

WANT Geotechnics

Site Classification & Bearing Capacity Assessment

For

Stage C2, Zuccoli, Northern Territory

Prepared for HiQA

Project NTG20212197Rev B

4 August 2021

PROVIDED FOR INFORMATIONAL PURPOSES ONLY
AND SHOULD NOT BE USED FOR CONSTRUCTION
- BUILDERS/BUYERS ARE TO INFORM THEMSELVES

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Project: NTG20212197		
Date	Revision	Comments
30 July 2021	0	Issued to Client
3 August 2021	A	Final Issued to Client
4 August 2021	B	Borehole Plan added and Section 7 amended

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Distribution: HiQA (1 electronic).....

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Location Plan

ADG Drawing PC2_C800 Stage 2 Master Services Layout Plan

HiQA Data

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Dynamic Cone Penetrometer Results

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Site Classification & Bearing Capacity Assessment for Stage C2, Zuccoli, Northern Territory

1. Introduction

WANT Geotechnics (WANT) was commissioned to undertake a review of geotechnical investigation data relating to the site classification and bearing capacity of 44 Lots developed as Stage C2, Zuccoli in the Northern Territory. The review was commissioned by HiQA Darwin.

The assessment of individual lot site classification has been undertaken in general accordance with Australian Standard AS2870 *Residential Slabs and Footings*. The assessment of bearing capacity has been in accordance with the methodology presented in MJ Stockwell (1977) and titled *Determination of Allowable Bearing Pressure Under Small Structures*.

The geotechnical investigation undertaken by HiQA comprised:

- Drilling an average 1.5 bores per lot; and
- A dynamic cone penetrometer test adjacent to each excavation.

This report presents a review of the data and certification of the site class and bearing capacity of each lot based on data provided by HiQA Darwin, a copy of the data provided is included in Appendix A.

In our judgement, the extent of this investigation has been sufficient to correlate the observed soil conditions with the known geology and published information for this area. However, localised variations are very difficult to locate using test holes and boreholes and natural soils can vary greatly over short distances. In which case, it would be prudent to commission site inspections during construction, in order that the true site conditions are verified.

2. Zuccoli Stage C2

Zuccoli Stage C2 comprises 44 individual lots, earthworks to form the lots filling, and was undertaken by Ostojic Pty Ltd, and Level 2 Supervision by HiQA Darwin. A plan showing the lot layout is included in Appendix A.

3. Geology and Land System

The Extractive Geology of the Outer Darwin Area 1:100 000 Geological Series map indicates Stage C2 is predominantly underlain by Tertiary age laterite gravel and ferricrete.

Reference to NT Government Natural Resource Maps website indicates the site sits on land of the Bustad Land System (sandstone plains and rises and no occurrence of acid sulphate soils).

4. Assessment

Australian Standard AS 2870 provides a system of site classification as shown in the table below.

Class	Predicted Surface Movement	Foundation
A		Most sand and rock sites with little or no ground movement from moisture changes
S	<20mm	Slightly reactive clay or silt sites with slight ground movement from moisture changes
M	20mm to 40mm	Moderately reactive clay or silt sites which can experience moderate ground movement from moisture changes
H1	40mm to 60mm	Highly reactive clay site, which can experience high ground movement from moisture changes
H2	60mm to 75mm	Highly reactive clay site, which can experience very high ground movement from moisture changes
E	>75mm	Extremely reactive sites, which can experience extreme ground movement from moisture changes
A to P		Filled sites
P		Sites which include: soft soils, such as soft clays, silts or organic soils, loose sands, landslip, mine subsidence, collapsing soils, soils subject to erosion, reactive sites subject to abnormal moisture conditions, sites with highly variable conditions such as weathered dolerite dykes, and sites which cannot be classified otherwise.

Table 1 – AS2870 Site Classes

The following tables summarise the ground investigation and DCP results and provide an assessment of site class along with the assessed allowable bearing capacity at likely foundation depth (0.30m to 0.50m).

