this Report.

3.5. Surveying (Pending)

The exploratory hole locations will be recorded using a KQ GEO Technologies KQ-M8 System which records the coordinates and elevation of the locations to ITM or Irish National Grid as required by the project specification. The coordinates and elevations are provided on the exploratory hole logs in the appendices of this Report.

4.0 Ground Conditions

4.1. General

The ground conditions encountered during the investigation are summarised below with reference to insitu test results. The full details of the strata encountered during the ground investigation are provided in the exploratory hole logs included in the appendices of this report.

The sequence of strata encountered were consistent across the site, with the exception of made ground was only encountered in some locations, and generally comprised;

- Topsoil/Surfacing
- Made Ground
- Cohesive Deposits

TOPSOIL: Topsoil was encountered in all the trial pits and was present to a maximum depth of 0.4m BGL.

MADE GROUND: Made Ground deposits were encountered beneath the Topsoil in trial pits TP01, TP02, TP11, TP18, TP20. The made ground deposits are not consistently present across the site and fall into two categories. The made ground in TP01 and TP02 is present to depths between 0.4m and 0.6m BGL. These deposits were described generally as *brown sandy slightly gravelly CLAY. Gravel is fine to coarse sub-angular to sub-rounded with fragments of plastic, glass, metal and timber.*
In Trial pits TP11, TP18 and TP20 The made ground is generally described as *brown mottled grey and orange slightly sandy slightly gravelly CLAY. Gravel is fine sub-angular to sub-rounded.* The made ground in these three trial pits is associated with the presence of possible land drains and yellow plastic pipes were observed in all three pits.

COHESIVE DEPOSITS: Cohesive deposits were encountered across the site and were described typically as *brown slightly sandy slightly gravelly CLAY with occasional cobbles and boulders* overlying a *stiff brown to grey slightly sandy slightly gravelly CLAY with occasional cobbles and boulders*. The secondary sand and gravel constituents varied across the site and with depth, with granular lenses occasionally present in the glacial till matrix. The strength of the cohesive deposits typically increased with depth and was firm to stiff or stiff below 1.2m BGL in the majority of the exploratory holes. These deposits had low, medium or high cobble and boulder content, where noted on the exploratory hole logs.

4.2. Insitu Strength Testing

The correlated DPH blow counts indicate that the overburden deposits are generally soft or soft to firm to a depth of 1.0m to 1.2m BGL and become firm or firm to stiff with depth. DPH26 encountered stiff ground a depth of 1.1m BGL which is at a shallower depth than in the other exploratory holes.

4.3. Groundwater

No groundwater was noted during the investigation however we would point out that these exploratory holes did not remain open for sufficiently long periods of time to establish the hydrogeological regime and groundwater levels would be expected to vary with the time of year, rainfall, nearby construction and other factors.

5.0 Recommendations & Conclusions

5.1. General

The recommendations given and opinions expressed in this report are based on the findings as detailed in the exploratory hole records. Where an opinion is expressed on the material between exploratory hole locations, this is for guidance only and no liability can be accepted for its accuracy. No responsibility can be accepted for conditions which have not been revealed by the exploratory holes. Limited information has been provided at the ground investigation stage and any designs based on the recommendations or conclusions should be completed in accordance with the current design codes, taking into account the variation and the specific details contained within the exploratory hole logs.

5.2. Foundations

At the location of the proposed structure an allowable bearing capacity of 100 kN/m^2 is recommended for conventional strip or pad foundations on the stiff cohesive deposits at the depths outlined in the table below. The possibility for variation in the depth of the made ground in the vicinity of these foundations should be considered and foundation inspections should be carried out. Any soft spots encountered at the proposed foundation depths should be excavated and replaced with lean mix concrete.

	Allowable Bearing Capacities (ABC) kN/m^2						
Trial Pit	**ABC**	**Depth**	**Comment**	**Trial Pit**	**ABC**	**Depth**	**Comment**
No.	**kN/m^2**	**m BGL**		**No.**	**kN/m^2**	**m BGL**	
SA01/DP01	100	1.20	**Cohesive**	**TP12/DP18**	100	1.40	**Cohesive**
SA02/DP02	100	1.70	**Cohesive**	**TP13/DP19**	100	1.20	**Cohesive**
SA03/DP03	100	1.50	**Cohesive**	**TP14/DP20**	100	1.50	**Cohesive**
SA04/DP04	100	1.30	**Cohesive**	**TP15/DP21**	100	2.10	**Cohesive**
SA05/DP05	100	1.40	**Cohesive**	**TP16/DP22**	100	1.30	**Cohesive**
SA06/DP06	100	1.80	**Cohesive**	**TP17/DP23**	100	1.30	**Cohesive**
TP01/DP07	100	1.60	**Cohesive**	**TP18/DP24**	100	1.80	**Cohesive**
TP02/DP08	100	1.80	**Cohesive**	**TP19/DP25**	100	1.50	**Cohesive**
TP03/DP09	100	1.40	**Cohesive**	**TP20/DP26**	100	1.20	**Cohesive**
TP04/DP10	100	1.60	**Cohesive**	**DPH27**	100	1.20	**Cohesive**
TP05/DP11	100	1.30	**Cohesive**	**DPH28**	100	1.20	**Cohesive**
TP06/DP12	100	1.30	**Cohesive**	**DPH29**	100	1.80	**Cohesive**
TP07/DP13	100	1.60	**Cohesive**	**DPH30**	100	1.20	**Cohesive**
TP08/DP14	100	1.50	**Cohesive**	**DPH31**	100	1.80	**Cohesive**
TP09/DP15	100	1.40	**Cohesive**	**DPH32**	100	1.60	**Cohesive**
TP10/DP16	100	2.50	**Cohesive**	**DPH33**	100	1.80	**Cohesive**
TP11/DP17	100	1.40	**Cohesive**				

A ground bearing floor slab is recommended to be based on the firm or firm to stiff cohesive deposits with an appropriate depth of compacted hardcore specified by the consulting engineer and in accordance with the limits and guidelines in SR21:2014+A1:2016 and/or NRA SRW CL808 Type E granular stone fill. Where the depth of Soft deposits exceeds 0.9m then suspended floor slabs should be considered.

5.3. Excavations

Short term temporary excavations in the cohesive deposits will remain stable for a limited time only and will require to be appropriately battered or the sides supported if the excavation is below 1.25m BGL or is required to permit man entry.
Excavations in soft Cohesive Deposits will require to be appropriately battered or the sides supported due to the low strength of these deposits.

5.4. Soakaway Design

Soakaway tests were carried out at six locations, at all of the locations of the water level dropped too slowly to allow calculation of ‘f’ the soil infiltration rate. These locations are therefore not recommended as suitable for soakaway design and construction.

The recommendations provided in this report should be verified in the design of the proposed buildings, using the full details of the loading conditions and taking into consideration the allowable tolerable settlements/movements that the building can accommodate. The founding strata should be inspected and verified by a suitably qualified engineer prior to construction of the building foundations.

APPENDIX 1 - Site Location Plan

Site Location
Indicative Site Boundary
Dynamic probes
Trial pits
Soakaways

Client:

WICKLOW
ENDLESS OPPORTUNITIES

Project Code:
12960-06-23

Project Title:
Tinahask, Co. Wicklow

Drawing Title:
Figure 1 Site Location

GROUND INVESTIGATIONS IRELAND
Geotechnical & Environmental
Ground Investigations Ireland Ltd.
Catherinstown House,
Hazelhatch Road,
Newcastle, Co. Dublin

0 10 20 30 40 50 m

Drawn By:	Date:
JC	16-08-2023

APPENDIX 2 – Trial Pit Records

Ground Investigations Ireland Ltd
www.gii.ie

Site Tinahask			**Trial Pit Number** SA01
Machine : 8t Excavator **Method :** Trial Pit	**Dimensions** 2.00m x 0.50m x 1.95m (L x W x D)	**Ground Level (mOD)**	**Client** Hayes Higgins	**Job Number** 12960-06-23
	Location	**Dates** 11/07/2023	**Project Contractor** GII	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					(0.30)	Brown TOPSOIL with rootlets.		
					0.30	Soft brown mottled yellow slightly sandy slightly gravelly CLAY. Gravels are fine subangular to subrounded with low subrounded boulder content.		
					(1.00)			
					1.30	Firm brown mottled grey slightly sandy slightly gravelly CLAY. Gravels are fine subangular to subrounded.		
					(0.30)			
					1.60	Firm grey slightly sandy slightly gravelly CLAY. Gravels are fine subangular to subrounded. Sand is grey graded fine.		
					(0.35)			
					1.95	Complete at 1.95m		

Plan

Remarks

No groundwater encountered.
Trial pit stable.
Trial pit backfilled upon completion.

Scale (approx)	Logged By	Figure No.
1:25	AM	12960-06-23.SA01

Ground Investigations Ireland Ltd
www.gii.ie

Site Tinahask			**Trial Pit Number** SA02
Machine : 8t Excavator **Method :** Trial Pit	**Dimensions** 2.10m x 0.50m x 1.90m (L x W x D)	**Ground Level (mOD)**	**Client** Hayes Higgins	**Job Number** 12960-06-23
	Location	**Dates** 11/07/2023	**Project Contractor** GII	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					(0.30) 0.30	Brown TOPSOIL with rootlets		
					(0.20) 0.50	Very soft brown slightly sandy slightly gravelly CLAY. Gravels are fine subangular to subrounded with low rounded boulder content.		
					(0.90) 1.40	Soft brown slightly sandy slightly gravelly CLAY. Gravels are fine subangular to subrounded with low rounded boulder content.		
					(0.30) 1.70	Soft grey slightly sandy slightly gravelly CLAY. Gravels are fine subangular to subrounded with low rounded boulder content.		
					(0.20) 1.90	Firm to stiff grey slightly sandy slightly gravelly CLAY. Gravels are fine subangular to subrounded with low rounded boulder content.		
						Complete at 1.90m		

Plan

Remarks

No groundwater encountered.
Trial pit stable.
Trial pit backfilled upon completion.

Scale (approx)	Logged By	Figure No.
1:25	AM	12960-06-23.SA02

Ground Investigations Ireland Ltd
www.gii.ie

Site Tinahask			**Trial Pit Number** SA03
Machine : 8t Excavator **Method :** Trial Pit	**Dimensions** 2.10m x 0.50m x 1.80m (L x W x D)	**Ground Level (mOD)**	**Client** Hayes Higgins	**Job Number** 12960-06-23
	Location	**Dates** 11/07/2023	**Project Contractor** GII	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					(0.30) 0.30	Brown TOPSOIL with rootlets.		
					(1.10)	Soft light brown to brown mottled yellow slightly sandy slightly gravelly CLAY. Gravels are fine subangular to subrounded.		
					1.40 (0.40) 1.80	Firm light brown to brown mottled light grey slightly sandy gravelly CLAY. Gravels are fine subangular to subrounded. Sand is yellow graded fine.		
						Complete at 1.80m		

Plan

Remarks

No groundwater encountered.
Trial pit stable.
Trial pit backfilled upon completion.

Scale (approx)	Logged By	Figure No.
1:25	AM	12960-06-23.SA03

Ground Investigations Ireland Ltd
www.gii.ie

Site Tinahask			**Trial Pit Number** SA04
Machine : 8t Excavator **Method :** Trial Pit	**Dimensions** 2.00m x 0.50m x1.90m (L x W x D)	**Ground Level (mOD)**	**Client** Hayes Higgins	**Job Number** 12960-06-23
	Location	**Dates** 11/07/2023	**Project Contractor** GII	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					(0.35)	Brown TOPSOIL with roolets and tree roots.		
					0.35			
					(0.25)	Very soft brown slightly sandy slightly gravelly CLAY. Gravels are fine subangular to subrounded.		
					0.60			
					(0.85)	Soft brown slightly sandy slightly gravelly CLAY. Gravels are fine subangular to subrounded.		
					1.45			
					(0.45)	Firm grey mottled brown slightly sandy slightly gravelly CLAY. Gravels are fine subangular to subrounded with low angular to subangular cobble content.		
					1.90	Complete at 1.90m		

Plan

Remarks

No groundwater encountered.
Trial pit stable.
Trial pit backfilled upon completion.

Scale (approx)	Logged By	Figure No.
1:25	AM	12960-06-23.SA04

Ground Investigations Ireland Ltd
www.gii.ie

Site Tinahask			**Trial Pit Number** SA05
Machine : 8t Excavator **Method :** Trial Pit	**Dimensions** 2.10m x 0.50m x 2.00m (L x W x D)	**Ground Level (mOD)**	**Client** Hayes Higgins	**Job Number** 12960-06-23
	Location	**Dates** 11/07/2023	**Project Contractor** GII	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					(0.30)	Brown TOPSOIL with rootlets and tree roots.		
					0.30			
					(0.20)	Very soft brown mottled yellow slightly sandy slightly gravelly CLAY. Gravels are fine subangular to subrounded.		
					0.50			
					(0.80)	Soft brown mottled yellow slightly sandy slightly gravelly CLAY. Gravels are fine subangular to subrounded.		
					1.30			
					(0.70)	Firm grey mottled brown slightly sandy slightly gravelly CLAY. Gravels are fine subangular to subrounded with low subrounded cobbles and boulder content.		
					2.00			
						Complete at 2.00m		

Plan

Remarks

No groundwater encountered.
Trial pit stable.
Trial pit backfilled upon completion.

Scale (approx)	Logged By	Figure No.
1:25	AM	12960-06-23.SA05

Ground Investigations Ireland Ltd
www.gii.ie

Site Tinahask			**Trial Pit Number** SA06
Machine : 8t Excavator **Method :** Trial Pit	**Dimensions** 2.20m x 0.50m x 2.00m (L x W x D)	**Ground Level (mOD)**	**Client** Hayes Higgins	**Job Number** 12960-06-23
	Location	**Dates** 11/07/2023	**Project Contractor** GII	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					(0.20) 0.20	Greyish brown TOPSOIL with rootlets.		
					(1.60)	soft grey mottled brown slightly sandy slightly gravelly CLAY. Gravels are fine subangular to subrounded.		
					1.80 (0.20) 2.00	firm grey mottled brown slightly sandy slightly gravelly CLAY. Gravels are fine subangular to subrounded.		
						Complete at 2.00m		

Plan

Remarks

No groundwater encountered.
Trial pit stable.
Trial pit backfilled upon completion.

Scale (approx)	Logged By	Figure No.
1:25	AM	12960-06-23.SA06

Ground Investigations Ireland Ltd
www.gii.ie

Site Tinahask			**Trial Pit Number** TP01
Machine : 8t Excavator **Method :** Trial Pit	**Dimensions** 2.80m x 0.70m x 3.90m (L x W x D)	**Ground Level (mOD)**	**Client** Hayes Higgins	**Job Number** 12960-06-23
	Location	**Dates** 11/07/2023	**Project Contractor** GII	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					(0.10) 0.10	Brown TOPSOIL with rootlets and tree roots.		
					(0.30) 0.40	MADE GROUND: Brown slightly sandy slightly gravelly CLAY. Gravels are fine to coarse subangular to subrounded with plastic fragments and aluminium cans.		
1.20-1.20	B1				(1.00) 1.40	Soft grey mottled brown slightly sandy slightly gravelly CLAY. Gravels are fine to coarse subangular to subrounded with low subrounded to rounded cobble and boulder content.		
1.80-1.80	B2				(0.50) 1.90	Firm grey slightly sandy slightly gravelly CLAY. Gravels are fine to coarse subangular to subrounded with low subrounded to rounded cobble content.		
2.50-2.50	B3				(0.70) 2.60	Firm to stiff grey slightly sandy slightly gravelly CLAY. Gravels are fine to coarse subangular to subrounded with low subrounded to rounded cobble content.		
2.90-2.90	B4				(0.50) 3.10	Stiff Grey mottled brown slightly sandy slightly gravelly CLAY. Gravels are fine to coarse angular to subrounded with low subrounded to rounded cobble and boulder content.		
3.90-3.90	B5				(0.80) 3.90	Very stiff Grey mottled brown slightly sandy slightly gravelly CLAY. Gravels are fine to coarse angular to subrounded with low subrounded to rounded cobble and boulder content.		
						Complete at 3.90m		

Plan

Remarks

No groundwater encountered.
Trial pit stable.
Trial pit backfilled upon completion.

Scale (approx)	Logged By	Figure No.
1:25	AM	12960-06-23.TP01

Ground Investigations Ireland Ltd
www.gii.ie

Site Tinahask			**Trial Pit Number** TP02
Machine : 8t Excavator **Method :** Trial Pit	**Dimensions** 2.60m x 0.70m x 3.90m (L x W x D)	**Ground Level (mOD)**	**Client** Hayes Higgins	**Job Number** 12960-06-23
	Location	**Dates** 11/07/2023	**Project Contractor** GII	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					(0.10) 0.10	Brown TOPSOIL with rootlets.		
0.40-0.40	B1				(0.50)	MADE GROUND: Brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse subangular to subrounded with fragments of plastic, glass, metal and timber.		
					0.60 (0.20) 0.80	Soft to stiff brown mottled grey and orange slightly sandy slightly gravelly CLAY. Gravels are fine to coarse subangular to subrounded with low subrounded cobble content.		
1.00-1.00	B2				(1.00)	Soft grey mottled brown and orange slightly sandy slightly gravelly CLAY. Gravels are fine to coarse subangular to subrounded with low subrounded cobble content.		
					1.80			
2.00-2.00	B3				(0.80)	Firm grey mottled brown slightly sandy slightly gravelly CLAY. Gravels are fine to coarse subangular to subrounded.		
					2.60			
3.00-3.00	B4				(0.70)	Firm to stiff grey mottled brown slightly sandy slightly gravelly CLAY. Gravels are fine to coarse subangular to subrounded.		
					3.30			
					(0.60)	Very stiff grey mottled brown slightly sandy slightly gravelly CLAY. Gravels are fine to coarse subangular to subrounded.		
					3.90	Complete at 3.90m		

Plan

Remarks

No groundwater encountered.
Trial pit stable.
Trial pit backfilled upon completion.

Scale (approx)	Logged By	Figure No.
1:25	AM	12960-06-23.TP02

Ground Investigations Ireland Ltd
www.gii.ie

Site Tinahask			**Trial Pit Number** TP03
Machine : 8t Excavator **Method :** Trial Pit	**Dimensions** 2.40m x 0.70m x 4.00m (L x W x D)	**Ground Level (mOD)**	**Client** Hayes Higgins	**Job Number** 12960-06-23
	Location	**Dates** 11/07/2023	**Project Contractor** GII	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					(0.20) 0.20	Brown TOPSOIL with rootlets.		
					(0.50)	Very soft light brown to grey slightly sandy slightly gravelly CLAY with yellow to orange fine sand. Gravels are fine to coarse subangular to subrounded.		
0.70	B1				0.70			
1.20	B2				(0.70)	Soft light brown to grey slightly sandy slightly gravelly CLAY with yellow to orange fine sand. Gravels are fine to coarse subangular to subrounded.		
					1.40			
					(1.00)	Stiff grey mottled brown slightly sandy slightly gravelly CLAY. Gravel is fine subangular to subrounded with low subrounded boulder content.		
2.20	B3				2.40			
					(1.60)	Very stiff grey mottled brown slightly sandy slightly gravelly CLAY. Gravel is fine subangular to subrounded with low subrounded boulder content.		
3.60	B4				4.00			

Plan

Remarks

No groundwater encountered.
Trial pit stable.
Trial pit backfilled upon completion.

Scale (approx)	Logged By	Figure No.
1:25	AM	12960-06-23.TP03

Ground Investigations Ireland Ltd
www.gii.ie

Site Tinahask			**Trial Pit Number** TP04
Machine : 8t Exacavator **Method :** Trial Pit	**Dimensions** 2.70m x 0.70m x 3.90m (L x W x D)	**Ground Level (mOD)**	**Client** Hayes Higgins	**Job Number** 12960-06-23
	Location	**Dates** 11/07/2023	**Project Contractor** GII	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					(0.30)	Brown TOPSOIL with rootlets and tree roots.		
					0.30			
					(0.60)	Very soft light brown mottled orange to yellow and grey slightly sandy slightly gravelly CLAY. Gravels are fine to coarse subangular to subrounded.		
					0.90			
					(0.70)	Soft grey mottled brown slightly sandy slightly gravelly CLAY. Gravels are fine to coarse subangular to subrounded.		
					1.60			
					(0.80)	Firm grey mottled brown slightly sandy slightly gravelly CLAY. Gravels are fine to coarse subangular to subrounded.		
					2.40			
					(0.70)	Firm to stiff grey mottled brown slightly sandy slightly gravelly CLAY. Gravels are fine to coarse subangular to subrounded.		
					3.10			
					(0.40)	Firm to stiff grey slightly sandy slightly gravelly CLAY. Gravels are fine to coarse subangular to subrounded.		
					3.50			
					(0.40)	Very stiff grey slightly sandy slightly gravelly CLAY. Gravels are fine to coarse subangular to subrounded.		
					3.90	Complete at 3.90m		

Plan

Remarks

No groundwater encountered.
Trial pit stable.
Trial pit backfilled upon completion.

Scale (approx)	Logged By	Figure No.
1:25	AM	12960-06-23.TP04

Ground Investigations Ireland Ltd
www.gii.ie

Site Tinahask			**Trial Pit Number** TP05
Machine : 8t Excavator **Method :** Trial Pit	**Dimensions** 2.50m x 0.70m x 3.90m (L x W x D)	**Ground Level (mOD)**	**Client** Hayes Higgins	**Job Number** 12960-06-23
	Location	**Dates** 12/07/2023	**Project Contractor** GII	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					(0.30) 0.30	Brown TOPSOIL with rootlets.		
					(0.90) 1.20	Soft brown mottled grey and orange sligtly sandy slightly gravelly CLAY with coarse sandy gravelly cobbly lense. Gravels are fine subangular to subrounded.		
					(1.00) 2.20	Firm grey mottled brown slightly sandy slightly gravelly CLAY. Gravels are fine to coarse subangular to rounded with low rounded cobble content.		
					(0.90) 3.10	Firm to stiff light bluish grey mottled brown slightly sandy slightly gravelly CLAY. Gravels are fine to coarse subangular to subrounded.		
					(0.40) 3.50	Stiff light bluish grey mottled brown slightly sandy slightly gravelly CLAY. Gravels are fine to coarse subangular to subrounded.		
					(0.40) 3.90	Very stiff light bluish grey mottled brown slightly sandy slightly gravelly CLAY. Gravels are fine to coarse subangular to subrounded.		
						Complete at 3.90m		

Plan

Remarks

No groundwater encountered.
Trial pit stable.
Trial pit backfilled upon completion.

Scale (approx)	Logged By	Figure No.
1:25	AM	12960-06-23.TP05

Ground Investigations Ireland Ltd
www.gii.ie

Site Tinahask			**Trial Pit Number** TP06
Machine : 8t Excavator **Method :** Trial Pit	**Dimensions** 2.70m x 0.70m x 3.70m (L x W x D)	**Ground Level (mOD)**	**Client** Hayes Higgins	**Job Number** 12960-06-23
	Location	**Dates** 12/07/2023	**Project Contractor** GII	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					(0.30)	Brown TOPSOIL with rootlets.		
					0.30			
					(0.20)	Very soft brown mottled grey and orange slightly sandy slightly gravelly CLAY. Gravels are fine to coarse subangular to subrounded.		
					0.50			
					(0.40)	Soft brown mottled grey and orange slightly sandy slightly gravelly CLAY. Gravels are fine to coarse subangular to subrounded.		
					0.90			
					(0.40)	Soft grey mottled brown slightly sandy slightly gravelly CLAY. Gravels are fine to coarse subangular to subrounded.		
					1.30			
					(1.70)	Firm to stiff grey mottled brown slightly sandy slightly gravelly CLAY. Gravels are fine to coarse subangular to subrounded.		
					3.00			
					(0.70)	Very stiff grey mottled brown slightly sandy slightly gravelly CLAY. Gravels are fine to coarse subangular to subrounded.		
					3.70			
						Complete at 3.70m		

Plan

Remarks

No groundwater encountered.
Trial pit stable.
Trial pit backfilled upon completion.

Scale (approx)	Logged By	Figure No.
1:25	AM	12960-06-23.TP06

Ground Investigations Ireland Ltd
www.gii.ie

Site Tinahask			**Trial Pit Number** TP07
Machine : 8t Excavator **Method :** Trial Pit	**Dimensions** 2.70m x 0.70m x 3.60m (L x Wx D)	**Ground Level (mOD)**	**Client** Hayes Higgins	**Job Number** 12960-06-23
	Location	**Dates** 12/07/2023	**Project Contractor** GII	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					(0.30)	Brown TOPSOIL with rootlets.		
					0.30			
0.50	B1				(0.40)	Very soft brown mottled grey to orange slightly sandy slightly gravelly CLAY. Gravels are fine to coarse subangular to subrounded.		
					0.70			
1.00	B2				(0.80)	Soft brown mottled grey to orange slightly sandy slightly gravelly CLAY. Gravels are fine to coarse subangular to subrounded.		
					1.50			
					(0.30)	Firm grey mottled brown slightly sandy slightly gravelly CLAY. Gravels are fine to coarse subangular to subrounded.		
					1.80			
2.00	B3				(1.50)	Stiff grey mottled brown slightly sandy slightly gravelly CLAY. Gravels are fine to coarse subangular to subrounded.		
3.00	B4				3.30			
					(0.30)	Very stiff grey mottled brown slightly sandy slightly gravelly CLAY. Gravels are fine to coarse subangular to subrounded.		
					3.60			
3.60	B5					Complete at 3.60m		

Plan

Remarks

No groundwater encountered.
Trial pit stable.
Trial pit backfilled upon completion.

Scale (approx)	Logged By	Figure No.
1:25	AM	12960-06-23.TP07

Ground Investigations Ireland Ltd
www.gii.ie

Site Tinahask			**Trial Pit Number** TP08
Machine : 8t Excavator **Method :** Trial Pit	**Dimensions** 2.60m x 0.70m x 4.10m (L x W x D)	**Ground Level (mOD)**	**Client** Hayes Higgins	**Job Number** 12960-06-23
	Location	**Dates** 12/07/2023	**Project Contractor** GII	**Sheet** 1/2

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					(0.30)	Brown TOPSOIL with rootlets.		
					0.30			
					(0.40)	Very soft brown mottled grey and orange slightly sandy slightly gravelly CLAY. Gravels are fine subangular to subrounded.		
					0.70			
					(0.80)	Soft brown mottled grey and orange slightly sandy slightly gravelly CLAY. Gravels are fine subangular to subrounded.		
					1.50			
					(0.30)	Firm brown mottled grey and orange slightly sandy slightly gravelly CLAY. Gravels are fine subangular to subrounded.		
					1.80			
					(0.60)	Stiff brown mottled grey and orange slightly sandy slightly gravelly CLAY. Gravels are fine subangular to subrounded.		
					2.40			
					(0.90)	Stiff grey mottled brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse subangular to subrounded.		
					3.30			
					(0.80)	Very stiff grey mottled brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse subangular to subrounded.		

Plan

Remarks

No groundwater encountered.
Trial pit stable.
Trial pit backfilled upon completion.

Scale (approx)	Logged By	Figure No.
1:25	AM	12960-06-23.TP08

Ground Investigations Ireland Ltd
www.gii.ie

Site Tinahask			**Trial Pit Number** TP08
Machine : 8t Excavator **Method :** Trial Pit	**Dimensions** 2.60m x 0.70m x 4.10m (L x W x D)	**Ground Level (mOD)**	**Client** Hayes Higgins	**Job Number** 12960-06-23
	Location	**Dates** 12/07/2023	**Project Contractor** GII	**Sheet** 2/2

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					4.10	Complete at 4.10m		

Plan

Remarks

No groundwater encountered.
Trial pit stable.
Trial pit backfilled upon completion.

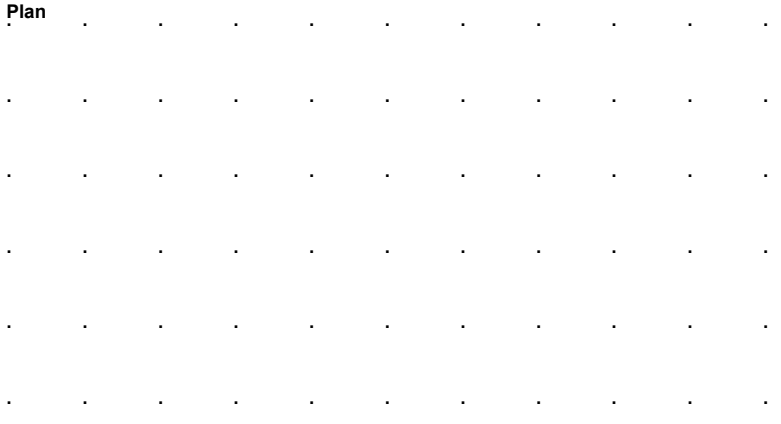
Scale (approx)	Logged By	Figure No.
1:25	AM	12960-06-23.TP08

Ground Investigations Ireland Ltd
www.gii.ie

Site Tinahask			**Trial Pit Number** TP09
Machine : 8t Excavator **Method :** Trial Pit	**Dimensions** 2.40m x 0.70m x 4.00m (L x W x D)	**Ground Level (mOD)**	**Client** Hayes Higgins	**Job Number** 12960-06-23
	Location	**Dates** 14/07/2023	**Project Contractor** GII	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					(0.20) 0.20	Brown TOPSOIL with rootlets.		
					(0.30) 0.50	Very soft brown mottled grey and orange slightly sandy slightly gravelly CLAY. Gravel is fine subangular to subrounded.		
0.50	B1				(0.40) 0.90	Soft to stiff brown mottled grey and orange slightly sandy slightly gravelly CLAY. Gravel is fine subangular to subrounded.		
1.00	B2				(0.50) 1.40	Soft grey mottled brown slightly sandy slightly gravelly CLAY. Gravels are fine subangular to subrounded.		
2.00	B3				(1.00) 2.40	Firm to stiff grey mottled brown slightly sandy slightly gravelly CLAY. Gravels are fine subangular to subrounded.		
					(0.40) 2.80	Stiff grey mottled brown slightly sandy slightly gravelly CLAY. Gravels are fine subangular to subrounded.		
3.00	B4				(1.20) 4.00	Very stiff grey mottled brown slightly sandy slightly gravelly CLAY. Gravels are fine subangular to subrounded.		
3.90	B5							

Plan



Remarks

No groundwater encountered.
Trial pit stable.
Trial pit backfilled upon completion.

