

IGSL Ltd

PPK3 Profile Park

Ground Investigation Report

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Project No. 22000

November 2019



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FOREWORD

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

Standards

The ground investigation works for this project (PPK 3) have been carried out by IGSL in accordance with Eurocode 7 - Part 2: Ground Investigation & Testing (EN 1997-2:2007). This has been used together with complementary documents such as Engineers Ireland Specification for Ground Investigation (2nd Ed, 2016), BS 5930 (2015) and BS 1377 (Parts 1 to 9) and the following European Norms:

- EN 1997-2 Eurocode 7: 2007 – Geotechnical Design – Part 2: Ground Investigation & Testing
- EN ISO 22475-1:2006 Geotechnical Investigation and Sampling – Sampling Methods & Groundwater Measurements
- EN ISO 14688-1:2002 Geotechnical Investigation and Testing – Identification and Classification of Soil, Part 1: Identification and Description
- EN ISO 14688-2:2004 Geotechnical Investigation and Testing – Identification and Classification of Soil, Part 2: Classification Principles
- EN ISO 14689-1:2004 Geotechnical Investigation and Testing - Identification & Classification of Rock, Part 1: Identification & Description

Reporting

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

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Boring Procedures

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

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

In-Situ Testing

Where required, Standard Penetration Tests (SPT's) are conducted strictly in accordance with Section 4.6 of IS EN 1997-2:2007. The SPT equipment (hammer energy test) has been calibrated in accordance with EN ISO 22476-3:2005 and the Energy Ratio (E_r). A calibration certificate is available upon request. The E_r is defined as the ratio of the actual energy E_{meas} (measured energy during calibration) delivered to the drive weight assembly into the drive rod below the anvil, to the theoretical energy (E_{theor}) as calculated from the drive weight assembly. The measured number of blows (N) reported on the engineering logs are uncorrected. In sands, the energy losses due to rod

length and the effect of the overburden pressure should be taken into account (see IS EN ISO 22476-3:2005).

Soil Sampling

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

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

Table A – Details of Sample Quality Requirements

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

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

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

Groundwater

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

Engineering Logging

Soil and rock identification has been based on the examination of the samples recovered and conforms with IS EN ISO 14688-1:2002 and IS EN ISO 14689-1:2004. Rock weathering classification conforms to IS EN ISO 14689-1:2003 while discontinuities (bedding planes, joints, cleavages, faults etc) are classified in accordance with 4.3.3 of IS EN ISO 14689-1:2003. Rock mechanical indices (TCR, SCR, RQD) are defined in accordance with IS EN ISO 22475-1:2006.

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

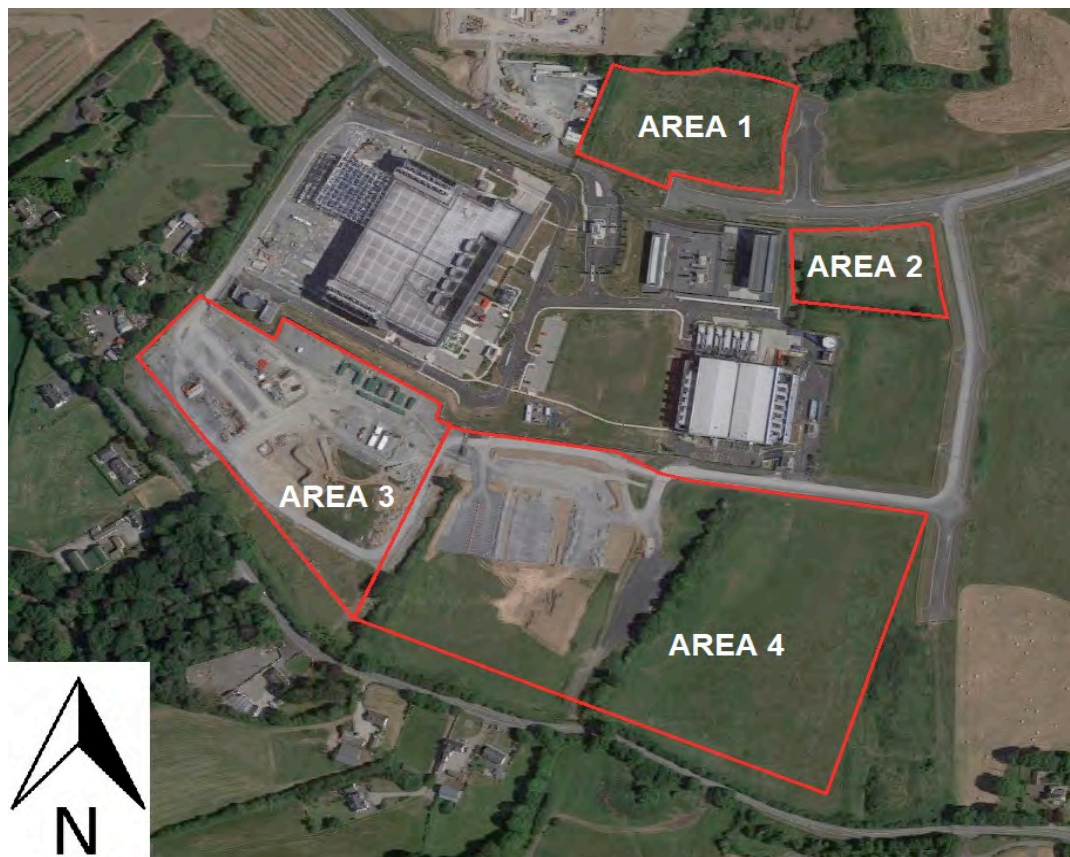
Retention of Samples

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

1. INTRODUCTION

At the instruction of PM Group, IGSL has undertaken a programme of geotechnical investigations at Profile Park, West Dublin. It is understood that the client proposes to construct a data storage facility (80MW), CUB, administration block and associated infrastructure (access roads, car parking etc). The site is located in west Dublin and encompasses an area of approximately 13.8 Ha. Ground levels or elevations range from c74 to 83m OD and the western portion of the site (Area 3) is occupied by a site compound (BAM) and car parking.

Figure 1 - Project Location



The investigations comprised geophysical surveying followed by trial pits, rotary core drillholes, dynamic probes, plate load tests, soakaway tests, rock excavation trials and a compaction trial. Geotechnical instrumentation (standpipes) was installed in select rotary drillholes. The investigations were executed in accordance with BS 5930, Code of Practice for Site Investigations (2016) and EN 1997-2 Eurocode 7 Part 2 Ground Investigation & Testing.

Geotechnical laboratory testing was carried out on a range of samples recovered from the trial pits, trial excavations and rotary cores. Geotechnical testing included particle size distribution, moisture content, Atterberg Limits, CBR, MCV, Los Angeles, slake durability, Chemical analysis, thin section petrography and XRD was conducted on selected rock core samples to evaluate sulphate and sulphur and form and distribution of suspected pyrite. Environmental analysis was conducted on soil samples retrieved from the trial pits.

The 'as-built' exploratory locations were surveyed by IGSL and the co-ordinates and elevations are presented on the field logs. A site plan / drawing has been prepared and this shows the locations of the 'as-built' exploratory points (Appendix 16).

2. FIELDWORKS

2.1 General

The geotechnical and geophysical investigations were carried out during the period August to October 2019 and included the following:

- Trial pits (100 No.)
- Rotary core drillholes (30 No.)
- Dynamic probes (59 No.)
- Plate load tests (32 No.)
- Soakaway tests (8 No.)
- Rock Excavation Trials (4 No.)
- Compaction trial (1 No.)
- Geophysical surveying
- Groundwater instrumentation & monitoring
- Surveying of 'as-built' exploratory locations

2.2 Trial Pits

Trial pitting was performed with 6T rubber wheeled excavators. The trial pits were logged and sampled by an IGSL engineering geologist in accordance with BS 5930 (2015). Bulk disturbed samples (typically 20 to 25 kg) were taken as the pits progressed. The samples were placed in heavy-duty polyethene bags and sealed before being transported to Naas for laboratory testing. The trial pits were backfilled with the as-dug arisings and reinstated to the satisfaction of IGSL's site representative. The trial pit logs are presented in Appendix 1 and include descriptions of the soils encountered, ground and groundwater conditions and stability of excavations.

2.3 Rotary Core Drillholes

Rotary core drilling was undertaken at thirty locations using a combination of Casagrande and Knebel top drive rigs. The rotary drillholes (denoted RC 1 to RC 30) produced 78mm diameter (P size) cores using air mist flush. The core samples were placed in 3m capacity timber boxes and transported to IGSL's laboratory in Naas for logging and photography.

Standpipes were installed in eight rotary holes to establish equilibrium groundwater levels and if required facilitate recovery of samples for environmental analysis. The standpipes (50mm diameter uPVC with proprietary 1mm slots and filter sock) incorporated a pea gravel filter pack and cement/bentonite grout seal. Protective headwork covers were concreted in place.

The cores were logged and photographed by a senior IGSL engineering geologist. The core log records are presented in Appendix 2 and these include engineering geological descriptions of the recovered material, mechanical indices (TCR) for each core run and instrumentation details. Core photographs are also presented in Appendix 2 and these illustrate the composition and structure of the recovered materials.

2.4 Dynamic Probes

Dynamic probing (DPH) was carried out using a Dando Terrier rig. This unit meets the requirements of BS 1377, Part 9 (1990) and IS EN 1997-2:2007. The probing rig utilized a 50 kg drop weight and 500mm drop height with a 60° cone. In accordance with the aforementioned standards, the number of blows required to drive the cone each 100mm increment into the sub-soil was recorded. An energy ratio of 87% has been calibrated and measured for the DP equipment. The dynamic probe logs are presented in Appendix 3 and include blow-counts in both numerical and graphical format.

2.5 Plate Load Tests

Plate load tests were conducted on the shallow or near surface materials (0.50 to 0.70m bgl). The plate testing was undertaken to evaluate modulus of sub-grade reaction (Ks) and equivalent CBR value. A 450mm diameter plate was used for the tests with kentledge provided by a 7t excavator.

Two load cycle tests were performed and the load / settlement plots, Ks and equivalent CBR values are presented in Appendix 4.

2.6 Soakaway Tests

Soakaway or infiltration tests were conducted in line with BRE 365. The tests involved excavation of the upper soils, saturation and monitoring dissipation rates. The soakaway test records are shown in Appendix 5.

2.7 Groundwater Monitoring

Groundwater levels in the standpipes were recorded at the end of the fieldworks and details are presented in Appendix 6.

2.8 Rock Excavation Trial

Large rock excavation trials were undertaken at four areas across the site. The key objective was to establish the engineering geological characteristics of the upper bedrock or rock mass. The excavation trials are denoted TEX 1 to TEX 4 and attained depths of 3.7 to 4.15m bgl. A 21T excavator was used equipped with a 1.5T breaker to loosen or fracture the upper rock mass.

Following excavation of the superficial deposits ('overburden') with the toothed bucket, the rock was fractured by hydraulic breaking. The duration for hydraulic breaking at each lift was recorded and this enables production rates to be determined for the plant used.

Scanline surveying was also carried out to measure discontinuity characteristics (i.e. spacings, apertures, persistence, infilling, staining etc) and large bulk samples were taken and placed in 1T sacks. The trial excavation records are presented in Appendix 7 and include production records for each lift, ground conditions, discontinuity information and photographs.

2.9 Compaction Trial

A compaction trial was performed at TEX 3 to assess the performance of the as-dug soils (glacial till) and excavated bedrock in an earthwork environment. Three lifts (c300mm each) were formed with compaction (roller passes) by a smooth drum roller. Plate load tests were carried out on formation prior to placing the first layer of fill and subsequently on each of the three layers to assess stiffness (Ks) and CBR. The compaction trial findings are presented in Appendix 8.

2.10 Geophysical Surveying

Geophysical surveying was carried out by Apex Geoservices and utilized electro magnetic (EM 31), electrical resistivity tomography (ERT) and seismic refraction techniques. The main objective of the geophysics was to establish depth to bedrock and assess the presence of geological anomalies or features (e.g. buried channels or glacial scouring). Details of the survey methodologies, findings and x-section profiles are presented in the geophysical report (refer to Appendix 9).

2.11 Surveying of Exploratory Locations

Following completion of the exploratory works, surveying was carried out using GPS techniques. Co-ordinates (x, y) were measured to national grid and ground levels (z) established to Malin Head. The co-ordinates and ground levels are shown on the exploratory logs while the 'as-built' ground investigation points are presented on the drawings in Appendix 16.

3. LABORATORY TESTING

Laboratory testing was carried out on selected trial pit, rotary drillhole and rock excavation trial samples. The soils testing was undertaken in accordance with BS 1377 (1990) and included moisture content, particle size grading, Atterberg Limits (Liquid & Plastic Limits), CBR, MCV and thermal resistivity. The soil test results are presented in Appendix 11.

Point load strength index (PLSI) tests were performed on rock core specimens in accordance with ISRM. Geomaterials testing (i.e. Los Angeles abrasion and slake durability) was carried out to evaluate the re-use potential of the upper bedrock in relation to capping i(Series 600 of the NRA / TII SRW) in pavement construction. The rock and geomaterial laboratory test records are enclosed in Appendix 12.

Chemical analysis tests (i.e. acid soluble sulphate, water soluble sulphate & total sulphur contents) were conducted on a number of rock core and trial pit samples (in accordance with EN 1744). The chemical analysis records are presented in Appendix 13.

Simplified and thin section petrographic analysis was undertaken on selected trial pit and rock core specimens. The thin section analysis and reporting was undertaken by Dr GD Matheson and the key objective of the petrography (incorporating XRD) was to evaluate mineralogy, form and distribution of pyrite (notably if 'framboidal' pyrite is present) and assess the potential for pyrite induced swelling. The thin section petrographic and XRD reports are enclosed in Appendix 14.

Environmental testing (WAC) was conducted on a number of trial pit samples and the test results are presented in Appendix 15.

REFERENCES

- 1.0 BS 5930 (2015) Code of Practice for Site Investigation, British Standards Institution (BSI).
- 2.0 BS 1377 (1990) Methods of Testing of Soils for Civil Engineering Purposes, BSI
- 3.0 Eurocode 7, Part 2: Ground Investigation & Testing (EN 1997-2:2007)
- 4.0 IS EN 14689-1-2004: Geotechnical Investigation & Testing – Identification and Classification of Rock, Part 1
- 5.0 IS EN 932-3:1997, Tests for General Properties of Aggregates, Part 3 Procedures for Simplified Petrographic Description
- 6.0 Site Investigation Practice: Assessing BS 5930 (1986), Geological Society Special Publication, No. 2.

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Appendix 1

Trial Pit Records & Photographs

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TRIAL PIT RECORD

REPORT NUMBER

22000

CONTRACT PPK3 Profile Park

TRIAL PIT NO. TP01

SHEET Sheet 1 of 1

LOGGED BY S.Cunningham

CO-ORDINATES 703,367.42 E
730,634.86 N

DATE STARTED 03/09/2019

DATE COMPLETED 03/09/2019

CLIENT
ENGINEER PM Group

GROUND LEVEL (m) 74.27

EXCAVATION
METHOD 6T JCB

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	TOPSOIL: Soft brown slightly sandy slightly gravelly CLAY. Sand is fine to medium.		0.20	74.07		AA128677	B	0.50		
	Soft brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse.									
			0.75	73.52		AA128678	B	1.10		
1.0	Firm to stiff grey sandy gravelly silty CLAY with a low cobble content. Sand is fine to coarse. Gravel is angular to subangular, fine to coarse.									
						AA128679	B	1.90		
2.0			2.20	72.07						
	Possible weathered rockhead recovered as angular platy COBBLE and GRAVEL sized fragments of medium strength dark grey argillaceous limestone with some brown grey CLAY.		2.50	71.77		AA128680	B	2.30		
	End of Trial Pit at 2.50m									
3.0										
4.0										

Groundwater Conditions


Dry






Stability

Stable


General Remarks

























Pit terminated at 2.50mbgl on possible rockhead

		<h1>TRIAL PIT RECORD</h1>						REPORT NUMBER <h2>22000</h2>	
CONTRACT PPK3 Profile Park							TRIAL PIT NO. TP02 SHEET Sheet 1 of 1		
LOGGED BY S.Cunningham		CO-ORDINATES 703,396.19 E 730,630.80 N				DATE STARTED 03/09/2019 DATE COMPLETED 03/09/2019			
CLIENT ENGINEER PM Group		GROUND LEVEL (m) 74.29				EXCAVATION METHOD 6T JCB			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	TOPSOIL: Soft brown slightly sandy slightly gravelly CLAY. Sand is fine to medium.									
	Firm brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse.		0.30	73.99						
	Firm to stiff grey sandy gravelly silty CLAY with a low cobble content. Sand is fine to coarse. Gravel is angular to subangular, fine to coarse.		0.75	73.54		AA128681	B	0.60		
1.0						AA128682	B	1.10		
2.0	Possible weathered rockhead recovered as angular platy COBBLE and GRAVEL sized fragments of medium strength dark grey argillaceous limestone with some brown grey CLAY. End of Trial Pit at 2.10m		2.00 2.10	72.29 72.19		AA128683	B	2.00		
3.0										
4.0										


Groundwater Conditions Dry										
Stability Stable										
General Remarks Pit terminated at 2.10mbgl on possible rockhead										