Lot	Summary of Strata	Site Class	Minimum DCP Blow Count per 100mm below 0.30m	Allowable Bearing Capacity at 0.30m to 0.50m (kPa)
	Gravel Fill			
15560	0.00-1.70m	P Equivalent to S	11	320
15561	0.00-1.70m	P Equivalent to S	4	300
15562	0.00-1.70m	P Equivalent to S	40	>380
15563	0.00-1.70m	P Equivalent to S	40	>380
15564	0.00-1.50m	P Equivalent to S	10	310
15565	0.00-1.70m	P Equivalent to S	8	210
15566	0.00-1.70m	P Equivalent to S	9	230
15567	0.00-1.70m	P Equivalent to S	10	250
15568	0.00-1.70m	P Equivalent to S	10	250
15569	0.00-1.70m	P Equivalent to S	7	200
15570	0.00-1.70m	P Equivalent to S	5	150
15571	0.00-1.70m	P Equivalent to S	11	280
15572	0.00-1.70m	P Equivalent to S	11	280
15573	0.00-1.70m	P Equivalent to S	11	260
15574	0.00-1.70m	P Equivalent to S	6	380
15575	0.00-1.70m	P Equivalent to S	11	340
15576	0.00-1.70m	P Equivalent to S	18	360
15577	0.00-1.50m	P Equivalent to S	16	340
15578	0.00-1.70m	P Equivalent to S	40	>380
15579	0.00-1.70m	P Equivalent to S	40	>380
15580	0.00-1.70m	P Equivalent to S	30	>380
15581	0.00-1.70m	P Equivalent to S	40	>380

Table 2 – Site Classification and Allowable Bearing Capacity for Lots 15560 to 15581

Lot	Summary of Strata	Site Class	Minimum DCP Blow Count per 100mm below 0.30m	Allowable Bearing Capacity at 0.30m to 0.50m
	Gravel Fill			
15582	0.00-1.70m	P Equivalent to S	40	>380
15583	0.00-1.70m	P Equivalent to S	40	>380
15584	0.00-1.70m	P Equivalent to S	40	>380
15585	0.00-1.50m	P Equivalent to S	40	>380
15586	0.00-1.50m	P Equivalent to S	40	>380
15587	0.00-1.50m	P Equivalent to S	40	>380
15588	0.00-1.50m	P Equivalent to S	40	>380
15589	0.00-1.50m	P Equivalent to S	40	>380
15590	0.00-1.50m	P Equivalent to S	40	>380
15591	0.00-1.50m	P Equivalent to S	40	>380
15592	0.00-1.50m	P Equivalent to S	40	>380
15593	0.00-1.50m	P Equivalent to S	40	>380
15594	0.00-1.50m	P Equivalent to S	40	>380
15595	0.00-1.50m	P Equivalent to S	22	>380
15596	0.00-1.50m	P Equivalent to S	40	>380
15597	0.00-1.50m	P Equivalent to S	18	360
15598	0.00-1.50m	P Equivalent to S	40	>380
15599	0.00-1.50m	P Equivalent to S	40	>380
15600	0.00-1.50m	P Equivalent to S	40	>380
15601	0.00-1.50m	P Equivalent to S	40	>380
15602	0.00-1.50m	P Equivalent to S	40	>380
15603	0.00-1.70m	P Equivalent to S	40	>380

Table 3 – Site Classification and Allowable Bearing Capacity for Lots 15582 to 15603

5. Site Preparation

All earthworks should be carried out in general accordance with the requirements of AS 3798 *Guidelines on earthworks for commercial and residential developments*.

Prior to construction any remnant topsoil, uncontrolled fill and material containing organic matter should be stripped from the site. This material is not considered suitable for use as selected fill but can be stockpiled for later use as non-structural fill or for landscaping purposes.