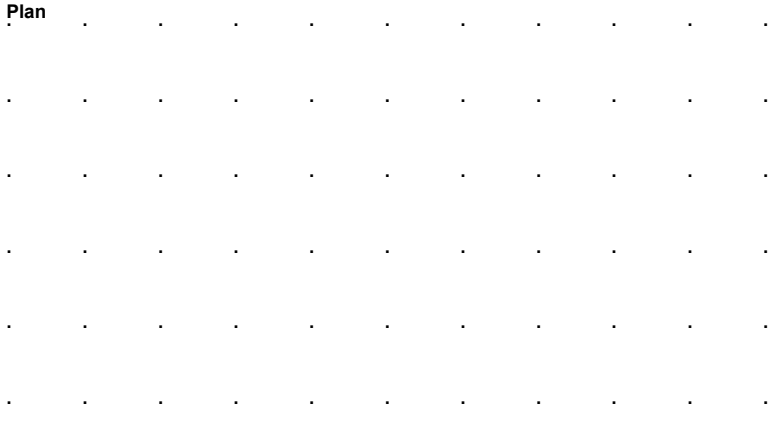
Scale (approx)	Logged By	Figure No.
1:25	AM	12960-06-23.TP09

Ground Investigations Ireland Ltd
www.gii.ie

Site Tinahask			**Trial Pit Number** TP10
Machine : 8t Excavator **Method :** Trial Pit	**Dimensions** 2.20m x 0.70m x 3.7m (LxWxD)	**Ground Level (mOD)**	**Client** Hayes Higgins	**Job Number** 12960-06-23
	Location	**Dates** 14/07/2023	**Project Contractor** GII	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					(0.30) 0.30	Brown TOPSOIL with rootlets.		
0.50	B1				(0.40) 0.70	Very Soft brown slightly sandy slightly gravelly CLAY. Gravels are fine subangular to subrounded.		
					(0.20) 0.90	Very soft brown mottled grey slightly sandy slightly gravelly CLAY. Gravels are fine to coarse subangular to subrounded.		
1.00	B2				(0.20) 1.10	Soft brown mottled grey slightly sandy slightly gravelly CLAY. Gravels are fine to coarse subangular to subrounded.		
					(0.60) 1.70	Soft to firm grey mottled brown slightly sandy slightly gravelly CLAY. Gravels are fine subangular to subrounded.		
2.00	B3				(0.40) 2.10	Soft grey mottled brown slightly sandy slightly gravelly CLAY. Gravels are fine subangular to subrounded.		
					(0.40) 2.50	Firm grey mottled brown slightly sandy slightly gravelly CLAY. Gravels are fine subangular to subrounded.		
3.00	B4				(0.70) 3.20	Firm to stiff grey mottled brown slightly sandy slightly gravelly CLAY. Gravels are fine subangular to subrounded.		
3.50	B5				(0.50) 3.70	Firm grey mottled brown slightly sandy slightly gravelly CLAY. Gravels are fine subangular to subrounded.		
						Complete at 3.70m		

Plan



Remarks

No groundwater encountered.
Trial pit stable.
Trial pit backfilled upon completion.

Scale (approx)	Logged By	Figure No.
1:25	AM	12960-06-23.TP10

Ground Investigations Ireland Ltd
www.gii.ie

Site Tinahask			**Trial Pit Number** TP11
Machine : 8t Excavator **Method :** Trial Pit	**Dimensions** 2.30m x 0.70m x 3.70m (L x W x D)	**Ground Level (mOD)**	**Client** Hayes Higgins	**Job Number** 12960-06-23
	Location	**Dates** 14/07/2023	**Project Contractor** GII	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					(0.20) 0.20	Brown TOPSOIL with rootlets.		
					(0.15) 0.35	MADE GROUND: brown mottled grey and orange slightly sandy slightly gravelly Clay with orange to yellow coarse subrounded to rounded gravel surrounding yellow plastic pipe (possible land drain). Gravels are fine subangular to subrounded.		
					(0.45) 0.80	Soft brown mottled grey and orange slightly sandy slightly gravelly CLAY. Gravel is fine subangular to subrounded.		
					(0.60) 1.40	Soft grey mottled brown slightly sandy slightly gravelly CLAY. Gravels are fine subangular to subrounded.		
					(1.30) 2.70	Firm grey mottled brown slightly sandy slightly gravelly CLAY. Gravels are fine subangular to subrounded.		
					(0.60) 3.30	Stiff grey mottled brown slightly sandy slightly gravelly CLAY. Gravels are fine subangular to subrounded.		
					(0.40) 3.70	Very stiff grey mottled brown slightly sandy slightly gravelly CLAY. Gravels are fine subangular to subrounded.		
						Complete at 3.70m		

Plan

Remarks

No groundwater encountered.
Trial pit stable.
Trial pit backfilled upon completion.

Scale (approx)	Logged By	Figure No.
1:25	AM	12960-06-23.TP11

Ground Investigations Ireland Ltd
www.gii.ie

Site Tinahask			**Trial Pit Number** TP12
Machine : 8t Excavator **Method :** Trial Pit	**Dimensions** 2.20m x 0.70m x 3.85m (L x W x D)	**Ground Level (mOD)**	**Client** Hayes Higgins	**Job Number** 12960-06-23
	Location	**Dates** 14/07/2023	**Project Contractor** GII	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					(0.20) 0.20	Brown TOPSOIL with rootlets and tree roots.		
					(0.40)	Soft brown mottled pinkish orange slightly sandy slightly gravelly CLAY. Gravels are fine subangular to subrounded.		
0.50	B1				0.60			
					(0.60)	Soft brown mottled grey slightly sandy slightly gravelly CLAY. Gravels are fine subangular to subrounded.		
1.00	B2				1.20			
					(0.20)	Soft grey mottled brown slightly sandy slightly gravelly CLAY. Gravels are fine to coarse subangular to subrounded.		
					1.40	Firm to stiff grey mottled brown slightly sandy slightly gravelly CLAY. Gravels are fine to coarse subangular to subrounded.		
					(1.30)			
2.10	B3				2.70			
					(0.50)	Stiff grey mottled brown slightly sandy slightly gravelly CLAY. Gravels are fine to coarse subangular to subrounded.		
3.00	B4				3.20			
					(0.65)	Very stiff grey mottled brown slightly sandy slightly gravelly CLAY. Gravels are fine to coarse subangular to subrounded.		
					3.85	Complete at 3.85m		

Plan

Remarks

Trial pit stable.
Trial pit backfilled upon completion.
No groundwater encountered.

Scale (approx)	Logged By	Figure No.
1:25	AM	12960-06-23.TP12

Ground Investigations Ireland Ltd
www.gii.ie

Site Tinahask			**Trial Pit Number** TP13
Machine : 8t Excavator **Method :** Trial Pit	**Dimensions** 2.20m x 0.70m x 3.90m (L x W x D)	**Ground Level (mOD)**	**Client** Hayes Higgins	**Job Number** 12960-06-23
	Location	**Dates** 14/07/2023	**Project Contractor** GII	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					(0.20) 0.20	Brown TOPSOIL with rootlets and tree roots.		
					(0.20) 0.40	Very soft brown mottled orange slightly sandy slightly gravelly CLAY. Gravels are fine subangular to subrounded.		
					(0.20) 0.60	Soft brown mottled orange slightly sandy slightly gravelly CLAY. Gravels are fine subangular to subrounded.		
					(0.60) 1.20	Soft brown mottled grey slightly sandy slightly gravelly CLAY. Gravels are fine to coarse subangular to subrounded.		
					(0.60) 1.80	Firm mottled grey slightly sandy slightly gravelly CLAY. Gravels are fine to coarse subangular to subrounded.		
					(0.30) 2.10	Firm grey mottled brown slightly sandy slightly gravelly CLAY. Gravels are fine to coarse subangular to subrounded.		
					(0.40) 2.50	Frim to stiff grey mottled brown slightly sandy slightly gravelly CLAY. Gravels are fine to coarse subangular to subrounded.		
					(0.30) 2.80	Stiff grey mottled brown slightly sandy slightly gravelly CLAY. Gravels are fine to coarse subangular to subrounded.		
					(1.10) 3.90	Very stiff grey mottled brown slightly sandy slightly gravelly CLAY. Gravels are fine to coarse subangular to subrounded.		
						Complete at 3.90m		

Plan

Remarks

No groundwater encountered.
Trial pit stable.
Trial pit backfilled upon completion.

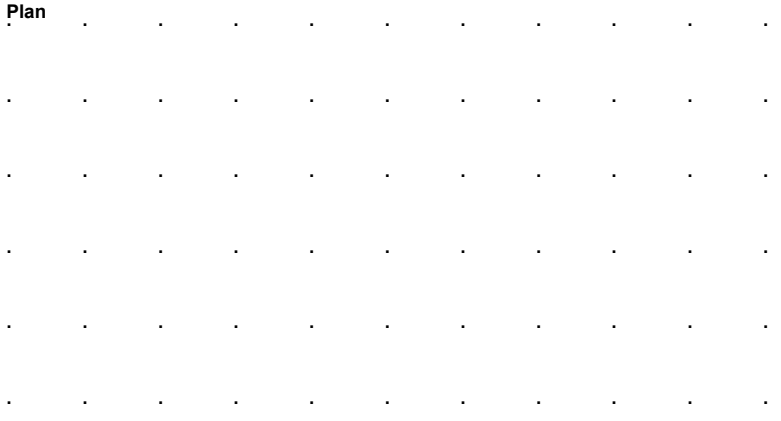
Scale (approx)	Logged By	Figure No.
1:25	AM	12960-06-23.TP13

Ground Investigations Ireland Ltd
www.gii.ie

Site Tinahask			**Trial Pit Number** TP14
Machine : 8t Excavator **Method :** Trial Pit	**Dimensions** 2.10m x 0.70m x 4.00m (L x W x D)	**Ground Level (mOD)**	**Client** Hayes Higgins	**Job Number** 12960-06-23
	Location	**Dates** 14/07/2023	**Project Contractor** GII	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					(0.20) 0.20	Brown TOPSOIL with rootlets and tree roots.		
					(0.40)	Very soft pinkish brown mottled orange and grey slightly sandy slightly gravelly CLAY. Gravels are fine to coarse subangular to subrounded.		
0.50	B1				0.60			
					(0.70)	Soft brown mottled grey slightly sandy slightly gravelly CLAY. Gravels are fine to coarse subangular to subrounded.		
1.00	B2				1.30			
					(0.30)	Soft grey mottled brown slightly sandy slightly gravelly CLAY. Gravels are fine to coarse subangular to subrounded.		
					1.60			
					(0.40)	Firm to stiff grey mottled brown slightly sandy slightly gravelly CLAY. Gravels are fine to coarse subangular to subrounded.		
2.00	B3				2.00			
					(1.30)	Stiff grey mottled brown slightly sandy slightly gravelly CLAY. Gravels are fine to coarse subangular to subrounded.		
					3.30			
3.50	B4				(0.70)	Very stiff grey mottled brown slightly sandy slightly gravelly CLAY. Gravels are fine to coarse subangular to subrounded.		
					4.00			

Plan



Remarks

No groundwater encountered.
Trial pit stable.
Trial pit backfilled upon completion.

Scale (approx)	Logged By	Figure No.
1:25	AM	12960-06-23.TP14

Ground Investigations Ireland Ltd
www.gii.ie

Site Tinahask			**Trial Pit Number** TP15
Machine : 8t Excavator **Method :** Trial Pit	**Dimensions** 2.60m x 0.70m x 3.80m (L x W x D)	**Ground Level (mOD)**	**Client** Hayes Higgins	**Job Number** 12960-06-23
	Location	**Dates** 12/07/2023	**Project Contractor** GII	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					(0.40)	Brown TOPSOIL with rootlets and medium subangular to subrounded cobbles.		
					0.40 (0.30)	Very soft brown mottled grey slightly sandy slightly gravelly CLAY. Gravels are fine to coarse subangular to subrounded.		
					0.70 (0.40)	Soft brown mottled grey slightly sandy slightly gravelly CLAY. Gravels are fine to coarse subangular to subrounded.		
					1.10 (0.20)	Soft grey mottled brown slightly sandy slightly gravelly CLAY. Gravels are fine to coarse subangular to subrounded.		
					1.30 (1.70)	Firm to stiff grey mottled brown slightly sandy slightly gravelly CLAY. Gravels are fine to coarse subangular to subrounded.		
					3.00 (0.60)	Stiff grey mottled brown slightly sandy slightly gravelly CLAY. Gravels are fine to coarse subangular to subrounded.		
					3.60 (0.20)	Very Stiff grey mottled brown slightly sandy slightly gravelly CLAY. Gravels are fine to coarse subangular to subrounded.		
					3.80	Complete at 3.80m		

Plan

Remarks

No groundwater encountered.
Trial pit stable.
Trial pit backfilled upon completion.

Scale (approx)	Logged By	Figure No.
1:25	AM	12960-06-23.TP15

Ground Investigations Ireland Ltd
www.gii.ie

Site Tinahask			**Trial Pit Number** TP16
Machine : 8t Excavator **Method :** Trial Pit	**Dimensions** 2.90m x 0.70m x 3.80m (L x W x D)	**Ground Level (mOD)**	**Client** Hayes Higgins	**Job Number** 12960-06-23
	Location	**Dates** 12/07/2023	**Project Contractor** GII	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					(0.20) 0.20	Brown TOPSOIL with rootlets.		
					(0.20) 0.40	Very soft brown slightly sandy slightly gravelly CLAY. Gravels are fine to coarse subangular to subrounded.		
0.50	B 1				(0.30) 0.70	Very soft brown mottled grey slightly sandy slightly gravelly CLAY. Gravels are fine to coarse subangular to subrounded with low subrounded cobble content.		
1.00	B2				(0.60) 1.30	Soft brown mottled grey slightly sandy slightly gravelly CLAY. Gravels are fine to coarse subangular to subrounded with low subrounded cobble content.		
					(0.60) 1.90	Firm brown mottled grey slightly sandy slightly gravelly CLAY. Gravels are fine to coarse subangular to subrounded with low subrounded cobble content.		
2.50	B3				(1.10) 3.00	Firm to stiff brown mottled grey slightly sandy slightly gravelly CLAY. Gravels are fine to coarse subangular to subrounded with low subrounded cobble content.		
					(0.60) 3.60	Stiff brown mottled grey slightly sandy slightly gravelly CLAY. Gravels are fine to coarse subangular to subrounded with low subrounded cobble content.		
					(0.20) 3.80	Very stiff grey mottled brown slightly sandy slightly gravelly CLAY. Gravels are fine subangular to subrounded with low subrounded cobble content.		
3.80	B4					Complete at 3.80m		

Plan

Remarks

No groundwater encountered.
Trial pit stable.
Trial pit backfilled upon completion.

Scale (approx)	Logged By	Figure No.
1:25	AM	12960-06-23.TP16

Ground Investigations Ireland Ltd
www.gii.ie

Site Tinahask			**Trial Pit Number** TP17
Machine : 8t Excavator **Method :** Trial Pit	**Dimensions** 2.40m x 0.70m x 3.60m (L x W x D)	**Ground Level (mOD)**	**Client** Hayes Higgins	**Job Number** 12960-06-23
	Location	**Dates** 12/07/2023	**Project Contractor** GII	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					(0.30)	Brown TOPSOIL with rootlets.		
					0.30	Very soft brown mottled grey slightly sandy slightly gravelly CLAY. Gravels are fine subangular to subrounded.		
					(0.60)			
					0.90	Soft brown mottled grey slightly sandy slightly gravelly CLAY. Gravels are fine subangular to subrounded.		
					(0.20)			
					1.10	Soft grey mottled brown slightly sandy slightly gravelly CLAY. Gravels are fine to coarse subangular to subrounded.		
					(0.20)			
					1.30	Firm to stiff grey mottled brown slightly sandy slightly gravelly CLAY. Gravels are fine to coarse subangular to subrounded.		
					(1.70)			
					3.00	Stiff grey mottled brown slightly sandy slightly gravelly CLAY. Gravels are fine to coarse subangular to subrounded.		
					(0.60)			
					3.60	Complete at 3.60m		

Plan

Remarks

No groundwater encountered.
Trial pit stable.
Trial pit backfilled upon completion.

Scale (approx)	Logged By	Figure No.
1:25	AM	12960-06-23.TP17

Ground Investigations Ireland Ltd
www.gii.ie

Site Tinahask			**Trial Pit Number** TP18
Machine : 8t Excavator **Method :** Trial Pit	**Dimensions** 2.40m x 0.70m x 4.10m (L x W x D)	**Ground Level (mOD)**	**Client** Hayes Higgins	**Job Number** 12960-06-23
	Location	**Dates** 12/07/2023-14/07/2023	**Project Contractor** GII	**Sheet** 1/2

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					(0.30)	Brown TOPSOIL with rootlets.		
					0.30			
					(0.30)	MADE GROUND: brown mottled grey and orange slightly sandy slightly gravelly Clay with orange to yellow coarse subrounded to rounded gravel surrounding yellow plastic pipe (possible land drain). Gravels are fine to coarse subangular to subrounded.		
					0.60			
					(0.20)	Soft brown mottled grey and orange slightly sandy slightly gravelly CLAY. Gravels are fine to coarse subangular to subrounded.		
					0.80			
					(0.70)	Soft grey mottled brown slightly sandy slightly gravelly CLAY. Gravels are fine to coarse subangular to subrounded.		
					1.50			
					(1.00)	Firm grey mottled brown slightly sandy slightly gravelly CLAY. Gravels are fine to coarse subangular to subrounded.		
					2.50			
					(0.30)	Stiff grey mottled brown slightly sandy slightly gravelly CLAY. Gravels are fine to coarse subangular to subrounded.		
					2.80			
					(1.30)	Very stiff grey mottled brown slightly sandy slightly gravelly CLAY. Gravels are fine to coarse subangular to subrounded.		

Plan

Remarks

No groundwater encountered.
Trial pit stable.
Trial pit backfilled upon completion.

Scale (approx)	Logged By	Figure No.
1:25	AM	12960-06-23.TP18

Ground Investigations Ireland Ltd
www.gii.ie

Site Tinahask			**Trial Pit Number** TP18
Machine : 8t Excavator **Method :** Trial Pit	**Dimensions** 2.40m x 0.70m x 4.10m (L x W x D)	**Ground Level (mOD)**	**Client** Hayes Higgins	**Job Number** 12960-06-23
	Location	**Dates** 12/07/2023-14/07/2023	**Project Contractor** GII	**Sheet** 2/2

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					4.10	Complete at 4.10m		

Plan

Remarks

No groundwater encountered.
Trial pit stable.
Trial pit backfilled upon completion.

Scale (approx)	Logged By	Figure No.
1:25	AM	12960-06-23.TP18

Ground Investigations Ireland Ltd
www.gii.ie

Site Tinahask			**Trial Pit Number** TP19
Machine : 8t Excavator **Method :** Trial Pit	**Dimensions** 2.40m x 0.70m x 4.05m (L x W x D)	**Ground Level (mOD)**	**Client** Hayes Higgins	**Job Number** 12960-06-23
	Location	**Dates** 12/07/2023	**Project Contractor** GII	**Sheet** 1/2

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					(0.20) 0.20	Brown TOPSOIL with rootlets.		
					(0.40)	Very soft brown mottled orange and grey slightly sandy slightly gravelly CLAY. Gravels are fine to coarse subangular to subrounded.		
0.50	B1				0.60			
					(0.30)	Soft brown mottled orange and grey slightly sandy slightly gravelly CLAY. Gravels are fine to coarse subangular to subrounded.		
1.00	B2				0.90			
					(0.60)	Firm grey mottled brown slightly sandy slightly gravelly CLAY. Gravels are fine to coarse subangular to subrounded.		
					1.50			
					(0.50)	Firm to stiff grey mottled brown slightly sandy slightly gravelly CLAY. Gravels are fine to coarse subangular to subrounded.		
2.00	B3				2.00			
					(0.80)	Stiff grey mottled brown slightly sandy slightly gravelly CLAY. Gravels are fine to coarse subangular to subrounded.		
					2.80			
3.00	B4				(0.40)	Stiff grey mottled brown slightly sandy slightly gravelly CLAY. Gravels are fine to coarse subangular to subrounded.		
					3.20			
					(0.85)	Very stiff grey mottled brown slightly sandy slightly gravelly CLAY. Gravels are fine to coarse subangular to subrounded.		

Plan

Remarks

No groundwater encountered.
Trial pit stable.
Trial pit backfilled upon completion.

Scale (approx)	Logged By	Figure No.
1:25	AM	12960-06-23.TP19

Ground Investigations Ireland Ltd
www.gii.ie

Site Tinahask			**Trial Pit Number** TP19
Machine : 8t Excavator **Method :** Trial Pit	**Dimensions** 2.40m x 0.70m x 4.05m (L x W x D)	**Ground Level (mOD)**	**Client** Hayes Higgins	**Job Number** 12960-06-23
	Location	**Dates** 12/07/2023	**Project Contractor** GII	**Sheet** 2/2

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
4.05	B5				4.05	Complete at 4.50m		

Plan

Remarks

No groundwater encountered.
Trial pit stable.
Trial pit backfilled upon completion.

Scale (approx)	Logged By	Figure No.
1:25	AM	12960-06-23.TP19

Ground Investigations Ireland Ltd
www.gii.ie

Site Tinahask			**Trial Pit Number** TP20
Machine : 8t Excavator **Method :** Trial Pit	**Dimensions** 2.60m x 0.70m x 3.80m (L x W x D)	**Ground Level (mOD)**	**Client** Hayes Higgins	**Job Number** 12960-06-23
	Location	**Dates** 12/07/2023	**Project Contractor** GII	**Sheet** 1/1

Depth (m)	Sample / Tests	Water Depth (m)	Field Records	Level (mOD)	Depth (m) (Thickness)	Description	Legend	Water
					(0.30)	Brown TOPSOIL with rootlets.		
					0.30			
					(0.20)	MADE GROUND: brown mottled grey and orange slightly sandy slightly gravelly CLAY with orange to yellow coarse subrounded to rounded gravel surrounding yellow plastic pipe (possible land drain). Gravels are fine subangular to subrounded.		
0.50	B1				0.50 (0.10) 0.60			
						Soft brown mottled grey and orange slightly sandy slightly gravelly CLAY. Gravels are fine subangular to subrounded.		
1.00	B2					Stiff grey mottled brown slightly sandy slightly gravelly CLAY. Gravels are fine to coarse subangular to subrounded.		
					(1.60)			
2.20	B3				2.20	Very stiff grey mottled brown slightly sandy slightly gravelly CLAY. Gravels are fine to coarse subangular to subrounded.		
					(1.60)			
3.80	B4				3.80	Complete at 3.80m		

Plan

Remarks

No groundwater encountered.
Trial pit stable.
Trial pit backfilled upon completion.

Scale (approx)	Logged By	Figure No.
1:25	AM	12960-06-23.TP20

Tinahask Trial Pit Photographs

TP09

Tinahask Trial Pit Photographs

TP10

Tinahask Trial Pit Photographs

Tinahask Trial Pit Photographs

TP11

Tinahask Trial Pit Photographs

TP12

Tinahask Trial Pit Photographs

Tinahask Trial Pit Photographs

TP13

Tinahask Trial Pit Photographs

TP14

Tinahask Trial Pit Photographs

APPENDIX 3 – Soakaway Records

GROUND INVESTIGATIONS IRELAND
Geotechnical & Environmental

Catherinestown House,
Hazelhatch Road,
Newcastle,
Co. Dublin.
D22 YD52

Tel: 01 601 5175 / 5176
Email: info@gii.ie
Web: www.gii.ie

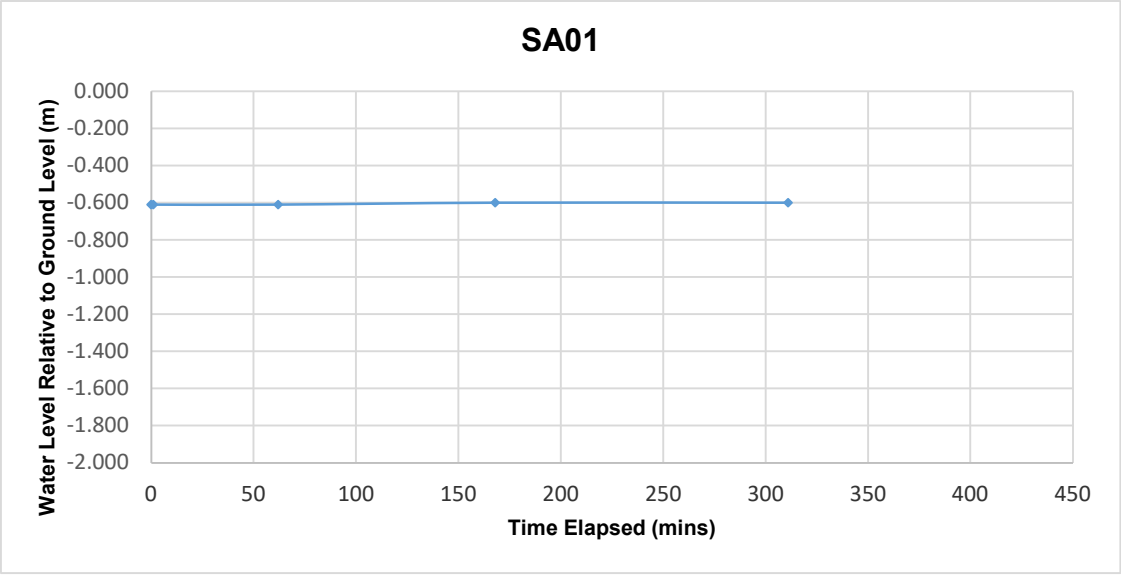
SA01

Soakaway Test to BRE Digest 365
Trial Pit Dimensions: 2.0m x 0.50m x 1.9m (L x W x D)

Date	Time	Water level (m bgl)
11/07/2023	0	-0.610
11/07/2023	1	-0.610
11/07/2023	62	-0.610
11/07/2023	168	-0.600
11/07/2023	311	-0.600

***Soakaway failed - Pit backfilled**

Start depth	Depth of Pit	Diff	75% full	25%full
0.61	1.900	1.290	0.9325	1.5775



GROUND INVESTIGATIONS IRELAND
Geotechnical & Environmental

Catherinestown House,
Hazelhatch Road,
Newcastle,
Co. Dublin.
D22 YD52

Tel: 01 601 5175 / 5176
Email: info@gii.ie
Web: www.gii.ie

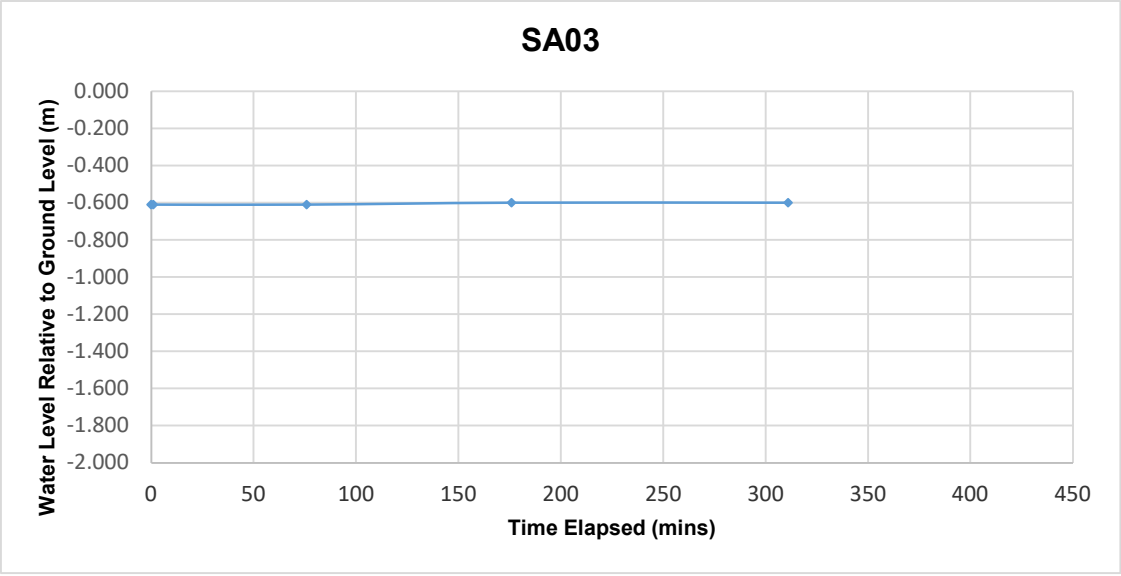
SA03

Soakaway Test to BRE Digest 365
Trial Pit Dimensions: 2.1m x 0.50m x 1.8m (L x W x D)

Date	Time	Water level (m bgl)
11/07/2023	0	-0.610
11/07/2023	1	-0.610
11/07/2023	76	-0.610
11/07/2023	176	-0.600
11/07/2023	311	-0.600