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CONTRACT PPK3 Profile Park						TRIAL PIT NO. TP03 SHEET Sheet 1 of 1			
LOGGED BY S.Cunningham			CO-ORDINATES 703,431.36 E 730,624.32 N			DATE STARTED 03/09/2019 DATE COMPLETED 03/09/2019			
CLIENT ENGINEER PM Group			GROUND LEVEL (m) 74.15			EXCAVATION METHOD 6T JCB			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	TOPSOIL: Soft brown slightly sandy slightly gravelly CLAY. Sand is fine to medium.									
	Firm brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse.		0.30	73.85						
	Firm to stiff grey sandy gravelly silty CLAY with a low cobble content. Sand is fine to coarse. Gravel is angular to subangular, fine to coarse.		0.50	73.65						
1.0						AA128684	B	0.80		
										
										
										
2.0	Possible weathered rockhead recovered as angular platy COBBLE and GRAVEL sized fragments of medium strength dark grey argillaceous limestone with some brown grey CLAY.		2.00	72.15						
	End of Trial Pit at 2.10m		2.10	72.05		AA128685	B	1.80		
										
										
										
										
										
										
										
										
										
										
										
										
										
										
										

Groundwater Conditions Dry										
Stability Stable										
General Remarks Pit terminated at 2.10mbgl on possible rockhead										


IGSL TP LOG 22000C.GPJ IGSL_GDT 23/10/19


		<h1>TRIAL PIT RECORD</h1>						REPORT NUMBER <h2>22000</h2>	
CONTRACT PPK3 Profile Park						TRIAL PIT NO. TP04 SHEET Sheet 1 of 1			
LOGGED BY S.Cunningham		CO-ORDINATES 703,456.40 E 730,624.30 N				DATE STARTED 03/09/2019 DATE COMPLETED 03/09/2019			
CLIENT ENGINEER PM Group		GROUND LEVEL (m) 74.20				EXCAVATION METHOD 6T JCB			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	TOPSOIL: Soft brown slightly sandy slightly gravelly CLAY. Sand is fine to medium.									
	Firm brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse.		0.35	73.85						
	Firm to stiff grey sandy gravelly silty CLAY with a low cobble content. Sand is fine to coarse. Gravel is angular to subangular, fine to coarse.		0.70	73.50		AA128686	B	0.60		
1.0						AA128687	B	0.90		
						AA128688	B	1.50		
1.80	End of Trial Pit at 1.80m		1.80	72.40						
2.0										
3.0										
4.0										

Groundwater Conditions Dry
Stability Stable
General Remarks Pit terminated at 1.80mbgl on possible rockhead

IGSL TP LOG 22000C.GPJ IGSL_GDT 23/10/19

		<h1 style="text-align: center;">TRIAL PIT RECORD</h1>						REPORT NUMBER <h2 style="text-align: center;">22000</h2>	
CONTRACT PPK3 Profile Park						TRIAL PIT NO. TP05		SHEET Sheet 1 of 1	
LOGGED BY S.Cunningham			CO-ORDINATES 703,472.68 E 730,611.33 N			DATE STARTED 03/09/2019 DATE COMPLETED 03/09/2019			
CLIENT ENGINEER PM Group			GROUND LEVEL (m) 74.71			EXCAVATION METHOD 6T JCB			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	MADE GROUND comprised of brown sandy very gravelly CLAY with wood and plastic fragments. Sand is fine to coarse. Gravel is subangular to rounded, fine to coarse.		0.10	74.61						
	Firm brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse.					AA128689	B	0.60		
1.0	Firm to stiff grey sandy gravelly silty CLAY with a low cobble content. Sand is fine to coarse. Gravel is angular to subangular, fine to coarse.		1.20	73.51		AA128690	B	1.40		
2.0										
	End of Trial Pit at 2.50m		2.50	72.21		AA128691	B	2.40		
3.0										
4.0										

Groundwater Conditions Dry	
Stability Stable	
General Remarks Pit terminated at 2.50mbgl on possible rockhead	



TRIAL PIT RECORD

REPORT NUMBER

22000

CONTRACT PPK3 Profile Park

TRIAL PIT NO. TP06

SHEET Sheet 1 of 1

LOGGED BY S.Cunningham

CO-ORDINATES 703,373.34 E
730,614.50 N

DATE STARTED 03/09/2019

DATE COMPLETED 03/09/2019

CLIENT
ENGINEER PM Group

GROUND LEVEL (m) 74.33

EXCAVATION
METHOD 6T JCB

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	TOPSOIL: Soft brown slightly sandy slightly gravelly CLAY. Sand is fine to medium.									
	Firm brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse.		0.35	73.98		AA113617	B	0.50		
1.0	Firm to stiff grey sandy gravelly silty CLAY with a low cobble content. Sand is fine to coarse. Gravel is angular to subangular, fine to coarse.		1.05	73.28		AA113618	B	1.50		
2.0										
	Possible weathered rockhead recovered as angular platy COBBLE and GRAVEL sized fragments of medium strength dark grey argillaceous limestone with some brown grey CLAY.		2.50	71.83	1 (Slow)	AA113619	B	2.50		
3.0	End of Trial Pit at 2.90m		2.90	71.43						
4.0										

Groundwater Conditions


Seepage at 2.50mbgl


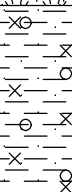

Stability

Stable

General Remarks


Pit terminated at 2.90mbgl on possible rockhead



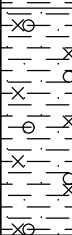
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CONTRACT PPK3 Profile Park							TRIAL PIT NO. TP07 SHEET Sheet 1 of 1		
LOGGED BY S.Cunningham		CO-ORDINATES 703,391.10 E 730,605.62 N				DATE STARTED 04/09/2019 DATE COMPLETED 04/09/2019			
CLIENT ENGINEER PM Group		GROUND LEVEL (m) 74.46				EXCAVATION METHOD 6T JCB			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	TOPSOIL: Soft brown slightly sandy slightly gravelly CLAY. Sand is fine to medium.									
	Firm to stiff grey brown sandy very gravelly silty CLAY with a low cobble content. Sand is fine to coarse. Gravel is angular to subangular, fine to coarse.		0.35	74.11		AA128695	B	0.50		
1.0	Possible weathered rockhead recovered as angular platy COBBLE and GRAVEL sized fragments of medium strength dark grey argillaceous limestone with occasional boulders with some brown grey CLAY.		1.20	73.26		AA128696	B	1.20		
	End of Trial Pit at 1.30m		1.30	73.16						
2.0										
3.0										
4.0										

Groundwater Conditions Dry
Stability Stable
General Remarks Pit terminated at 1.30mbgl on possible rockhead


IGSL TP LOG 22000C.GPJ IGSL_GDT 23/10/19





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CONTRACT PPK3 Profile Park							TRIAL PIT NO. TP08 SHEET Sheet 1 of 1		
LOGGED BY S.Cunningham		CO-ORDINATES 703,419.76 E 730,607.44 N				DATE STARTED 04/09/2019 DATE COMPLETED 04/09/2019			
CLIENT ENGINEER PM Group		GROUND LEVEL (m) 74.21				EXCAVATION METHOD 6T JCB			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	TOPSOIL: Soft brown slightly sandy slightly gravelly CLAY. Sand is fine to medium.									
	Soft to firm light brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse.		0.30	73.91						
	Firm grey brown sandy very gravelly silty CLAY with a medium cobble and low boulder content. Sand is fine to coarse. Gravel is angular to subangular, fine to coarse.		0.60	73.61		AA128697	B	0.60		
1.0										
						AA128698	B	1.40		
1.60	End of Trial Pit at 1.60m		1.60	72.61						
2.0										
3.0										
4.0										

Groundwater Conditions Dry
Stability Stable
General Remarks Pit terminated at 1.60mbgl on possible rockhead


IGSL TP LOG 22000C.GPJ IGSL_GDT 23/10/19





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CONTRACT PPK3 Profile Park						TRIAL PIT NO. TP09 SHEET Sheet 1 of 1			
LOGGED BY S.Cunningham		CO-ORDINATES 703,465.75 E 730,604.98 N				DATE STARTED 04/09/2019 DATE COMPLETED 04/09/2019			
CLIENT ENGINEER PM Group		GROUND LEVEL (m) 74.50				EXCAVATION METHOD 6T JCB			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	TOPSOIL: Soft brown slightly sandy slightly gravelly CLAY. Sand is fine to medium.									
	Firm brown slightly sandy gravelly silty CLAY. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse.		0.40	74.10		AA128699	B	0.60		
1.0	Firm grey brown sandy very gravelly silty CLAY with a medium cobble and low boulder content. Sand is fine to coarse. Gravel is angular to subangular, fine to coarse.		1.05	73.45		AA128700	B	1.30		
	Firm to stiff grey brown very sandy very gravelly silty CLAY with a medium cobble and medium boulder content. Sand is fine to coarse. Gravel is angular to subangular, fine to coarse.		1.50	73.00		AA113616	B	1.70		
2.0	End of Trial Pit at 2.00m		2.00	72.50						
3.0										
4.0										

Groundwater Conditions Dry	
Stability Stable	
General Remarks Pit terminated at 2.00mbgl on possible rockhead	


IGSL TP LOG 22000C.GPJ IGSL.GDT 23/10/19


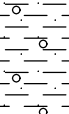

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CONTRACT PPK3 Profile Park							TRIAL PIT NO. TP10 SHEET Sheet 1 of 1		
LOGGED BY S.Cunningham		CO-ORDINATES 703,360.45 E 730,596.48 N				DATE STARTED 04/09/2019 DATE COMPLETED 04/09/2019			
CLIENT ENGINEER PM Group		GROUND LEVEL (m) 74.86				EXCAVATION METHOD 6T JCB			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	TOPSOIL: Soft brown slightly sandy slightly gravelly CLAY. Sand is fine to medium.									
	Soft to firm light brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse.		0.35	74.51						
	Firm to stiff grey sandy very gravelly silty CLAY with a low cobble content. Sand is fine to coarse. Gravel is angular to subangular, fine to coarse.		0.85	74.01		AA128692	B	0.70		
1.0										
	Possible weathered rockhead recovered as angular platy COBBLE and GRAVEL sized fragments of medium strength dark grey argillaceous limestone with occasional boulders with some brown grey CLAY.		2.20	72.66		AA128693	B	1.60		
2.0										
	End of Trial Pit at 2.60m		2.60	72.26		AA128694	B	2.30		
3.0										
4.0										

Groundwater Conditions Dry										
Stability Stable										
General Remarks Pit terminated at 2.60mbgl on possible rockhead										


IGSL TP LOG 22000C.GPJ IGSL_GDT 23/10/19







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CONTRACT PPK3 Profile Park							TRIAL PIT NO. TP11 SHEET Sheet 1 of 1		
LOGGED BY S.Cunningham		CO-ORDINATES 703,387.51 E 730,580.57 N				DATE STARTED 04/09/2019 DATE COMPLETED 04/09/2019			
CLIENT ENGINEER PM Group		GROUND LEVEL (m) 75.11				EXCAVATION METHOD 6T JCB			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	TOPSOIL: Soft brown slightly sandy slightly gravelly CLAY. Sand is fine to medium.									
	Firm brown slightly sandy gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse.		0.35	74.76		AA113628	B	0.50		
1.0	Firm to stiff grey brown slightly sandy gravelly CLAY with a low cobble content. Sand is fine to medium. Gravel is fine to coarse, angular to subangular.		0.90	74.21		AA113629	B	1.20		
	End of Trial Pit at 1.60m		1.60	73.51						
2.0										
3.0										
4.0										

Groundwater Conditions Dry
Stability Stable
General Remarks Pit terminated at 1.60mbgl on possible rockhead































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
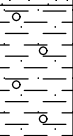



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CONTRACT PPK3 Profile Park							TRIAL PIT NO. TP13 SHEET Sheet 1 of 1		
LOGGED BY S.Cunningham		CO-ORDINATES 703,452.23 E 730,579.85 N				DATE STARTED 04/09/2019 DATE COMPLETED 04/09/2019			
CLIENT ENGINEER PM Group		GROUND LEVEL (m) 74.47				EXCAVATION METHOD 6T JCB			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	TOPSOIL: Soft brown slightly sandy slightly gravelly CLAY. Sand is fine to medium.									
	Firm grey mottled brown slightly sandy slightly gravelly silty CLAY with a low cobble content. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse.		0.40	74.07						
1.0			1.20	73.27		AA113622	B	0.80		
	Firm dark grey very gravelly SILT with a low cobble content. Gravel is angular to subangular, fine to coarse. Cobble consists of weak dark grey/black mudstone/argillaceous limestone.									
2.0			2.10	72.37		AA113623	B	1.70		
	Possible weathered rockhead recovered as angular platy COBBLE and GRAVEL sized fragments of weak dark grey argillaceous limestone with occasional boulders with some grey CLAY.		2.25	72.22		AA113624	B	2.10		
	End of Trial Pit at 2.25m									
3.0										
4.0										


Groundwater Conditions Dry										
Stability Stable										
General Remarks Pit terminated at 2.25mbgl on possible rockhead										




IGSL TP LOG 22000C.GPJ IGSL_GDT 23/10/19

		<h1>TRIAL PIT RECORD</h1>						REPORT NUMBER <h2>22000</h2>	
CONTRACT PPK3 Profile Park							TRIAL PIT NO. TP14 SHEET Sheet 1 of 1		
LOGGED BY S.Cunningham		CO-ORDINATES 703,479.37 E 730,577.90 N				DATE STARTED 04/09/2019 DATE COMPLETED 04/09/2019			
CLIENT ENGINEER PM Group		GROUND LEVEL (m) 75.75				EXCAVATION METHOD 6T JCB			
<div> <div>0.0</div> <div>1.0</div> <div>2.0</div> <div>3.0</div> <div>4.0</div> </div>	<div> <div>MADE GROUND comprised of brown sandy very gravelly CLAY. Sand is fine to coarse. Gravel is subangular to rounded, fine to coarse.</div> <div>Firm to stiff grey brown very sandy very gravelly silty CLAY with a medium cobble and medium boulder content. Sand is fine to coarse. Gravel is angular to subangular, fine to coarse.</div> <div>End of Trial Pit at 3.10m</div> </div>	<div> <div>Legend</div> <div>                              </div></div>							

		TRIAL PIT RECORD						REPORT NUMBER 22000		
CONTRACT PPK3 Profile Park						TRIAL PIT NO. TP16		SHEET Sheet 1 of 1		
LOGGED BY S.Cunningham		CO-ORDINATES 703,379.94 E 730,573.04 N				DATE STARTED 05/09/2019		DATE COMPLETED 06/09/2019		
CLIENT ENGINEER PM Group		GROUND LEVEL (m) 75.24				EXCAVATION METHOD 6T JCB				
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	TOPSOIL: Soft brown slightly sandy slightly gravelly CLAY. Sand is fine to medium.									
	Firm brown slightly sandy gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse.		0.30	74.94		AA113632	B	0.50		
1.0	Firm grey mottled brown/orange slightly sandy slightly gravelly silty CLAY with a low cobble content. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse.		0.95	74.29		AA113633	B	1.00		
	Firm to stiff grey brown slightly sandy gravelly CLAY with a low cobble content. Sand is fine to medium. Gravel is fine to coarse, angular to subangular.		1.15	74.09		AA113634	B	1.60		
2.0	Possible weathered rockhead recovered as angular platy COBBLE and GRAVEL sized fragments of weak dark grey argillaceous limestone with occasional boulders with some grey CLAY.		2.00	73.24		AA113635	B	2.10		
	End of Trial Pit at 2.30m		2.30	72.94						
3.0										
4.0										
Groundwater Conditions Dry										
Stability Stable										
General Remarks Pit terminated at 2.30mbgl on possible rockhead										


IGSL TP LOG 22000C.GPJ IGSL.GDT 23/10/19


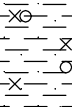
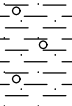
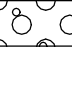
		<h1>TRIAL PIT RECORD</h1>						REPORT NUMBER <h2>22000</h2>	
CONTRACT PPK3 Profile Park						TRIAL PIT NO. TP17 SHEET Sheet 1 of 1			
LOGGED BY S.Cunningham		CO-ORDINATES 703,412.35 E 730,572.38 N				DATE STARTED 05/09/2019 DATE COMPLETED 06/09/2019			
CLIENT ENGINEER PM Group		GROUND LEVEL (m) 75.26				EXCAVATION METHOD 6T JCB			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	TOPSOIL: Soft brown slightly sandy slightly gravelly CLAY. Sand is fine to medium.									
	Firm grey brown slightly sandy slightly gravelly CLAY with a low cobble content. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse.		0.35	74.91		AA113636	B	0.50		
	Firm to stiff grey brown slightly sandy slightly very gravelly CLAY with a medium cobble content. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse.		0.80	74.46						
1.0						AA113637	B	1.40		
	End of Trial Pit at 1.70m		1.70	73.56						
2.0										
3.0										
4.0										

Groundwater Conditions Dry										
Stability Stable										
General Remarks Pit terminated at 1.70mbgl on possible rockhead										