The exposed surface should then be wetted or dried back to approximate optimum moisture content (OMC) and the exposed subgrade compacted to 95% Standard Maximum Dry Density as required by AS3798. A final test roll, under the supervision of a suitably qualified and experienced engineering geologist, should be undertaken to identify any remaining areas requiring further rolling (sand and gravel) or removal (clay and silt).

If required, additional fill for the building footprint should comprise granular material that is placed in 250mm thick layers, and then compacted to 95% modified maximum dry density ratio, within $\pm 2\%$ of OMC.

6. Foundations

Footing systems for residential dwellings on Class P equivalent to S sites can be designed in accordance with standard S class footings as set out in Section 3 of AS 2870.

P equivalent to S class means that in places the site is underlain by more than 0.40m of engineered fill, however because the fill has been engineered (rolled, moisture conditioned and compacted under Level 2 supervision) the fill can be considered equivalent to in situ material, in effect the site is classed as S Class.

7. Certification

Subject to the site preparation set out in Section 3, the data provided, the above review, and utilising Stockwell's method for the determination of bearing capacity, then all 44 Lots making up Zuccoli Stage C2 are certified as having:

- an allowable bearing capacity of at least 100kPa at likely foundation depth (0.30m to 0.50m depth);
- are Class P equivalent to S; and
- hence are considered suitable for the construction of single or double storey masonry buildings.

8. References

1. Northern Territory Geological Survey *Extractive Minerals Within the Outer Darwin Area*
2. Australian Standard AS 2870 *Residential Slabs and Footings*
3. MJ Stockwell, 1977, *Determination of Allowable Bearing Pressure Under Small Structures*

9. Limitations

SCOPE OF SERVICES

This geotechnical report has been prepared in accordance with the scope of services set out in the agreement between WANT Geotechnics and their client and is subject to any qualifications and assumptions set out in the report. In some circumstances the scope of services may have been limited by a range of factors such as time, budget, access and/or site disturbance constraints.

RELIANCE ON DATA

In preparing the report, WANT Geotechnics has relied upon data, surveys, and plans provided by the client. WANT Geotechnics has not verified the accuracy or completeness of the data, to the extent that the any statements, opinions, facts, conclusions and/or recommendations in the report (conclusions) are based in whole or part on the data, those conclusions are contingent upon the accuracy and completeness of the data. WANT Geotechnics will not be liable in relation to incorrect conclusions should any data, information or condition be incorrect or have not been fully disclosed to WANT Geotechnics.

GEOTECHNICAL INVESTIGATION

This report was prepared expressly for the client and expressly for purposes indicated by the client or his representative. Use by any other persons for any purpose, or by the client for a different purpose, is not recommended. The client should not use this report for other than its intended purpose without seeking additional geotechnical advice.

LIMITATIONS OF SITE INVESTIGATION

In assessing a structure from a single exploratory location there is the possibility that variations may occur that were not encountered. Site exploration identifies specific subsurface conditions only at those points from which samples have been taken. The risk that variations will not be detected can be reduced by increasing the frequency of test locations; however, this often does not result in any overall cost savings for the project. The data derived from the investigation and subsequent laboratory testing have been extrapolated to form an inferred model and an engineering opinion is rendered about overall subsurface conditions and their likely behaviour with regard to the structure. Actual conditions at the site might differ from those inferred to exist, since no subsurface exploration program, no matter how comprehensive, can reveal all subsurface details and anomalies. The exploratory test records are the subjective interpretation of subsurface conditions at a particular location, made by trained personnel. The interpretation may be limited by the method of investigation and cannot always be definitive. For example, inspection of an excavation or test pit allows a greater area of the subsurface profile to be inspected than borehole investigation; however, such methods are limited by depth and site disturbance restrictions. In borehole investigation, the actual interface between materials may be more gradual or abrupt than a report indicates

SUBSURFACE CONDITIONS ARE TIME DEPENDENT

Subsurface conditions may be modified by changing natural forces or man-made influences. A geotechnical engineering report is based on conditions which existed at the time of subsurface exploration. Construction operations, at or adjacent to the site, and natural events, such as floods or groundwater fluctuations may also affect subsurface conditions and thus the continuing adequacy of a geotechnical report. The geotechnical engineer should be kept apprised of any such events and should be consulted to determine if additional tests are necessary.