***Soakaway failed - Pit backfilled**

Start depth	Depth of Pit	Diff	75% full	25%full
0.61	1.800	1.190	0.9075	1.5025



GROUND INVESTIGATIONS IRELAND
Geotechnical & Environmental

Catherinestown House,
Hazelhatch Road,
Newcastle,
Co. Dublin.
D22 YD52

Tel: 01 601 5175 / 5176
Email: info@gii.ie
Web: www.gii.ie

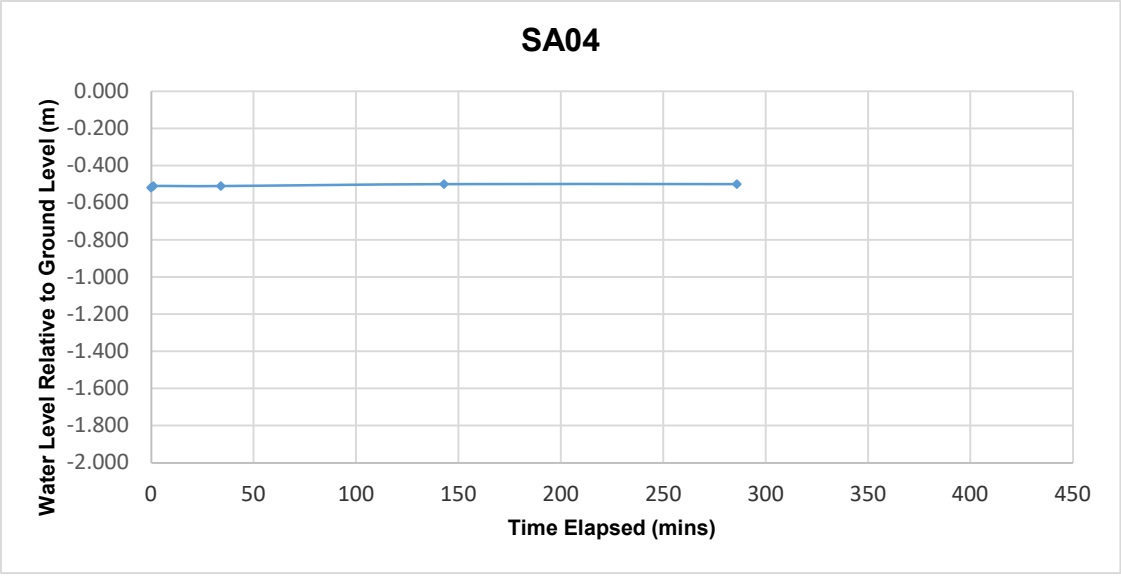
SA04

Soakaway Test to BRE Digest 365
Trial Pit Dimensions: 2.0m x 0.50m x 1.9m (L x W x D)

Date	Time	Water level (m bgl)
11/07/2023	0	-0.520
11/07/2023	1	-0.510
11/07/2023	34	-0.510
11/07/2023	143	-0.500
11/07/2023	286	-0.500

***Soakaway failed - Pit backfilled**

Start depth	Depth of Pit	Diff	75% full	25%full
0.52	1.900	1.380	0.865	1.555



GROUND INVESTIGATIONS IRELAND
Geotechnical & Environmental

Catherinestown House,
Hazelhatch Road,
Newcastle,
Co. Dublin.
D22 YD52

Tel: 01 601 5175 / 5176
Email: info@gii.ie
Web: www.gii.ie

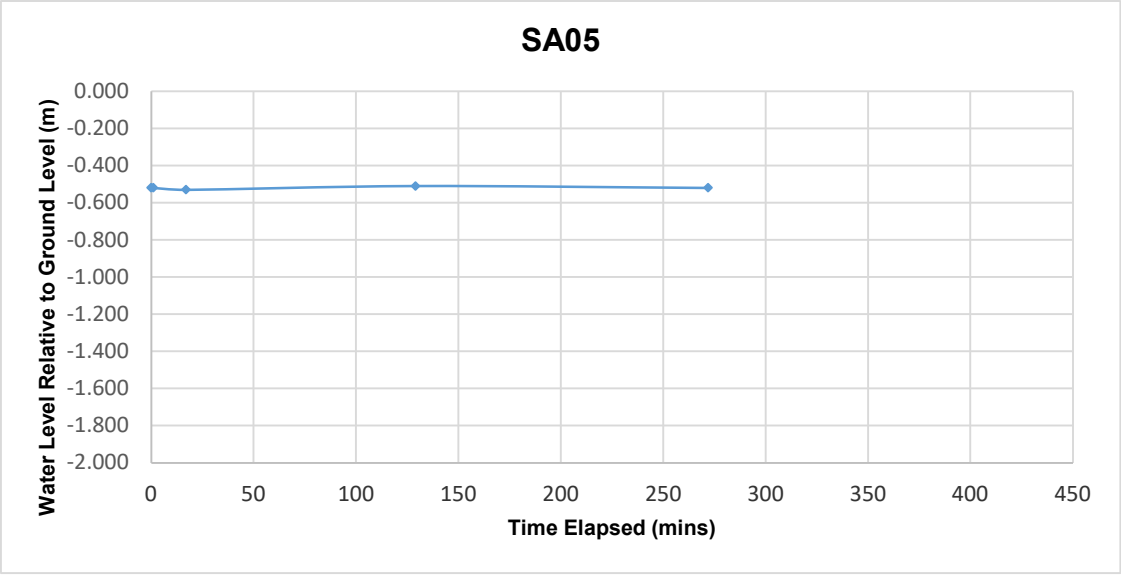
SA05

Soakaway Test to BRE Digest 365
Trial Pit Dimensions: 2.1m x 0.50m x 2.0m (L x W x D)

Date	Time	Water level (m bgl)
11/07/2023	0	-0.520
11/07/2023	1	-0.520
11/07/2023	17	-0.530
11/07/2023	129	-0.510
11/07/2023	272	-0.520

***Soakaway failed - Pit backfilled**

Start depth	Depth of Pit	Diff	75% full	25%full
0.52	2.000	1.480	0.89	1.63



GROUND INVESTIGATIONS IRELAND
Geotechnical & Environmental

Catherinestown House,
Hazelhatch Road,
Newcastle,
Co. Dublin.
D22 YD52

Tel: 01 601 5175 / 5176
Email: info@gii.ie
Web: www.gii.ie

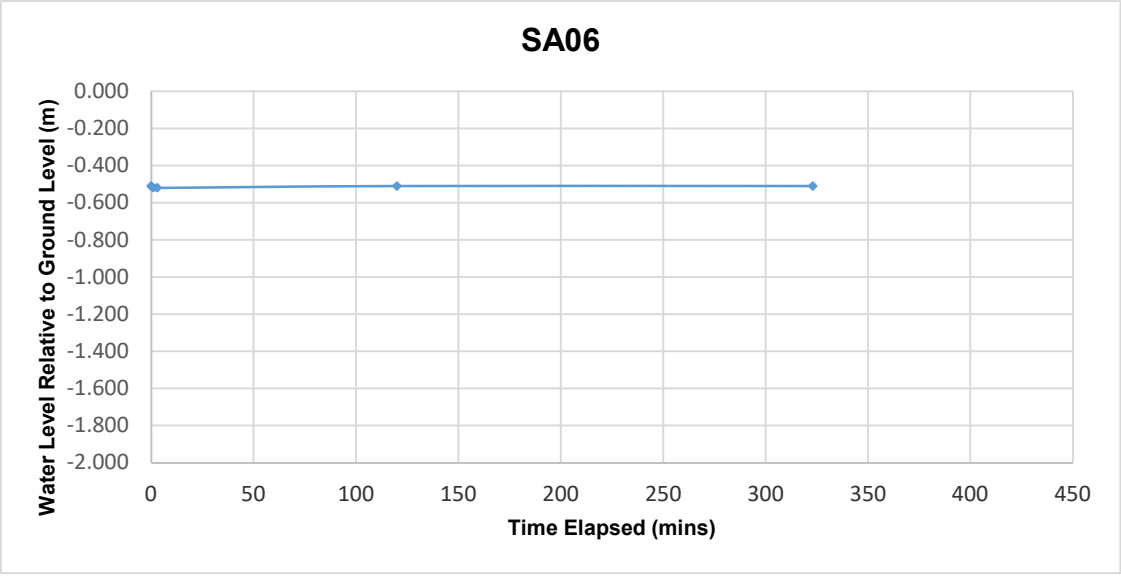
SA06

Soakaway Test to BRE Digest 365
Trial Pit Dimensions: 2.2m x 0.50m x 2.0m (L x W x D)

Date	Time	Water level (m bgl)
11/07/2023	0	-0.510
11/07/2023	1	-0.520
11/07/2023	3	-0.520
11/07/2023	120	-0.510
11/07/2023	323	-0.510

***Soakaway failed - Pit backfilled**

Start depth	Depth of Pit	Diff	75% full	25%full
0.51	2.000	1.490	0.8825	1.6275



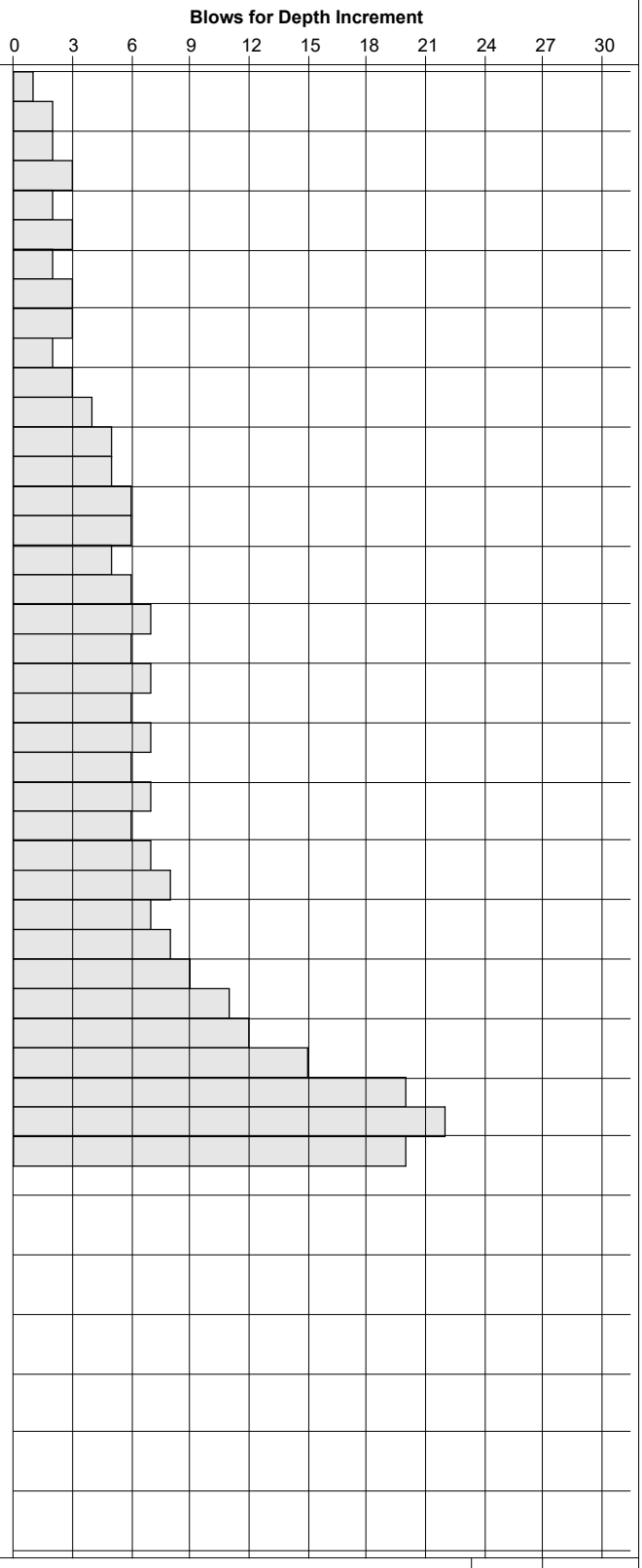
APPENDIX 4 – Dynamic Probe Records

Ground Investigations Ireland Ltd
www.gii.ie

Site	Probe Number
Tinahask	DPH01

Method	Cone Dimensions	Ground Level (mOD)	Client	Job Number
Dynamic Probe DPH, Fall Height 500mm Hammer Weight 50Kg			Hayes Higgins	12960-06-23
	Location	**Dates**	**Engineer**	**Sheet**
		02/08/2023		1/1

Depth (m)	Blows for Depth Increment	Field Records	Level (mOD)
0.00-0.10	1		
0.10-0.20	2		
0.20-0.30	2		
0.30-0.40	3		
0.40-0.50	2		
0.50-0.60	3		
0.60-0.70	2		
0.70-0.80	3		
0.80-0.90	3		
0.90-1.00	2		
1.00-1.10	3		
1.10-1.20	4		
1.20-1.30	5		
1.30-1.40	5		
1.40-1.50	6		
1.50-1.60	6		
1.60-1.70	5		
1.70-1.80	6		
1.80-1.90	7		
1.90-2.00	6		
2.00-2.10	7		
2.10-2.20	6		
2.20-2.30	7		
2.30-2.40	6		
2.40-2.50	7		
2.50-2.60	6		
2.60-2.70	7		
2.70-2.80	8		
2.80-2.90	7		
2.90-3.00	8		
3.00-3.10	9		
3.10-3.20	11		
3.20-3.30	12		
3.30-3.40	15		
3.40-3.50	20		
3.50-3.60	22		
3.60-3.70	20		



Remarks

Scale (approx)	Logged By
1:25	JC

Figure No.
12960-06-23.DPH01

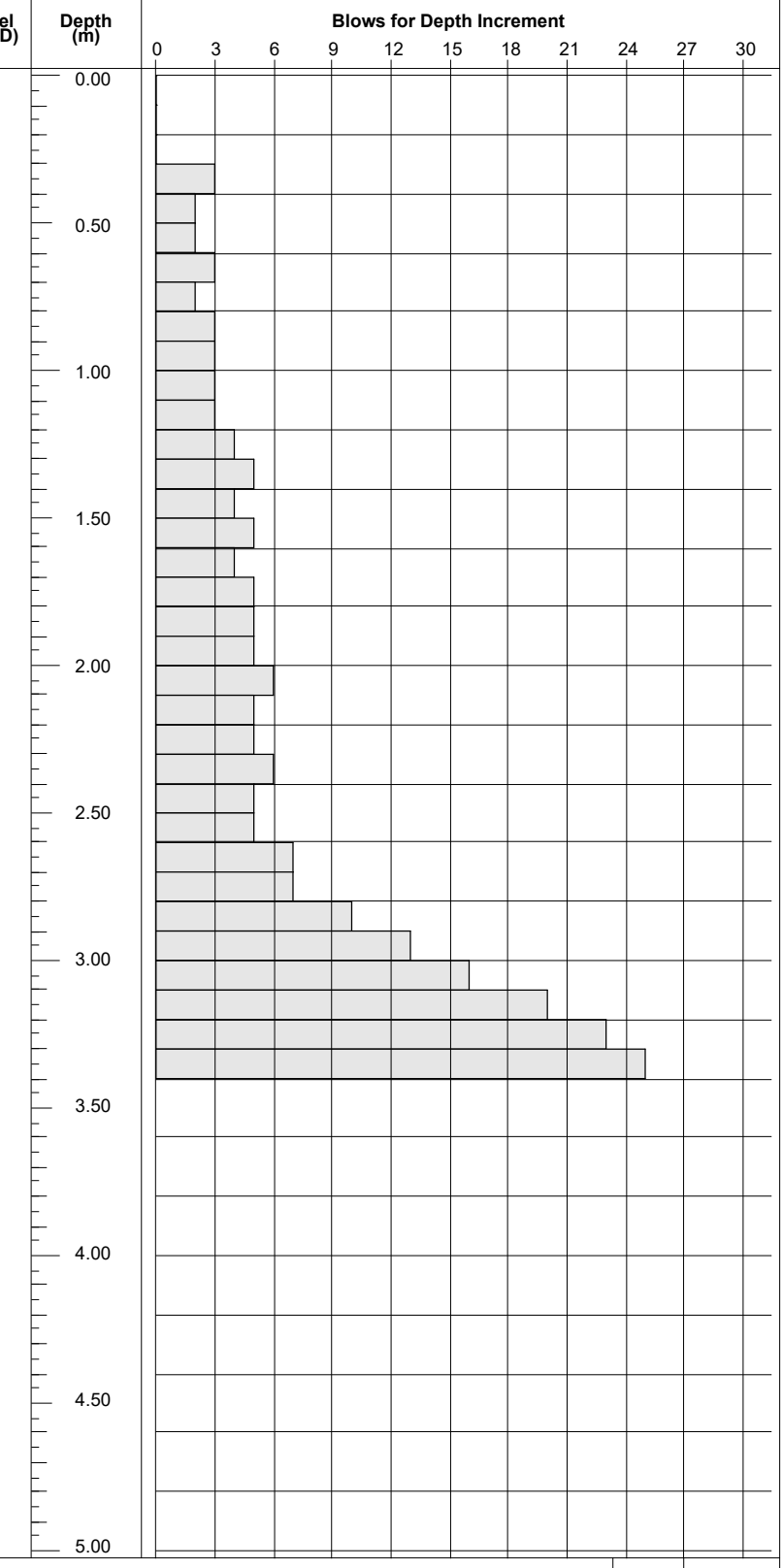
Ground Investigations Ireland Ltd
www.gii.ie

Machine : Tecop TEC10 **Method :** Dynamic Probe	**Cone Dimensions**	**Ground Level (mOD)**	**Client** Hayes Higgins	**Job Number** 12960-06-23
	Location	**Dates** 03/08/2023	**Engineer**	**Sheet** 1/1

Site
Tinahask

Probe Number
DPH02

Depth (m)	Blows for Depth Increment	Field Records	Level (mOD)
0.00-0.10	0		
0.10-0.20	0		
0.20-0.30	0		
0.30-0.40	3		
0.40-0.50	2		
0.50-0.60	2		
0.60-0.70	3		
0.70-0.80	2		
0.80-0.90	3		
0.90-1.00	3		
1.00-1.10	3		
1.10-1.20	3		
1.20-1.30	4		
1.30-1.40	5		
1.40-1.50	4		
1.50-1.60	5		
1.60-1.70	4		
1.70-1.80	5		
1.80-1.90	5		
1.90-2.00	5		
2.00-2.10	6		
2.10-2.20	5		
2.20-2.30	5		
2.30-2.40	6		
2.40-2.50	5		
2.50-2.60	5		
2.60-2.70	7		
2.70-2.80	7		
2.80-2.90	10		
2.90-3.00	13		
3.00-3.10	16		
3.10-3.20	20		
3.20-3.30	23		
3.30-3.40	25		



Remarks

Scale (approx)
1:25

Logged By
JC

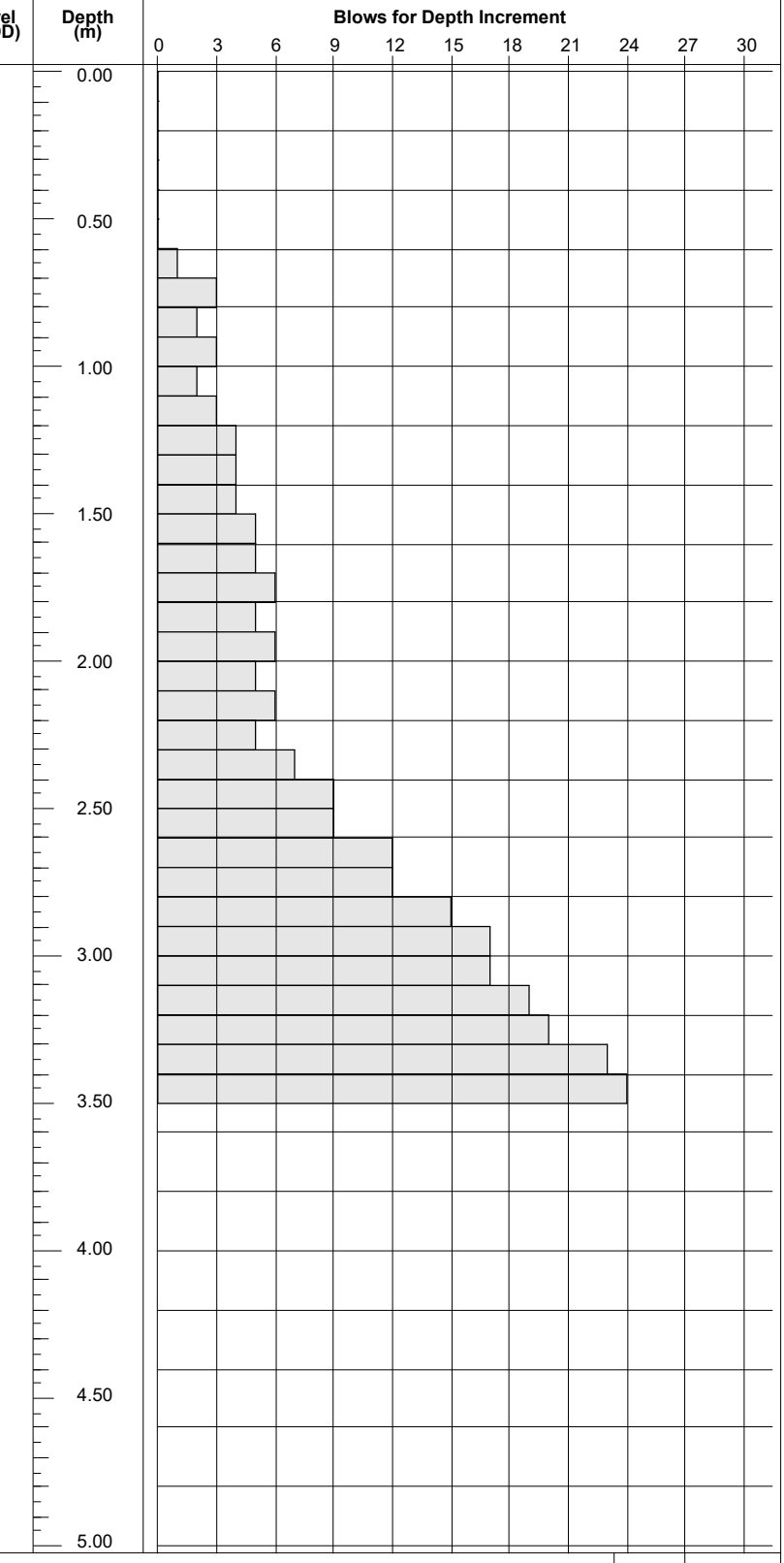
Figure No.
12960-06-23.DPH02

Ground Investigations Ireland Ltd
www.gii.ie

Site	Probe Number
Tinahask	DPH03

Method	Cone Dimensions	Ground Level (mOD)	Client	Job Number
Dynamic Probe DPH, Fall Height 500mm Hammer Weight 50Kg			Hayes Higgins	12960-06-23
	Location	**Dates**	**Engineer**	**Sheet**
		03/08/2023		1/1

Depth (m)	Blows for Depth Increment	Field Records	Level (mOD)
0.00-0.10	0		
0.10-0.20	0		
0.20-0.30	0		
0.30-0.40	0		
0.40-0.50	0		
0.50-0.60	0		
0.60-0.70	1		
0.70-0.80	3		
0.80-0.90	2		
0.90-1.00	3		
1.00-1.10	2		
1.10-1.20	3		
1.20-1.30	4		
1.30-1.40	4		
1.40-1.50	4		
1.50-1.60	5		
1.60-1.70	5		
1.70-1.80	6		
1.80-1.90	5		
1.90-2.00	6		
2.00-2.10	5		
2.10-2.20	6		
2.20-2.30	5		
2.30-2.40	7		
2.40-2.50	9		
2.50-2.60	9		
2.60-2.70	12		
2.70-2.80	12		
2.80-2.90	15		
2.90-3.00	17		
3.00-3.10	17		
3.10-3.20	19		
3.20-3.30	20		
3.30-3.40	23		
3.40-3.50	24		



Remarks

Scale (approx)	Logged By
1:25	JC

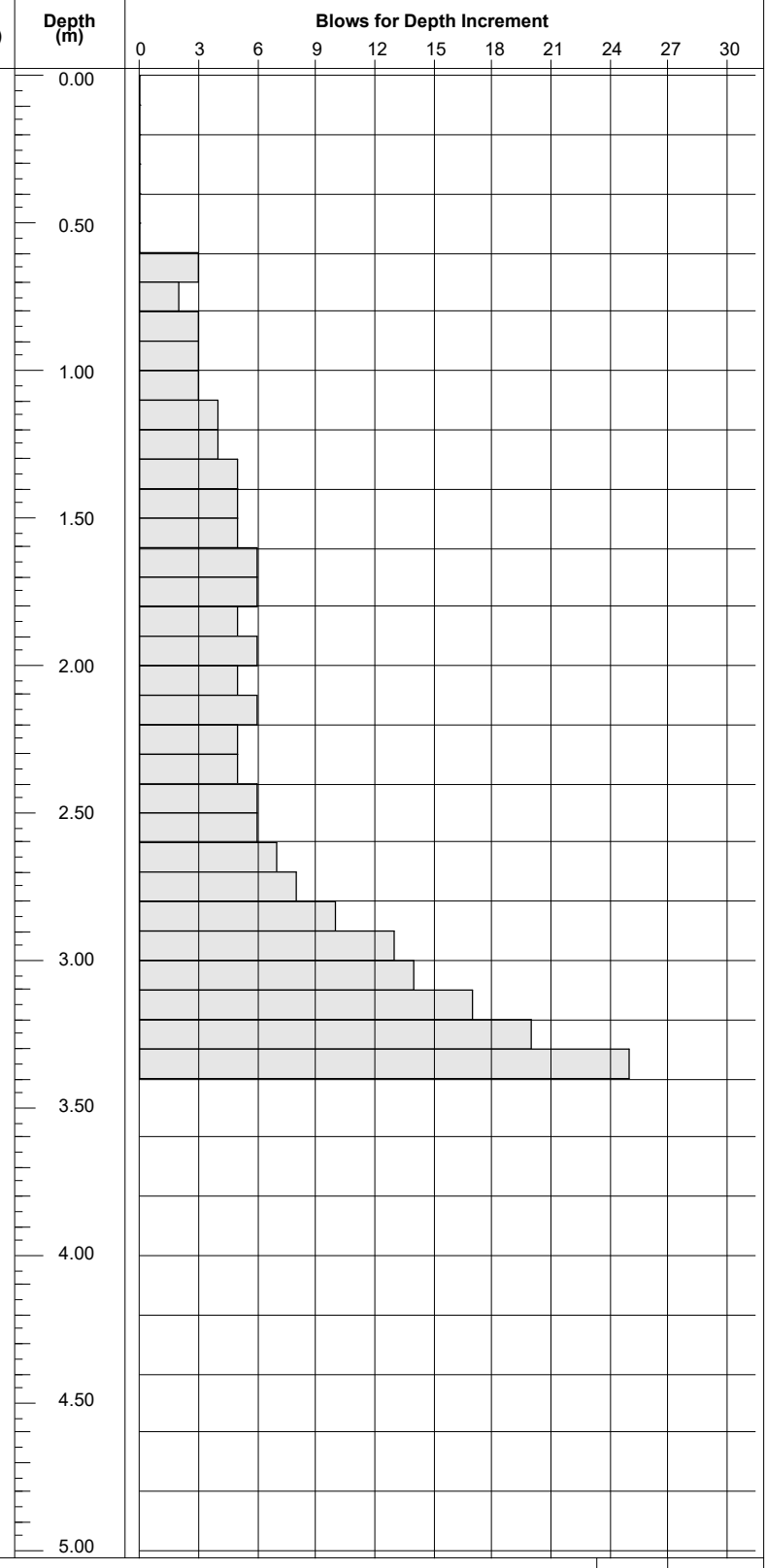
Figure No.
12960-06-23.DPH-SA03

Ground Investigations Ireland Ltd
www.gii.ie

Site	Probe Number
Tinahask	DPH04

Method	Cone Dimensions	Ground Level (mOD)	Client	Job Number
Dynamic Probe DPH, Fall Height 500mm Hammer Weight 50Kg			Hayes Higgins	12960-06-23
	Location	**Dates**	**Engineer**	**Sheet**
		03/08/2023		1/1

Depth (m)	Blows for Depth Increment	Field Records	Level (mOD)
0.00-0.10	0		
0.10-0.20	0		
0.20-0.30	0		
0.30-0.40	0		
0.40-0.50	0		
0.50-0.60	0		
0.60-0.70	3		
0.70-0.80	2		
0.80-0.90	3		
0.90-1.00	3		
1.00-1.10	3		
1.10-1.20	4		
1.20-1.30	4		
1.30-1.40	5		
1.40-1.50	5		
1.50-1.60	5		
1.60-1.70	6		
1.70-1.80	6		
1.80-1.90	5		
1.90-2.00	6		
2.00-2.10	5		
2.10-2.20	6		
2.20-2.30	5		
2.30-2.40	5		
2.40-2.50	6		
2.50-2.60	6		
2.60-2.70	7		
2.70-2.80	8		
2.80-2.90	10		
2.90-3.00	13		
3.00-3.10	14		
3.10-3.20	17		
3.20-3.30	20		
3.30-3.40	25		