IGSL TP LOG 22000C.GPJ IGSL_GDT 23/10/19


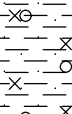


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CONTRACT PPK3 Profile Park						TRIAL PIT NO. TP18		SHEET Sheet 1 of 1	
LOGGED BY S.Cunningham			CO-ORDINATES 703,430.27 E 730,567.43 N			DATE STARTED 05/09/2019 DATE COMPLETED 06/09/2019			
CLIENT ENGINEER PM Group			GROUND LEVEL (m) 75.30			EXCAVATION METHOD 6T JCB			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	TOPSOIL: Soft brown slightly sandy slightly gravelly CLAY. Sand is fine to medium.									
	Firm grey mottled brown/orange slightly sandy slightly gravelly silty CLAY with a low cobble content. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse.		0.40	74.90		AA113638	B	0.60		
1.0	Firm grey brown slightly sandy slightly gravelly CLAY with a low cobble content. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse.		0.90	74.40						
	Possible weathered rockhead recovered as angular platy COBBLE and GRAVEL sized fragments of medium strength dark grey argillaceous limestone with occasional boulders with some grey CLAY.		1.40	73.90		AA113639	B	1.20		
	End of Trial Pit at 1.60m		1.60	73.70						
2.0										
3.0										
4.0										

Groundwater Conditions Dry	
Stability Stable	
General Remarks Pit terminated at 1.60mbgl on possible rockhead	


IGSL TP LOG 22000C.GPJ IGSL.GDT 23/10/19





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CONTRACT PPK3 Profile Park							TRIAL PIT NO. TP19 SHEET Sheet 1 of 1		
LOGGED BY S.Cunningham		CO-ORDINATES 703,454.17 E 730,563.86 N				DATE STARTED 05/09/2019 DATE COMPLETED 06/09/2019			
CLIENT ENGINEER PM Group		GROUND LEVEL (m) 75.54				EXCAVATION METHOD 6T JCB			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	TOPSOIL: Soft brown slightly sandy slightly gravelly CLAY. Sand is fine to medium.									
	Soft to firm grey mottled brown slightly sandy slightly gravelly silty CLAY with a low cobble content. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse.		0.35	75.19		AA113640	B	0.60		
1.0	Firm to stiff grey brown slightly sandy slightly gravelly silty CLAY with a low cobble content. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse.		0.95	74.59		AA113641	B	1.30		
2.0	Possible weathered rockhead recovered as angular platy COBBLE and GRAVEL sized fragments of medium strength dark grey argillaceous limestone with occasional boulders with some grey CLAY.		2.10	73.44						
	End of Trial Pit at 2.50m		2.50	73.04						
3.0										
4.0										

Groundwater Conditions Dry	
Stability Stable	
General Remarks Pit terminated at 2.50mbgl on possible rockhead	


IGSL TP LOG 22000C.GPJ IGSL_GDT 23/10/19







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CONTRACT PPK3 Profile Park							TRIAL PIT NO. TP20 SHEET Sheet 1 of 1		
LOGGED BY S.Hannon		CO-ORDINATES 703,494.01 E 730,526.34 N				DATE STARTED 04/09/2019 DATE COMPLETED 04/09/2019			
CLIENT ENGINEER PM Group		GROUND LEVEL (m) 76.45				EXCAVATION METHOD 7T Excavator			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	TOPSOIL: Soft brown slightly sandy slightly gravelly CLAY. Sand is fine to medium.									
	Firm greyish brown slightly sandy very gravelly silty CLAY with a medium cobble content. Sand is fine to medium. Gravels are angular to subrounded and fine to coarse. Cobbles are subangular to subrounded.		0.30	76.15		AA113600	B	0.60		
1.0	Firm grey black clayey slightly sandy gravelly SILT. Sand is fine to coarse. Gravels are angular to subrounded and fine to coarse. Cobbles are subangular to subrounded.		1.20	75.25		AA118551	B	1.30		
2.0	Firm to stiff grey black clayey slightly sandy gravelly SILT with a medium cobble content. Sand is fine to coarse. Gravels are angular to subrounded and fine to coarse. Cobbles are subangular to subrounded.		1.90	74.55		AA118552	B	2.40		
	End of Trial Pit at 2.80m		2.80	73.65						
3.0										
4.0										

Groundwater Conditions Dry	
Stability Stable	
General Remarks Pit terminated at 2.80mbgl on possible rockhead	




IGSL TP LOG 22000C.GPJ IGSL.GDT 23/10/19

		<h1 style="text-align: center;">TRIAL PIT RECORD</h1>						REPORT NUMBER <div style="font-size: 24pt; text-align: center;">22000</div>	
CONTRACT PPK3 Profile Park							TRIAL PIT NO. TP21 SHEET Sheet 1 of 1		
LOGGED BY S.Hannon		CO-ORDINATES 703,520.86 E 730,526.21 N				DATE STARTED 04/09/2019 DATE COMPLETED 04/09/2019			
CLIENT ENGINEER PM Group		GROUND LEVEL (m) 76.42				EXCAVATION METHOD 7T Excavator			



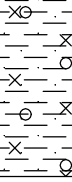
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	TOPSOIL: Soft brown slightly sandy slightly gravelly CLAY. Sand is fine to medium.									
	Soft to firm greyish brown slightly sandy very gravelly silty CLAY with a low cobble content. Gravels are angular to subrounded and fine to coarse. Cobbles are subangular to subrounded.		0.40	76.02		AA118553	B	0.60		
1.0						AA118555	B	1.40		
	Firm to stiff grey black clayey slightly sandy gravelly SILT with a medium cobble content. Sand is fine to coarse. Gravels are angular to subrounded and fine to coarse. Cobbles are subangular to subrounded.		1.60	74.82		AA118556	B	1.80		
2.0										
	End of Trial Pit at 2.60m		2.60	73.82						
3.0										
4.0										

Groundwater Conditions Dry
Stability Stable
General Remarks Pit terminated at 2.60mbgl on possible rockhead

IGSL TP LOG 22000C.GPJ IGSL.GDT 23/10/19

		TRIAL PIT RECORD						REPORT NUMBER 22000		
CONTRACT PPK3 Profile Park						TRIAL PIT NO. TP22		SHEET Sheet 1 of 1		
LOGGED BY S.Hannon		CO-ORDINATES 703,546.16 E 730,526.70 N				DATE STARTED 04/09/2019		DATE COMPLETED 04/09/2019		
CLIENT ENGINEER PM Group		GROUND LEVEL (m) 75.90				EXCAVATION METHOD 7T Excavator				
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	TOPSOIL: Soft brown slightly sandy slightly gravelly CLAY. Sand is fine to medium.									
	Firm greyish brown slightly sandy very gravelly silty CLAY with a low cobble content. Gravels are angular to subrounded and fine to coarse. Cobbles are subangular to subrounded.		0.40	75.50		AA118557	B	0.60		
1.0										
						AA118558	B	1.40		
1.70	End of Trial Pit at 1.70m		1.70	74.20						
2.0										
3.0										
4.0										
Groundwater Conditions Dry										
Stability Stable										
General Remarks Pit terminated at 1.70mbgl on possible rockhead										

IGSL TP LOG 22000C.GPJ IGSL_GDT 23/10/19

		TRIAL PIT RECORD						REPORT NUMBER 22000		
CONTRACT PPK3 Profile Park						TRIAL PIT NO. TP23		SHEET Sheet 1 of 1		
LOGGED BY S.Hannon		CO-ORDINATES 703,572.97 E 730,528.97 N				DATE STARTED 04/09/2019 DATE COMPLETED 04/09/2019				
CLIENT ENGINEER PM Group		GROUND LEVEL (m) 76.10				EXCAVATION METHOD 7T Excavator				
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	TOPSOIL: Soft brown slightly sandy slightly gravelly CLAY. Sand is fine to medium.									
	Firm to stiff brown sandy gravelly silty CLAY. Gravels are angular to subrounded and fine to coarse. Cobbles are subangular to subrounded.		0.40	75.70		AA118559	B	0.60		
1.0	End of Trial Pit at 1.20m		1.20	74.90						
2.0										
3.0										
4.0										
Groundwater Conditions Dry										
Stability Stable										
General Remarks Pit terminated at 1.20mbgl on possible rockhead										



TRIAL PIT RECORD

REPORT NUMBER

22000

CONTRACT PPK3 Profile Park

TRIAL PIT NO. TP24

SHEET 1 of 1

LOGGED BY S.Hannon

CO-ORDINATES	703,594.86 E 730,520.98 N
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DATE STARTED	05/09/2019
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DATE COMPLETED 05/09/2019

CLIENT
ENGINEER PM Group

GROUND LEVEL (m) 76.53

EXCAVATION METHOD	7T Excavator
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[illegible]

Groundwater Conditions


Dry


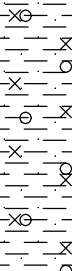
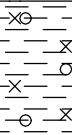
Stability

Stable

General Remarks	
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General Remarks
Pit terminated at 1.80mbql on possible rockhead


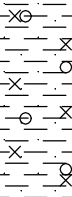
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CONTRACT PPK3 Profile Park							TRIAL PIT NO. TP25 SHEET Sheet 1 of 1		
LOGGED BY S.Hannon		CO-ORDINATES 703,514.47 E 730,496.74 N				DATE STARTED 04/09/2019 DATE COMPLETED 04/09/2019			
CLIENT ENGINEER PM Group		GROUND LEVEL (m) 75.21				EXCAVATION METHOD 7T Excavator			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	TOPSOIL: Soft brown slightly sandy slightly gravelly CLAY. Sand is fine to medium.									
	Firm brown slightly sandy very gravelly silty CLAY with a low cobble content. Gravels are angular to subrounded and fine to coarse. Cobbles are subangular to subrounded.		0.35	74.86		AA118565	B	0.60		
1.0										
	Stiff greyish brown very gravelly silty CLAY with a low cobble content. Gravels are angular to subrounded and fine to coarse. Cobbles are subangular to subrounded.		1.60	73.61		AA118566	B	1.40		
2.0										
	End of Trial Pit at 2.20m		2.20	73.01						
3.0										
4.0										

Groundwater Conditions Dry
Stability Stable
General Remarks Pit terminated at 2.20mbgl on possible rockhead


IGSL TP LOG 22000C.GPJ IGSL.GDT 23/10/19


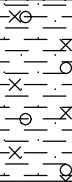
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CONTRACT PPK3 Profile Park							TRIAL PIT NO. TP26 SHEET Sheet 1 of 1		
LOGGED BY S.Hannon		CO-ORDINATES 703,521.98 E 730,495.68 N				DATE STARTED 04/09/2019 DATE COMPLETED 04/09/2019			
CLIENT ENGINEER PM Group		GROUND LEVEL (m) 75.19				EXCAVATION METHOD 7T Excavator			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	TOPSOIL: Soft brown slightly sandy slightly gravelly CLAY. Sand is fine to medium.									
	Firm greyish brown slightly sandy very gravelly silty CLAY with a low cobble and low boulder content. Gravels are angular to subrounded and fine to coarse. Cobbles are subangular to subrounded.		0.40	74.79		AA118564	B	0.60		
1.0										
	End of Trial Pit at 1.30m		1.30	73.89						
2.0										
3.0										
4.0										

Groundwater Conditions Dry										
Stability Stable										
General Remarks Pit terminated at 1.30mbgl on possible rockhead										


IGSL TP LOG 22000C.GPJ IGSL_GDT 23/10/19


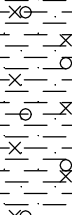

		<h1>TRIAL PIT RECORD</h1>						REPORT NUMBER <h2>22000</h2>	
CONTRACT PPK3 Profile Park						TRIAL PIT NO. TP27 SHEET Sheet 1 of 1			
LOGGED BY S.Hannon		CO-ORDINATES 703,548.43 E 730,491.52 N				DATE STARTED 04/09/2019 DATE COMPLETED 04/09/2019			
CLIENT ENGINEER PM Group		GROUND LEVEL (m) 75.31				EXCAVATION METHOD 7T Excavator			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	TOPSOIL: Soft brown slightly sandy slightly gravelly CLAY. Sand is fine to medium.									
	Firm greyish brown slightly sandy very gravelly silty CLAY with a low cobble content. Gravels are angular to subrounded and fine to coarse. Cobbles are subangular to subrounded.		0.50	74.81		AA118562	B	0.50		
1.0										
	End of Trial Pit at 1.30m		1.30	74.01		AA118563	B	1.30		
2.0										
3.0										
4.0										

Groundwater Conditions Dry
Stability Stable
General Remarks Pit terminated at 1.30mbgl on possible rockhead


IGSL TP LOG 22000C.GPJ IGSL_GDT 23/10/19






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CONTRACT PPK3 Profile Park						TRIAL PIT NO. TP29		SHEET Sheet 1 of 1	
LOGGED BY S.Hannon		CO-ORDINATES 703,590.30 E 730,482.95 N				DATE STARTED 05/09/2019 DATE COMPLETED 05/09/2019		EXCAVATION METHOD 7T Excavator	
CLIENT ENGINEER PM Group		GROUND LEVEL (m) 75.24							

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	TOPSOIL: Soft brown slightly sandy slightly gravelly CLAY. Sand is fine to medium.									
	Firm brown slightly sandy gravelly silty CLAY with a medium cobble content. Gravels are angular to subrounded and fine to coarse. Cobbles are subangular to subrounded.		0.40	74.84		AA118578	B	0.60		
1.0										
	End of Trial Pit at 1.40m		1.40	73.84		AA118579	B	1.40		
2.0										
3.0										
4.0										

Groundwater Conditions Dry	
Stability Stable	
General Remarks Pit terminated at 1.40mbgl on possible rockhead	

IGSL TP LOG 22000C.GPJ IGSL_GDT 23/10/19

		<h1>TRIAL PIT RECORD</h1>						REPORT NUMBER <h2>22000</h2>	
CONTRACT PPK3 Profile Park							TRIAL PIT NO. TP30 SHEET Sheet 1 of 1		
LOGGED BY S.Hannon		CO-ORDINATES 703,509.62 E 730,484.85 N				DATE STARTED 04/09/2019 DATE COMPLETED 04/09/2019			
CLIENT ENGINEER PM Group		GROUND LEVEL (m) 75.39				EXCAVATION METHOD 7T Excavator			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	TOPSOIL: Soft brown slightly sandy slightly gravelly CLAY. Sand is fine to medium.									
	Firm brown slightly sandy very gravelly silty CLAY with a low cobble content. Gravels are angular to subrounded and fine to coarse. Cobbles are subangular to subrounded.		0.40	74.99		AA118568	B	0.60		
1.0	Firm grey slightly sandy very gravelly silty CLAY with a low cobble content. Gravels are angular to subrounded and fine to coarse. Cobbles are subangular to subrounded.		1.20	74.19		AA118569	B	1.40		
	Firm to stiff grey black clayey slightly sandy gravelly silty CLAY with a medium cobble content. Sand is fine to coarse. Gravels are angular to subrounded and fine to coarse. Cobbles are subangular to subrounded.		1.70	73.69						
2.0	End of Trial Pit at 1.90m		1.90	73.49		AA118570	B	1.90		
3.0										
4.0										

Groundwater Conditions Dry
Stability Stable
General Remarks Pit terminated at 1.90mbgl on possible rockhead

IGSL TP LOG 22000C.GPJ IGSL.GDT 23/10/19



TRIAL PIT RECORD

REPORT NUMBER

22000

CONTRACT PPK3 Profile Park

TRIAL PIT NO. TP31

SHEET Sheet 1 of 1

LOGGED BY S.Hannon

CO-ORDINATES 703,528.72 E
730,482.40 N

DATE STARTED 04/09/2019

DATE COMPLETED 04/09/2019

CLIENT
ENGINEER PM Group

GROUND LEVEL (m) 75.48

EXCAVATION
METHOD 7T Excavator

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	TOPSOIL: Soft brown slightly sandy slightly gravelly CLAY. Sand is fine to medium.									
	Firm brown mottled grey/orange slightly sandy very gravelly silty CLAY with a low cobble content. Gravels are angular to subrounded and fine to coarse. Cobbles are subangular to subrounded.		0.40	75.08		AA118571	B	0.70		
1.0	End of Trial Pit at 1.20m		1.20	74.28						
2.0										
3.0										
4.0										

Groundwater Conditions


Dry


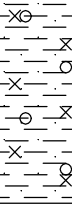
Stability

Stable

General Remarks


Pit terminated at 1.20mbgl on possible rockhead




		<h1>TRIAL PIT RECORD</h1>						REPORT NUMBER <h2>22000</h2>	
CONTRACT PPK3 Profile Park							TRIAL PIT NO. TP32 SHEET Sheet 1 of 1		
LOGGED BY S.Hannon		CO-ORDINATES 703,549.05 E 730,479.26 N				DATE STARTED 05/09/2019 DATE COMPLETED 05/09/2019			
CLIENT ENGINEER PM Group		GROUND LEVEL (m) 75.35				EXCAVATION METHOD 7T Excavator			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	TOPSOIL: Soft brown slightly sandy slightly gravelly CLAY. Sand is fine to medium.									
	Firm brown slightly sandy gravelly silty CLAY with a low cobble content. Gravels are angular to subrounded and fine to coarse. Cobbles are subangular to subrounded.		0.40	74.95		AA118572	B	0.50		
1.0										
	End of Trial Pit at 1.30m		1.30	74.05		AA118573	B	1.20		
2.0										
3.0										
4.0										

Groundwater Conditions Dry
Stability Stable
General Remarks Pit terminated at 1.30mbgl on possible rockhead