EXPLORATORY LOGS SHOULD NOT BE SEPARATED FROM THE ENGINEERING REPORT

Final exploratory logs are developed by geotechnical engineers based upon their interpretation of field logs and laboratory evaluation of field samples. Customarily, only the final exploratory logs are included in geotechnical engineering reports. These logs should not under any circumstances be redrawn for inclusion in architectural or other design drawings. To minimise the likelihood of exploratory log misinterpretation, contractors should be given access to the complete geotechnical engineering report prepared or authorised for their use. Providing the best available information to contractors helps prevent costly construction problems. For further information on this matter reference should be made to 'Guidelines for the Provision of Geotechnical Information in Construction Contracts' published by the Institution of Engineers Australia, National Headquarters, Canberra 1987.

OTHER LIMITATIONS

WANT Geotechnics will not be liable to update or revise the report to consider any events or emergent circumstances or facts occurring or becoming apparent after the date of the report.

WANT Geotechnics Pty Ltd

“Unfortunately, soils are made by nature and not by man, and the products of nature are always complex. As soon as we pass from steel and concrete to earth, the omnipotence of theory ceases to exist. Natural soil is never uniform. Its properties change from point to point while our knowledge of its’ properties is limited to those few spots at which the samples have been collected. In soil mechanics the accuracy of the computed results never exceeds that of a crude estimate and the principal function of theory consists in teaching us what and how to observe in the field”

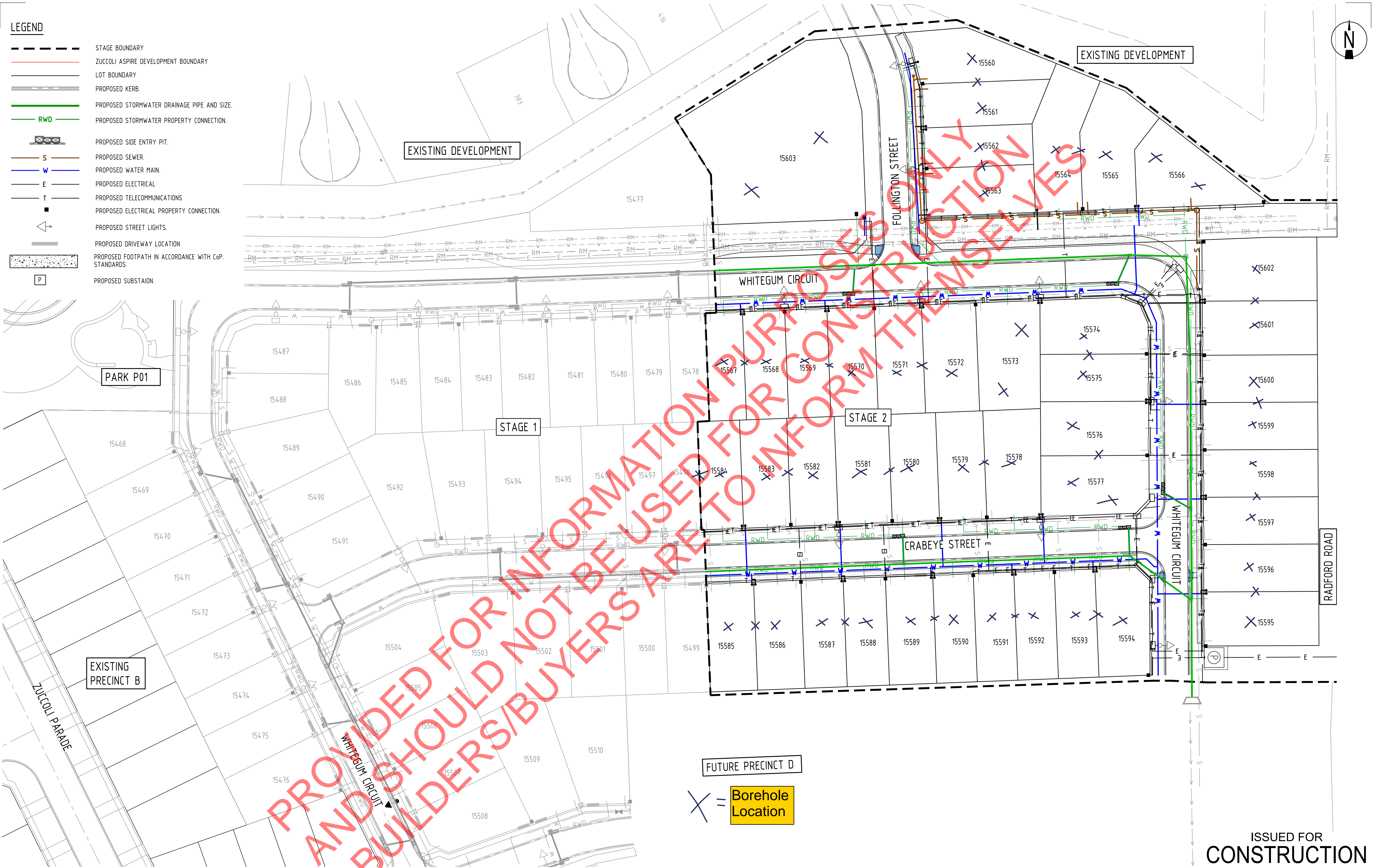
Karl Terzaghi – Founder of Modern Geotechnology