Remarks

Scale (approx)	Logged By
1:25	JC

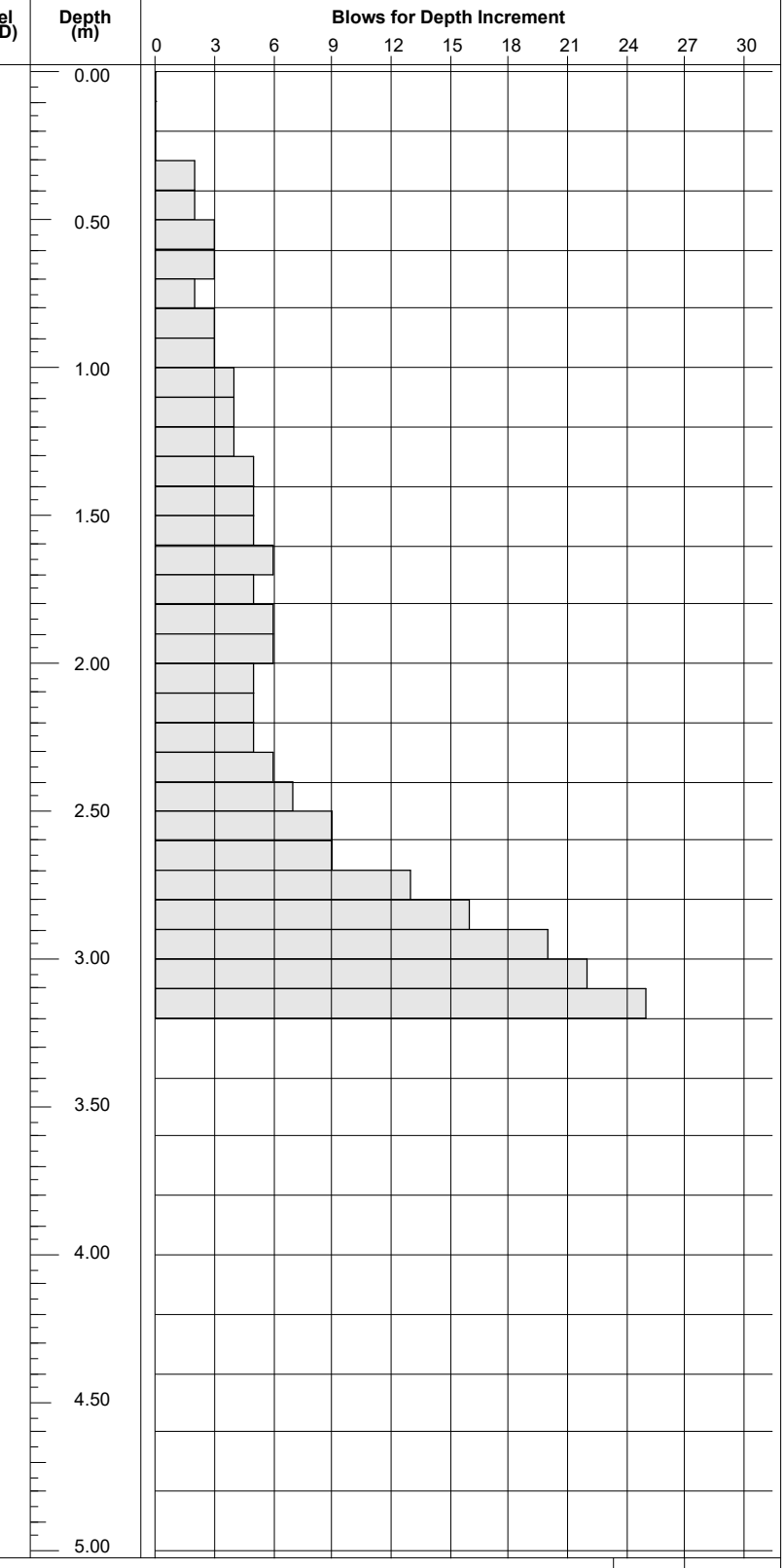
Figure No.
12960-06-23.DPH04

Ground Investigations Ireland Ltd
www.gii.ie

Site	Probe Number
Tinahask	DPH05

Method	Cone Dimensions	Ground Level (mOD)	Client	Job Number
Dynamic Probe DPH, Fall Height 500mm Hammer Weight 50Kg			Hayes Higgins	12960-06-23
	Location	**Dates**	**Engineer**	**Sheet**
		03/08/2023		1/1

Depth (m)	Blows for Depth Increment	Field Records	Level (mOD)
0.00-0.10	0		
0.10-0.20	0		
0.20-0.30	0		
0.30-0.40	2		
0.40-0.50	2		
0.50-0.60	3		
0.60-0.70	3		
0.70-0.80	2		
0.80-0.90	3		
0.90-1.00	3		
1.00-1.10	4		
1.10-1.20	4		
1.20-1.30	4		
1.30-1.40	5		
1.40-1.50	5		
1.50-1.60	5		
1.60-1.70	6		
1.70-1.80	5		
1.80-1.90	6		
1.90-2.00	6		
2.00-2.10	5		
2.10-2.20	5		
2.20-2.30	5		
2.30-2.40	6		
2.40-2.50	7		
2.50-2.60	9		
2.60-2.70	9		
2.70-2.80	13		
2.80-2.90	16		
2.90-3.00	20		
3.00-3.10	22		
3.10-3.20	25		



Remarks

Scale (approx)	Logged By
1:25	JC

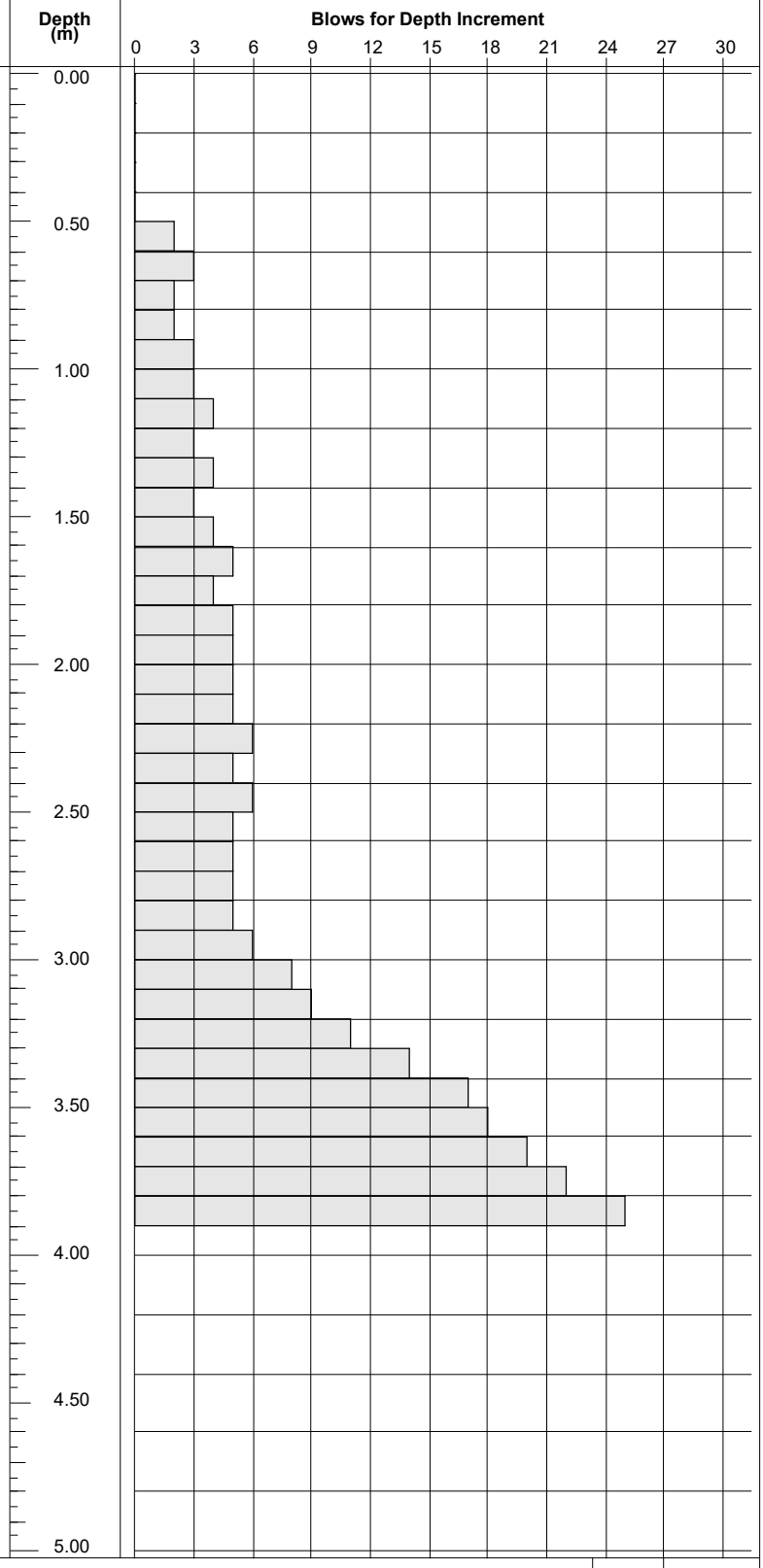
Figure No.
12960-06-23.DPH-SA05

Ground Investigations Ireland Ltd
www.gii.ie

Site	Probe Number
Tinahask	DPH06

Method	Cone Dimensions	Ground Level (mOD)	Client	Job Number
Dynamic Probe DPH, Fall Height 500mm Hammer Weight 50Kg			Hayes Higgins	12960-06-23
	Location	**Dates**	**Engineer**	**Sheet**
		02/08/2023		1/1

Depth (m)	Blows for Depth Increment	Field Records	Level (mOD)
0.00-0.10	0		
0.10-0.20	0		
0.20-0.30	0		
0.30-0.40	0		
0.40-0.50	0		
0.50-0.60	2		
0.60-0.70	3		
0.70-0.80	2		
0.80-0.90	2		
0.90-1.00	3		
1.00-1.10	3		
1.10-1.20	4		
1.20-1.30	3		
1.30-1.40	4		
1.40-1.50	3		
1.50-1.60	4		
1.60-1.70	5		
1.70-1.80	4		
1.80-1.90	5		
1.90-2.00	5		
2.00-2.10	5		
2.10-2.20	5		
2.20-2.30	6		
2.30-2.40	5		
2.40-2.50	6		
2.50-2.60	5		
2.60-2.70	5		
2.70-2.80	5		
2.80-2.90	5		
2.90-3.00	6		
3.00-3.10	8		
3.10-3.20	9		
3.20-3.30	11		
3.30-3.40	14		
3.40-3.50	17		
3.50-3.60	18		
3.60-3.70	20		
3.70-3.80	22		
3.80-3.90	25		



Remarks

Scale (approx)	Logged By
1:25	JC

Figure No.
12960-06-23.DPH06

Ground Investigations Ireland Ltd

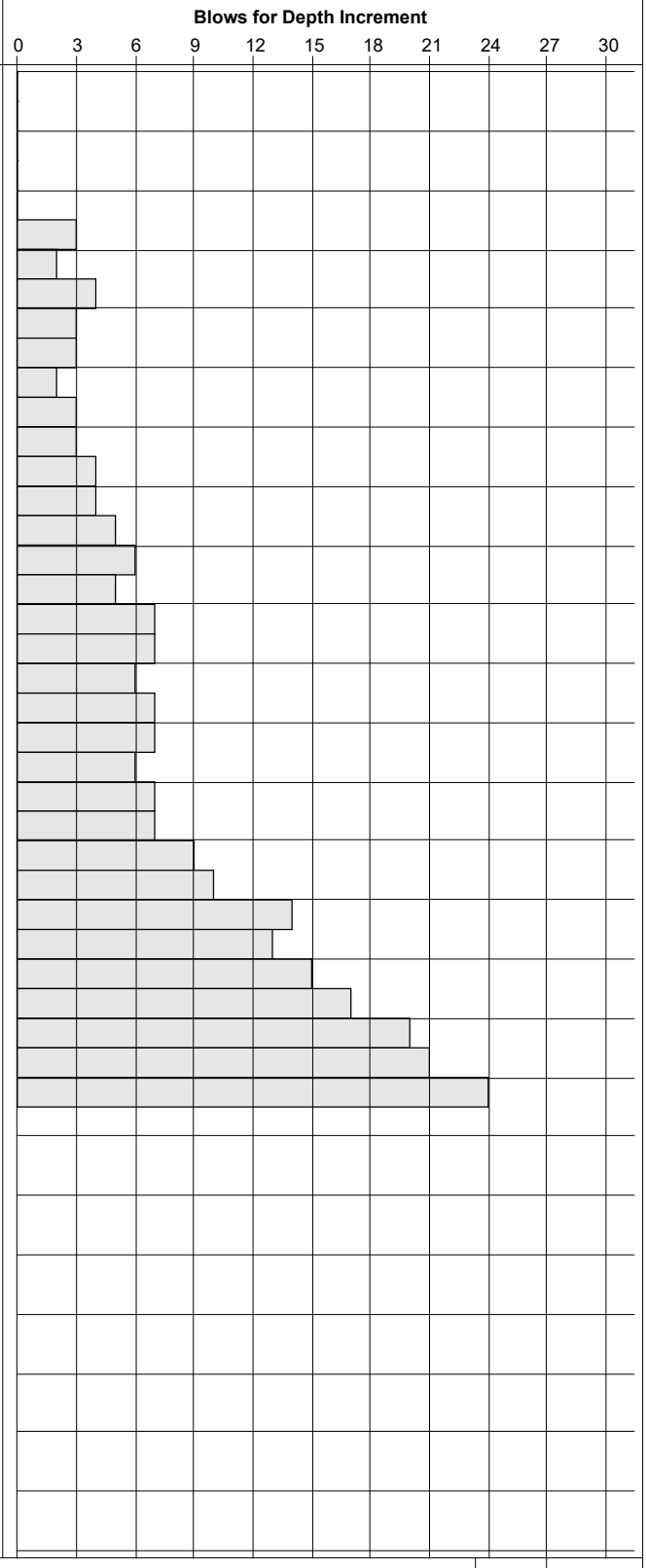
www.gii.ie

Machine : Tecop TEC10 **Method :** Dynamic Probe	**Cone Dimensions**	**Ground Level (mOD)**	**Client** Hayes Higgins	**Job Number** 12960-06-23
	Location	**Dates** 02/08/2023	**Engineer**	**Sheet** 1/1

Site
Tinahask

Probe Number
DPH07

Depth (m)	Blows for Depth Increment	Field Records	Level (mOD)
0.00-0.10	0		
0.10-0.20	0		
0.20-0.30	0		
0.30-0.40	0		
0.40-0.50	0		
0.50-0.60	3		
0.60-0.70	2		
0.70-0.80	4		
0.80-0.90	3		
0.90-1.00	3		
1.00-1.10	2		
1.10-1.20	3		
1.20-1.30	3		
1.30-1.40	4		
1.40-1.50	4		
1.50-1.60	5		
1.60-1.70	6		
1.70-1.80	5		
1.80-1.90	7		
1.90-2.00	7		
2.00-2.10	6		
2.10-2.20	7		
2.20-2.30	7		
2.30-2.40	6		
2.40-2.50	7		
2.50-2.60	7		
2.60-2.70	9		
2.70-2.80	10		
2.80-2.90	14		
2.90-3.00	13		
3.00-3.10	15		
3.10-3.20	17		
3.20-3.30	20		
3.30-3.40	21		
3.40-3.50	24		



Remarks

Scale (approx)	Logged By
1:25	JC

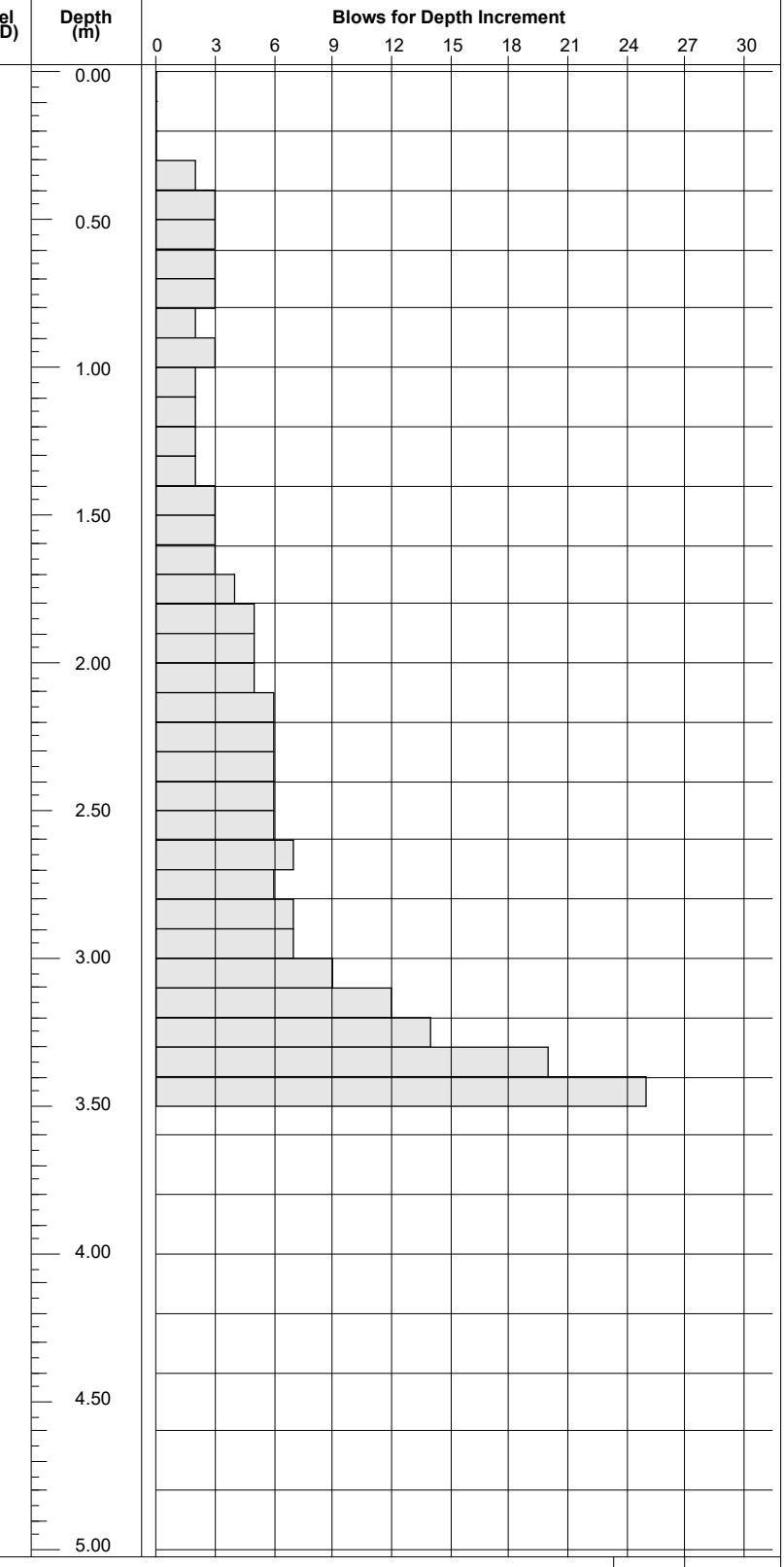
Figure No.
12960-06-23.DPH07

Ground Investigations Ireland Ltd
www.gii.ie

Site	Probe Number
Tinahask	DPH08

Method	Cone Dimensions	Ground Level (mOD)	Client	Job Number
Dynamic Probe DPH, Fall Height 500mm Hammer Weight 50Kg			Hayes Higgins	12960-06-23
	Location	**Dates**	**Engineer**	**Sheet**
		02/08/2023		1/1

Depth (m)	Blows for Depth Increment	Field Records	Level (mOD)
0.00-0.10	0		
0.10-0.20	0		
0.20-0.30	0		
0.30-0.40	2		
0.40-0.50	3		
0.50-0.60	3		
0.60-0.70	3		
0.70-0.80	3		
0.80-0.90	2		
0.90-1.00	3		
1.00-1.10	2		
1.10-1.20	2		
1.20-1.30	2		
1.30-1.40	2		
1.40-1.50	3		
1.50-1.60	3		
1.60-1.70	3		
1.70-1.80	4		
1.80-1.90	5		
1.90-2.00	5		
2.00-2.10	5		
2.10-2.20	6		
2.20-2.30	6		
2.30-2.40	6		
2.40-2.50	6		
2.50-2.60	6		
2.60-2.70	7		
2.70-2.80	6		
2.80-2.90	7		
2.90-3.00	7		
3.00-3.10	9		
3.10-3.20	12		
3.20-3.30	14		
3.30-3.40	20		
3.40-3.50	25		



Remarks

Scale (approx)	Logged By
1:25	JC

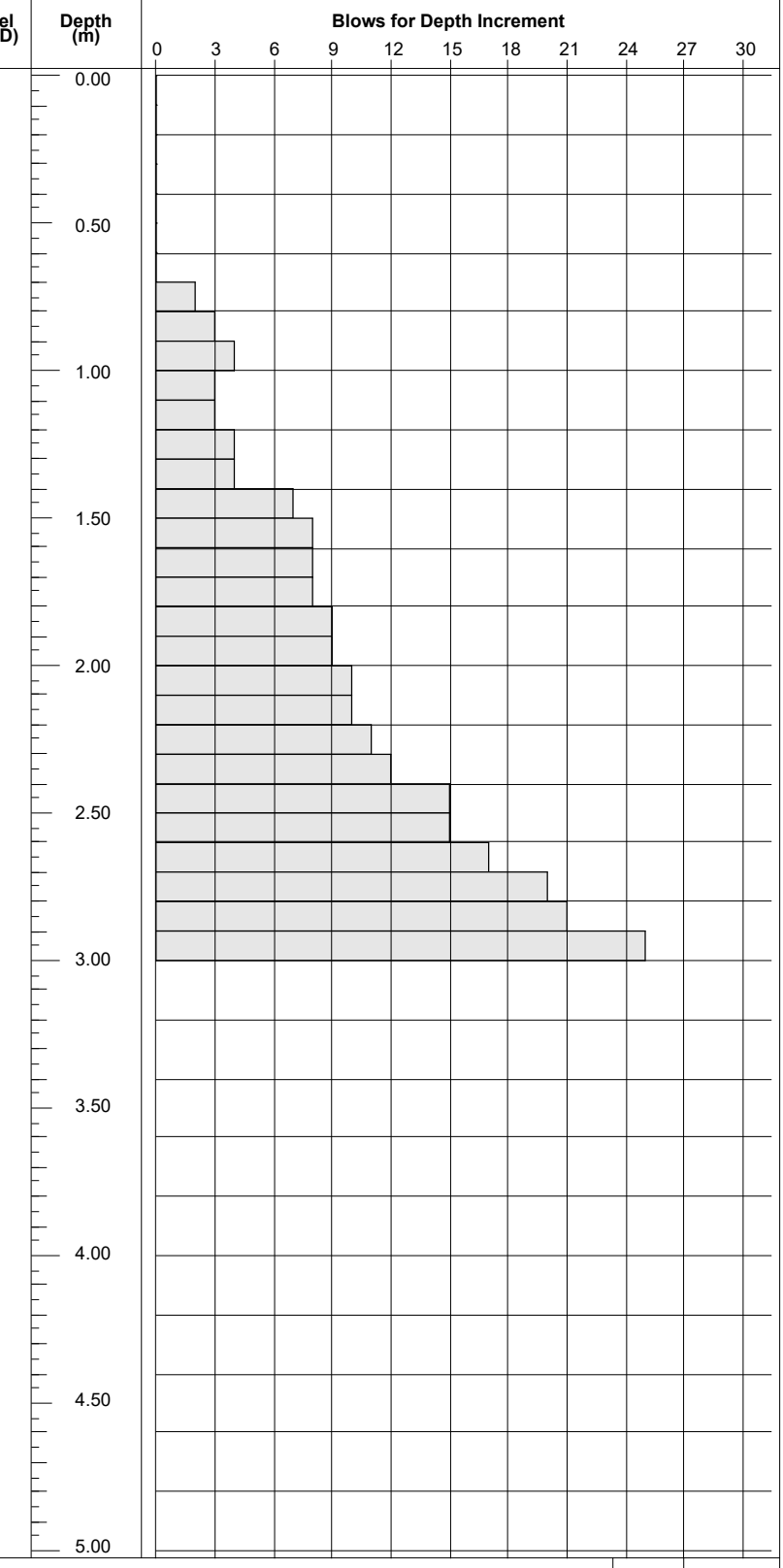
Figure No.
12960-06-23.DPH08

Ground Investigations Ireland Ltd
www.gii.ie

Site	Probe Number
Tinahask	DPH09

Method	Cone Dimensions	Ground Level (mOD)	Client	Job Number
Dynamic Probe DPH, Fall Height 500mm Hammer Weight 50Kg			Hayes Higgins	12960-06-23
	Location	**Dates**	**Engineer**	**Sheet**
		02/08/2023		1/1

Depth (m)	Blows for Depth Increment	Field Records	Level (mOD)
0.00-0.10	0		
0.10-0.20	0		
0.20-0.30	0		
0.30-0.40	0		
0.40-0.50	0		
0.50-0.60	0		
0.60-0.70	0		
0.70-0.80	2		
0.80-0.90	3		
0.90-1.00	4		
1.00-1.10	3		
1.10-1.20	3		
1.20-1.30	4		
1.30-1.40	4		
1.40-1.50	7		
1.50-1.60	8		
1.60-1.70	8		
1.70-1.80	8		
1.80-1.90	9		
1.90-2.00	9		
2.00-2.10	10		
2.10-2.20	10		
2.20-2.30	11		
2.30-2.40	12		
2.40-2.50	15		
2.50-2.60	15		
2.60-2.70	17		
2.70-2.80	20		
2.80-2.90	21		
2.90-3.00	25		



Remarks

Scale (approx)	Logged By
1:25	JC

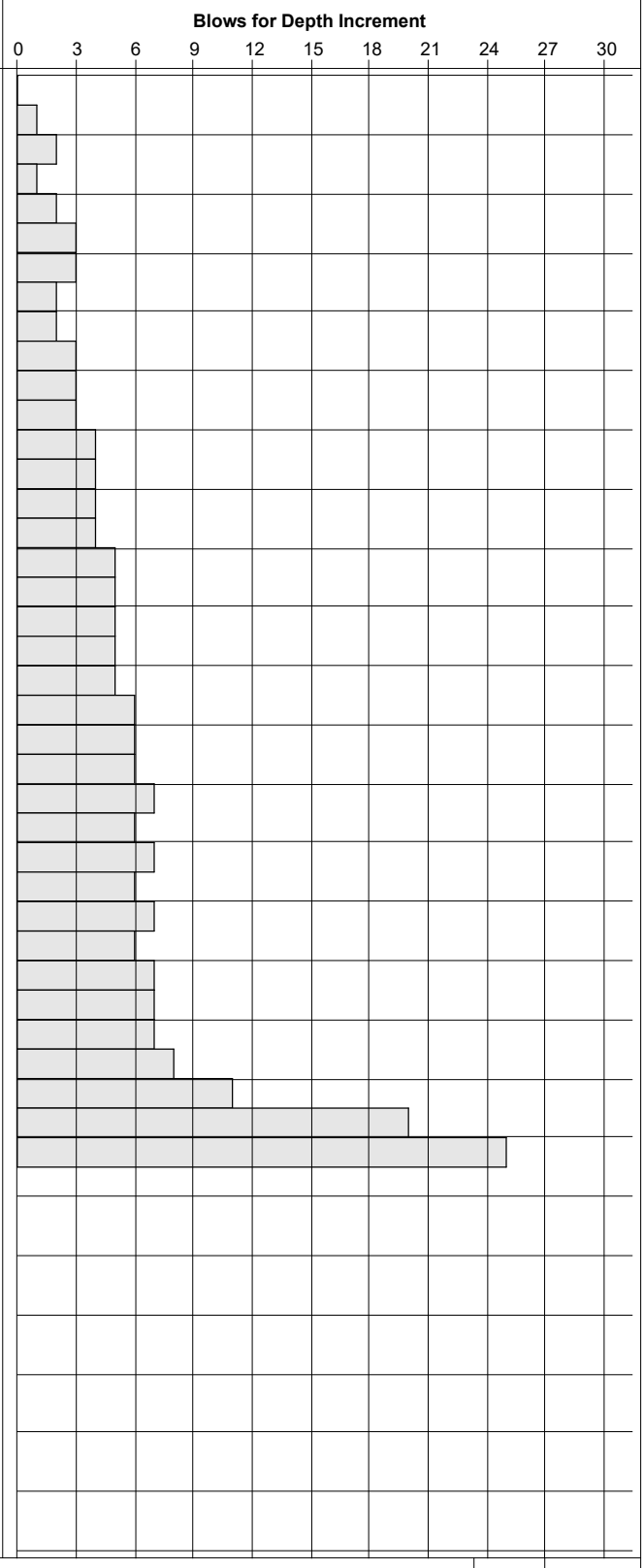
Figure No.
12960-06-23.DPH09

Ground Investigations Ireland Ltd
www.gii.ie

Site	Probe Number
Tinahask	DPH10

Method	Cone Dimensions	Ground Level (mOD)	Client	Job Number
Dynamic Probe DPH, Fall Height 500mm Hammer Weight 50Kg			Hayes Higgins	12960-06-23
	Location	**Dates**	**Engineer**	**Sheet**
		02/08/2023		1/1

Depth (m)	Blows for Depth Increment	Field Records	Level (mOD)
0.00-0.10	0		
0.10-0.20	1		
0.20-0.30	2		
0.30-0.40	1		
0.40-0.50	2		
0.50-0.60	3		
0.60-0.70	3		
0.70-0.80	2		
0.80-0.90	2		
0.90-1.00	3		
1.00-1.10	3		
1.10-1.20	3		
1.20-1.30	4		
1.30-1.40	4		
1.40-1.50	4		
1.50-1.60	4		
1.60-1.70	5		
1.70-1.80	5		
1.80-1.90	5		
1.90-2.00	5		
2.00-2.10	5		
2.10-2.20	6		
2.20-2.30	6		
2.30-2.40	6		
2.40-2.50	7		
2.50-2.60	6		
2.60-2.70	7		
2.70-2.80	6		
2.80-2.90	7		
2.90-3.00	6		
3.00-3.10	7		
3.10-3.20	7		
3.20-3.30	7		
3.30-3.40	8		
3.40-3.50	11		
3.50-3.60	20		
3.60-3.70	25		