IGSL TP LOG 22000C.GPJ IGSL_GDT 23/10/19





		<h1 style="text-align: center;">TRIAL PIT RECORD</h1>						REPORT NUMBER <div style="font-size: 24pt; text-align: center;">22000</div>	
CONTRACT PPK3 Profile Park							TRIAL PIT NO. TP33 SHEET Sheet 1 of 1		
LOGGED BY S.Hannon		CO-ORDINATES 703,573.83 E 730,479.28 N				DATE STARTED 05/09/2019 DATE COMPLETED 05/09/2019			
CLIENT ENGINEER PM Group		GROUND LEVEL (m) 75.31				EXCAVATION METHOD 7T Excavator			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	TOPSOIL: Soft brown slightly sandy slightly gravelly CLAY. Sand is fine to medium.									
	Firm brown slightly sandy gravelly silty CLAY with a low cobble content. Gravels are angular to subrounded and fine to coarse. Cobbles are subangular to subrounded.		0.40	74.91						
	End of Trial Pit at 0.75m		0.75	74.56		AA118574	B	0.60		
1.0										
2.0										
3.0										
4.0										

Groundwater Conditions Dry
Stability Stable
General Remarks Pit terminated at 0.75mbgl on possible rockhead


IGSL TP LOG 22000C.GPJ IGSL_GDT 23/10/19


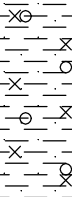
		<h1>TRIAL PIT RECORD</h1>						REPORT NUMBER <h2>22000</h2>	
CONTRACT PPK3 Profile Park							TRIAL PIT NO. TP34 SHEET Sheet 1 of 1		
LOGGED BY S.Hannon		CO-ORDINATES 703,512.17 E 730,456.37 N				DATE STARTED 05/09/2019 DATE COMPLETED 05/09/2019			
CLIENT ENGINEER PM Group		GROUND LEVEL (m) 75.98				EXCAVATION METHOD 7T Excavator			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	TOPSOIL: Soft brown slightly sandy slightly gravelly CLAY. Sand is fine to medium.									
	Firm brown slightly sandy gravelly silty CLAY. Gravels are angular to subrounded and fine to coarse. Cobbles are subangular to subrounded.		0.30	75.68		AA118584	B	0.50		
	Firm grey mottled brown gravelly silty CLAY. Gravels are angular to subrounded and fine to coarse. Cobbles are subangular to subrounded.		0.80	75.18						
1.0						AA118585	B	1.10		
	End of Trial Pit at 1.30m		1.30	74.68						
2.0										
3.0										
4.0										

Groundwater Conditions Dry
Stability Stable
General Remarks Pit terminated at 1.30mbgl on possible rockhead


IGSL TP LOG 22000C.GPJ IGSL_GDT 23/10/19



		<h1>TRIAL PIT RECORD</h1>						REPORT NUMBER <h2>22000</h2>	
CONTRACT PPK3 Profile Park						TRIAL PIT NO. TP35 SHEET Sheet 1 of 1			
LOGGED BY S.Hannon		CO-ORDINATES 703,522.31 E 730,452.58 N				DATE STARTED 05/09/2019 DATE COMPLETED 05/09/2019			
CLIENT ENGINEER PM Group		GROUND LEVEL (m) 76.23				EXCAVATION METHOD 7T Excavator			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	TOPSOIL: Soft brown slightly sandy slightly gravelly CLAY. Sand is fine to medium.									
	Firm to stiff brown slightly sandy gravelly silty CLAY with a medium cobble content. Gravels are angular to subrounded and fine to coarse. Cobbles are subangular to subrounded.		0.40	75.83		AA118580	B	0.60		
1.0	End of Trial Pit at 1.30m		1.30	74.93		AA118581	B	1.30		
2.0										
3.0										
4.0										

Groundwater Conditions Dry										
Stability Stable										
General Remarks Pit terminated at 1.30mbgl on possible rockhead										



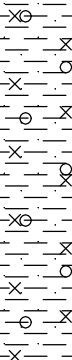
IGSL TP LOG 22000C.GPJ IGSL_GDT 23/10/19


		<h1>TRIAL PIT RECORD</h1>						REPORT NUMBER <h2>22000</h2>	
CONTRACT PPK3 Profile Park						TRIAL PIT NO. TP36 SHEET Sheet 1 of 1			
LOGGED BY S.Hannon		CO-ORDINATES 703,546.80 E 730,449.54 N				DATE STARTED 05/09/2019 DATE COMPLETED 05/09/2019			
CLIENT ENGINEER PM Group		GROUND LEVEL (m) 75.93				EXCAVATION METHOD 7T Excavator			


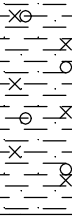
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	TOPSOIL: Soft brown slightly sandy slightly gravelly CLAY. Sand is fine to medium.									
	Firm grey brown slightly sandy gravelly CLAY with a low cobble content. Gravels are angular to subrounded and fine to coarse. Cobbles are subangular to subrounded.		0.50	75.43		AA118582	B	0.60		
1.0										
						AA118583	B	1.30		
1.60	End of Trial Pit at 1.60m		1.60	74.33						
2.0										
3.0										
4.0										

Groundwater Conditions Dry
Stability Stable
General Remarks Pit terminated at 1.60mbgl on possible rockhead

IGSL TP LOG 22000C.GPJ IGSL_GDT 23/10/19

		TRIAL PIT RECORD						REPORT NUMBER 22000		
CONTRACT PPK3 Profile Park						TRIAL PIT NO. TP37		SHEET Sheet 1 of 1		
LOGGED BY S.Hannon		CO-ORDINATES 703,579.97 E 730,447.99 N				DATE STARTED 05/09/2019 DATE COMPLETED 05/09/2019				
CLIENT ENGINEER PM Group		GROUND LEVEL (m) 75.85				EXCAVATION METHOD 7T Excavator				
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	TOPSOIL: Soft brown slightly sandy slightly gravelly CLAY. Sand is fine to medium.									
	Firm to stiff brown slightly sandy gravelly silty CLAY with a medium cobble content. Gravels are angular to subrounded and fine to coarse. Cobbles are subangular to subrounded.		0.40	75.45		AA118586	B	0.50		
1.0						AA118587	B	1.00		
2.0	End of Trial Pit at 2.00m		2.00	73.85						
3.0										
4.0										
Groundwater Conditions Dry										
Stability Stable										
General Remarks Pit terminated at 2.00mbgl on possible rockhead										

		<h1>TRIAL PIT RECORD</h1>						REPORT NUMBER <h2>22000</h2>	
CONTRACT PPK3 Profile Park							TRIAL PIT NO. TP38 SHEET Sheet 1 of 1		
LOGGED BY S.Hannon		CO-ORDINATES 703,601.64 E 730,457.89 N				DATE STARTED 05/09/2019 DATE COMPLETED 06/09/2019			
CLIENT ENGINEER PM Group		GROUND LEVEL (m) 75.74				EXCAVATION METHOD 7T Excavator			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	TOPSOIL: Soft brown slightly sandy slightly gravelly CLAY. Sand is fine to medium.									
	Firm to stiff brown slightly sandy gravelly silty CLAY with a medium cobble content. Gravels are angular to subrounded and fine to coarse. Cobbles are subangular to subrounded.		0.40	75.34		AA118589	B	0.70		
1.0										
	End of Trial Pit at 1.35m		1.35	74.39						
2.0										
3.0										
4.0										

Groundwater Conditions Dry
Stability Stable
General Remarks Pit terminated at 1.35mbgl on possible rockhead

IGSL TP LOG 22000C.GPJ IGSL_GDT 23/10/19



TRIAL PIT RECORD

REPORT NUMBER

22000

CONTRACT PPK3 Profile Park

TRIAL PIT NO. TP40

SHEET Sheet 1 of 1

LOGGED BY S.Cunningham

CO-ORDINATES 703,109.76 E
730,426.72 N

DATE STARTED 28/08/2019

DATE COMPLETED 28/08/2019

CLIENT
ENGINEER PM Group

GROUND LEVEL (m) 79.95

EXCAVATION
METHOD 6T JCB

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	MADE GROUND comprised of compact grey sandy GRAVEL. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse.		0.45	79.50		AA128658	B	0.40		
	Firm to stiff grey brown sandy gravelly silty CLAY with a low cobble content. Sand is fine to coarse. Gravel is angular to subangular, fine to medium. White geotextile sheeting									
1.0						AA128659	B	1.30		
2.0	End of Trial Pit at 1.90m		1.90	78.05						
3.0										
4.0										

Groundwater Conditions


Dry


Stability

Stable

General Remarks


Pit terminated at 1.90mbgl on possible rockhead




		<h1 style="text-align: center;">TRIAL PIT RECORD</h1>						REPORT NUMBER <div style="font-size: 24pt; text-align: center;">22000</div>	
CONTRACT PPK3 Profile Park							TRIAL PIT NO. TP41 SHEET Sheet 1 of 1		
LOGGED BY S.Cunningham		CO-ORDINATES 703,066.57 E 730,426.13 N				DATE STARTED 28/08/2019 DATE COMPLETED 28/08/2019			
CLIENT ENGINEER PM Group		GROUND LEVEL (m) 79.67				EXCAVATION METHOD 6T JCB			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	MADE GROUND comprised of compact grey sandy GRAVEL. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse.									
	MADE GROUND comprised of compact grey sandy clayey GRAVEL with occasional wood and plastic fragments. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse.		0.45	79.22		AA128651	B	0.30		
	Rebar at 0.45mbgl		0.70	78.97		AA128652	B	0.50		
1.0	Firm brown sandy gravelly CLAY with a low cobble content. Sand is fine to coarse. Gravel is angular to subangular, fine to medium.					AA128653	B	1.00		
	End of Trial Pit at 1.40m		1.40	78.27						
2.0										
3.0										
4.0										

Groundwater Conditions Dry	
Stability Stable	
General Remarks Pit terminated at 1.40mbgl on possible rockhead	


IGSL TP LOG 22000C.GPJ IGSL.GDT 23/10/19




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CONTRACT PPK3 Profile Park							TRIAL PIT NO. TP42 SHEET Sheet 1 of 1		
LOGGED BY S.Cunningham		CO-ORDINATES 703,094.39 E 730,401.33 N				DATE STARTED 28/08/2019 DATE COMPLETED 28/08/2019			
CLIENT ENGINEER PM Group		GROUND LEVEL (m) 80.90				EXCAVATION METHOD 6T JCB			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	MADE GROUND comprised of compact grey sandy GRAVEL. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse.									
	Firm to stiff grey brown sandy gravelly silty CLAY with medium cobble content and occasional boulders. Sand is fine to coarse. Gravel is angular to subangular, fine to medium.		0.40	80.50		AA128656	B	0.30		
1.0			1.10	79.80		AA128657	B	0.90		
	End of Trial Pit at 1.10m									
2.0										
3.0										
4.0										

Groundwater Conditions Dry
Stability Stable
General Remarks Pit terminated at 1.10mbgl on possible rockhead

IGSL TP LOG 22000C.GPJ IGSL_GDT 23/10/19

		<h1>TRIAL PIT RECORD</h1>						REPORT NUMBER <h2>22000</h2>	
CONTRACT PPK3 Profile Park						TRIAL PIT NO. TP43 SHEET Sheet 1 of 1			
LOGGED BY S.Cunningham		CO-ORDINATES 703,057.10 E 730,392.77 N				DATE STARTED 28/08/2019 DATE COMPLETED 28/08/2019			
CLIENT ENGINEER PM Group		GROUND LEVEL (m) 80.89				EXCAVATION METHOD 6T JCB			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	MADE GROUND comprised of compact grey sandy GRAVEL. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse.									
	Firm brown slightly sandy gravelly silty CLAY with a medium cobble and a low boulder content. Sand is fine to coarse. Gravel is angular to subangular, fine to medium. Cobbles and boulders are tabular and platy of argillaceous limestone.		0.30	80.59		AA123699	B	0.20		
	Possible highly weathered rockhead recovered as angular COBBLE and GRAVEL sized fragments of medium strength grey argillaceous limestone with some brown grey CLAY.		0.80	80.09		AA123700	B	0.60		
1.0	Possible highly weathered rockhead recovered as angular COBBLE and GRAVEL sized fragments of medium strength grey argillaceous limestone with some brown grey CLAY.		0.90	79.99						
	End of Trial Pit at 0.90m									
2.0										
3.0										
4.0										

Groundwater Conditions Dry
Stability Stable
General Remarks Pit terminated at 0.90mbgl on possible rockhead



TRIAL PIT RECORD

REPORT NUMBER

22000

CONTRACT PPK3 Profile Park

TRIAL PIT NO. TP44

SHEET Sheet 1 of 1

LOGGED BY S.Cunningham

CO-ORDINATES 703,073.77 E
730,376.09 N

DATE STARTED 28/08/2019

DATE COMPLETED 28/08/2019

CLIENT
ENGINEER PM Group

GROUND LEVEL (m) 81.25

EXCAVATION
METHOD 6T JCB

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	MADE GROUND comprised of compact grey sandy GRAVEL. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse.		0.35	80.90		AA123697	B	0.20		
	Firm brown slightly sandy gravelly silty CLAY with a medium cobble and a low boulder content. Sand is fine to coarse. Gravel is angular to subangular, fine to medium. Cobbles and boulders are tabular and platy of argillaceous limestone.					AA123698	B	0.60		
1.0	End of Trial Pit at 1.20m		1.20	80.05						
2.0										
3.0										
4.0										

Groundwater Conditions


Dry


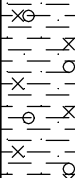
Stability

Stable

General Remarks

Pit terminated at 1.20mbgl on possible rockhead

		<h1>TRIAL PIT RECORD</h1>						REPORT NUMBER <h2>22000</h2>	
CONTRACT PPK3 Profile Park							TRIAL PIT NO. TP46 SHEET Sheet 1 of 1		
LOGGED BY S.Cunningham		CO-ORDINATES 703,169.44 E 730,404.61 N				DATE STARTED 29/08/2019 DATE COMPLETED 29/08/2019			
CLIENT ENGINEER PM Group		GROUND LEVEL (m) 81.47				EXCAVATION METHOD 6T JCB			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	MADE GROUND comprised of compact grey sandy cobbly GRAVEL. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse.									
						AA128663	B	0.50		
1.0	Firm grey brown sandy gravelly silty CLAY with a medium cobble content. Sand is fine to coarse. Gravel is angular to subangular, fine to medium. White geotextile sheeting		0.80	80.67						
						AA128664	B	1.20		
	End of Trial Pit at 1.60m		1.60	79.87						
2.0										
3.0										
4.0										

Groundwater Conditions Dry
Stability Stable
General Remarks Pit terminated at 1.60mbgl on possible rockhead

IGSL TP LOG 22000C.GPJ IGSL_GDT 23/10/19



TRIAL PIT RECORD

REPORT NUMBER

22000

CONTRACT PPK3 Profile Park

TRIAL PIT NO. TP47

SHEET Sheet 1 of 1

LOGGED BY S.Cunningham

CO-ORDINATES 703,143.86 E
730,390.72 N

DATE STARTED 29/08/2019

DATE COMPLETED 29/08/2019

CLIENT
ENGINEER PM Group

GROUND LEVEL (m) 81.70

EXCAVATION
METHOD 6T JCB

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	MADE GROUND comprised of compact grey sandy cobbly GRAVEL. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse.									
			0.90	80.80		AA128665	B	0.70		
1.0	Firm to stiff grey brown sandy gravelly silty CLAY with a medium cobble content. Sand is fine to coarse. Gravel is angular to subangular, fine to medium.									
			1.80	79.90		AA128666	B	1.40		
2.0	Stiff grey brown sandy gravelly silty CLAY with a medium cobble and a low boulder content. Sand is fine to coarse. Gravel is fine to coarse, subangular to subrounded. Cobbles are angular of medium strength grey argillaceous limestone. End of Trial Pit at 2.00m		2.00	79.70						
3.0										
4.0										

Groundwater Conditions


Dry


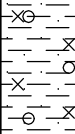
Stability

Minor Spalling in MADE GROUND


General Remarks



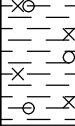
Pit terminated at 2.0mbgl on possible rockhead

		<h1>TRIAL PIT RECORD</h1>						REPORT NUMBER <div>22000</div>	
CONTRACT PPK3 Profile Park							TRIAL PIT NO. TP48 SHEET Sheet 1 of 1		
LOGGED BY S.Cunningham		CO-ORDINATES 703,125.78 E 730,355.65 N				DATE STARTED 29/08/2019 DATE COMPLETED 29/08/2019			
CLIENT ENGINEER PM Group		GROUND LEVEL (m) 81.94				EXCAVATION METHOD 6T JCB			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	MADE GROUND comprised of compact grey sandy cobbly GRAVEL. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse.									
	Firm brown slightly sandy gravelly silty CLAY with a low cobble content. Sand is fine to coarse. Gravel is angular to subangular, fine to medium.		0.60	81.34		AA128665	B	0.50		
1.0	End of Trial Pit at 1.25m		1.25	80.69		AA128666	B	1.20		
2.0										
3.0										
4.0										


Groundwater Conditions Dry										
Stability Minor Spalling in MADE GROUND										
General Remarks Pit terminated at 1.25mbgl on possible rockhead										


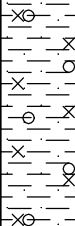
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CONTRACT PPK3 Profile Park						TRIAL PIT NO. TP49		
LOGGED BY S.Cunningham						SHEET Sheet 1 of 1		
CO-ORDINATES 703,111.64 E 730,328.95 N						DATE STARTED 27/08/2019 DATE COMPLETED 27/08/2019		
CLIENT ENGINEER PM Group						GROUND LEVEL (m) 82.54 EXCAVATION METHOD 6T JCB		

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	MADE GROUND comprised of compact grey sandy clayey GRAVEL with occasional wood and plastic fragments. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse.									
	Soft to firm reddish brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse.		0.40	82.14						
	Grey brown slightly sandy slightly gravelly silty CLAY with a low cobble content and rare boulders. Sand is fine to coarse. Gravel is fine to coarse, subangular to subrounded. Cobbles are angular of medium strength grey argillaceous limestone. Boulders are tabular of limestone.		0.70	81.84		AA123695	B	0.60		
1.0										
			1.30	81.24		AA123696	B	1.00		
	End of Trial Pit at 1.30m									
2.0										
3.0										
4.0										

Groundwater Conditions Dry
Stability Stable
General Remarks Pit terminated at 1.30mbgl on possible rockhead


IGSL TP LOG 22000C.GPJ IGSL_GDT 23/10/19





		<h1 style="text-align: center;">TRIAL PIT RECORD</h1>						REPORT NUMBER <div style="font-size: 24pt; text-align: center;">22000</div>	
CONTRACT PPK3 Profile Park							TRIAL PIT NO. TP51 SHEET Sheet 1 of 1		
LOGGED BY S.Cunningham		CO-ORDINATES 703,219.61 E 730,367.63 N				DATE STARTED 29/08/2019 DATE COMPLETED 29/08/2019			
CLIENT ENGINEER PM Group		GROUND LEVEL (m) 81.61				EXCAVATION METHOD 6T JCB			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	MADE GROUND comprised of compact grey very sandy cobbly GRAVEL. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse.		0.35	81.26		AA128675	B	0.30		
	Firm to stiff grey brown sandy gravelly silty CLAY with a medium cobble content. Sand is fine to coarse. Gravel is angular to subangular, fine to coarse.					AA128676	B	0.90		
1.0										
	End of Trial Pit at 1.40m		1.40	80.21						
2.0										
3.0										
4.0										

Groundwater Conditions Dry										
Stability Stable										
General Remarks Pit terminated at 1.40mbgl on possible rockhead										


IGSL TP LOG 22000C.GPJ IGSL_GDT 23/10/19


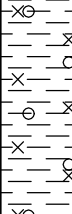


		<h1>TRIAL PIT RECORD</h1>						REPORT NUMBER <h2>22000</h2>	
CONTRACT PPK3 Profile Park							TRIAL PIT NO. TP53 SHEET Sheet 1 of 1		
LOGGED BY S.Cunningham		CO-ORDINATES 703,285.15 E 730,326.87 N					DATE STARTED 15/08/2019 DATE COMPLETED 15/08/2019		
CLIENT ENGINEER PM Group		GROUND LEVEL (m) 81.30					EXCAVATION METHOD 6T JCB		

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	MADE GROUND comprised of compact grey sandy GRAVEL with a low cobble content. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse. (Compact - Car park surface)									
	Soft to firm brown sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is angular to subangular, fine to medium.		0.50	80.80		AA113643	B	0.40		
	White geotextile sheeting		0.70	80.60						
1.0	Firm grey brown slightly sandy gravelly silty CLAY with medium cobble and occasional boulder content. Sand is fine to coarse. Gravel is angular to subangular, fine to medium. Cobbles and boulders are angular to subangular platy and tabular of argillaceous limestone and shale.					AA113644	B	1.20		
2.0	End of Trial Pit at 2.10m		2.10	79.20						
3.0										
4.0										

Groundwater Conditions Dry
Stability Good
General Remarks Pit terminated at 2.10mbgl on possible rockhead.


IGSL TP LOG 22000C.GPJ IGSL.GDT 23/10/19



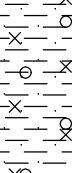
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CONTRACT PPK3 Profile Park						TRIAL PIT NO. TP54 SHEET Sheet 1 of 1			
LOGGED BY S.Cunningham		CO-ORDINATES 703,311.84 E 730,321.89 N				DATE STARTED 15/08/2019 DATE COMPLETED 15/08/2019			
CLIENT ENGINEER PM Group		GROUND LEVEL (m) 80.97				EXCAVATION METHOD 6T JCB			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	MADE GROUND comprised of dense grey sandy GRAVEL with a low cobble content. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse. (Compact - Car park surface)									
	Firm grey brown slightly sandy gravelly silty CLAY with medium cobble and occasional boulder content. Sand is fine to coarse. Gravel is angular to subangular, fine to medium. Cobbles and boulders are angular to subangular platy and tabular of argillaceous limestone and shale.		0.45	80.52		AA123621	B	0.30		
1.0	White geotextile sheeting									
	End of Trial Pit at 1.45m		1.45	79.52						
2.0										
3.0										
4.0										

Groundwater Conditions Dry
Stability Good
General Remarks Pit terminated at 1.45mbgl on possible rock head.


IGSL TP LOG 22000C.GPJ IGSL_GDT 23/10/19


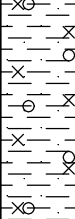
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CONTRACT PPK3 Profile Park						TRIAL PIT NO. TP55 SHEET Sheet 1 of 1			
LOGGED BY S.Cunningham		CO-ORDINATES 703,213.49 E 730,335.21 N				DATE STARTED 29/08/2019 DATE COMPLETED 29/08/2019			
CLIENT ENGINEER PM Group		GROUND LEVEL (m) 81.97				EXCAVATION METHOD 6T JCB			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	MADE GROUND comprised of compact grey very gravelly clayey SAND. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse.									
	MADE GROUND comprised of compact blueish grey very sandy cobbly GRAVEL. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse.		0.40	81.57		AA128667	B	0.20		
	Firm brown slightly sandy gravelly silty CLAY with a low cobble content. Sand is fine to coarse. Gravel is angular to subangular, fine to medium.		0.60	81.37		AA128668	B	0.50		
1.0						AA128669	B	1.00		
	End of Trial Pit at 1.60m		1.60	80.37						
2.0										
3.0										
4.0										

Groundwater Conditions Dry										
Stability Stable										
General Remarks Pit terminated at 1.60mbgl on possible rockhead										


IGSL TP LOG 22000C.GPJ IGSL_GDT 23/10/19




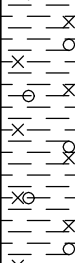

		<h1>TRIAL PIT RECORD</h1>						REPORT NUMBER <h2>22000</h2>	
CONTRACT PPK3 Profile Park							TRIAL PIT NO. TP56 SHEET Sheet 1 of 1		
LOGGED BY S.Cunningham		CO-ORDINATES 703,241.33 E 730,329.17 N				DATE STARTED 29/08/2019 DATE COMPLETED 29/08/2019			
CLIENT ENGINEER PM Group		GROUND LEVEL (m) 81.79				EXCAVATION METHOD 6T JCB			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	MADE GROUND comprised of compact grey very sandy cobbly GRAVEL. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse. Firm brown slightly sandy gravelly silty CLAY with a low cobble content. Sand is fine to coarse. Gravel is angular to subangular, fine to medium.	 	0.25	81.54		AA128670	B	0.20		
						AA128671	B	0.60		
1.0			1.30	80.49						
End of Trial Pit at 1.30m										
2.0										
3.0										
4.0										

Groundwater Conditions Dry										
Stability Stable										
General Remarks Pit terminated at 1.30mbgl on possible rockhead										


IGSL TP LOG 22000C.GPJ IGSL_GDT 23/10/19


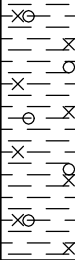

		<h1>TRIAL PIT RECORD</h1>						REPORT NUMBER <h2>22000</h2>	
CONTRACT PPK3 Profile Park							TRIAL PIT NO. TP57 SHEET Sheet 1 of 1		
LOGGED BY S.Cunningham		CO-ORDINATES 703,273.51 E 730,314.97 N					DATE STARTED 14/08/2019 DATE COMPLETED 14/08/2019		
CLIENT ENGINEER PM Group		GROUND LEVEL (m) 81.57					EXCAVATION METHOD 6T JCB		

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	MADE GROUND comprised of compact grey sandy GRAVEL with a low cobble content. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse. (Compact - Car park surface)		0.30	81.27		AA123651	B	0.20		
	Soft brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse.		0.80	80.77		AA123652	B	0.50		
	White geotextile sheeting									
1.0	Firm grey brown slightly sandy gravelly silty CLAY with medium cobble and occasional boulder content. Sand is fine to coarse. Gravel is angular to subangular, fine to medium. Cobbles and boulders are angular to subangular platy and tabular of argillaceous limestone.					AA123653	B	1.00		
2.0	End of Trial Pit at 2.10m		2.10	79.47		AA123654	B	1.80		
3.0										
4.0										


Groundwater Conditions Dry	
Stability Good	
General Remarks Pit terminated at 2.10mbgl on possible rockhead.	

IGSL TP LOG 22000C.GPJ IGSL.GDT 23/10/19

		<h1 style="text-align: center;">TRIAL PIT RECORD</h1>						REPORT NUMBER <div style="font-size: 24pt; text-align: center;">22000</div>	
CONTRACT PPK3 Profile Park							TRIAL PIT NO. TP58 SHEET Sheet 1 of 1		
LOGGED BY S.Cunningham		CO-ORDINATES 703,301.28 E 730,298.05 N				DATE STARTED 15/08/2019 DATE COMPLETED 15/08/2019			
CLIENT ENGINEER PM Group		GROUND LEVEL (m) 81.79				EXCAVATION METHOD 6T JCB			


	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	MADE GROUND comprised of compact grey sandy GRAVEL with a low cobble content. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse. (Compact - Car park surface)									
	Firm grey brown slightly sandy gravelly silty CLAY with medium cobble and occasional boulder content. Sand is fine to coarse. Gravel is angular to subangular, fine to medium. Cobbles and boulders are angular to subangular platy and tabular of argillaceous limestone and shale.		0.40	81.39		AA113646	B	0.30		
1.0	White geotextile sheeting									
	End of Trial Pit at 1.50m		1.55	80.24		AA113645	B	1.20		
2.0										
3.0										
4.0										



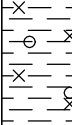
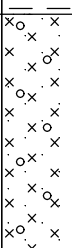

Groundwater Conditions Dry										
Stability Good										
General Remarks Pit terminated at 1.5mbgl due to the presence of large boulders/rock head.										

		<h1 style="text-align: center;">TRIAL PIT RECORD</h1>						REPORT NUMBER <div style="font-size: 24pt; text-align: center;">22000</div>	
CONTRACT PPK3 Profile Park							TRIAL PIT NO. TP59 SHEET Sheet 1 of 1		
LOGGED BY S.Cunningham		CO-ORDINATES 703,198.85 E 730,319.79 N				DATE STARTED 27/08/2019 DATE COMPLETED 27/08/2019			
CLIENT ENGINEER PM Group		GROUND LEVEL (m) 82.16				EXCAVATION METHOD 6T JCB			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	TOPSOIL: Soft brown slightly sandy slightly gravelly CLAY. Sand is fine to medium.									
	Firm grey brown mottled orange sandy gravelly silty CLAY with occasional boulders of limestone and a low cobble content. Sand is fine to coarse. Gravel is angular to subangular, fine to medium.		0.30	81.86		AA123692	B	0.60		
1.0										
	Stiff grey brown sandy very gravelly silty CLAY with a medium cobble and a low boulder content. Sand is fine to coarse. Gravel is fine to coarse, subangular to subrounded. Cobbles are angular of medium strength grey argillaceous limestone. Boulders are tabular of limestone.		1.75	80.41		AA123693	B	1.40		
2.0										
	Possible rockhead recovered as angular COBBLE and GRAVEL sized fragments of weak platy grey argillaceous limestone.		2.50	79.66						
	End of Trial Pit at 2.90m		2.60	79.56		AA123694	B	2.70		
3.0										
4.0										

Groundwater Conditions Dry	
Stability Stable	
General Remarks Pit terminated at 2.90mbgl on possible rockhead	

		<h1 style="text-align: center;">TRIAL PIT RECORD</h1>						REPORT NUMBER <h2 style="text-align: center;">22000</h2>	
CONTRACT PPK3 Profile Park						TRIAL PIT NO. TP60 SHEET Sheet 1 of 1			
LOGGED BY S.Cunningham		CO-ORDINATES 703,231.58 E 730,312.52 N				DATE STARTED 27/08/2019 DATE COMPLETED 27/08/2019			
CLIENT ENGINEER PM Group		GROUND LEVEL (m) 81.90				EXCAVATION METHOD 6T JCB			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	MADE GROUND comprised of brown very sandy very gravelly CLAY. Sand is fine to coarse. Gravel is angular to subangular, fine to medium.		0.15	81.75						
	Firm reddish brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse.		0.35	81.55		AA123688	B	0.20		
	Grey brown slightly sandy slightly gravelly silty CLAY with a low cobble content and rare boulders. Sand is fine to coarse. Gravel is fine to coarse, subangular to subrounded. Cobbles are angular of medium strength grey argillaceous limestone. Boulders are tabular of limestone.					AA123689	B	0.70		
1.0	Firm to stiff grey brown mottled orange slightly sandy slightly gravelly SILT with low cobble content. Sand is fine to medium. Gravel is angular to subangular, fine to medium.		1.30	80.60						
						AA123690	B	1.70		
2.0										
	Possible rockhead recovered as angular COBBLE and GRAVEL sized fragments of medium strength grey argillaceous limestone.		2.40	79.50						
	End of Trial Pit at 2.60m		2.60	79.30		AA123691	B	2.50		
3.0										
4.0										

Groundwater Conditions Dry
Stability Stable
General Remarks Pit terminated at 2.60mbgl due to the presence of large boulders/possible rock head.

IGSL TP LOG 22000C.GPJ IGSL.GDT 23/10/19



TRIAL PIT RECORD

REPORT NUMBER

22000

CONTRACT PPK3 Profile Park

TRIAL PIT NO. TP61

SHEET Sheet 1 of 1

LOGGED BY S.Cunningham

CO-ORDINATES 703,260.90 E
730,287.72 N

DATE STARTED 14/08/2019

DATE COMPLETED 14/08/2019

CLIENT
ENGINEER PM Group

GROUND LEVEL (m) 82.17

EXCAVATION
METHOD 6T JCB

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	MADE GROUND comprised of compact grey sandy GRAVEL with a low cobble content. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse. (Compact - Car park surface)		0.30	81.87		AA123610	B	0.20		
	Soft brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse.		0.65	81.52		AA123611	B	0.40		
	White geotextile sheeting									
1.0	Firm grey brown slightly sandy gravelly silty CLAY with medium cobble and occasional boulder content. Sand is fine to coarse. Gravel is angular to subangular, fine to medium. Cobbles and boulders are angular to subangular platy and tabular of argillaceous limestone.					AA123612	B	1.10		
	End of Trial Pit at 1.80m		1.80	80.37						
2.0										
3.0										
4.0										

Groundwater Conditions






Dry



Stability


Good


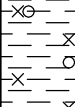
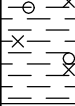
General Remarks

Pit terminated at 1.80mbgl on possible rockhead.

		TRIAL PIT RECORD						REPORT NUMBER 22000		
CONTRACT PPK3 Profile Park						TRIAL PIT NO. TP62		SHEET Sheet 1 of 1		
LOGGED BY S.Cunningham		CO-ORDINATES 703,289.86 E 730,273.69 N				DATE STARTED 15/08/2019		DATE COMPLETED 15/08/2019		
CLIENT ENGINEER PM Group		GROUND LEVEL (m) 82.11				EXCAVATION METHOD 6T JCB				
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	MADE GROUND comprised of compact grey sandy GRAVEL with a low cobble content. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse. (Compact - Car park surface)									
	Firm grey brown slightly sandy gravelly silty CLAY with medium cobble and low boulder content. Sand is fine to coarse. Gravel is angular to subangular, fine to medium. Cobbles and boulders are angular to subangular platy and tabular of argillaceous limestone		0.40	81.71		AA123616	B	0.40		
1.0	White geotextile sheeting									
	End of Trial Pit at 1.50m		1.50	80.61						
2.0										
3.0										
4.0										
Groundwater Conditions Dry										
Stability Good										
General Remarks Pit terminated at 1.5mbgl on possible rockhead.										



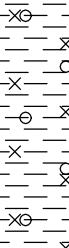
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CONTRACT PPK3 Profile Park						TRIAL PIT NO. TP63 SHEET Sheet 1 of 1				
LOGGED BY S.Cunningham		CO-ORDINATES 703,193.48 E 730,290.10 N				DATE STARTED 15/08/2019 DATE COMPLETED 15/08/2019				
CLIENT ENGINEER PM Group		GROUND LEVEL (m) 83.05				EXCAVATION METHOD 6T JCB				
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	TOPSOIL: MADE GROUND comprised of soft brown mottled grey slightly sandy slightly gravelly CLAY with plastic fragments.									
	Firm grey brown slightly sandy gravelly silty CLAY with medium cobble and occasional boulder content. Sand is fine to coarse. Gravel is angular to subangular, fine to medium. Cobbles and boulders are angular to subangular platy and tabular of argillaceous limestone and shale.		0.40	82.65		AA123623	B	0.30		
1.0	End of Trial Pit at 1.10m		1.10	81.95		AA123624	B	0.90		
2.0										
3.0										
4.0										
Groundwater Conditions Dry										
Stability Good										
General Remarks Pit terminated at 1.1mbgl due to the presence of large boulders/rock head.										