Remarks

Scale (approx)	Logged By
1:25	JC

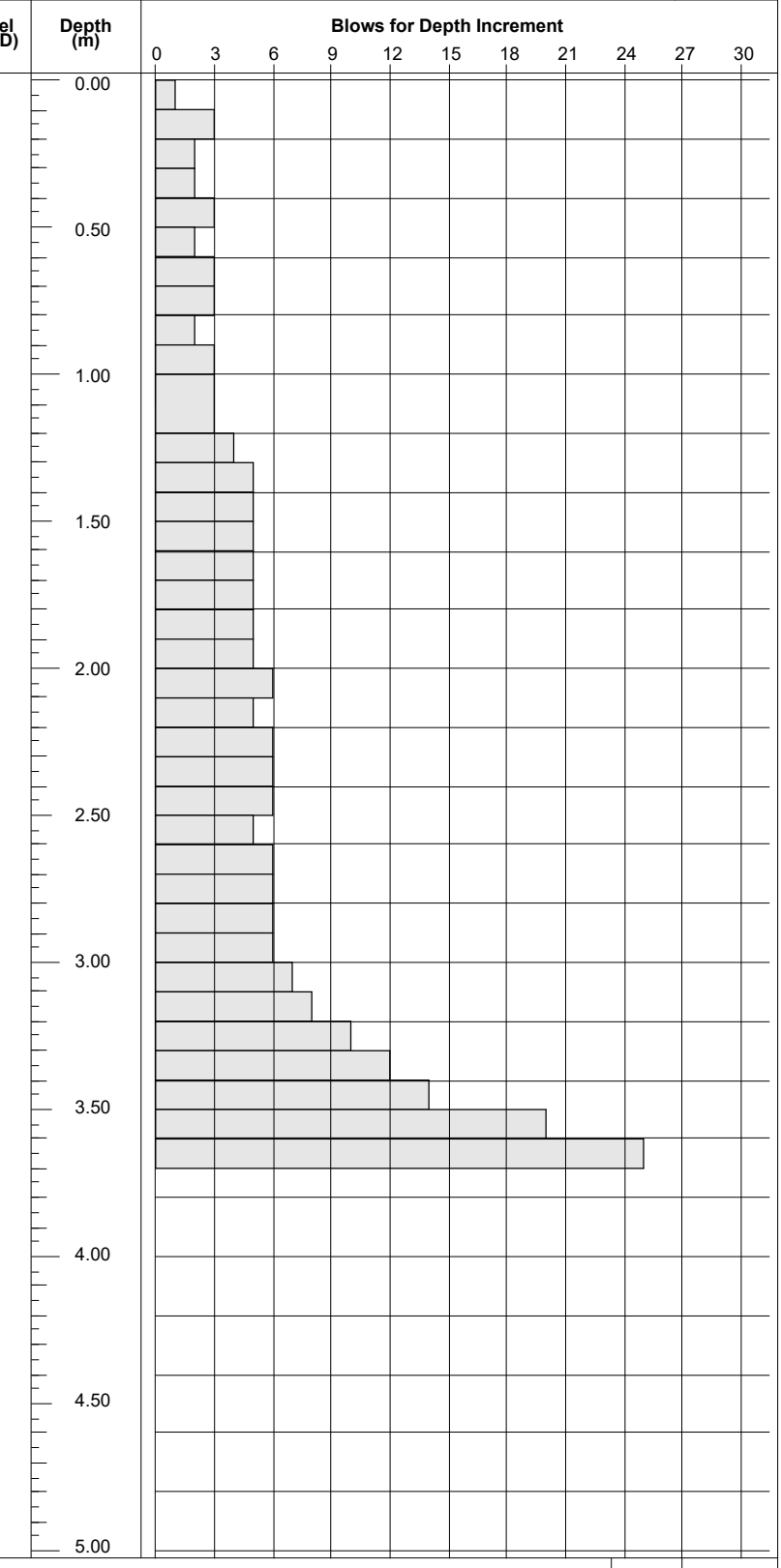
Figure No.
12960-06-23.DPH10

Ground Investigations Ireland Ltd
www.gii.ie

Site	Probe Number
Tinahask	DPH11

Method	Cone Dimensions	Ground Level (mOD)	Client	Job Number
Dynamic Probe DPH, Fall Height 500mm Hammer Weight 50Kg			Hayes Higgins	12960-06-23
	Location	**Dates**	**Engineer**	**Sheet**
		03/08/2023		1/1

Depth (m)	Blows for Depth Increment	Field Records	Level (mOD)
0.00-0.10	1		
0.10-0.20	3		
0.20-0.30	2		
0.30-0.40	2		
0.40-0.50	3		
0.50-0.60	2		
0.60-0.70	3		
0.70-0.80	3		
0.80-0.90	2		
0.90-1.00	3		
1.00-1.10	3		
1.00-1.20	3		
1.20-1.30	4		
1.30-1.40	5		
1.40-1.50	5		
1.50-1.60	5		
1.60-1.70	5		
1.70-1.80	5		
1.80-1.90	5		
1.90-2.00	5		
2.00-2.10	6		
2.10-2.20	5		
2.20-2.30	6		
2.30-2.40	6		
2.40-2.50	6		
2.50-2.60	5		
2.60-2.70	6		
2.70-2.80	6		
2.80-2.90	6		
2.90-3.00	6		
3.00-3.10	7		
3.10-3.20	8		
3.20-3.30	10		
3.30-3.40	12		
3.40-3.50	14		
3.50-3.60	20		
3.60-3.70	25		



Remarks

Scale (approx)	Logged By
1:25	JC

Figure No.

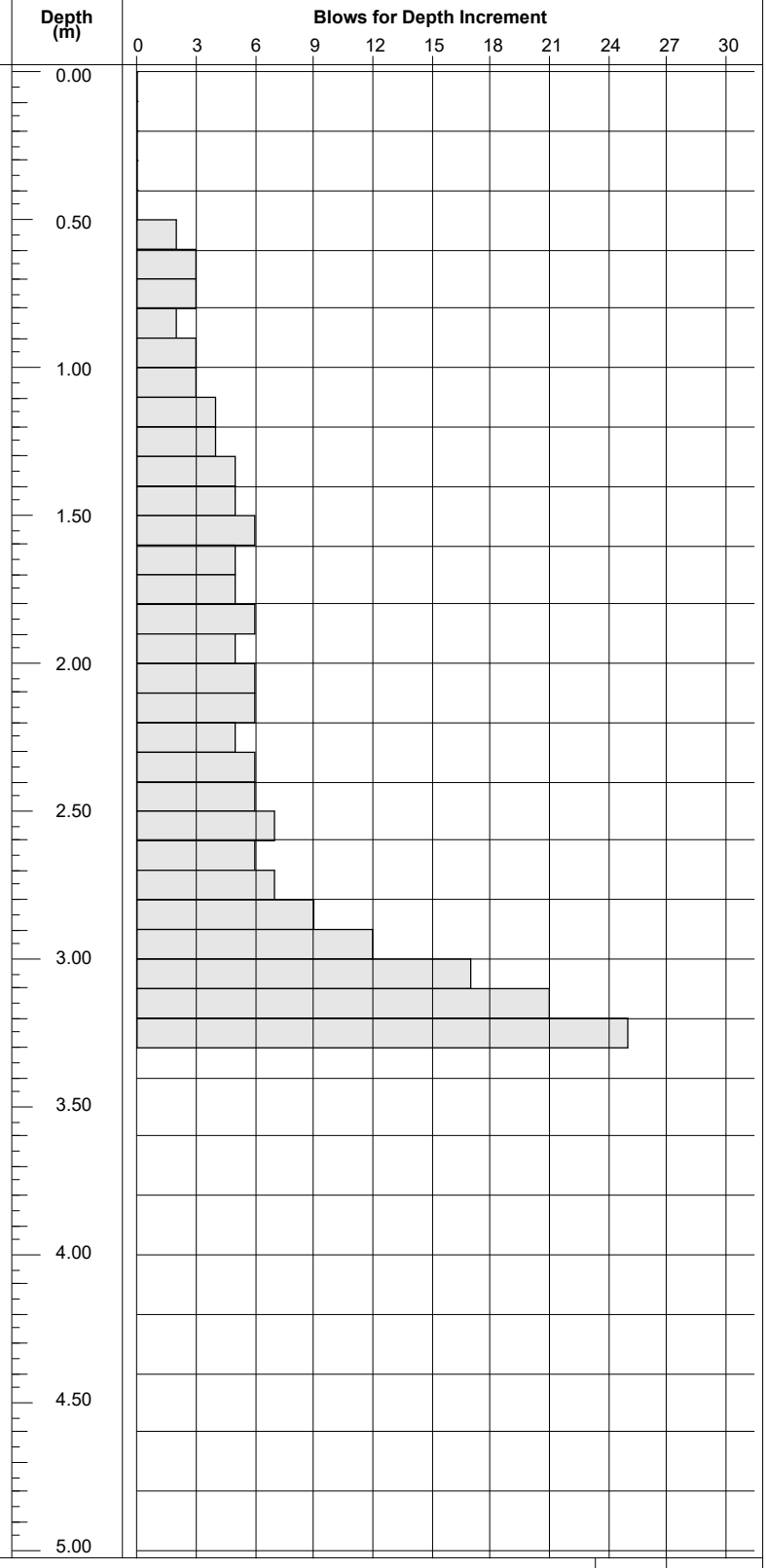
12960-06-23.DPH-TP06

Ground Investigations Ireland Ltd
www.gii.ie

Site	Probe Number
Tinahask	DPH12

Method	Cone Dimensions	Ground Level (mOD)	Client	Job Number
Dynamic Probe DPH, Fall Height 500mm Hammer Weight 50Kg			Hayes Higgins	12960-06-23
	Location	**Dates**	**Engineer**	**Sheet**
		02/08/2023		1/1

Depth (m)	Blows for Depth Increment	Field Records	Level (mOD)
0.00-0.10	0		
0.10-0.20	0		
0.20-0.30	0		
0.30-0.40	0		
0.40-0.50	0		
0.50-0.60	2		
0.60-0.70	3		
0.70-0.80	3		
0.80-0.90	2		
0.90-1.00	3		
1.00-1.10	3		
1.10-1.20	4		
1.20-1.30	4		
1.30-1.40	5		
1.40-1.50	5		
1.50-1.60	6		
1.60-1.70	5		
1.70-1.80	5		
1.80-1.90	6		
1.90-2.00	5		
2.00-2.10	6		
2.10-2.20	6		
2.20-2.30	5		
2.30-2.40	6		
2.40-2.50	6		
2.50-2.60	7		
2.60-2.70	6		
2.70-2.80	7		
2.80-2.90	9		
2.90-3.00	12		
3.00-3.10	17		
3.10-3.20	21		
3.20-3.30	25		



Remarks

Scale (approx)	Logged By
1:25	JC

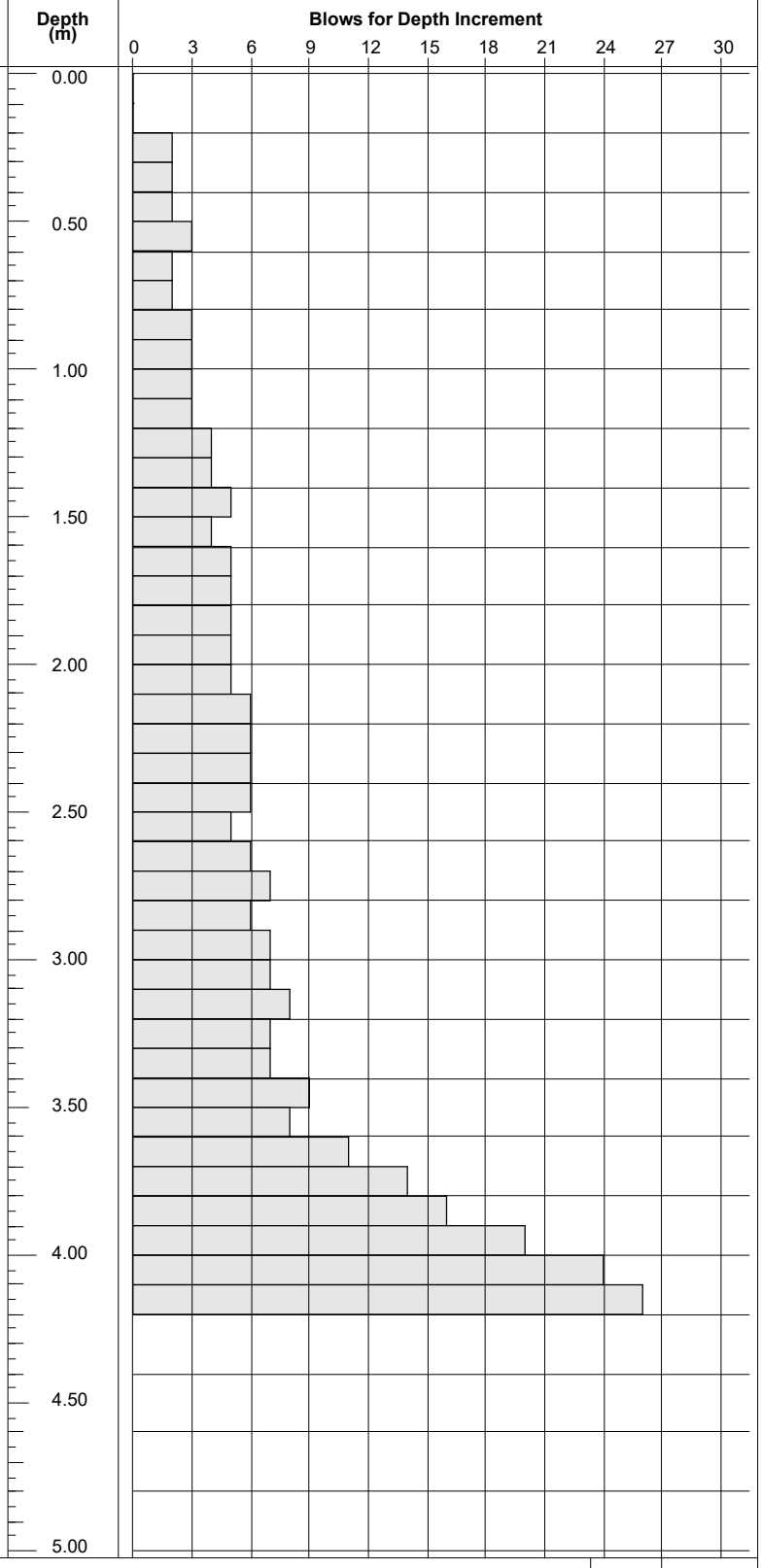
Figure No.
12960-06-23.DPH12

Ground Investigations Ireland Ltd
www.gii.ie

Site	Probe Number
Tinahask	DPH13

Method	Cone Dimensions	Ground Level (mOD)	Client	Job Number
Dynamic Probe DPH, Fall Height 500mm Hammer Weight 50Kg			Hayes Higgins	12960-06-23
	Location	**Dates**	**Engineer**	**Sheet**
		03/08/2023		1/1

Depth (m)	Blows for Depth Increment	Field Records	Level (mOD)
0.00-0.10	0		
0.10-0.20	0		
0.20-0.30	2		
0.30-0.40	2		
0.40-0.50	2		
0.50-0.60	3		
0.60-0.70	2		
0.70-0.80	2		
0.80-0.90	3		
0.90-1.00	3		
1.00-1.10	3		
1.10-1.20	3		
1.20-1.30	4		
1.30-1.40	4		
1.40-1.50	5		
1.50-1.60	4		
1.60-1.70	5		
1.70-1.80	5		
1.80-1.90	5		
1.90-2.00	5		
2.00-2.10	5		
2.10-2.20	6		
2.20-2.30	6		
2.30-2.40	6		
2.40-2.50	6		
2.50-2.60	5		
2.60-2.70	6		
2.70-2.80	7		
2.80-2.90	6		
2.90-3.00	7		
3.00-3.10	7		
3.10-3.20	8		
3.20-3.30	7		
3.30-3.40	7		
3.40-3.50	9		
3.50-3.60	8		
3.60-3.70	11		
3.70-3.80	14		
3.80-3.90	16		
3.90-4.00	20		
4.00-4.10	24		
4.10-4.20	26		



Remarks

Scale (approx)	Logged By
1:25	JC

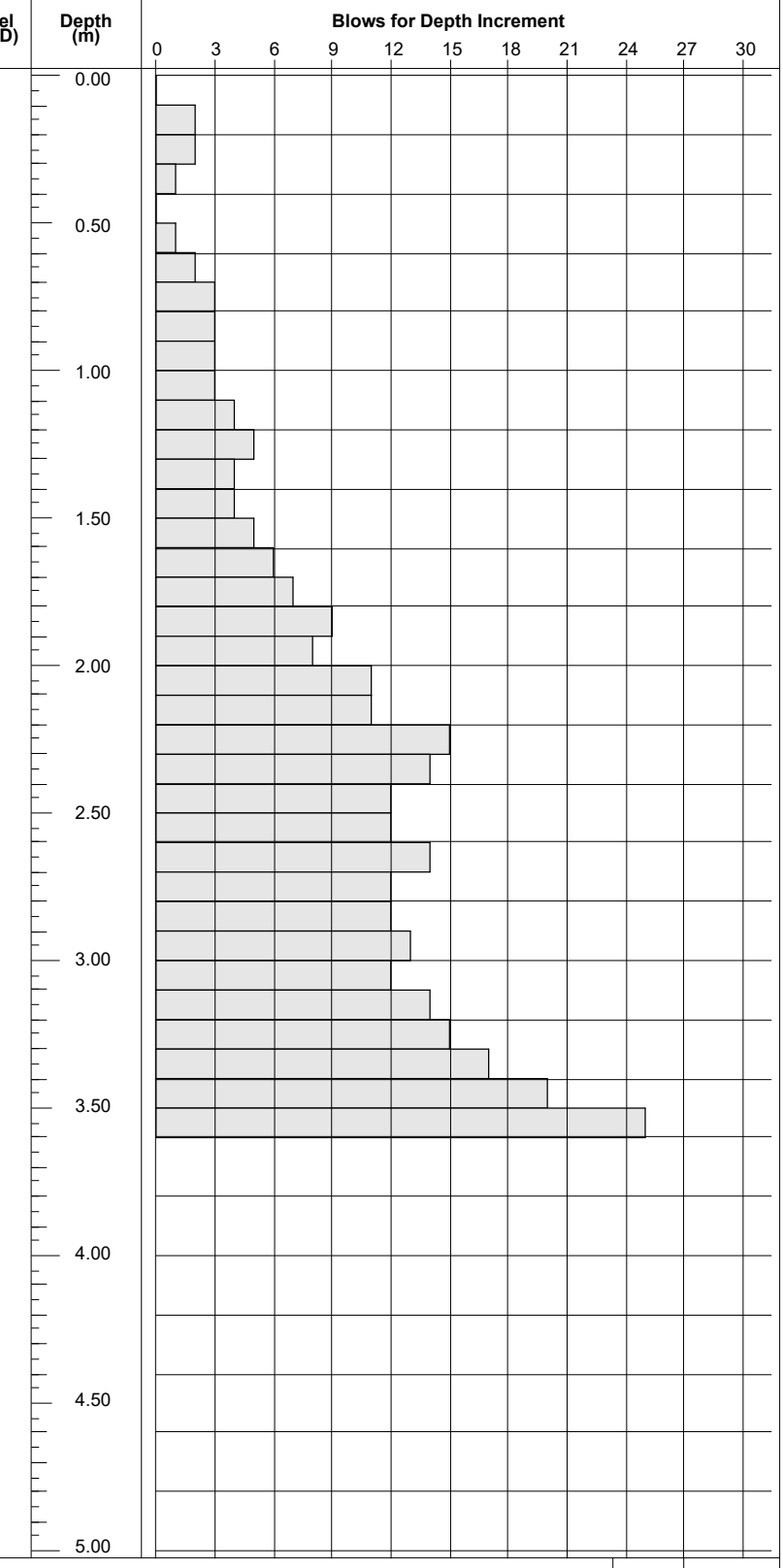
Figure No.
12960-06-23.DPH13

Ground Investigations Ireland Ltd
www.gii.ie

Site	Probe Number
Tinahask	DPH14

Method	Cone Dimensions	Ground Level (mOD)	Client	Job Number
Dynamic Probe DPH, Fall Height 500mm Hammer Weight 50Kg			Hayes Higgins	12960-06-23
	Location	**Dates**	**Engineer**	**Sheet**
		02/08/2023		1/1

Depth (m)	Blows for Depth Increment	Field Records	Level (mOD)
0.00-0.10	0		
0.10-0.20	2		
0.20-0.30	2		
0.30-0.40	1		
0.40-0.50	0		
0.50-0.60	1		
0.60-0.70	2		
0.70-0.80	3		
0.80-0.90	3		
0.90-1.00	3		
1.00-1.10	3		
1.10-1.20	4		
1.20-1.30	5		
1.30-1.40	4		
1.40-1.50	4		
1.50-1.60	5		
1.60-1.70	6		
1.70-1.80	7		
1.80-1.90	9		
1.90-2.00	8		
2.00-2.10	11		
2.10-2.20	11		
2.20-2.30	15		
2.30-2.40	14		
2.40-2.50	12		
2.50-2.60	12		
2.60-2.70	14		
2.70-2.80	12		
2.80-2.90	12		
2.90-3.00	13		
3.00-3.10	12		
3.10-3.20	14		
3.20-3.30	15		
3.30-3.40	17		
3.40-3.50	20		
3.50-3.60	25		



Remarks

Scale (approx)	Logged By
1:25	JC

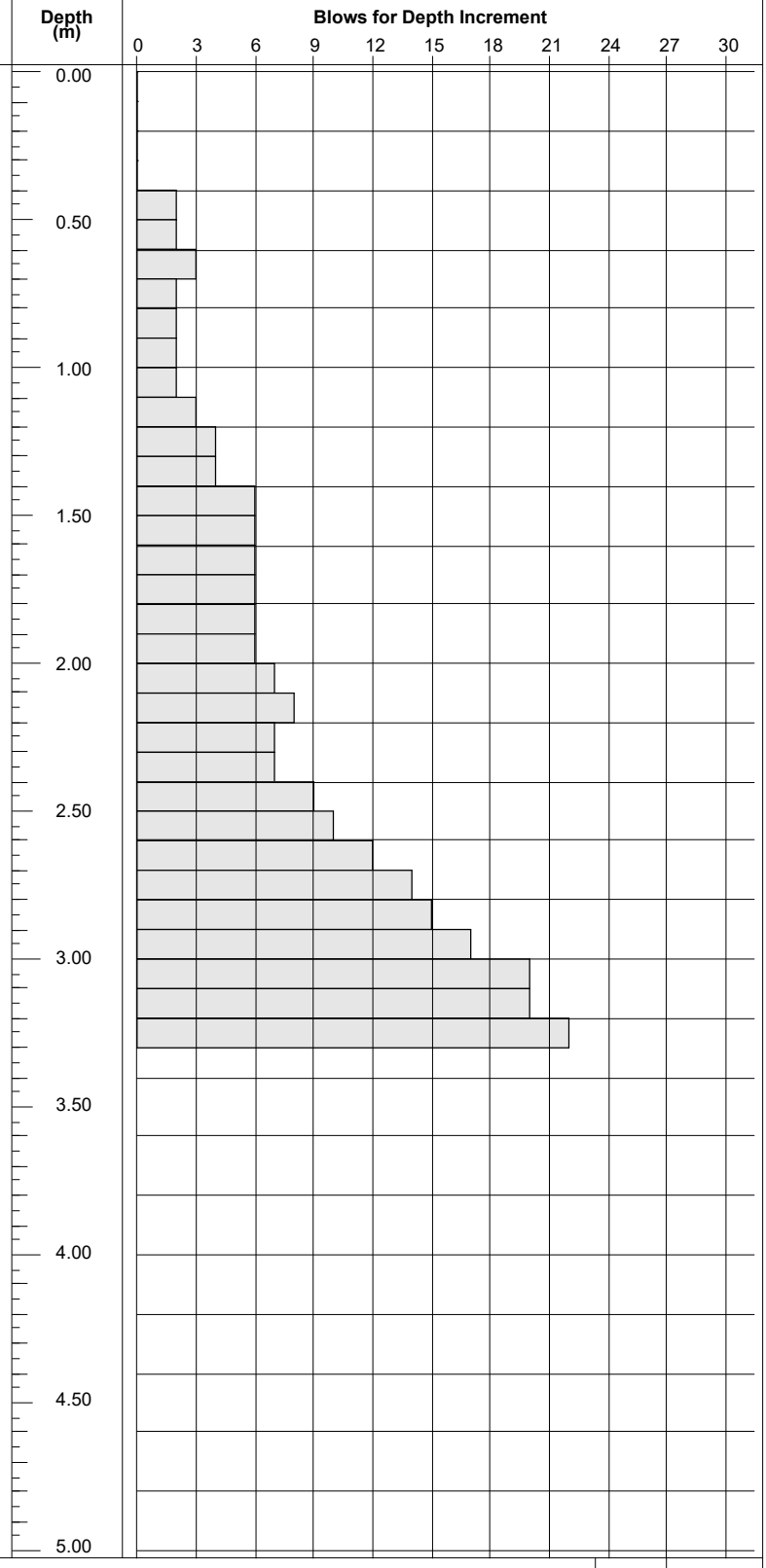
Figure No.
12960-06-23.DPH14

Ground Investigations Ireland Ltd
www.gii.ie

Site	Probe Number
Tinahask	DPH15

Method	Cone Dimensions	Ground Level (mOD)	Client	Job Number
Dynamic Probe DPH, Fall Height 500mm Hammer Weight 50Kg			Hayes Higgins	12960-06-23
	Location	**Dates**	**Engineer**	**Sheet**
		03/08/2023		1/1

Depth (m)	Blows for Depth Increment	Field Records	Level (mOD)
0.00-0.10	0		
0.10-0.20	0		
0.20-0.30	0		
0.30-0.40	0		
0.40-0.50	2		
0.50-0.60	2		
0.60-0.70	3		
0.70-0.80	2		
0.80-0.90	2		
0.90-1.00	2		
1.00-1.10	2		
1.10-1.20	3		
1.20-1.30	4		
1.30-1.40	4		
1.40-1.50	6		
1.50-1.60	6		
1.60-1.70	6		
1.70-1.80	6		
1.80-1.90	6		
1.90-2.00	6		
2.00-2.10	7		
2.10-2.20	8		
2.20-2.30	7		
2.30-2.40	7		
2.40-2.50	9		
2.50-2.60	10		
2.60-2.70	12		
2.70-2.80	14		
2.80-2.90	15		
2.90-3.00	17		
3.00-3.10	20		
3.10-3.20	20		
3.20-3.30	22		



Remarks

Scale (approx)	Logged By
1:25	JC

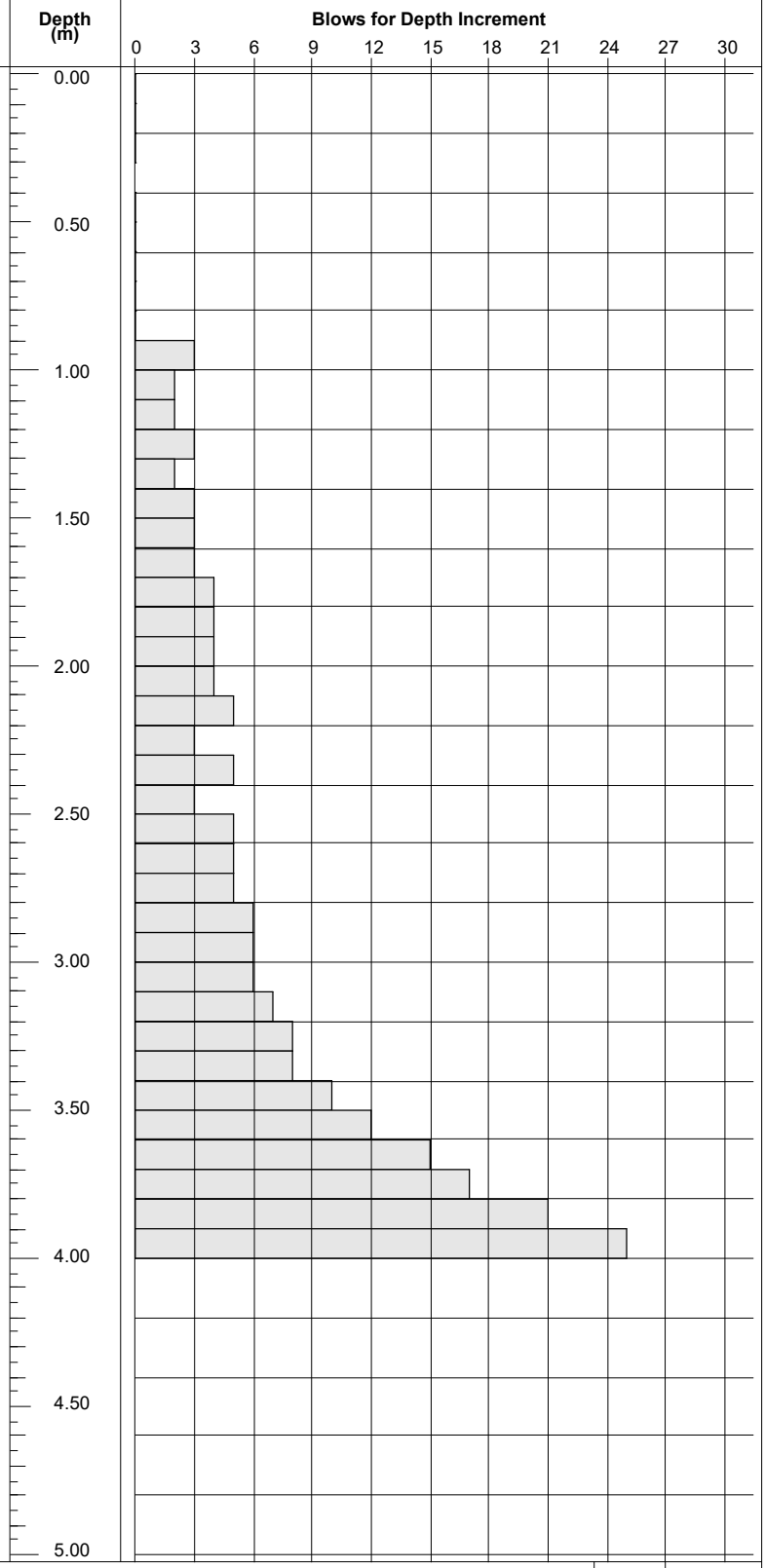
Figure No.
12960-06-23.DPH15

Ground Investigations Ireland Ltd
www.gii.ie

Site	Probe Number
Tinahask	DPH16

Method	Cone Dimensions	Ground Level (mOD)	Client	Job Number
Dynamic Probe DPH, Fall Height 500mm Hammer Weight 50Kg			Hayes Higgins	12960-06-23
	Location	**Dates**	**Engineer**	**Sheet**
		03/08/2023		1/1