		<h1 style="text-align: center;">TRIAL PIT RECORD</h1>						REPORT NUMBER <div style="font-size: 24pt; text-align: center;">22000</div>	
CONTRACT PPK3 Profile Park							TRIAL PIT NO. TP64 SHEET Sheet 1 of 1		
LOGGED BY S.Cunningham		CO-ORDINATES 703,209.08 E 730,285.74 N				DATE STARTED 27/08/2019 DATE COMPLETED 27/08/2019			
CLIENT ENGINEER PM Group		GROUND LEVEL (m) 82.73				EXCAVATION METHOD 6T JCB			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	MADE GROUND comprised of compact grey sandy silty GRAVEL with a low cobble content. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse. MADE GROUND comprised of grey subangular to subrounded COBBLE. Firm to stiff brown grey slightly sandy gravelly silty CLAY with medium cobble and low boulder content. Sand is fine to coarse. Gravel is angular to subangular, fine to medium. Cobbles and boulders are angular to subangular platy and tabular of argillaceous limestone.	  	0.30	82.43		AA123686	B	0.30		
0.45			82.28							
1.0						AA123887	B	1.00		
	End of Trial Pit at 1.40m		1.40	81.33						
2.0										
3.0										
4.0										

Groundwater Conditions Dry										
Stability Stable										
General Remarks Pit terminated at 1.40mbgl on possible rockhead										

IGSL TP LOG 22000C.GPJ IGSL_GDT 23/10/19


 <div> <div>TRIAL PIT RECORD</div> <div>REPORT NUMBER 22000</div> </div>										
CONTRACT PPK3 Profile Park						TRIAL PIT NO. TP65 SHEET Sheet 1 of 1				
LOGGED BY S.Cunningham		CO-ORDINATES 703,251.11 E 730,260.36 N				DATE STARTED 14/08/2019 DATE COMPLETED 14/08/2019				
CLIENT ENGINEER PM Group		GROUND LEVEL (m) 82.52				EXCAVATION METHOD 6T JCB				
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	TOPSOIL: Soft brown slightly sandy slightly gravelly CLAY. Sand is fine to medium.									
	Firm grey brown slightly sandy gravelly silty CLAY with medium cobble and occasional boulder content. Sand is fine to coarse. Gravel is angular to subangular, fine to medium. Cobbles and boulders are angular to subangular platy and tabular of argillaceous limestone.		0.35	82.17		AA123608	B	0.70		
1.0						AA123609	B	1.30		
	End of Trial Pit at 1.50m		1.50	81.02						
2.0										
3.0										
4.0										


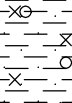
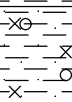

IGSL TP LOG 22000C.GPJ IGSL_GDT 23/10/19

Groundwater Conditions
 Dry

Stability
 Good


General Remarks
 Pit terminated at 1.5mbgl on possible rockhead.





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CONTRACT PPK3 Profile Park							TRIAL PIT NO. TP66 SHEET Sheet 1 of 1		
LOGGED BY S.Cunningham		CO-ORDINATES 703,275.99 E 730,249.30 N				DATE STARTED 14/08/2019 DATE COMPLETED 14/08/2019			
CLIENT ENGINEER PM Group		GROUND LEVEL (m) 82.31				EXCAVATION METHOD 6T JCB			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	TOPSOIL: Soft brown slightly sandy slightly gravelly CLAY with occasional rootlets. Sand is fine to medium.									
	Firm grey / brown grey silty sandy very gravelly CLAY with low cobble content. Sand is fine to coarse. Gravel is angular to subangular, fine to medium platy of limestone.		0.35	81.96		AA123601	B	0.50		
1.0	Firm grey silty sandy very gravelly CLAY with high cobble and low boulder content. Sand is fine to coarse. Gravel is fine to coarse, angular to subrounded of limestone.		0.95	81.36						
	Possible rockhead recovered as angular COBBLE sized fragments of medium strength grey argillaceous limestone to mudstone.		1.70	80.61						
2.0	End of Trial Pit at 1.80m		1.80	80.51						
3.0										
4.0										

Groundwater Conditions Dry
Stability Good
General Remarks Pit terminated at 1.80mbgl on possible rockhead.


IGSL TP LOG 22000C.GPJ IGSL.GDT 23/10/19


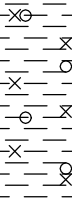

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CONTRACT PPK3 Profile Park							TRIAL PIT NO. TP67 SHEET Sheet 1 of 1		
LOGGED BY S.Cunningham		CO-ORDINATES 703,178.66 E 730,270.49 N				DATE STARTED 27/08/2019 DATE COMPLETED 27/08/2019			
CLIENT ENGINEER PM Group		GROUND LEVEL (m) 82.85				EXCAVATION METHOD 6T JCB			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	<p>MADE GROUND comprised of compact grey sandy GRAVEL with a low cobble content and plastic and wire fragments. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse. (Compact - Car park surface)</p> <p>MADE GROUND comprised of gravelly silty SAND. Sand is fine. Gravel is rounded, fine to coarse.</p> <p>Soft to firm reddish brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse.</p> <p>Possible highly weathered rockhead recovered as angular COBBLE and GRAVEL sized fragments of medium strength grey argillaceous limestone with some brown grey CLAY.</p> <p>End of Trial Pit at 1.50m</p>	   	0.25	82.60		AA123683	B	0.20		
0.30			82.55							
1.0										
1.30			81.55							
			1.50	81.35		AA123685	B	1.40		
2.0										
3.0										
4.0										

Groundwater Conditions Dry										
Stability Stable										
General Remarks Pit terminated at 1.5mbgl on possible rockhead										


IGSL TP LOG 22000C.GPJ IGSL_GDT 23/10/19



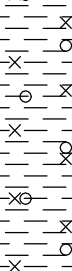
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CONTRACT PPK3 Profile Park						TRIAL PIT NO. TP68 SHEET Sheet 1 of 1			
LOGGED BY S.Cunningham		CO-ORDINATES 703,187.02 E 730,253.39 N				DATE STARTED 27/08/2019 DATE COMPLETED 27/08/2019			
CLIENT ENGINEER PM Group		GROUND LEVEL (m) 82.59				EXCAVATION METHOD 6T JCB			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	TOPSOIL: Soft brown slightly sandy slightly gravelly CLAY. Sand is fine to medium.									
	Firm brown slightly sandy gravelly silty CLAY with a medium cobble and a low boulder content. Sand is fine to coarse. Gravel is angular to subangular, fine to medium. Cobbles and boulders are tabular and platy of argillaceous limestone.		0.30	82.29		AA123681	B	0.50		
1.0	Possible rockhead recovered as angular COBBLE and GRAVEL sized fragments of medium strength grey argillaceous limestone.		1.30	81.29		AA123682	B	1.30		
	End of Trial Pit at 1.40m		1.40	81.19						
2.0										
3.0										
4.0										

Groundwater Conditions Dry
Stability Stable
General Remarks Pit terminated at 1.4mbgl due to the presence of large boulders/possible rock head.


IGSL TP LOG 22000C.GPJ IGSL_GDT 23/10/19





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CONTRACT PPK3 Profile Park						TRIAL PIT NO. TP69 SHEET Sheet 1 of 1			
LOGGED BY S.Cunningham		CO-ORDINATES 703,237.59 E 730,238.77 N				DATE STARTED 14/08/2019 DATE COMPLETED 14/08/2019			
CLIENT ENGINEER PM Group		GROUND LEVEL (m) 82.21				EXCAVATION METHOD 6T JCB			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	TOPSOIL: Soft brown slightly sandy slightly gravelly CLAY with occasional rootlets. Sand is fine to medium.									
	Soft to firm brown sandy slightly gravelly CLAY with low cobble content. Sand is fine to coarse. Gravel is angular to subangular, fine to medium.		0.35	81.86						
	Firm grey brown slightly sandy gravelly silty CLAY with medium cobble and occasional boulder content. Sand is fine to coarse. Gravel is angular to subangular, fine to medium. Cobbles and boulders are angular to subangular platy and tabular of argillaceous limestone.		0.60	81.61		AA123605	B	0.50		
1.0						AA123606	B	1.10		
						AA123607	B	1.50		
1.90	End of Trial Pit at 1.90m		1.90	80.31						
2.0										
3.0										
4.0										

Groundwater Conditions Dry
Stability Good
General Remarks Pit terminated at 1.9mbgl on possible rockhead.





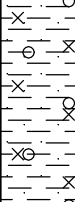


IGSL TP LOG 22000C.GPJ IGSL_GDT 23/10/19

		<h1 style="text-align: center;">TRIAL PIT RECORD</h1>						REPORT NUMBER <div style="font-size: 24pt; text-align: center;">22000</div>	
CONTRACT PPK3 Profile Park							TRIAL PIT NO. TP70 SHEET Sheet 1 of 1		
LOGGED BY S.Cunningham		CO-ORDINATES 703,265.03 E 730,224.97 N				DATE STARTED 14/08/2019 DATE COMPLETED 14/08/2019			
CLIENT ENGINEER PM Group		GROUND LEVEL (m) 82.05				EXCAVATION METHOD 6T JCB			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	TOPSOIL: Soft brown slightly sandy slightly gravelly CLAY with occasional rootlets. Sand is fine to medium.									
	Soft to firm grey brown silty sandy gravelly CLAY with low cobble content. Gravel is angular to subrounded, fine to medium of limestone. Cobbles are angular to subangular platy and tabular of argillaceous limestone.		0.40	81.65						
1.0			1.20	80.85		AA123603	B	0.80		
	Firm brown silty sandy gravelly CLAY with medium cobble content and low boulder content. Gravel is angular to subrounded, fine to medium of limestone. Cobbles and boulders are angular to subangular platy and tabular of argillaceous limestone.		1.50	80.55		AA123604	B	1.40		
	End of Trial Pit at 1.50m									
2.0										
3.0										
4.0										

Groundwater Conditions Dry
Stability Good
General Remarks Pit terminated at 1.50mbgl on possible rockhead.


IGSL TP LOG 22000C.GPJ IGSL.GDT 23/10/19




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CONTRACT PPK3 Profile Park						TRIAL PIT NO. TP71		22000		
LOGGED BY S.Cunningham		CO-ORDINATES 703,367.59 E 730,330.58 N				SHEET Sheet 1 of 1		DATE STARTED 16/08/2019		
CLIENT ENGINEER PM Group		GROUND LEVEL (m) 79.49				DATE COMPLETED 16/08/2019		EXCAVATION METHOD 6T JCB		
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	MADE GROUND comprised of compact grey sandy GRAVEL with a low cobble content. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse. (Compact - Car park surface)		0.35	79.14		AA123631	B	0.20		
	Soft to firm orange mottled brown slightly sandy CLAY. Sand is fine to coarse.		0.55	78.94		AA123632	B	0.45		
	White geotextile sheeting									
1.0	Firm brown mottled orange/grey silty slightly sandy gravelly CLAY with rare cobble. Sand is fine to coarse. Gravel is angular to subangular, fine to medium. Cobbles are tabular of argillaceous limestone.		1.80	77.69	 (Seepage)					
2.0	Possible rockhead recovered as angular COBBLE and GRAVEL sized fragments of medium strength grey argillaceous limestone.		2.10	77.39		AA123633	B	2.00		
	End of Trial Pit at 1.90m									
3.0										
4.0										

Groundwater Conditions
Water noted in pit at 1.80m

Stability
Slightly unstable at 1.90m





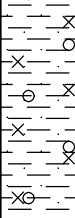


General Remarks
Pit terminated at 2.10mbgl on possible rockhead.

		<h1>TRIAL PIT RECORD</h1>						REPORT NUMBER <h2>22000</h2>	
CONTRACT PPK3 Profile Park						TRIAL PIT NO. TP72 SHEET Sheet 1 of 1			
LOGGED BY S.Cunningham		CO-ORDINATES 703,350.78 E 730,323.79 N				DATE STARTED 16/08/2019 DATE COMPLETED 16/08/2019			
CLIENT ENGINEER PM Group		GROUND LEVEL (m) 79.89				EXCAVATION METHOD 6T JCB			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	MADE GROUND comprised of grey rounded gravel. (Path Surface)		0.15	79.74	 (Seepage)					
	MADE GROUND comprised of grey sandy GRAVEL with a low cobble content. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse.		0.55	79.34		AA123625	B	0.35		
1.0	Firm brown mottled orange/grey silty slightly sandy gravelly CLAY with a low cobble and boulder content. Sand is fine to coarse. Gravel is angular to subangular, fine to medium. Cobbles are tabular of argillaceous limestone. White geotextile sheeting		1.40	78.49		AA123626	B	0.70		
	Firm brown mottled grey slightly sandy gravelly silty CLAY with a low cobble content and occasional boulders. Sand is fine to coarse. Gravel is angular to subangular, fine to medium. Cobbles and boulders are tabular of argillaceous limestone.		1.90	77.99		AA123627	B	1.60		
2.0	End of Trial Pit at 1.90m									
3.0										
4.0										

Groundwater Conditions Water noted in pit at 1.70m
Stability Good
General Remarks Pit terminated at 1.90mbgl on possible rock head


IGSL TP LOG 22000C.GPJ IGSL.GDT 23/10/19








		TRIAL PIT RECORD						REPORT NUMBER		
CONTRACT		PPK3 Profile Park						TRIAL PIT NO. TP73		
LOGGED BY		S.Cunningham						SHEET Sheet 1 of 1		
CO-ORDINATES		703,329.60 E 730,271.70 N						DATE STARTED 27/08/2019		
GROUND LEVEL (m)		80.91						DATE COMPLETED 27/08/2019		
CLIENT ENGINEER		PM Group						EXCAVATION METHOD 6T JCB		
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	MADE GROUND comprised of compact grey sandy GRAVEL with a low cobble content. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse. (Compact - Car park surface)		0.35	80.56						
	Soft to firm reddish brown slightly sandy slightly gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse.		0.80	80.11		AA123676	B	0.50		
	White geotextile sheeting									
1.0	Firm grey mottled brown slightly sandy slightly gravelly silty CLAY with a low cobble content. Sand is fine to medium. Gravel is angular to subrounded, fine to coarse of limestone. Cobbles are subangular to subrounded platy of argillaceous limestone.					AA123677	B	1.40		
2.0	Possible rockhead recovered as angular COBBLE and GRAVEL sized fragments of medium strength grey argillaceous limestone.		1.90	79.01	 (Slow)	AA123678	B	2.00		
	End of Trial Pit at 2.20m		2.20	78.71						
3.0										
4.0										

Groundwater Conditions
Groundwater contributing to instability and side collapse at circa 1.0m

Stability
Slightly unstable at 1.0m


General Remarks
Pit terminated at 2.20mbgl on possible rockhead



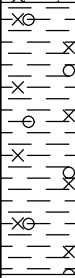
		<h1>TRIAL PIT RECORD</h1>						REPORT NUMBER <h2>22000</h2>	
CONTRACT PPK3 Profile Park							TRIAL PIT NO. TP74 SHEET Sheet 1 of 1		
LOGGED BY S.Cunningham		CO-ORDINATES 703,303.35 E 730,222.50 N				DATE STARTED 16/08/2019 DATE COMPLETED 16/08/2019			
CLIENT ENGINEER PM Group		GROUND LEVEL (m) 81.26				EXCAVATION METHOD 6T JCB			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	TOPSOIL: Soft brown slightly sandy slightly gravelly CLAY. Sand is fine to medium.									
	Firm grey brown slightly sandy gravelly silty CLAY with low cobble content and occasional boulders. Sand is fine to coarse. Gravel is angular to subangular, fine to medium. Cobbles and boulders are angular to subangular platy and tabular of argillaceous limestone.		0.40	80.86		AA123628	B	0.70		
1.0										
	Firm brown silty very sandy very gravelly CLAY with low cobble content and occasional boulders. Sand is fine to coarse. Gravel is angular to subangular, fine to medium. Cobbles and boulders are angular to subangular platy and tabular of argillaceous limestone and shale.		1.75	79.51	 (Slow)	AA123629	B	1.50		
2.0										
	End of Trial Pit at 2.30m		2.30	78.96		AA123630	B	2.20		
3.0										
4.0										



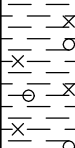
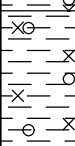
Groundwater Conditions Groundwater contributing to instability and side collapse at circa 1.80m
Stability Unstable at 1.6m
General Remarks Pit terminated at 2.3mbgl due to the presence of large boulders and side collapse.



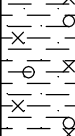

IGSL TP LOG 22000C.GPJ IGSL.GDT 23/10/19


		<h1>TRIAL PIT RECORD</h1>						REPORT NUMBER <h2>22000</h2>	
CONTRACT PPK3 Profile Park							TRIAL PIT NO. TP75 SHEET Sheet 1 of 1		
LOGGED BY S.Cunningham		CO-ORDINATES 703,428.23 E 730,302.34 N				DATE STARTED 16/08/2019 DATE COMPLETED 16/08/2019			
CLIENT ENGINEER PM Group		GROUND LEVEL (m) 78.08				EXCAVATION METHOD 6T JCB			






	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	MADE GROUND comprised of compact grey sandy GRAVEL with a low cobble content. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse. (Compact - Car park surface)		0.35	77.73						
	Soft to firm light brown slightly sandy slightly gravelly silty CLAY. Sand is fine to coarse. Gravel is angular to subangular, fine to medium.		0.75	77.33		AA123637	B	0.50		
1.0	Firm brown grey silty slightly sandy gravelly CLAY with medium cobble and low boulder content. Sand is fine to coarse. Gravel is angular to subangular, fine to medium. Cobbles and boulders are angular to subangular platy and tabular of argillaceous limestone.					AA123638	B	0.90		
						AA123639	B	1.70		
2.0	End of Trial Pit at 1.95m		1.95	76.13						
3.0										
4.0										

Groundwater Conditions Dry	
Stability Good	
General Remarks Pit terminated at 1.95mbgl on possible rock head.	

		TRIAL PIT RECORD						REPORT NUMBER		
CONTRACT		PPK3 Profile Park				TRIAL PIT NO.		TP76		
LOGGED BY		S.Cunningham				SHEET		Sheet 1 of 1		
CLIENT		PM Group				DATE STARTED		16/08/2019		
ENGINEER		PM Group				DATE COMPLETED		16/08/2019		
		CO-ORDINATES				703,405.01 E 730,255.00 N		EXCAVATION METHOD		
		GROUND LEVEL (m)				78.76		6T JCB		
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	MADE GROUND comprised of compact grey sandy GRAVEL with low cobble content. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse. (Compact - Car park surface)		0.30	78.46		AA123634	B	0.20		
	Firm light brown mottled grey slightly sandy slightly gravelly silty CLAY with low cobble content and occasional boulders. Sand is fine to coarse. Gravel is angular to subangular, fine to medium. Cobbles and boulders are angular to subangular platy and tabular of argillaceous limestone and shale.		1.10	77.66		AA123635	B	0.65		
1.0	Firm to stiff silty grey sandy gravelly CLAY with low cobble and occasional boulder. Sand is fine to coarse. Gravel is angular to subangular, fine to medium. Cobbles and boulders are angular to subangular platy and tabular of argillaceous limestone.		1.75	77.01		AA123636	B	1.40		
	End of Trial Pit at 1.75m									
2.0										
3.0										
4.0										
Groundwater Conditions Dry										
Stability Good										
General Remarks Pit terminated at 1.75mbgl on possible rock head										


		<h1>TRIAL PIT RECORD</h1>						REPORT NUMBER <h2>22000</h2>		
CONTRACT PPK3 Profile Park							TRIAL PIT NO. TP77 SHEET Sheet 1 of 1			
LOGGED BY S.Cunningham		CO-ORDINATES 703,380.42 E 730,205.20 N				DATE STARTED 16/08/2019 DATE COMPLETED 16/08/2019				
CLIENT ENGINEER PM Group		GROUND LEVEL (m) 79.31				EXCAVATION METHOD 6T JCB				
<div> <div>0.0</div> <div>1.0</div> <div>2.0</div> <div>3.0</div> <div>4.0</div> </div>	<div> <div>MADE GROUND comprised of compact grey sandy GRAVEL. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse. (Compact - Car park surface)</div> <div>Firm light brown mottled grey slightly sandy slightly gravelly silty CLAY with low cobble content. Sand is fine to coarse. Gravel is angular to subangular, fine to medium.</div> <div>Possible rockhead recovered as angular COBBLE and GRAVEL sized fragments of medium strength grey argillaceous limestone.</div> <div>End of Trial Pit at 1.20m</div> </div>	<div> <div>Legend</div> <div>    </div> </div>	<div> <div>Depth (m)</div> <div>0.10</div> <div>1.00</div> <div>1.20</div> </div>	<div> <div>Elevation</div> <div>79.21</div> <div>78.31</div> <div>78.11</div> </div>	<div> <div>Water Strike</div> </div>	<div>Samples</div>			<div> <div>Vane Test (KPa)</div> </div>	<div> <div>Hand Penetrometer (KPa)</div> </div>
						<div> <div>Sample Ref</div> <div>AA123640</div> <div>AA123641</div> </div>	<div> <div>Type</div> <div>B</div> <div>B</div> </div>	<div> <div>Depth</div> <div>0.50</div> <div>1.10</div> </div>		
Groundwater Conditions Dry										
Stability Good										
General Remarks Pit terminated at 1.2mbgl on possible rock head										






		<h1>TRIAL PIT RECORD</h1>						REPORT NUMBER <h2>22000</h2>	
CONTRACT PPK3 Profile Park						TRIAL PIT NO. TP78 SHEET Sheet 1 of 1			
LOGGED BY S.Cunningham		CO-ORDINATES 703,345.19 E 730,168.02 N				DATE STARTED 27/08/2019 DATE COMPLETED 27/08/2019			
CLIENT ENGINEER PM Group		GROUND LEVEL (m) 80.09				EXCAVATION METHOD 6T JCB			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	MADE GROUND comprised of compact grey sandy GRAVEL with a low cobble content. Sand is fine to coarse. Gravel is subangular to subrounded, fine to coarse. (Compact - Car park surface)		0.20	79.89						
	Firm brown mottled grey slightly sandy gravelly silty CLAY with a low cobble content and occasional boulders. Sand is fine to coarse. Gravel is angular to subangular, fine to medium. Cobbles and boulders are tabular of argillaceous limestone.									
1.0	White geotextile sheeting									
	Possible rockhead recovered as angular COBBLE and GRAVEL sized fragments of medium strength grey argillaceous limestone.		1.30	78.79						
	End of Trial Pit at 1.60m		1.60	78.49	↓ (Seepage)	AA123680	B	1.40		
2.0										
3.0										
4.0										

Groundwater Conditions Seepage at 1.5m										
Stability Stable										
General Remarks Pit terminated at 1.60mbgl on possible rockhead										


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




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CONTRACT PPK3 Profile Park							TRIAL PIT NO. TP79 SHEET Sheet 1 of 1		
LOGGED BY S.Hannon		CO-ORDINATES 703,460.66 E 730,297.40 N				DATE STARTED 28/08/2109 DATE COMPLETED 28/08/2109			
CLIENT ENGINEER PM Group		GROUND LEVEL (m) 77.70				EXCAVATION METHOD 7T Excavator			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	TOPSOIL: Soft brown slightly sandy slightly gravelly CLAY. Sand is fine to medium.									
	Firm brown slightly sandy gravelly silty CLAY. Sand is fine to medium. Gravels are angular to subrounded and fine to coarse.		0.30	77.40						
	Firm-stiff greyish brown very gravelly silty CLAY. Gravels are angular to subrounded and fine to coarse. Refusal at limestone rockhead.		0.70	77.00		AA113553	B	0.50-0.50		
1.0						AA113554	B	1.00-1.20		
	End of Trial Pit at 1.30m		1.30	76.40						
2.0										
3.0										
4.0										

Groundwater Conditions Dry
Stability Stable
General Remarks Pit terminated at 1.30mbgl on possible rockhead



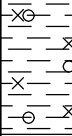
IGSL TP LOG 22000C.GPJ IGSL_GDT 23/10/19

		<h1>TRIAL PIT RECORD</h1>						REPORT NUMBER <h2>22000</h2>	
CONTRACT PPK3 Profile Park							TRIAL PIT NO. TP80 SHEET Sheet 1 of 1		
LOGGED BY S.Hannon		CO-ORDINATES 703,433.24 E 730,243.53 N				DATE STARTED 28/08/2109 DATE COMPLETED 28/08/2109			
CLIENT ENGINEER PM Group		GROUND LEVEL (m) 78.57				EXCAVATION METHOD 7T Excavator			


	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	TOPSOIL: Soft brown slightly sandy slightly gravelly CLAY. Sand is fine to medium.									
	Firm greyish brown slightly sandy slightly gravelly silty CLAY. Gravels are angular to subrounded and fine to coarse. Sand is fine to medium. Cobbles are subangular to subrounded.		0.30	78.27		AA113555	B	0.50-0.50		
	Firm-stiff greyish brown very gravelly, silty CLAY with low cobble content. Gravels are angular to subrounded and fine to coarse. Refusal at shale rockhead.		0.70	77.87						
1.0						AA113556	B	1.00-1.00		
	End of Trial Pit at 1.40m		1.40	77.17						
2.0										
3.0										
4.0										





Groundwater Conditions Dry
Stability Stable
General Remarks Pit terminated at 1.40mbgl on possible rockhead

IGSL TP LOG 22000C.GPJ IGSL_GDT 23/10/19

		TRIAL PIT RECORD						REPORT NUMBER 22000		
CONTRACT PPK3 Profile Park						TRIAL PIT NO. TP81		SHEET Sheet 1 of 1		
LOGGED BY S.Hannon		CO-ORDINATES 703,405.74 E 730,201.36 N				DATE STARTED 28/08/2109		DATE COMPLETED 28/08/2109		
CLIENT ENGINEER PM Group		GROUND LEVEL (m) 79.11				EXCAVATION METHOD 7T Excavator				
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	TOPSOIL: Soft brown slightly sandy slightly gravelly CLAY. Sand is fine to medium.									
	Firm brownish grey gravelly silty CLAY. Gravels are subangular to subrounded and fine to coarse. Refusal at limestone rockhead.		0.30	78.81		AA113557	B	0.60-0.60		
1.0	End of Trial Pit at 0.90m		0.90	78.21						
2.0										
3.0										
4.0										
Groundwater Conditions Dry										
Stability Stable										
General Remarks Pit terminated at 0.90mbgl on possible rockhead										



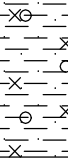
IGSL TP LOG 22000C.GPJ IGSL_GDT 23/10/19

		<h1>TRIAL PIT RECORD</h1>						REPORT NUMBER <div>22000</div>	
CONTRACT PPK3 Profile Park							TRIAL PIT NO. TP82 SHEET Sheet 1 of 1		
LOGGED BY S.Hannon		CO-ORDINATES 703,384.06 E 730,162.70 N				DATE STARTED 28/08/2109 DATE COMPLETED 28/08/2109			
CLIENT ENGINEER PM Group		GROUND LEVEL (m) 79.90				EXCAVATION METHOD 7T Excavator			


	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	TOPSOIL: Soft brown slightly sandy slightly gravelly CLAY. Sand is fine to medium.									
	Firm-stiff brownish grey gravelly silty CLAY . Gravels are subangular to subrounded and fine to coarse.		0.35	79.55		AA113558	B	0.50-0.50		
	Stiff brownish grey gravelly silty CLAY with medium cobble content and low boulder content. Gravels, cobbles and boulders are angular to subrounded and gravels are fine to coarse. Refusal at limestone rockhead.		0.80	79.10		AA113559	B	1.00-1.20		
1.0	End of Trial Pit at 1.40m		1.40	78.50						
2.0										
3.0										
4.0										


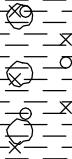
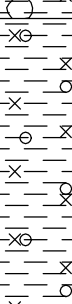

Groundwater Conditions Dry										
Stability Stable										
General Remarks Pit terminated at 1.40mbgl on possible rockhead										

IGSL TP LOG 22000C.GPJ IGSL.GDT 23/10/19

		<h1>TRIAL PIT RECORD</h1>						REPORT NUMBER <h2>22000</h2>		
CONTRACT PPK3 Profile Park							TRIAL PIT NO. TP83 SHEET Sheet 1 of 1			
LOGGED BY S.Hannon		CO-ORDINATES 703,486.12 E 730,282.25 N				DATE STARTED 28/08/2109 DATE COMPLETED 28/08/2109				
CLIENT ENGINEER PM Group		GROUND LEVEL (m) 78.29				EXCAVATION METHOD 7T Excavator				
<div> <div>0.0</div> <div>1.0</div> <div>2.0</div> <div>3.0</div> <div>4.0</div> </div>	<div> <div>Geotechnical Description</div> <div> TOPSOIL: Soft brown slightly sandy slightly gravelly CLAY. Sand is fine to medium. Firm brown slightly sandy gravelly silty CLAY. Sand is fine to medium. Gravels are subangular to subrounded and fine to coarse. </div> <div>End of Trial Pit at 1.00m</div> </div>	<div> <div>Legend</div> <div>   </div> </div>	<div> <div>Depth (m)</div> <div>0.30</div> <div>1.00</div> </div>	<div> <div>Elevation</div> <div>77.99</div> <div>77.29</div> </div>	<div> <div>Water Strike</div> </div>	<div>Samples</div>			<div>Vane Test (KPa)</div>	<div>Hand Penetrometer (KPa)</div>
						<div>Sample Ref</div> <div>AA113551</div> <div>AA113552</div>	<div>Type</div> <div>B</div> <div>B</div>	<div>Depth</div> <div>0.50-0.50</div> <div>1.00-1.00</div>		
Groundwater Conditions Dry										
Stability Stable										
General Remarks Pit terminated at 1.00mbgl on possible rockhead										


IGSL TP LOG 22000C.GPJ IGSL_GDT 23/10/19


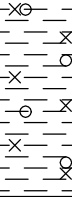
		<h1>TRIAL PIT RECORD</h1>						REPORT NUMBER <h2>22000</h2>	
CONTRACT PPK3 Profile Park							TRIAL PIT NO. TP84 SHEET Sheet 1 of 1		
LOGGED BY S.Hannon		CO-ORDINATES 703,525.11 E 730,262.76 N				DATE STARTED 28/08/2109 DATE COMPLETED 28/08/2109			
CLIENT ENGINEER PM Group		GROUND LEVEL (m) 79.03				EXCAVATION METHOD 7T Excavator			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	TOPSOIL: Soft brown slightly sandy slightly gravelly CLAY. Sand is fine to medium.									
	Firm brown gravelly silty CLAY with medium cobble content and low boulder content. Gravels cobbles and boulders are angular to subrounded and gravels are fine to coarse.		0.30	78.73		AA113560	B	0.60-0.60		
1.0	Stiff greyish brown slightly gravelly silty CLAY. Gravels are subangular to subrounded and fine to coarse.		1.20	77.83		AA113561	B	1.30-1.30		
2.0						AA113562	B	2.00-2.00		
	End of Trial Pit at 2.50m		2.50	76.53		AA113563	B	2.50-2.50		
3.0										
4.0										

Groundwater Conditions Dry
Stability Stable
General Remarks Pit terminated at 2.50mbgl on possible rockhead


IGSL TP LOG 22000C.GPJ IGSL_GDT 23/10/19



		<h1>TRIAL PIT RECORD</h1>						REPORT NUMBER <h2>22000</h2>	
CONTRACT PPK3 Profile Park						TRIAL PIT NO. TP85		SHEET Sheet 1 of 1	
LOGGED BY S.Hannon		CO-ORDINATES 703,525.67 E 730,263.13 N				DATE STARTED 28/08/2109		DATE COMPLETED 28/08/2109	
CLIENT ENGINEER PM Group		GROUND LEVEL (m) 79.01				EXCAVATION METHOD 7T Excavator			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	TOPSOIL: Soft brown slightly sandy slightly gravelly CLAY. Sand is fine to medium.									
	Firm-stiff greyish brown gravelly silty CLAY. Gravels are subangular to subrounded and fine to coarse. Refusal at limestone rockhead.		0.30	78.71		AA113564	B	0.50-0.50		
1.0	End of Trial Pit at 1.20m		1.20	77.81		AA113565	B	1.20-1.20		
2.0										
3.0										
4.0										


Groundwater Conditions Dry										
Stability Stable										
General Remarks Pit terminated at 1.20mbgl on possible rockhead										


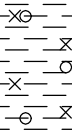

IGSL TP LOG 22000C.GPJ IGSL_GDT 23/10/19

		<h1 style="text-align: center;">TRIAL PIT RECORD</h1>						REPORT NUMBER <div style="font-size: 24pt; text-align: center;">22000</div>	
CONTRACT PPK3 Profile Park							TRIAL PIT NO. TP86 SHEET Sheet 1 of 1		
LOGGED BY S.Hannon		CO-ORDINATES 703,476.47 E 730,257.99 N				DATE STARTED 29/08/2019 DATE COMPLETED 29/08/2019			
CLIENT ENGINEER PM Group		GROUND LEVEL (m) 78.32				EXCAVATION METHOD 7T Excavator			


	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	TOPSOIL: Soft brown slightly sandy slightly gravelly CLAY. Sand is fine to medium.									
	Firm-stiff grey very gravelly silty CLAY with rare cobbles and boulders. Gravels cobbles and boulders are angular to subrounded and gravels are fine to coarse. Refusal at limestone rockhead.		0.30	78.02		AA113580	B	0.60-0.60		
1.0						AA113581	B	1.00-1.20		
	End of Trial Pit at 1.80m		1.80	76.52						
2.0										
3.0										
4.0										






Groundwater Conditions Dry
Stability Stable
General Remarks Pit terminated at 1.80mbgl on possible rockhead

		TRIAL PIT RECORD						REPORT NUMBER 22000	
CONTRACT PPK3 Profile Park						TRIAL PIT NO. TP87		SHEET Sheet 1 of 1	
LOGGED BY S.Hannon		CO-ORDINATES 703,512.54 E 730,237.68 N				DATE STARTED 29/08/2019 DATE COMPLETED 29/08/2019		EXCAVATION METHOD 7T Excavator	
CLIENT ENGINEER PM Group		GROUND LEVEL (m) 79.13							

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	TOPSOIL: Soft brown slightly sandy slightly gravelly CLAY. Sand is fine to medium.									
	Firm-stiff greyish brown gravelly silty CLAY. Gravels are angular to subangular and fine to coarse. Refusal at limestone rockhead.		0.40	78.73		AA113582	B	0.60-0.60		
1.0	End of Trial Pit at 1.00m		1.00	78.13		AA113583	B	0.90-1.00		
2.0										
3.0										
4.0										

Groundwater Conditions Dry	
Stability Stable	
General Remarks Pit terminated at 1.00mbgl on possible rockhead	