Depth (m)	Blows for Depth Increment	Field Records	Level (mOD)
0.00-0.10	0		
0.10-0.20	0		
0.20-0.30	0		
0.40-0.50	0		
0.50-0.60	0		
0.60-0.70	0		
0.70-0.80	0		
0.80-0.90	0		
0.90-1.00	3		
1.00-1.10	2		
1.10-1.20	2		
1.20-1.30	3		
1.30-1.40	2		
1.40-1.50	3		
1.50-1.60	3		
1.60-1.70	3		
1.70-1.80	4		
1.80-1.90	4		
1.90-2.00	4		
2.00-2.10	4		
2.10-2.20	5		
2.20-2.30	3		
2.30-2.40	5		
2.40-2.50	3		
2.50-2.60	5		
2.60-2.70	5		
2.70-2.80	5		
2.80-2.90	6		
2.90-3.00	6		
3.00-3.10	6		
3.10-3.20	7		
3.20-3.30	8		
3.30-3.40	8		
3.40-3.50	10		
3.50-3.60	12		
3.60-3.70	15		
3.70-3.80	17		
3.80-3.90	21		
3.90-4.00	25		



Remarks

Scale (approx)	Logged By
1:25	JC

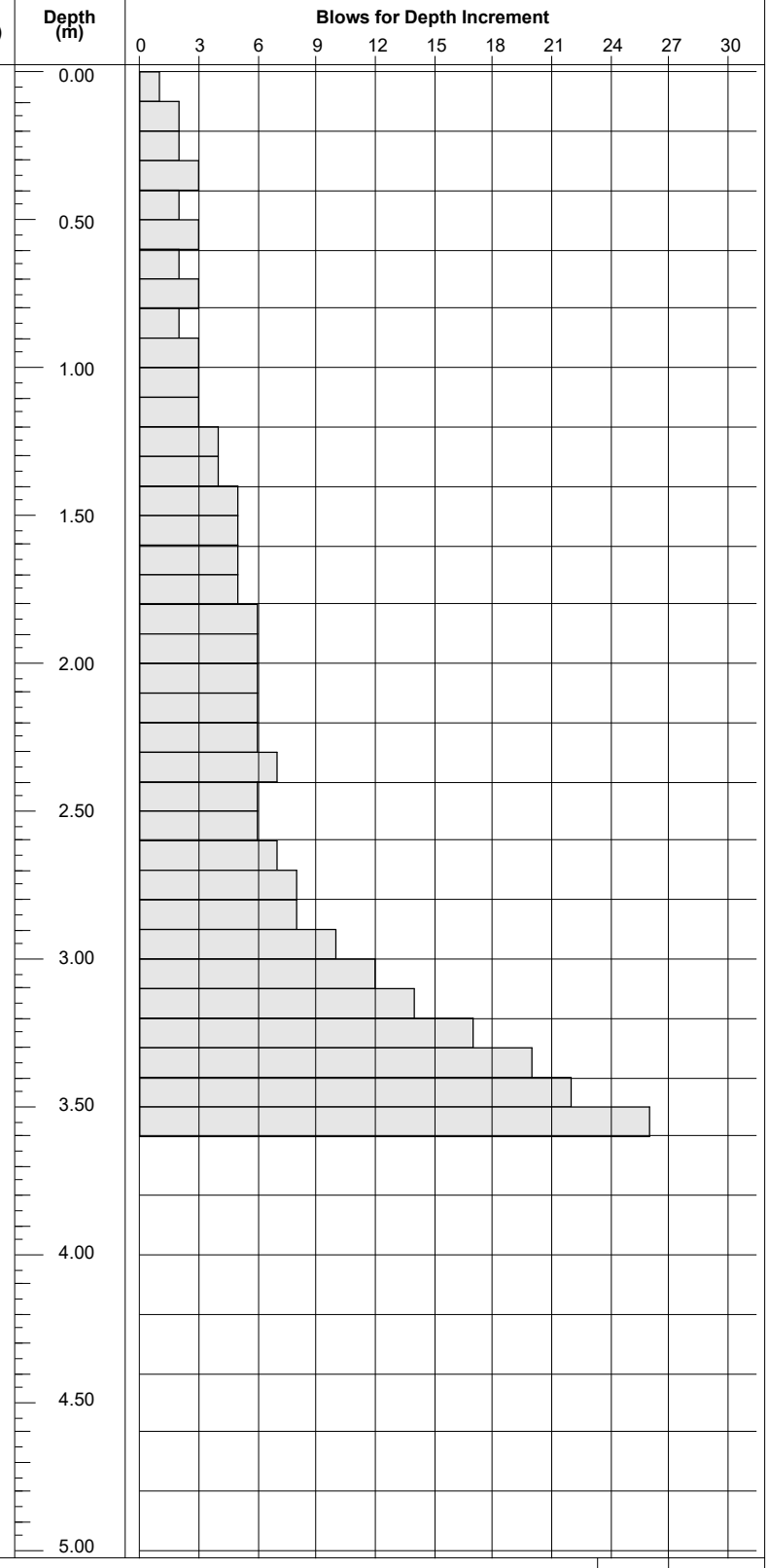
Figure No.
12960-06-23.DPH16

Ground Investigations Ireland Ltd
www.gii.ie

Site	Probe Number
Tinahask	DPH17

Method	Cone Dimensions	Ground Level (mOD)	Client	Job Number
Dynamic Probe DPH, Fall Height 500mm Hammer Weight 50Kg			Hayes Higgins	12960-06-23
	Location	**Dates**	**Engineer**	**Sheet**
		02/08/2023		1/1

Depth (m)	Blows for Depth Increment	Field Records	Level (mOD)
0.00-0.10	1		
0.10-0.20	2		
0.20-0.30	2		
0.30-0.40	3		
0.40-0.50	2		
0.50-0.60	3		
0.60-0.70	2		
0.70-0.80	3		
0.80-0.90	2		
0.90-1.00	3		
1.00-1.10	3		
1.10-1.20	3		
1.20-1.30	4		
1.30-1.40	4		
1.40-1.50	5		
1.50-1.60	5		
1.60-1.70	5		
1.70-1.80	5		
1.80-1.90	6		
1.90-2.00	6		
2.00-2.10	6		
2.10-2.20	6		
2.20-2.30	6		
2.30-2.40	7		
2.40-2.50	6		
2.50-2.60	6		
2.60-2.70	7		
2.70-2.80	8		
2.80-2.90	8		
2.90-3.00	10		
3.00-3.10	12		
3.10-3.20	14		
3.20-3.30	17		
3.30-3.40	20		
3.40-3.50	22		
3.50-3.60	26		



Remarks

Scale (approx)	Logged By
1:25	JC

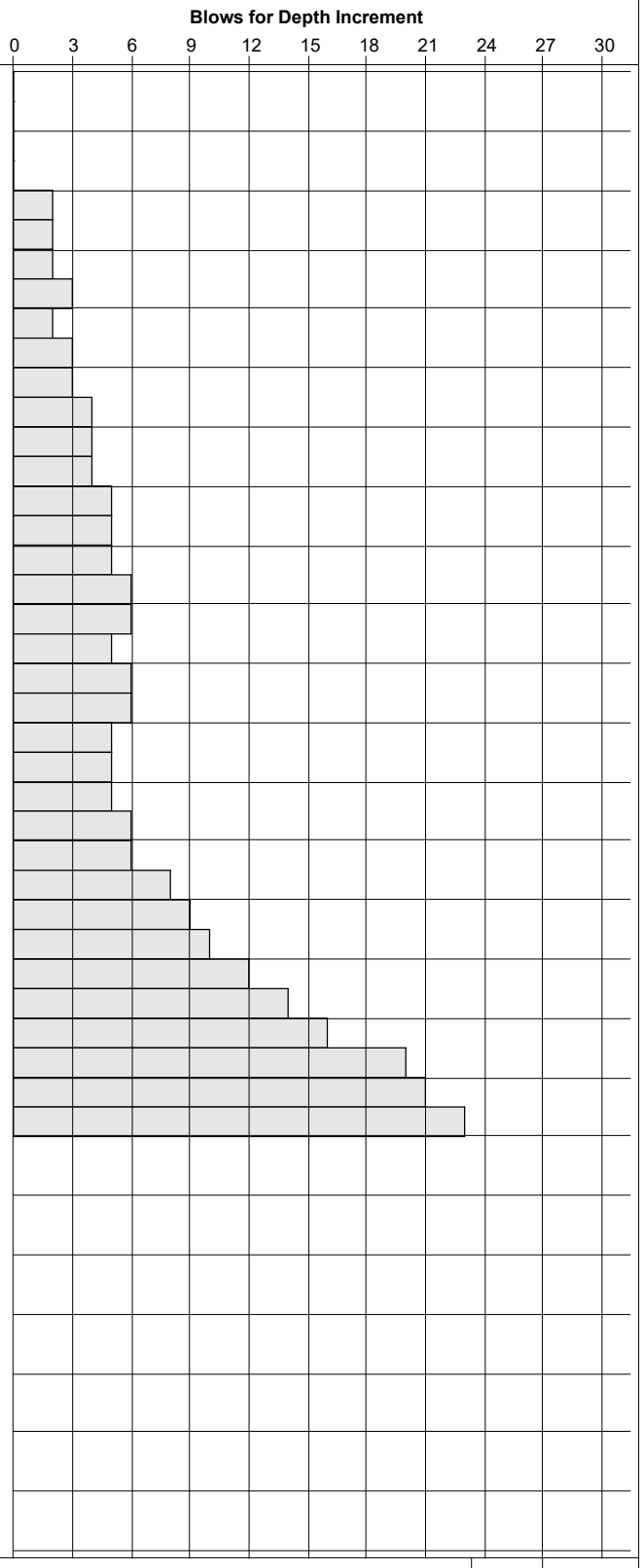
Figure No.
12960-06-23.DPH17

Ground Investigations Ireland Ltd
www.gii.ie

Site	Probe Number
Tinahask	DPH18

Method	Cone Dimensions	Ground Level (mOD)	Client	Job Number
Dynamic Probe DPH, Fall Height 500mm Hammer Weight 50Kg			Hayes Higgins	12960-06-23
	Location	**Dates**	**Engineer**	**Sheet**
		03/08/2023		1/1

Depth (m)	Blows for Depth Increment	Field Records	Level (mOD)	Depth (m)
0.00-0.10	0			0.00
0.10-0.20	0			
0.20-0.30	0			
0.30-0.40	0			
0.40-0.50	2			
0.50-0.60	2			0.50
0.60-0.70	2			
0.70-0.80	3			
0.80-0.90	2			
0.90-1.00	3			
1.00-1.10	3			1.00
1.10-1.20	4			
1.20-1.30	4			
1.30-1.40	4			
1.40-1.50	5			
1.50-1.60	5			1.50
1.60-1.70	5			
1.70-1.80	6			
1.80-1.90	6			
1.90-2.00	5			
2.00-2.10	6			2.00
2.10-2.20	6			
2.20-2.30	5			
2.30-2.40	5			
2.40-2.50	5			
2.50-2.60	6			2.50
2.60-2.70	6			
2.70-2.80	8			
2.80-2.90	9			
2.90-3.00	10			
3.00-3.10	12			3.00
3.10-3.20	14			
3.20-3.30	16			
3.30-3.40	20			
3.40-3.50	21			
3.50-3.60	23			3.50
				4.00
				4.50
				5.00



Remarks

Scale (approx)	Logged By
1:25	JC

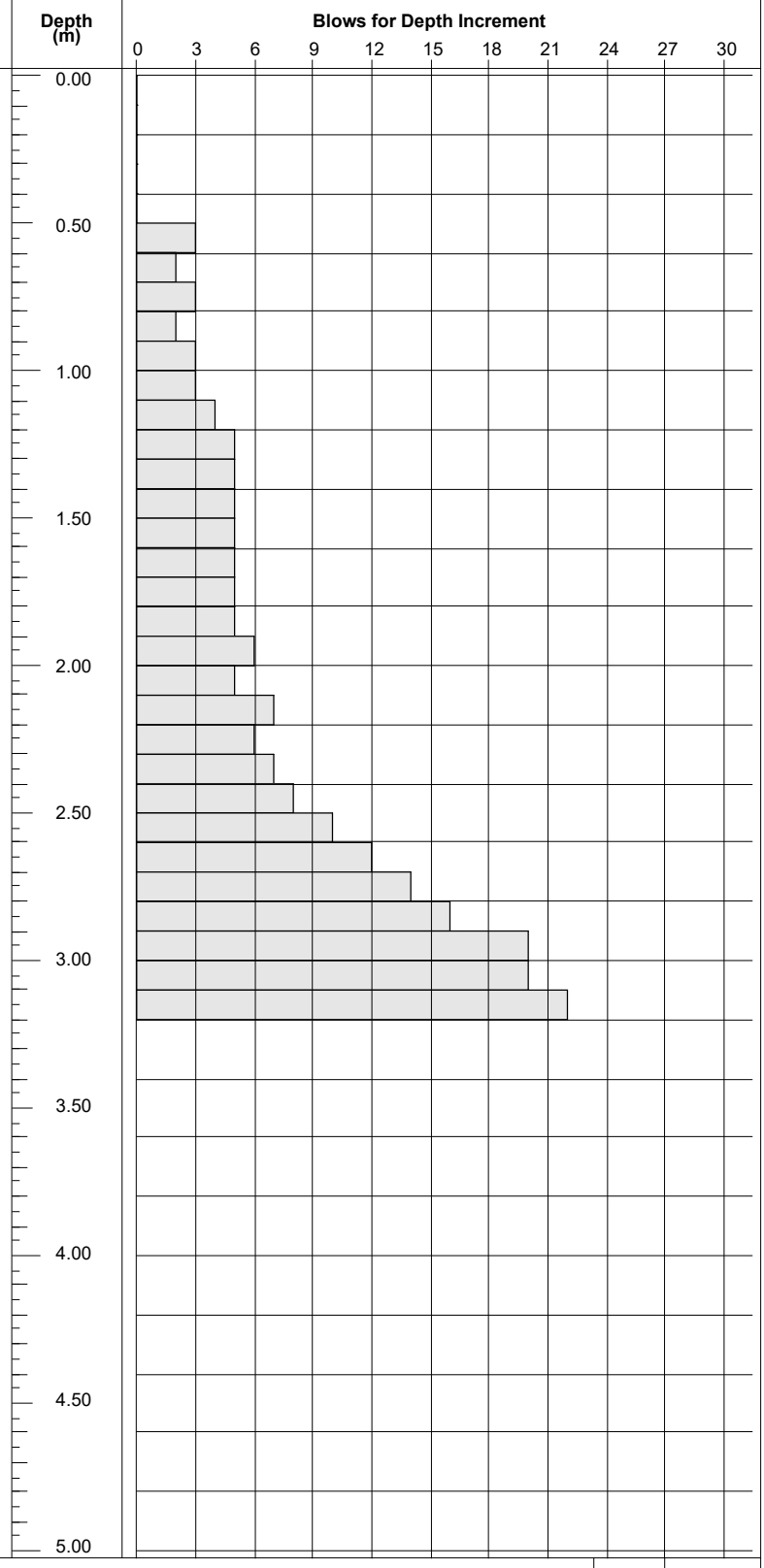
Figure No.
12960-06-23.DPH18

Ground Investigations Ireland Ltd
www.gii.ie

Site	Probe Number
Tinahask	DPH19

Method	Cone Dimensions	Ground Level (mOD)	Client	Job Number
Dynamic Probe DPH, Fall Height 500mm Hammer Weight 50Kg			Hayes Higgins	12960-06-23
	Location	**Dates**	**Engineer**	**Sheet**
		02/08/2023		1/1

Depth (m)	Blows for Depth Increment	Field Records	Level (mOD)
0.00-0.10	0		
0.10-0.20	0		
0.20-0.30	0		
0.30-0.40	0		
0.40-0.50	0		
0.50-0.60	3		
0.60-0.70	2		
0.70-0.80	3		
0.80-0.90	2		
0.90-1.00	3		
1.00-1.10	3		
1.10-1.20	4		
1.20-1.30	5		
1.30-1.40	5		
1.40-1.50	5		
1.50-1.60	5		
1.60-1.70	5		
1.70-1.80	5		
1.80-1.90	5		
1.90-2.00	6		
2.00-2.10	5		
2.10-2.20	7		
2.20-2.30	6		
2.30-2.40	7		
2.40-2.50	8		
2.50-2.60	10		
2.60-2.70	12		
2.70-2.80	14		
2.80-2.90	16		
2.90-3.00	20		
3.00-3.10	20		
3.10-3.20	22		



Remarks

Scale (approx)	Logged By
1:25	JC

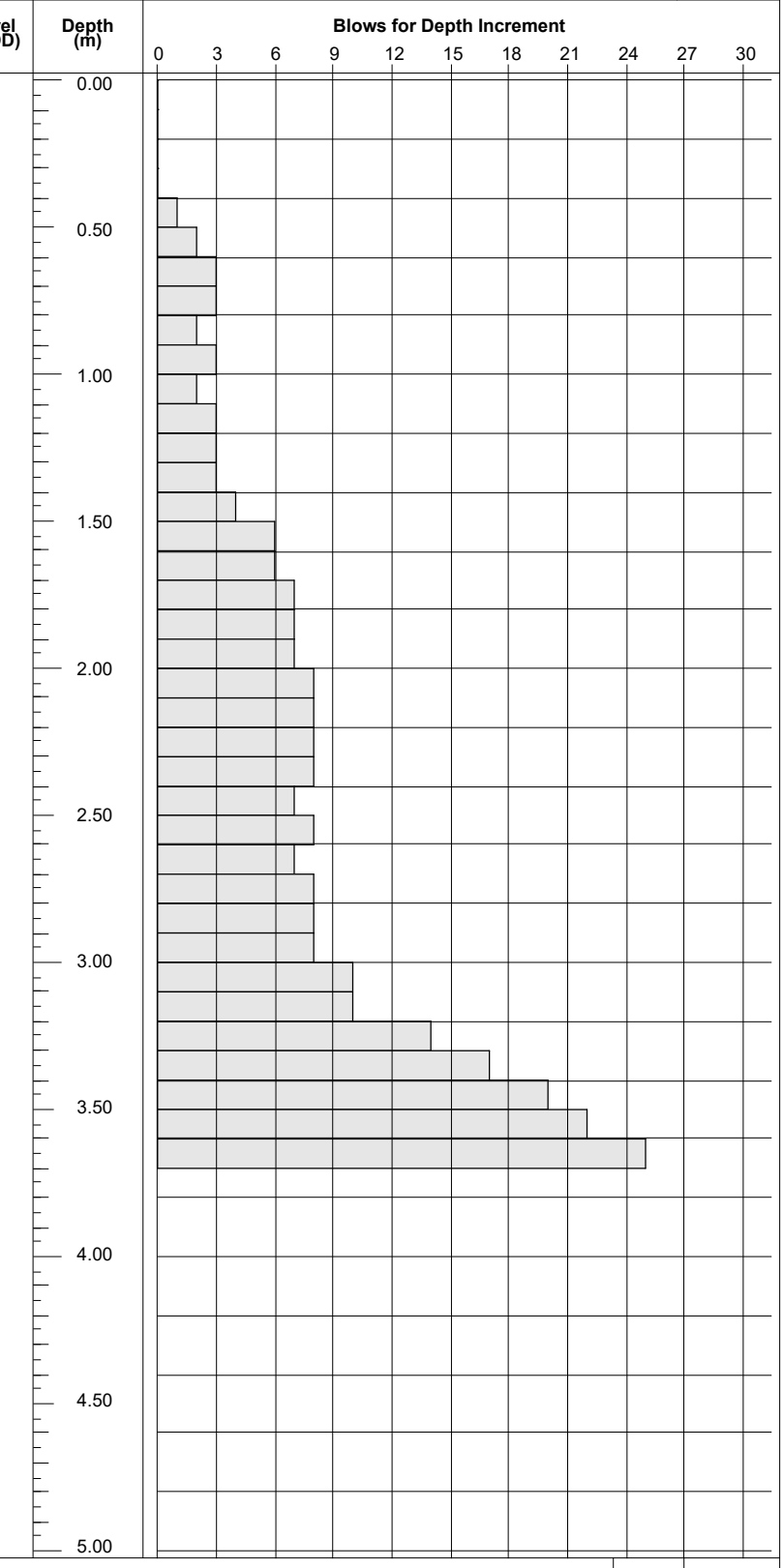
Figure No.
12960-06-23.DPH19

Ground Investigations Ireland Ltd
www.gii.ie

Site	Probe Number
Tinahask	DPH20

Method	Cone Dimensions	Ground Level (mOD)	Client	Job Number
Dynamic Probe DPH, Fall Height 500mm Hammer Weight 50Kg			Hayes Higgins	12960-06-23
	Location	**Dates**	**Engineer**	**Sheet**
		03/08/2023		1/1

Depth (m)	Blows for Depth Increment	Field Records	Level (mOD)
0.00-0.10	0		
0.10-0.20	0		
0.20-0.30	0		
0.30-0.40	0		
0.40-0.50	1		
0.50-0.60	2		
0.60-0.70	3		
0.70-0.80	3		
0.80-0.90	2		
0.90-1.00	3		
1.00-1.10	2		
1.10-1.20	3		
1.20-1.30	3		
1.30-1.40	3		
1.40-1.50	4		
1.50-1.60	6		
1.60-1.70	6		
1.70-1.80	7		
1.80-1.90	7		
1.90-2.00	7		
2.00-2.10	8		
2.10-2.20	8		
2.20-2.30	8		
2.30-2.40	8		
2.40-2.50	7		
2.50-2.60	8		
2.60-2.70	7		
2.70-2.80	8		
2.80-2.90	8		
2.90-3.00	8		
3.00-3.10	10		
3.10-3.20	10		
3.20-3.30	14		
3.30-3.40	17		
3.40-3.50	20		
3.50-3.60	22		
3.60-3.70	25		



Remarks

Scale (approx)	Logged By
1:25	JC

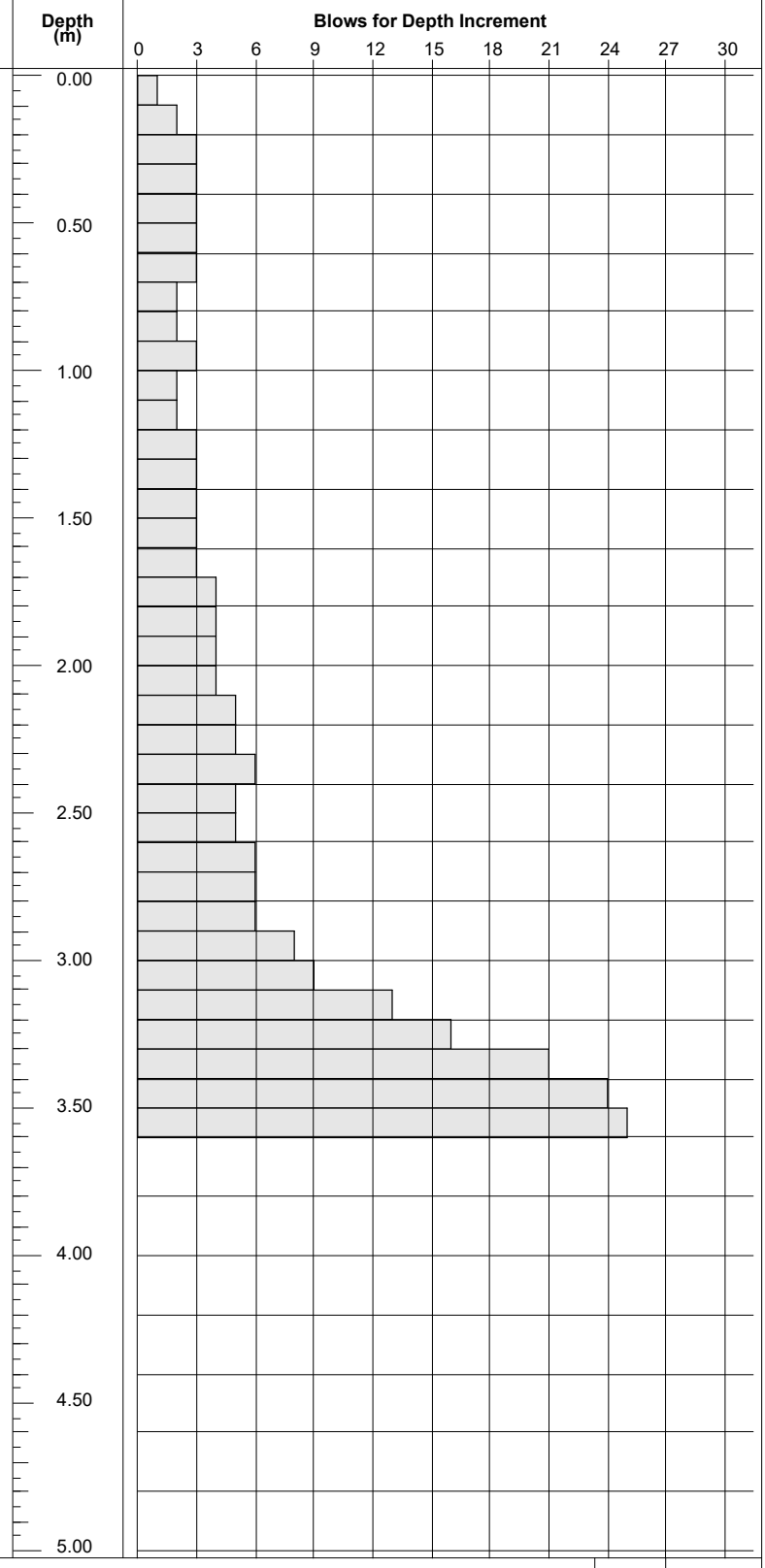
Figure No.
12960-06-23.DPH20

Ground Investigations Ireland Ltd
www.gii.ie

Site	Probe Number
Tinahask	DPH21

Method	Cone Dimensions	Ground Level (mOD)	Client	Job Number
Dynamic Probe DPH, Fall Height 500mm Hammer Weight 50Kg			Hayes Higgins	12960-06-23
	Location	**Dates**	**Engineer**	**Sheet**
		03/08/2023		1/1

Depth (m)	Blows for Depth Increment	Field Records	Level (mOD)
0.00-0.10	1		
0.10-0.20	2		
0.20-0.30	3		
0.30-0.40	3		
0.40-0.50	3		
0.50-0.60	3		
0.60-0.70	3		
0.70-0.80	2		
0.80-0.90	2		
0.90-1.00	3		
1.00-1.10	2		
1.10-1.20	2		
1.20-1.30	3		
1.30-1.40	3		
1.40-1.50	3		
1.50-1.60	3		
1.60-1.70	3		
1.70-1.80	4		
1.80-1.90	4		
1.90-2.00	4		
2.00-2.10	4		
2.10-2.20	5		
2.20-2.30	5		
2.30-2.40	6		
2.40-2.50	5		
2.50-2.60	5		
2.60-2.70	6		
2.70-2.80	6		
2.80-2.90	6		
2.90-3.00	8		
3.00-3.10	9		
3.10-3.20	13		
3.20-3.30	16		
3.30-3.40	21		
3.40-3.50	24		
3.50-3.60	25		