		<h1 style="text-align: center;">TRIAL PIT RECORD</h1>						REPORT NUMBER <div style="font-size: 24pt; text-align: center;">22000</div>	
CONTRACT PPK3 Profile Park							TRIAL PIT NO. TP88 SHEET Sheet 1 of 1		
LOGGED BY S.Hannon		CO-ORDINATES 703,547.94 E 730,217.10 N				DATE STARTED 29/08/2019 DATE COMPLETED 29/08/2019			
CLIENT ENGINEER PM Group		GROUND LEVEL (m) 79.01				EXCAVATION METHOD 7T Excavator			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	TOPSOIL: Soft brown slightly sandy slightly gravelly CLAY. Sand is fine to medium.									
	Firm brown gravelly silty CLAY. Gravels are subangular to subrounded and gravels are fine to coarse.		0.30	78.71						
	Firm-stiff greyish brown gravelly silty CLAY. Gravels are subangular to subrounded and gravels are fine to coarse. Refusal at limestone rockhead.		0.60	78.41		AA113569	B	0.50-0.50		
1.0						AA113570	B	1.00-1.20		
	End of Trial Pit at 1.80m		1.80	77.21						
2.0										
3.0										
4.0										

Groundwater Conditions Dry
Stability Stable
General Remarks Pit terminated at 1.80mbgl on possible rockhead



TRIAL PIT RECORD

REPORT NUMBER

22000

CONTRACT PPK3 Profile Park

TRIAL PIT NO. TP89

SHEET Sheet 1 of 1

LOGGED BY S.Hannon

CO-ORDINATES 703,464.19 E
730,234.28 N

DATE STARTED 29/08/2019

DATE COMPLETED 29/08/2019

CLIENT
ENGINEER PM Group

GROUND LEVEL (m) 79.45

EXCAVATION
METHOD 7T Excavator

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	TOPSOIL: Soft brown slightly sandy slightly gravelly CLAY. Sand is fine to medium.									
	Firm brown silty CLAY.		0.30	79.15						
	Stiff brownish grey very gravelly silty CLAY. Gravels are angular to subrounded and fine to coarse.		0.70	78.75		AA113578	B	0.60-0.50		
1.0						AA113579	B	1.10-1.30		
	End of Trial Pit at 1.50m		1.50	77.95						
2.0										
3.0										
4.0										

Groundwater Conditions


Dry







Stability

Stable

General Remarks


Pit terminated at 1.50mbgl on possible rockhead




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CONTRACT PPK3 Profile Park							TRIAL PIT NO. TP90 SHEET Sheet 1 of 1		
LOGGED BY S.Hannon		CO-ORDINATES 703,500.58 E 730,214.69 N				DATE STARTED 29/08/2019 DATE COMPLETED 29/08/2019			
CLIENT ENGINEER PM Group		GROUND LEVEL (m) 79.89				EXCAVATION METHOD 7T Excavator			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	TOPSOIL: Soft brown slightly sandy slightly gravelly CLAY. Sand is fine to medium.									
	Firm brown gravelly silty CLAY. Gravels are angular to subangular and fine to coarse.		0.40	79.49		AA113573	B	0.50-0.50		
1.0						AA113574	B	1.00-1.00		
	Stiff grey very gravelly silty CLAY. Gravels are angular to subangular and fine to coarse. Refusal at limestone rockhead.		1.20	78.69		AA113575	B	1.50-1.70		
2.0										
	End of Trial Pit at 2.50m		2.50	77.39						
3.0										
4.0										

Groundwater Conditions Dry
Stability Stable
General Remarks Pit terminated at 2.50mbgl on possible rockhead



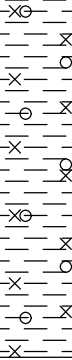
IGSL TP LOG 22000C.GPJ IGSL_GDT 23/10/19

		<h1 style="text-align: center;">TRIAL PIT RECORD</h1>						REPORT NUMBER <div style="font-size: 24pt; text-align: center;">22000</div>	
CONTRACT PPK3 Profile Park							TRIAL PIT NO. TP91 SHEET Sheet 1 of 1		
LOGGED BY S.Hannon		CO-ORDINATES 703,535.78 E 730,193.19 N				DATE STARTED 29/08/2019 DATE COMPLETED 29/08/2019			
CLIENT ENGINEER PM Group		GROUND LEVEL (m) 79.01				EXCAVATION METHOD 7T Excavator			



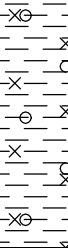
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	TOPSOIL: Soft brown slightly sandy slightly gravelly CLAY. Sand is fine to medium.									
	Firm orange brown silty CLAY.		0.40	78.61						
	Firm-stiff greyish brown very gravelly silty CLAY. Gravels are angular to subrounded and fine to coarse. Refusal at limestone rockhead.		0.70	78.31		AA113584	B	0.50-0.50		
1.0	End of Trial Pit at 1.30m		1.00	78.01		AA113585	B	1.00-1.20		
2.0										
3.0										
4.0										

Groundwater Conditions Dry
Stability Stable
General Remarks Pit terminated at 1.30mbgl on possible rockhead


IGSL TP LOG 22000C.GPJ IGSL_GDT 23/10/19





		<h1>TRIAL PIT RECORD</h1>						REPORT NUMBER <h2>22000</h2>		
CONTRACT PPK3 Profile Park							TRIAL PIT NO. TP92 SHEET Sheet 1 of 1			
LOGGED BY S.Hannon		CO-ORDINATES 703,451.90 E 730,213.32 N				DATE STARTED 29/08/2019 DATE COMPLETED 29/08/2019				
CLIENT ENGINEER PM Group		GROUND LEVEL (m) 79.76				EXCAVATION METHOD 7T Excavator				
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	TOPSOIL: Soft brown slightly sandy slightly gravelly CLAY. Sand is fine to medium.									
	Firm-stiff greyish brown very gravelly silty CLAY. Gravels are angular to subangular and fine to coarse. Refusal at limestone rockhead.		0.30	79.46		AA113576	B	0.60-0.60		
1.0						AA113577	B	1.10-1.30		
2.0	End of Trial Pit at 1.90m		1.90	77.86						
3.0										
4.0										
Groundwater Conditions Dry										
Stability Stable										
General Remarks Pit terminated at 1.90mbgl on possible rockhead										

IGSL TP LOG 22000C.GPJ IGSL_GDT 23/10/19

	TRIAL PIT RECORD						REPORT NUMBER 22000				
CONTRACT PPK3 Profile Park						TRIAL PIT NO. TP93		SHEET Sheet 1 of 1			
LOGGED BY S.Hannon		CO-ORDINATES 703,488.81 E 730,192.20 N				DATE STARTED 29/08/2019		DATE COMPLETED 29/08/2019			
CLIENT ENGINEER PM Group		GROUND LEVEL (m) 80.07				EXCAVATION METHOD 7T Excavator					
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)	
						Sample Ref	Type	Depth			
0.0	TOPSOIL: Soft brown slightly sandy slightly gravelly CLAY. Sand is fine to medium.		0.30	79.77		AA113571	B	0.50-0.50			
	Firm-stiff greyish brown very gravelly silty CLAY. Gravels are angular to subangular and fine to coarse. Refusal at limestone rockhead.										
1.0						AA113572	B	1.00-1.20			
	End of Trial Pit at 1.40m		1.40	78.67							
2.0											
3.0											
4.0											
Groundwater Conditions Dry											
Stability Stable											
General Remarks Pit terminated at 1.40mbgl on possible rockhead											


IGSL TP LOG 22000C.GPJ IGSL_GDT 23/10/19


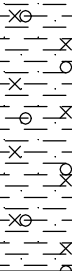
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CONTRACT PPK3 Profile Park							TRIAL PIT NO. TP94 SHEET Sheet 1 of 1		
LOGGED BY S.Hannon		CO-ORDINATES 703,523.49 E 730,171.91 N				DATE STARTED 29/08/2019 DATE COMPLETED 29/08/2019			
CLIENT ENGINEER PM Group		GROUND LEVEL (m) 80.13				EXCAVATION METHOD 7T Excavator			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	TOPSOIL: Soft brown slightly sandy slightly gravelly CLAY. Sand is fine to medium.									
	Firm brown very gravelly silty CLAY. Gravels and cobbles are angular to subrounded and gravels are fine to coarse.		0.30	79.83		AA113566	B	0.50-0.50		
1.0	Stiff greyish brown gravelly silty CLAY. Gravels are angular to subangular and fine to coarse. Refusal at limestone rockhead.		1.10	79.03		AA113567 AA113568	B B	1.00-1.00 1.00-1.20		
	End of Trial Pit at 1.50m		1.50	78.63						
2.0										
3.0										
4.0										

Groundwater Conditions Dry										
Stability Stable										
General Remarks Pit terminated at 1.50mbgl on possible rockhead										


IGSL TP LOG 22000C.GPJ IGSL_GDT 23/10/19






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CONTRACT PPK3 Profile Park							TRIAL PIT NO. TP95 SHEET Sheet 1 of 1		
LOGGED BY S.Hannon		CO-ORDINATES 703,440.69 E 730,189.18 N				DATE STARTED 03/09/2019 DATE COMPLETED 03/09/2019			
CLIENT ENGINEER PM Group		GROUND LEVEL (m) 80.09				EXCAVATION METHOD 7T Excavator			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	TOPSOIL: Soft brown slightly sandy slightly gravelly CLAY. Sand is fine to medium.									
	Firm greyish brown slightly sandy slightly gravelly silty CLAY. Sand is fine to medium. Gravels are angular to subrounded and fine to coarse. Cobbles are subangular to subrounded.		0.40	79.69		AA113586	B	0.60		
1.0						AA113587	B	1.20		
	End of Trial Pit at 1.60m		1.60	78.49						
2.0										
3.0										
4.0										

Groundwater Conditions Dry										
Stability Stable										
General Remarks Pit terminated at 1.60mbgl on possible rockhead										


IGSL TP LOG 22000C.GPJ IGSL_GDT 23/10/19


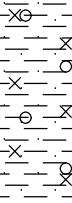
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CONTRACT PPK3 Profile Park							TRIAL PIT NO. TP96 SHEET Sheet 1 of 1		
LOGGED BY S.Hannon		CO-ORDINATES 703,477.46 E 730,166.88 N				DATE STARTED 03/09/2019 DATE COMPLETED 03/09/2019			
CLIENT ENGINEER PM Group		GROUND LEVEL (m) 80.55				EXCAVATION METHOD 7T Excavator			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	TOPSOIL: Soft brown slightly sandy slightly gravelly CLAY. Sand is fine to medium.									
	Firm greyish brown slightly sandy very gravelly silty CLAY with a medium cobble content. Sand is fine to medium. Gravels are angular to subrounded and fine to coarse. Cobbles are subangular to subrounded.		0.40	80.15		AA113597	B	0.60		
1.0						AA113598	B	1.10		
	Stiff grey brown slightly sandy very gravelly silty CLAY with a low cobble content. Sand is fine to medium. Gravels are angular to subrounded and fine to coarse. Cobbles are subangular to subrounded.		1.70	78.85						
2.0						AA113599	B	2.60		
	End of Trial Pit at 2.80m		2.80	77.75						
3.0										
4.0										

Groundwater Conditions Dry
Stability Stable
General Remarks Pit terminated at 2.80mbgl on possible rockhead



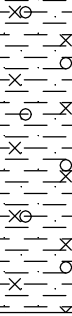
IGSL TP LOG 22000C.GPJ IGSL.GDT 23/10/19



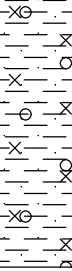
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CONTRACT PPK3 Profile Park							TRIAL PIT NO. TP97 SHEET Sheet 1 of 1		
LOGGED BY S.Hannon		CO-ORDINATES 703,511.04 E 730,147.47 N				DATE STARTED 03/09/2019 DATE COMPLETED 03/09/2019			
CLIENT ENGINEER PM Group		GROUND LEVEL (m) 81.35				EXCAVATION METHOD 7T Excavator			

	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	TOPSOIL: Soft brown slightly sandy slightly gravelly CLAY. Sand is fine to medium.									
	Firm brown slightly sandy very gravelly silty CLAY with a high cobble and high boulder content. Gravels are angular to subrounded and fine to coarse. Cobbles are subangular to subrounded.		0.30	81.05						
						AA113595	B	0.60		
1.0						AA113596	B	1.10		
	End of Trial Pit at 1.25m		1.25	80.10						
2.0										
3.0										
4.0										



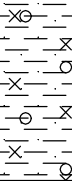
Groundwater Conditions Dry
Stability Stable
General Remarks Pit terminated at 1.25mbgl on possible rockhead

IGSL TP LOG 22000C.GPJ IGSL_GDT 23/10/19

		TRIAL PIT RECORD						REPORT NUMBER <div>22000</div>		
CONTRACT PPK3 Profile Park							TRIAL PIT NO. TP98 SHEET Sheet 1 of 1			
LOGGED BY S.Hannon		CO-ORDINATES 703,427.08 E 730,165.69 N				DATE STARTED 03/09/2019 DATE COMPLETED 03/09/2019				
CLIENT ENGINEER PM Group		GROUND LEVEL (m) 80.54				EXCAVATION METHOD 7T Excavator				
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	TOPSOIL: Soft brown slightly sandy slightly gravelly CLAY. Sand is fine to medium.		0.40	80.14		AA113588	B	0.60		
	Firm greyish brown slightly sandy slightly gravelly silty CLAY. Sand is fine to medium. Gravels are angular to subrounded and fine to coarse. Cobbles are subangular to subrounded.									
1.0						AA113589	B	1.10		
	End of Trial Pit at 1.80m		1.80	78.74		AA113590	B	1.70		
2.0										
3.0										
4.0										
Groundwater Conditions Dry										
Stability Stable										
General Remarks Pit terminated at 1.80mbgl on possible rockhead										

		<h1>TRIAL PIT RECORD</h1>						REPORT NUMBER <h2>22000</h2>		
CONTRACT PPK3 Profile Park							TRIAL PIT NO. TP99 SHEET Sheet 1 of 1			
LOGGED BY S.Hannon		CO-ORDINATES 703,463.44 E 730,149.26 N				DATE STARTED 03/09/2019 DATE COMPLETED 03/09/2019				
CLIENT ENGINEER PM Group		GROUND LEVEL (m) 80.79				EXCAVATION METHOD 7T Excavator				
	Geotechnical Description	Legend	Depth (m)	Elevation	Water Strike	Samples			Vane Test (KPa)	Hand Penetrometer (KPa)
						Sample Ref	Type	Depth		
0.0	TOPSOIL: Soft brown slightly sandy slightly gravelly CLAY. Sand is fine to medium.									
	Firm greyish brown slightly sandy very gravelly silty CLAY with a low cobble content. Sand is fine to medium. Gravels are angular to subrounded and fine to coarse. Cobbles are subangular to subrounded.		0.40	80.39		AA113591	B	0.60		
1.0						AA113592	B	1.10		
	End of Trial Pit at 1.60m		1.60	79.19						
2.0										
3.0										
4.0										
Groundwater Conditions Dry										
Stability Stable										
General Remarks Pit terminated at 1.60mbgl on possible rockhead										

IGSL TP LOG 22000C.GPJ IGSL_GDT 23/10/19

		<h1>TRIAL PIT RECORD</h1>						REPORT NUMBER <h2>22000</h2>		
CONTRACT PPK3 Profile Park							TRIAL PIT NO. TP100 SHEET Sheet 1 of 1			
LOGGED BY S.Hannon		CO-ORDINATES 703,499.60 E 730,118.49 N				DATE STARTED 03/09/2019 DATE COMPLETED 03/09/2019				
CLIENT ENGINEER PM Group		GROUND LEVEL (m) 81.72				EXCAVATION METHOD 7T Excavator				
<div> <div>0.0</div> <div>1.0</div> <div>2.0</div> <div>3.0</div> <div>4.0</div> </div>	<div>Geotechnical Description</div>	<div>Legend</div>	<div>Depth (m)</div>	<div>Elevation</div>	<div>Water Strike</div>	<div>Samples</div>			<div>Vane Test (KPa)</div>	<div>Hand Penetrometer (KPa)</div>
						<div>Sample Ref</div>	<div>Type</div>	<div>Depth</div>		
	TOPSOIL: Soft brown slightly sandy slightly gravelly CLAY. Sand is fine to medium.		0.40	81.32		AA113593	B	0.60		
	Firm greyish brown slightly sandy gravelly silty CLAY with a low cobble content. Sand is fine to medium. Gravels are angular to subrounded and fine to coarse. Cobbles are subangular to subrounded.		1.20	80.52		AA113594	B	1.10		
	End of Trial Pit at 1.20m									
Groundwater Conditions Dry										
Stability Stable										
General Remarks Pit terminated at 1.20mbgl on possible rockhead										

TP01



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TP02

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TP03

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TP06

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TP07

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TP08

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TP09

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TP10

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TP11

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TP43

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TP44

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Trial pit 45 excluded as it was cancelled.

TP46

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TP47

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TP48

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TP49

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Trial pit 50 excluded as it was cancelled.

TP51

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TP52

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TP53 and TP54 excluded as permission to take photographs was not granted.

TP55



TP56

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TP57 and TP58 excluded as permission to take photographs was not granted.

TP59



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TP60

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TP61, TP62 and TP63 excluded as permission to take photographs was not granted.

TP64



TP65 and TP66 excluded as permission to take photographs was not granted.

TP67



TP68



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TP69 to TP72 excluded as permission to take photographs was not granted.

TP73



TP74 to TP77 excluded as permission to take photographs was not granted.

TP78



TP79



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TP80

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TP81

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TP82



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TP99



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