Remarks

Scale (approx)	Logged By
1:25	JC

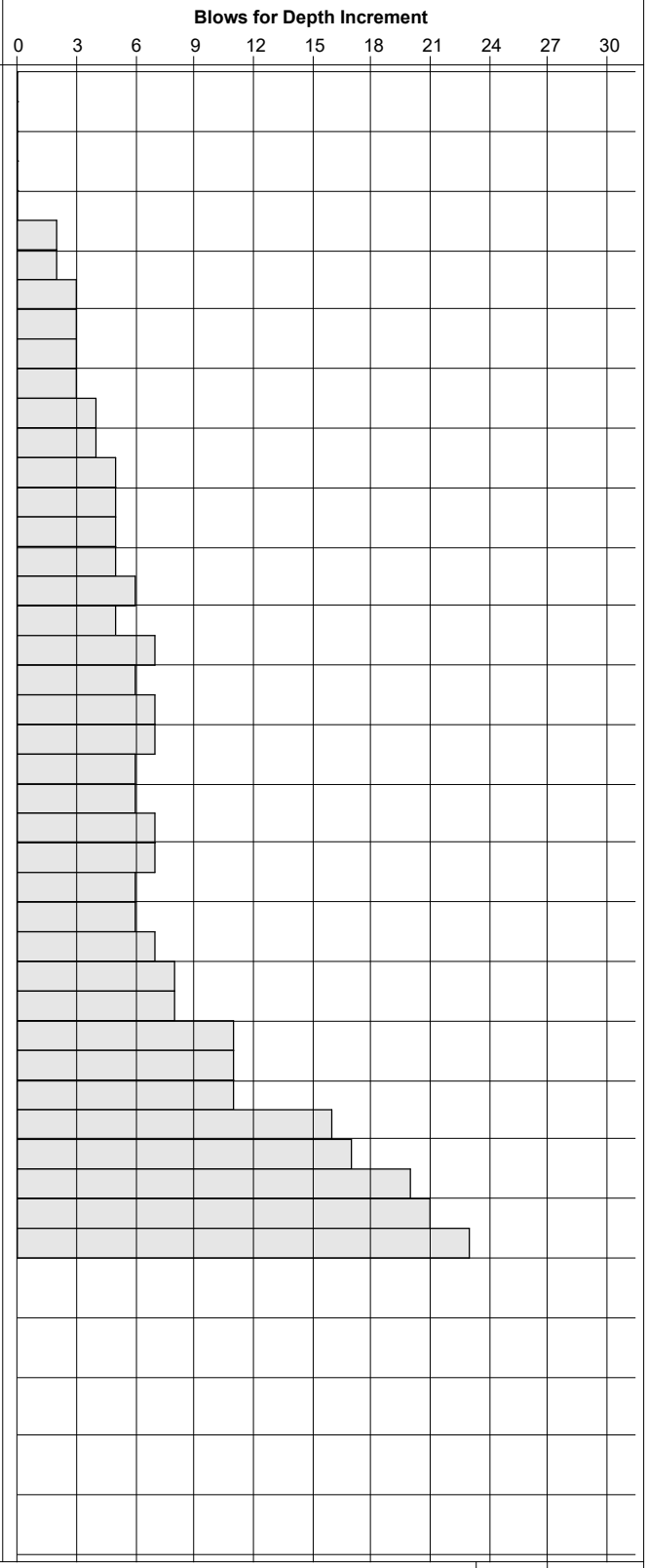
Figure No.
12960-06-23.DPH21

Ground Investigations Ireland Ltd
www.gii.ie

Site	Probe Number
Tinahask	DPH22

Method	Cone Dimensions	Ground Level (mOD)	Client	Job Number
Dynamic Probe DPH, Fall Height 500mm Hammer Weight 50Kg			Hayes Higgins	12960-06-23
	Location	**Dates**	**Engineer**	**Sheet**
		03/08/2023		1/1

Depth (m)	Blows for Depth Increment	Field Records	Level (mOD)
0.00-0.10	0		
0.10-0.20	0		
0.20-0.30	0		
0.30-0.40	0		
0.40-0.50	0		
0.50-0.60	2		
0.60-0.70	2		
0.70-0.80	3		
0.80-0.90	3		
0.90-1.00	3		
1.00-1.10	3		
1.10-1.20	4		
1.20-1.30	4		
1.30-1.40	5		
1.40-1.50	5		
1.50-1.60	5		
1.60-1.70	5		
1.70-1.80	6		
1.80-1.90	5		
1.90-2.00	7		
2.00-2.10	6		
2.10-2.20	7		
2.20-2.30	7		
2.30-2.40	6		
2.40-2.50	6		
2.50-2.60	7		
2.60-2.70	7		
2.70-2.80	6		
2.80-2.90	6		
2.90-3.00	7		
3.00-3.10	8		
3.10-3.20	8		
3.20-3.30	11		
3.30-3.40	11		
3.40-3.50	11		
3.50-3.60	16		
3.60-3.70	17		
3.70-3.80	20		
3.80-3.90	21		
3.90-4.00	23		



Remarks

Scale (approx)	Logged By
1:25	JC

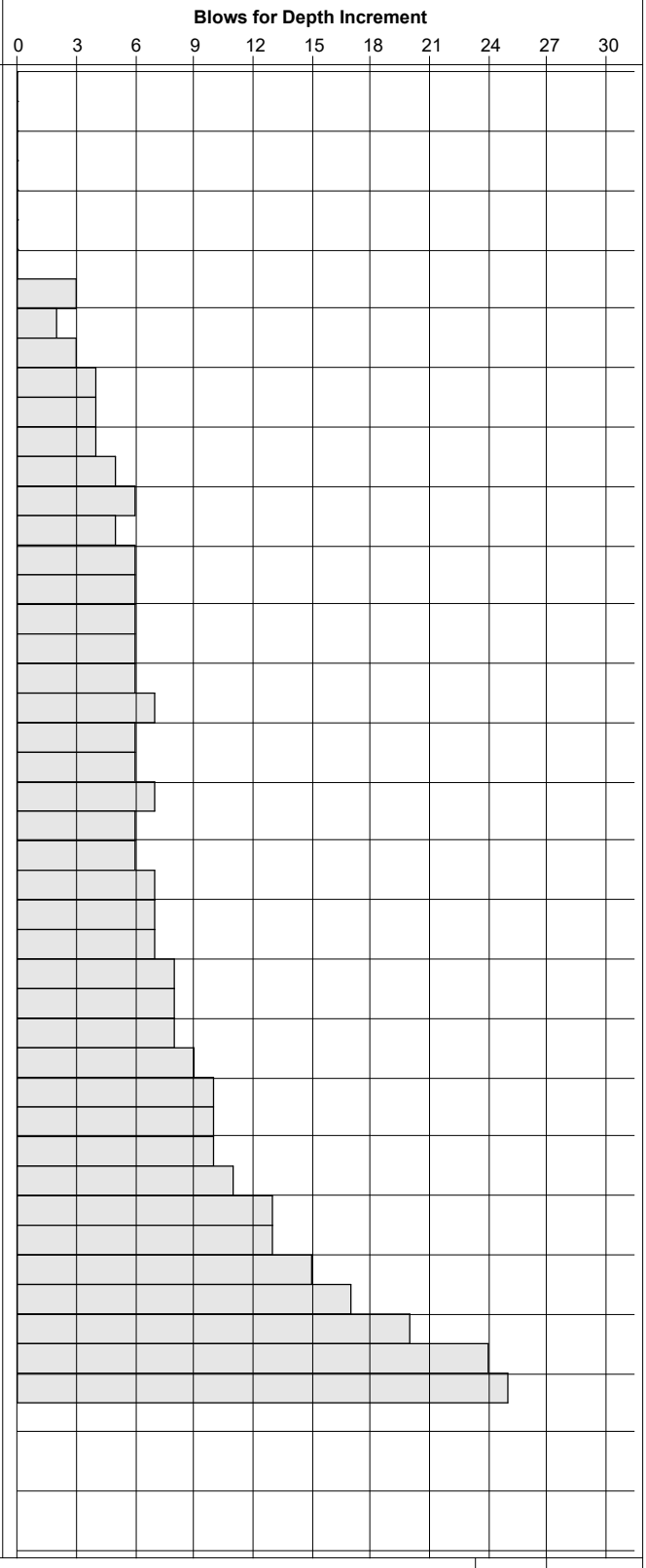
Figure No.
12960-06-23.DPH22

Ground Investigations Ireland Ltd
www.gii.ie

Site	Probe Number
Tinahask	DPH23

Method	Cone Dimensions	Ground Level (mOD)	Client	Job Number
Dynamic Probe DPH, Fall Height 500mm Hammer Weight 50Kg			Hayes Higgins	12960-06-23
	Location	**Dates**	**Engineer**	**Sheet**
		03/08/2023		1/1

Depth (m)	Blows for Depth Increment	Field Records	Level (mOD)
0.00-0.10	0		
0.10-0.20	0		
0.20-0.30	0		
0.30-0.40	0		
0.40-0.50	0		
0.50-0.60	0		
0.60-0.70	0		
0.70-0.80	3		
0.80-0.90	2		
0.90-1.00	3		
1.00-1.10	4		
1.10-1.20	4		
1.20-1.30	4		
1.30-1.40	5		
1.40-1.50	6		
1.50-1.60	5		
1.60-1.70	6		
1.70-1.80	6		
1.80-1.90	6		
1.90-2.00	6		
2.00-2.10	6		
2.10-2.20	7		
2.20-2.30	6		
2.30-2.40	6		
2.40-2.50	7		
2.50-2.60	6		
2.60-2.70	6		
2.70-2.80	7		
2.80-2.90	7		
2.90-3.00	7		
3.00-3.10	8		
3.10-3.20	8		
3.20-3.30	8		
3.30-3.40	9		
3.40-3.50	10		
3.50-3.60	10		
3.60-3.70	10		
3.70-3.80	11		
3.80-3.90	13		
3.90-4.00	13		
4.00-4.10	15		
4.10-4.20	17		
4.20-4.30	20		
4.30-4.40	24		
4.40-4.50	25		



Remarks

Scale (approx)	Logged By
1:25	JC

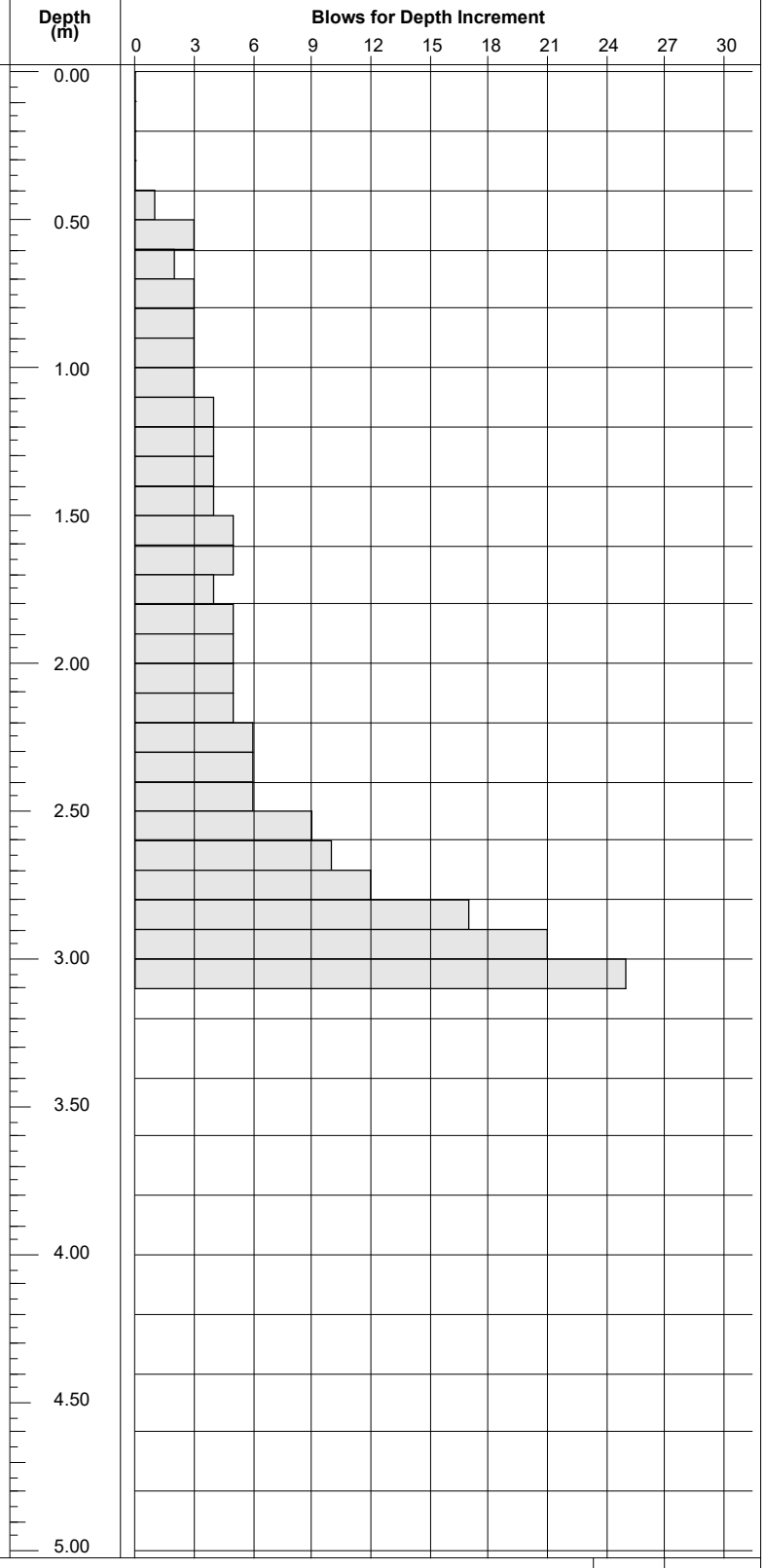
Figure No.
12960-06-23.DPH23

Ground Investigations Ireland Ltd
www.gii.ie

Site	Probe Number
Tinahask	DPH24

Method	Cone Dimensions	Ground Level (mOD)	Client	Job Number
Dynamic Probe DPH, Fall Height 500mm Hammer Weight 50Kg			Hayes Higgins	12960-06-23
	Location	**Dates**	**Engineer**	**Sheet**
		02/08/2023		1/1

Depth (m)	Blows for Depth Increment	Field Records	Level (mOD)
0.00-0.10	0		
0.10-0.20	0		
0.20-0.30	0		
0.30-0.40	0		
0.40-0.50	1		
0.50-0.60	3		
0.60-0.70	2		
0.70-0.80	3		
0.80-0.90	3		
0.90-1.00	3		
1.00-1.10	3		
1.10-1.20	4		
1.20-1.30	4		
1.30-1.40	4		
1.40-1.50	4		
1.50-1.60	5		
1.60-1.70	5		
1.70-1.80	4		
1.80-1.90	5		
1.90-2.00	5		
2.00-2.10	5		
2.10-2.20	5		
2.20-2.30	6		
2.30-2.40	6		
2.40-2.50	6		
2.50-2.60	9		
2.60-2.70	10		
2.70-2.80	12		
2.80-2.90	17		
2.90-3.00	21		
3.00-3.10	25		



Remarks

Scale (approx)	Logged By
1:25	JC

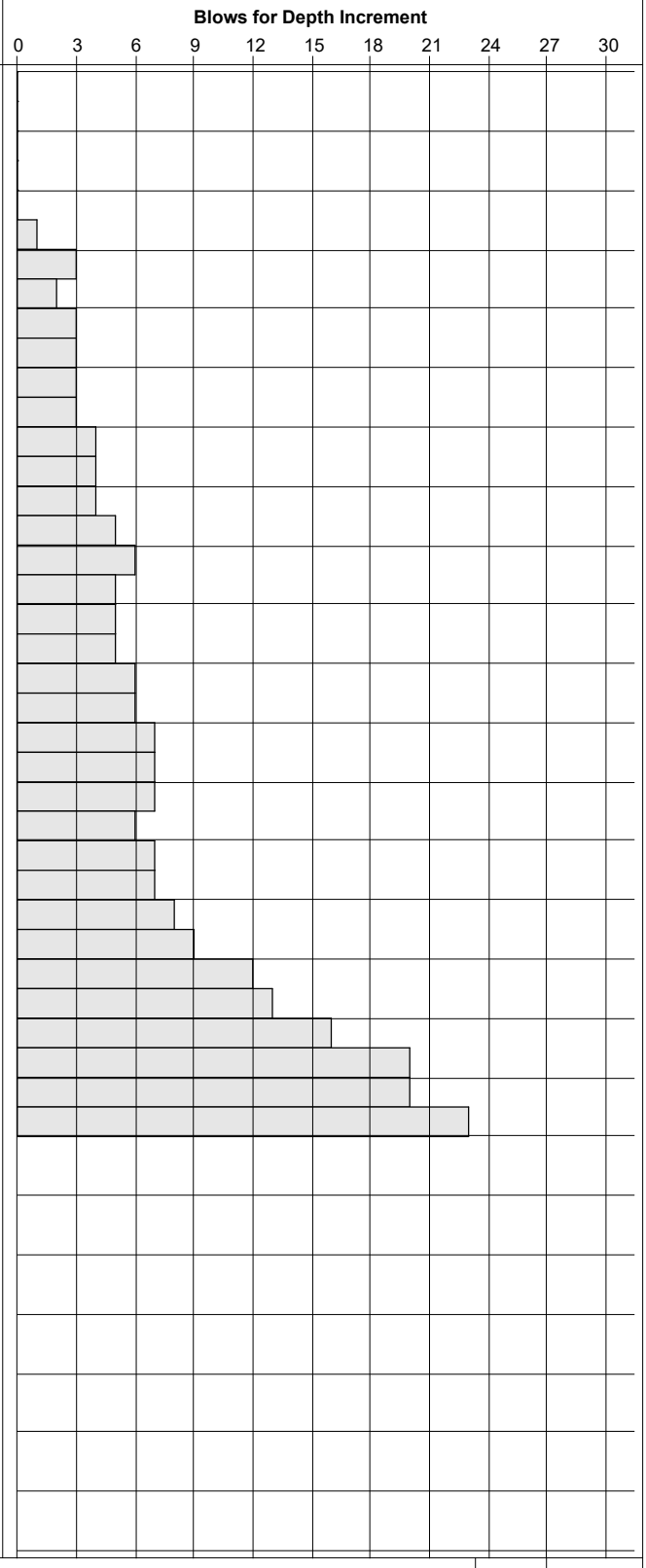
Figure No.
12960-06-23.DPH24

Ground Investigations Ireland Ltd
www.gii.ie

Site	Probe Number
Tinahask	DPH25

Method	Cone Dimensions	Ground Level (mOD)	Client	Job Number
Dynamic Probe DPH, Fall Height 500mm Hammer Weight 50Kg			Hayes Higgins	12960-06-23
	Location	**Dates**	**Engineer**	**Sheet**
		02/08/2023		1/1

Depth (m)	Blows for Depth Increment	Field Records	Level (mOD)
0.00-0.10	0		
0.10-0.20	0		
0.20-0.30	0		
0.30-0.40	0		
0.40-0.50	0		
0.50-0.60	1		
0.60-0.70	3		
0.70-0.80	2		
0.80-0.90	3		
0.90-1.00	3		
1.00-1.10	3		
1.10-1.20	3		
1.20-1.30	4		
1.30-1.40	4		
1.40-1.50	4		
1.50-1.60	5		
1.60-1.70	6		
1.70-1.80	5		
1.80-1.90	5		
1.90-2.00	5		
2.00-2.10	6		
2.10-2.20	6		
2.20-2.30	7		
2.30-2.40	7		
2.40-2.50	7		
2.50-2.60	6		
2.60-2.70	7		
2.70-2.80	7		
2.80-2.90	8		
2.90-3.00	9		
3.00-3.10	12		
3.10-3.20	13		
3.20-3.30	16		
3.30-3.40	20		
3.40-3.50	20		
3.50-3.60	23		



Remarks

Scale (approx)	Logged By
1:25	JC

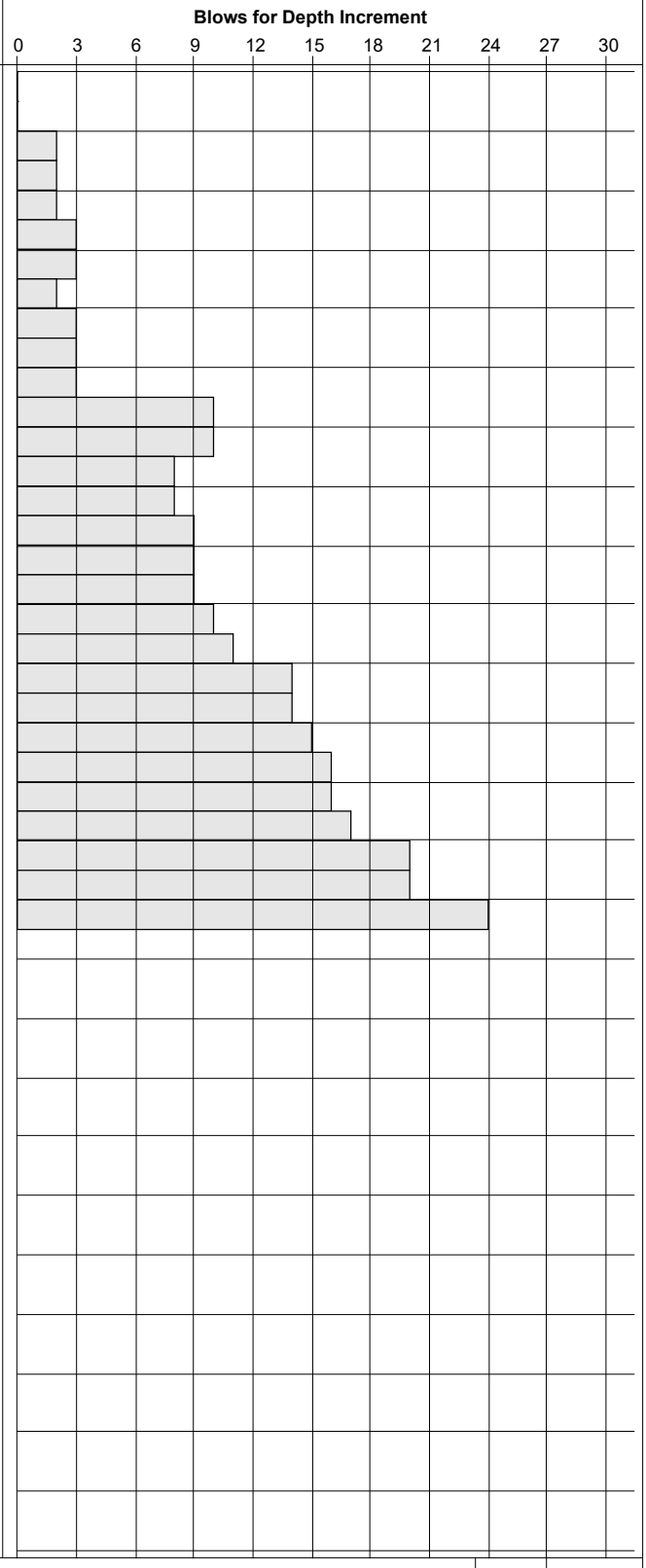
Figure No.
12960-06-23.DPH25

Ground Investigations Ireland Ltd
www.gii.ie

Site	Probe Number
Tinahask	DPH26

Method	Cone Dimensions	Ground Level (mOD)	Client	Job Number
Dynamic Probe DPH, Fall Height 500mm Hammer Weight 50Kg			Hayes Higgins	12960-06-23
	Location	**Dates**	**Engineer**	**Sheet**
		02/08/2023		1/1

Depth (m)	Blows for Depth Increment	Field Records	Level (mOD)
0.00-0.10	0		
0.10-0.20	0		
0.20-0.30	2		
0.30-0.40	2		
0.40-0.50	2		
0.50-0.60	3		
0.60-0.70	3		
0.70-0.80	2		
0.80-0.90	3		
0.90-1.00	3		
1.00-1.10	3		
1.10-1.20	10		
1.20-1.30	10		
1.30-1.40	8		
1.40-1.50	8		
1.50-1.60	9		
1.60-1.70	9		
1.70-1.80	9		
1.80-1.90	10		
1.90-2.00	11		
2.00-2.10	14		
2.10-2.20	14		
2.20-2.30	15		
2.30-2.40	16		
2.40-2.50	16		
2.50-2.60	17		
2.60-2.70	20		
2.70-2.80	20		
2.80-2.90	24		



Remarks

Scale (approx)	Logged By
1:25	JC

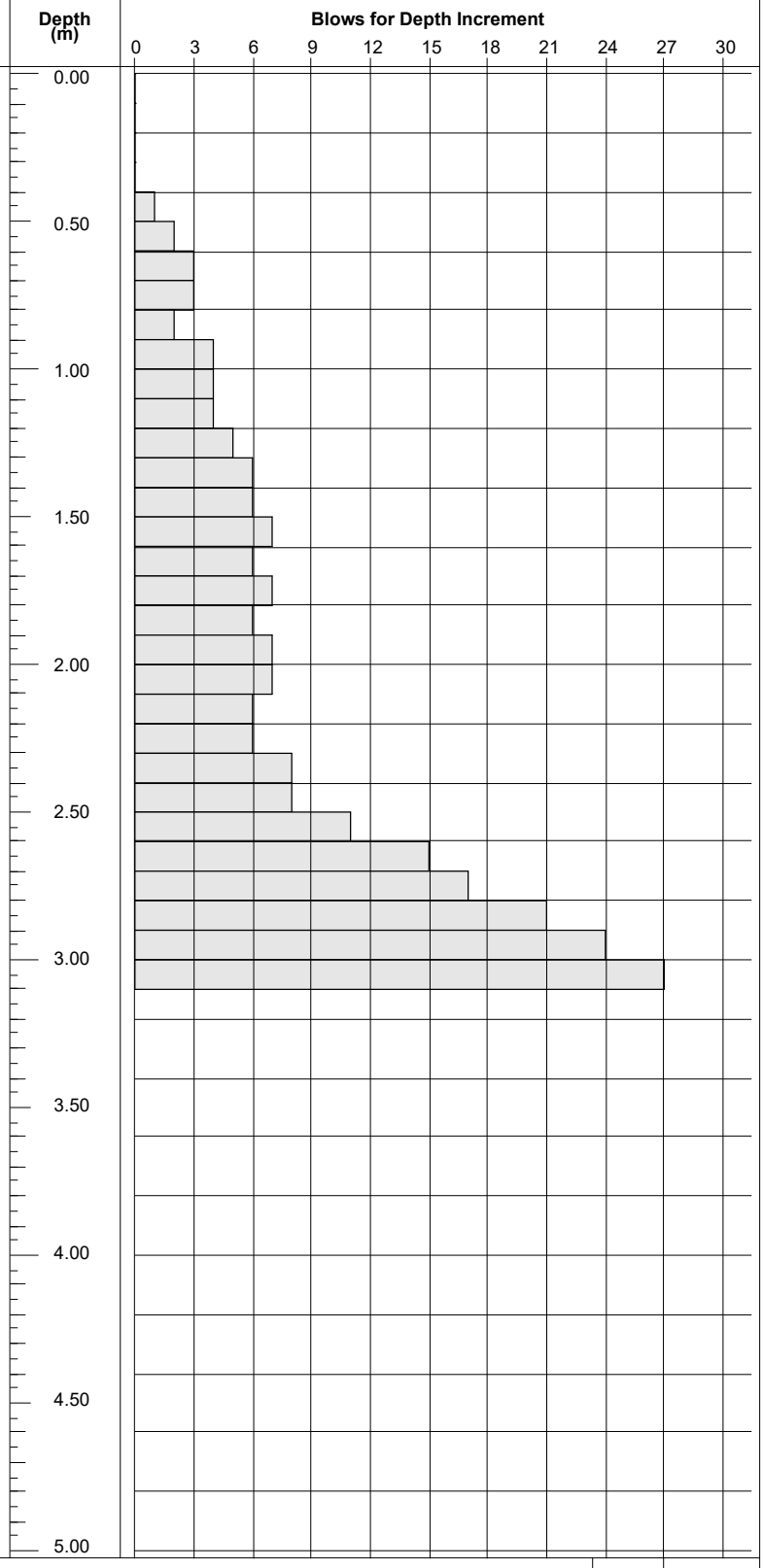
Figure No.
12960-06-23.DPH26

Ground Investigations Ireland Ltd
www.gii.ie

Site	Probe Number
Tinahask	DPH27

Method	Cone Dimensions	Ground Level (mOD)	Client	Job Number
Dynamic Probe DPH, Fall Height 500mm Hammer Weight 50Kg			Hayes Higgins	12960-06-23
	Location	**Dates**	**Engineer**	**Sheet**
		02/08/2023		1/1

Depth (m)	Blows for Depth Increment	Field Records	Level (mOD)
0.00-0.10	0		
0.10-0.20	0		
0.20-0.30	0		
0.30-0.40	0		
0.40-0.50	1		
0.50-0.60	2		
0.60-0.70	3		
0.70-0.80	3		
0.80-0.90	2		
0.90-1.00	4		
1.00-1.10	4		
1.10-1.20	4		
1.20-1.30	5		
1.30-1.40	6		
1.40-1.50	6		
1.50-1.60	7		
1.60-1.70	6		
1.70-1.80	7		
1.80-1.90	6		
1.90-2.00	7		
2.00-2.10	7		
2.10-2.20	6		
2.20-2.30	6		
2.30-2.40	8		
2.40-2.50	8		
2.50-2.60	11		
2.60-2.70	15		
2.70-2.80	17		
2.80-2.90	21		
2.90-3.00	24		
3.00-3.10	27		



Remarks

Scale (approx)	Logged By
1:25	JC

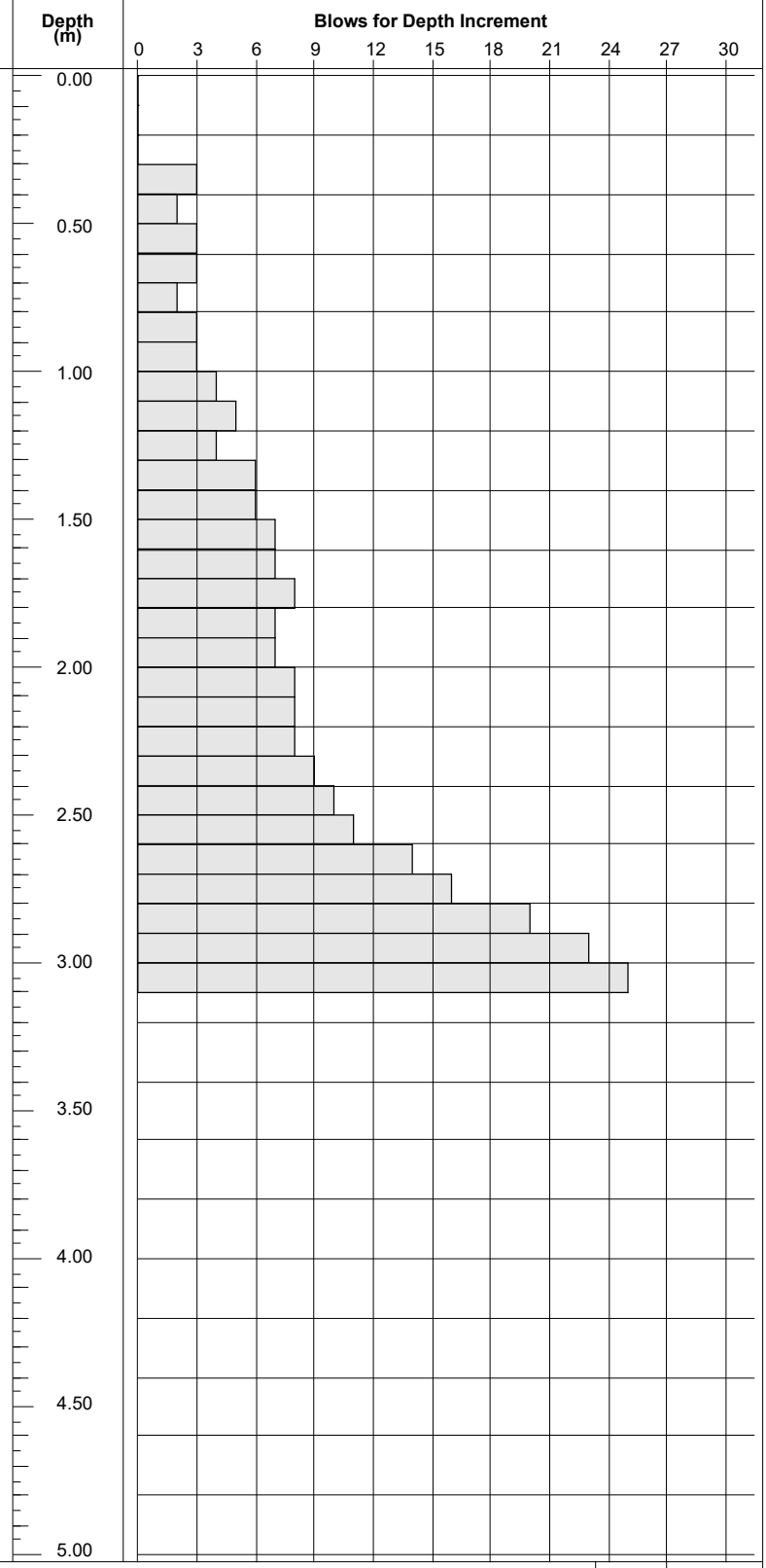
Figure No.
12960-06-23.DPH27

Ground Investigations Ireland Ltd
www.gii.ie

Site	Probe Number
Tinahask	DPH28

Method	Cone Dimensions	Ground Level (mOD)	Client	Job Number
Dynamic Probe DPH, Fall Height 500mm Hammer Weight 50Kg			Hayes Higgins	12960-06-23
	Location	**Dates**	**Engineer**	**Sheet**
		02/08/2023		1/1

Depth (m)	Blows for Depth Increment	Field Records	Level (mOD)
0.00-0.10	0		
0.10-0.20	0		
0.20-0.30	0		
0.30-0.40	3		
0.40-0.50	2		
0.50-0.60	3		
0.60-0.70	3		
0.70-0.80	2		
0.80-0.90	3		
0.90-1.00	3		
1.00-1.10	4		
1.10-1.20	5		
1.20-1.30	4		
1.30-1.40	6		
1.40-1.50	6		
1.50-1.60	7		
1.60-1.70	7		
1.70-1.80	8		
1.80-1.90	7		
1.90-2.00	7		
2.00-2.10	8		
2.10-2.20	8		
2.20-2.30	8		
2.30-2.40	9		
2.40-2.50	10		
2.50-2.60	11		
2.60-2.70	14		
2.70-2.80	16		
2.80-2.90	20		
2.90-3.00	23		
3.00-3.10	25		



Remarks

Scale (approx)	Logged By
1:25	JC

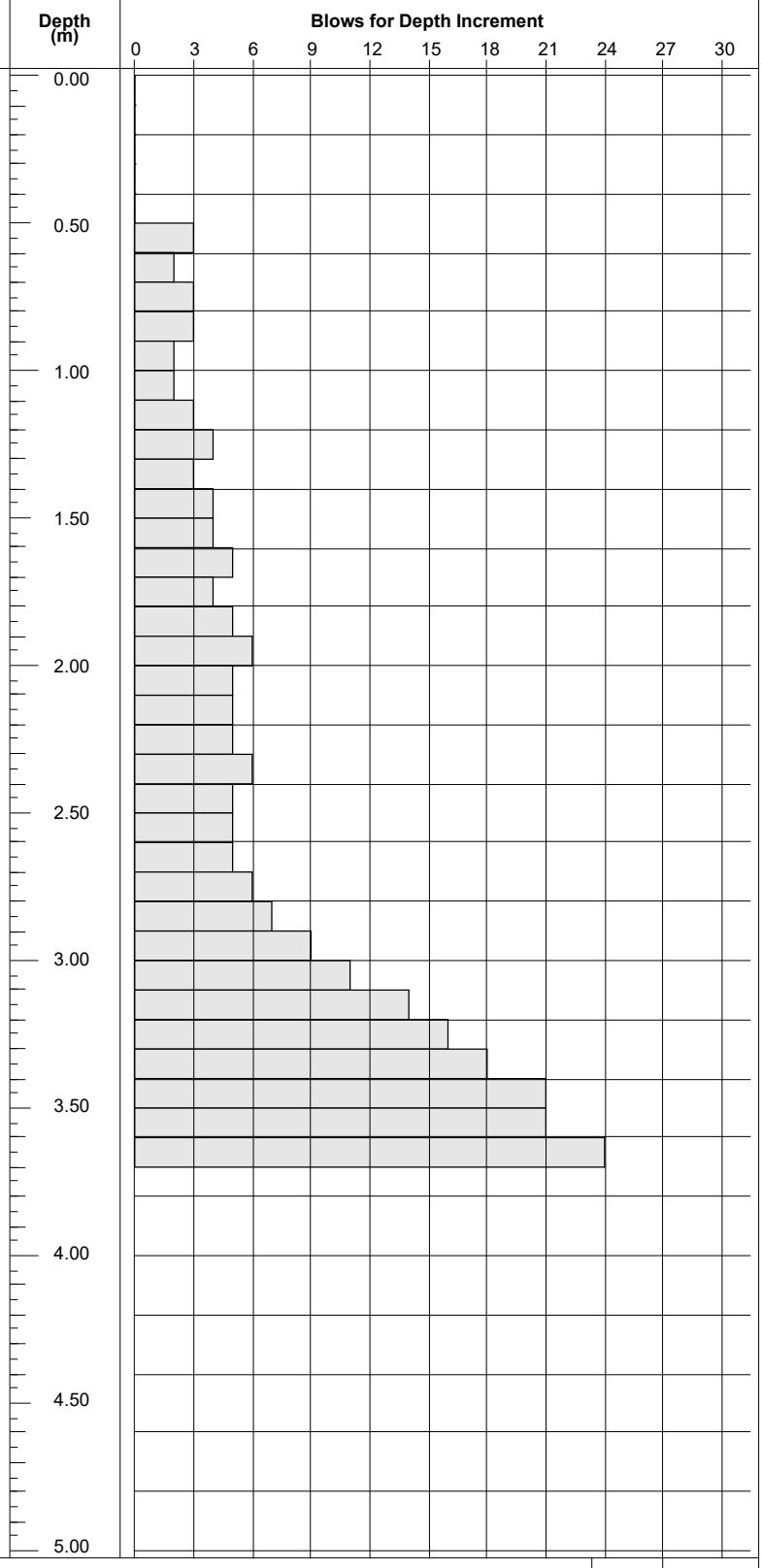
Figure No.
12960-06-23.DPH28

Ground Investigations Ireland Ltd
www.gii.ie

Site	Probe Number
Tinahask	DPH29

Method	Cone Dimensions	Ground Level (mOD)	Client	Job Number
Dynamic Probe DPH, Fall Height 500mm Hammer Weight 50Kg			Hayes Higgins	12960-06-23
	Location	**Dates**	**Engineer**	**Sheet**
		03/08/2023		1/1

Depth (m)	Blows for Depth Increment	Field Records	Level (mOD)
0.00-0.10	0		
0.10-0.20	0		
0.20-0.30	0		
0.30-0.40	0		
0.40-0.50	0		
0.50-0.60	3		
0.60-0.70	2		
0.70-0.80	3		
0.80-0.90	3		
0.90-1.00	2		
1.00-1.10	2		
1.10-1.20	3		
1.20-1.30	4		
1.30-1.40	3		
1.40-1.50	4		
1.50-1.60	4		
1.60-1.70	5		
1.70-1.80	4		
1.80-1.90	5		
1.90-2.00	6		
2.00-2.10	5		
2.10-2.20	5		
2.20-2.30	5		
2.30-2.40	6		
2.40-2.50	5		
2.50-2.60	5		
2.60-2.70	5		
2.70-2.80	6		
2.80-2.90	7		
2.90-3.00	9		
3.00-3.10	11		
3.10-3.20	14		
3.20-3.30	16		
3.30-3.40	18		
3.40-3.50	21		
3.50-3.60	21		
3.60-3.70	24		



Remarks

Scale (approx)	Logged By
1:25	JC

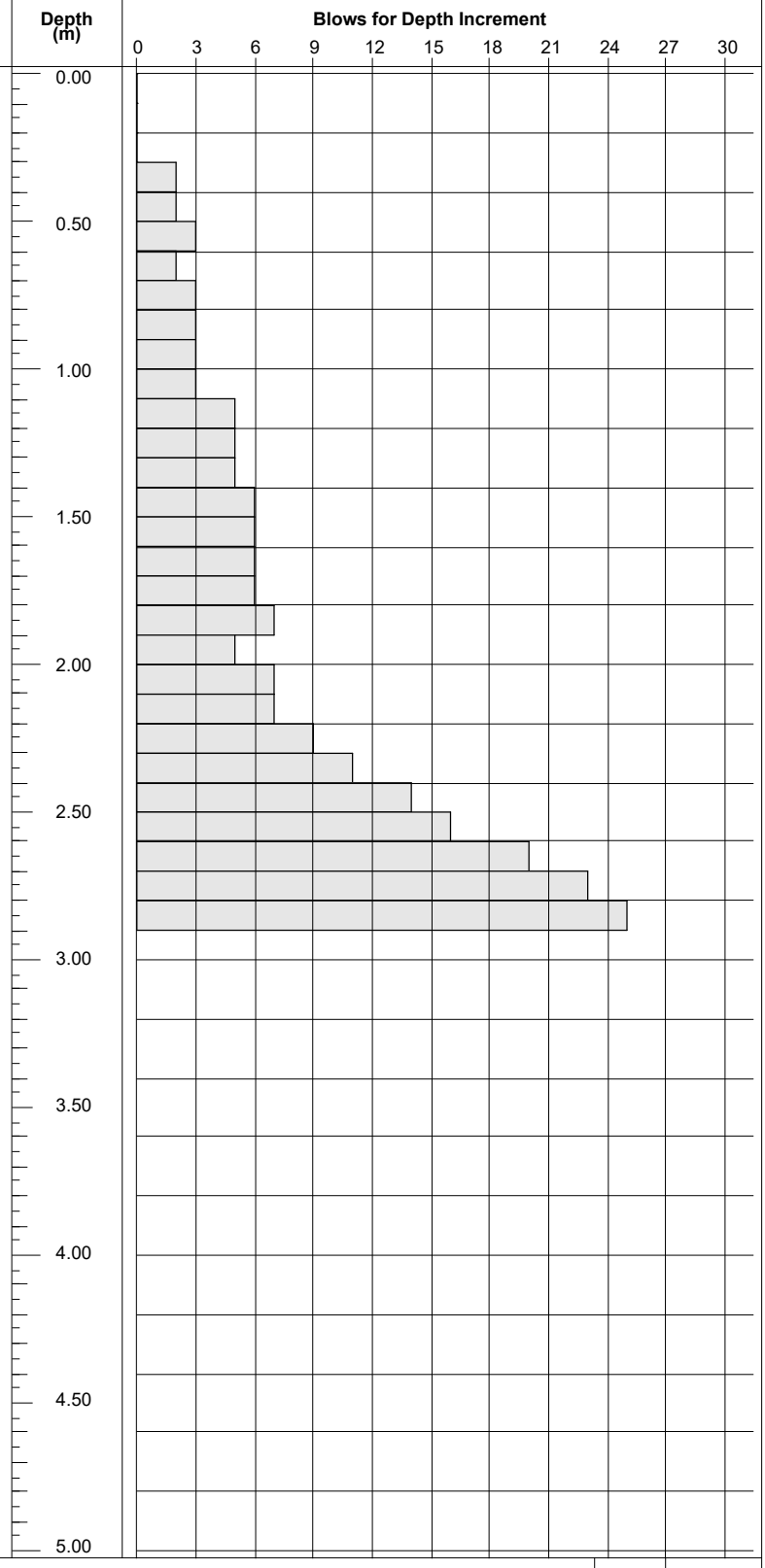
Figure No.
12960-06-23.DPH29

Ground Investigations Ireland Ltd
www.gii.ie

Site	Probe Number
Tinahask	DPH30

Method	Cone Dimensions	Ground Level (mOD)	Client	Job Number
Dynamic Probe DPH, Fall Height 500mm Hammer Weight 50Kg			Hayes Higgins	12960-06-23
	Location	**Dates**	**Engineer**	**Sheet**
		02/08/2023		1/1

Depth (m)	Blows for Depth Increment	Field Records	Level (mOD)
0.00-0.10	0		
0.10-0.20	0		
0.20-0.30	0		
0.30-0.40	2		
0.40-0.50	2		
0.50-0.60	3		
0.60-0.70	2		
0.70-0.80	3		
0.80-0.90	3		
0.90-1.00	3		
1.00-1.10	3		
1.10-1.20	5		
1.20-1.30	5		
1.30-1.40	5		
1.40-1.50	6		
1.50-1.60	6		
1.60-1.70	6		
1.70-1.80	6		
1.80-1.90	7		
1.90-2.00	5		
2.00-2.10	7		
2.10-2.20	7		
2.20-2.30	9		
2.30-2.40	11		
2.40-2.50	14		
2.50-2.60	16		
2.60-2.70	20		
2.70-2.80	23		
2.80-2.90	25		



Remarks

Scale (approx)	Logged By
1:25	JC

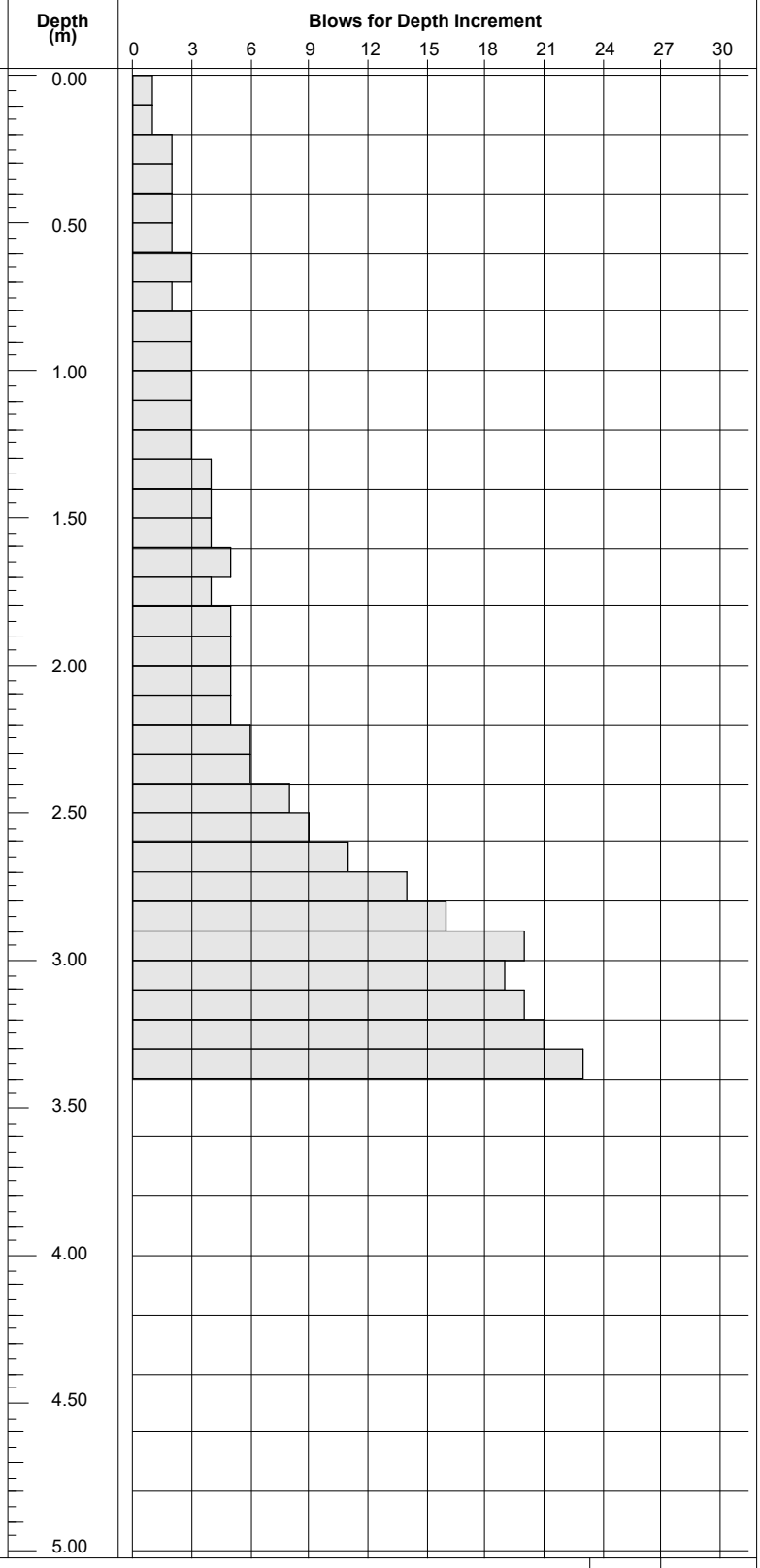
Figure No.
12960-06-23.DPH30

Ground Investigations Ireland Ltd
www.gii.ie

Site	Probe Number
Tinahask	DPH31

Method	Cone Dimensions	Ground Level (mOD)	Client	Job Number
Dynamic Probe DPH, Fall Height 500mm Hammer Weight 50Kg			Hayes Higgins	12960-06-23
	Location	**Dates**	**Engineer**	**Sheet**
		02/08/2023		1/1

Depth (m)	Blows for Depth Increment	Field Records	Level (mOD)
0.00-0.10	1		
0.10-0.20	1		
0.20-0.30	2		
0.30-0.40	2		
0.40-0.50	2		
0.50-0.60	2		
0.60-0.70	3		
0.70-0.80	2		
0.80-0.90	3		
0.90-1.00	3		
1.00-1.10	3		
1.10-1.20	3		
1.20-1.30	3		
1.30-1.40	4		
1.40-1.50	4		
1.50-1.60	4		
1.60-1.70	5		
1.70-1.80	4		
1.80-1.90	5		
1.90-2.00	5		
2.00-2.10	5		
2.10-2.20	5		
2.20-2.30	6		
2.30-2.40	6		
2.40-2.50	8		
2.50-2.60	9		
2.60-2.70	11		
2.70-2.80	14		
2.80-2.90	16		
2.90-3.00	20		
3.00-3.10	19		
3.10-3.20	20		
3.20-3.30	21		
3.30-3.40	23		



Remarks

Scale (approx)	Logged By
1:25	JC

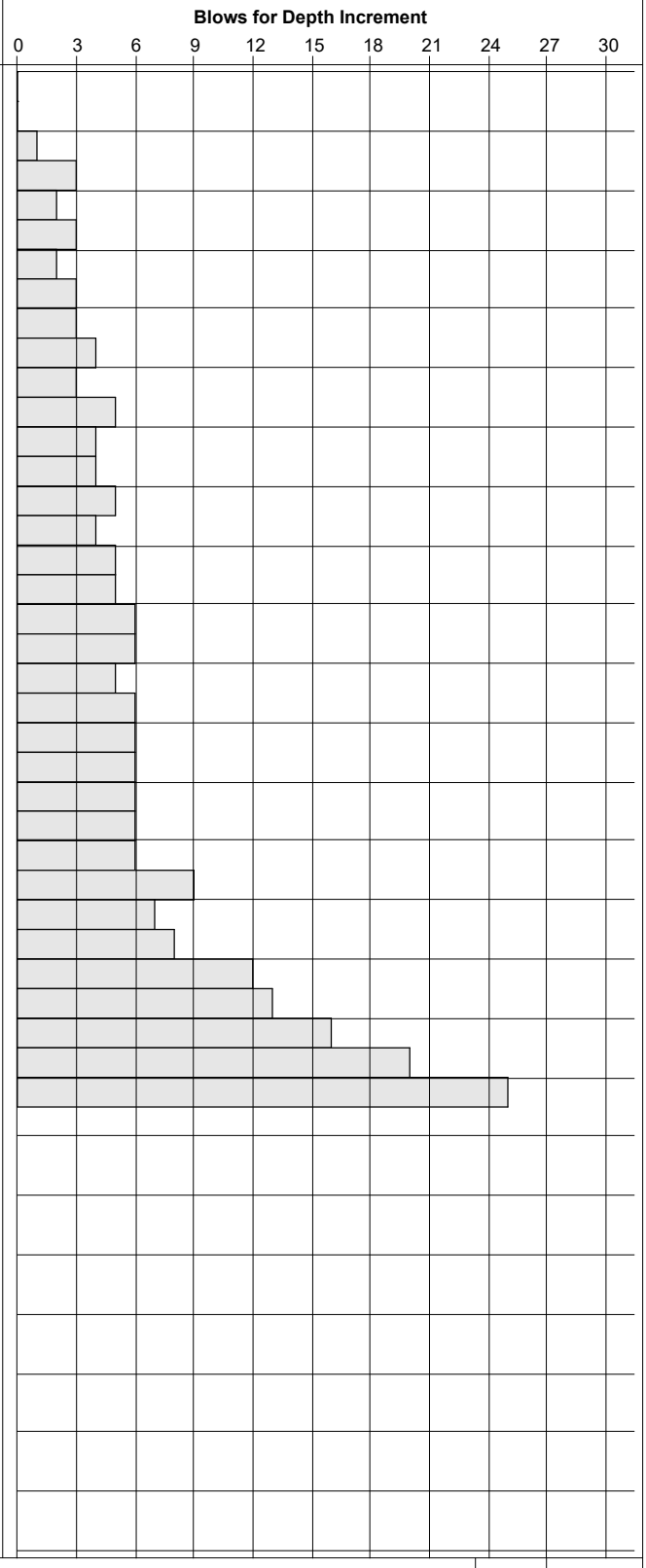
Figure No.
12960-06-23.DPH31

Ground Investigations Ireland Ltd
www.gii.ie

Site	Probe Number
Tinahask	DPH32

Method	Cone Dimensions	Ground Level (mOD)	Client	Job Number
Dynamic Probe DPH, Fall Height 500mm Hammer Weight 50Kg			Hayes Higgins	12960-06-23
	Location	**Dates**	**Engineer**	**Sheet**
		03/08/2023		1/1

Depth (m)	Blows for Depth Increment	Field Records	Level (mOD)
0.00-0.10	0		
0.10-0.20	0		
0.20-0.30	1		
0.30-0.40	3		
0.40-0.50	2		
0.50-0.60	3		
0.60-0.70	2		
0.70-0.80	3		
0.80-0.90	3		
0.90-1.00	4		
1.00-1.10	3		
1.10-1.20	5		
1.20-1.30	4		
1.30-1.40	4		
1.40-1.50	5		
1.50-1.60	4		
1.60-1.70	5		
1.70-1.80	5		
1.80-1.90	6		
1.90-2.00	6		
2.00-2.10	5		
2.10-2.20	6		
2.20-2.30	6		
2.30-2.40	6		
2.40-2.50	6		
2.50-2.60	6		
2.60-2.70	6		
2.70-2.80	9		
2.80-2.90	7		
2.90-3.00	8		
3.00-3.10	12		
3.10-3.20	13		
3.20-3.30	16		
3.30-3.40	20		
3.40-3.50	25		



Remarks

Scale (approx)	Logged By
1:25	JC

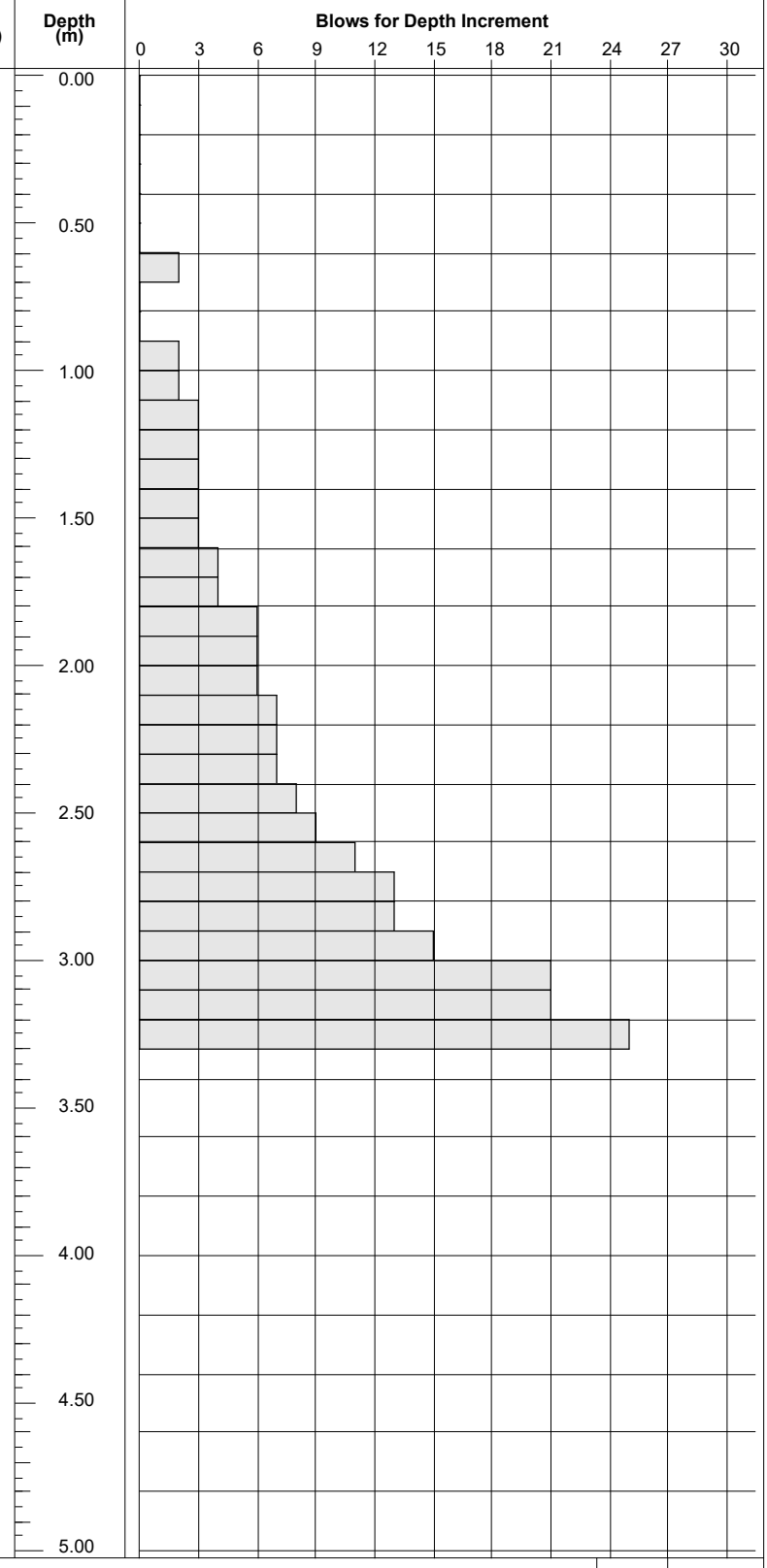
Figure No.
12960-06-23.DPH32

Ground Investigations Ireland Ltd
www.gii.ie

Site	Probe Number
Tinahask	DPH33

Method	Cone Dimensions	Ground Level (mOD)	Client	Job Number
Dynamic Probe DPH, Fall Height 500mm Hammer Weight 50Kg			Hayes Higgins	12960-06-23
	Location	**Dates**	**Engineer**	**Sheet**
		02/08/2023		1/1

Depth (m)	Blows for Depth Increment	Field Records	Level (mOD)
0.00-0.10	0		
0.10-0.20	0		
0.20-0.30	0		
0.30-0.40	0		
0.40-0.50	0		
0.50-0.60	0		
0.60-0.70	2		
0.70-0.80	0		
0.80-0.90	0		
0.90-1.00	2		
1.00-1.10	2		
1.10-1.20	3		
1.20-1.30	3		
1.30-1.40	3		
1.40-1.50	3		
1.50-1.60	3		
1.60-1.70	4		
1.70-1.80	4		
1.80-1.90	6		
1.90-2.00	6		
2.00-2.10	6		
2.10-2.20	7		
2.20-2.30	7		
2.30-2.40	7		
2.40-2.50	8		
2.50-2.60	9		
2.60-2.70	11		
2.70-2.80	13		
2.80-2.90	13		
2.90-3.00	15		
3.00-3.10	21		
3.10-3.20	21		
3.20-3.30	25		



Remarks

Scale (approx)	Logged By
1:25	JC

Figure No.
12960-06-23.DPH33