Appendix A

Location Plan
ADG Drawing PC2_C800 Stage 2 Master Services Layout Plan
HiQA Data
Borehole Logs
Dynamic Cone Penetrometer Results

LEGEND

- STAGE BOUNDARY
- ZUCCOLI ASPIRE DEVELOPMENT BOUNDARY
- LOT BOUNDARY
- PROPOSED KERB.
- PROPOSED STORMWATER DRAINAGE PIPE AND SIZE.
- RWD PROPOSED STORMWATER PROPERTY CONNECTION.
- PROPOSED SIDE ENTRY PIT.
- S PROPOSED SEWER.
- W PROPOSED WATER MAIN.
- E PROPOSED ELECTRICAL.
- T PROPOSED TELECOMMUNICATIONS.
- PROPOSED ELECTRICAL PROPERTY CONNECTION.
- PROPOSED STREET LIGHTS.
- PROPOSED DRIVEWAY LOCATION
- PROPOSED FOOTPATH IN ACCORDANCE WITH CoP. STANDARDS
- P PROPOSED SUBSTATION.



X = Borehole Location

ISSUED FOR CONSTRUCTION

Rev	Date	Description	By	Chk
0	2.02.21	ISSUED FOR CONSTRUCTION	JL	SW
C	13.01.21	FOR INFORMATION	JMB	SW
B	09.11.20	FOR INFORMATION	DT	SW
A	02.11.20	FOR INFORMATION	JMB	SW

0 10 20 30m
SCALE 1:500
AT ORIGINAL SIZE (A1)



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BRISBANE / SYDNEY / MELBOURNE / GOLD COAST / SUNSHINE COAST / DARWIN / PERTH

Client COSTOJIC PTY LTD	Discipline CIVIL	Status CONSTRUCTION	Title STAGE 2 MASTER SERVICES LAYOUT PLAN
Project Name ZUCCOLI ASPIRE PRECINCT C - STAGE 2 CIVIL WORKS	Designed By JMB	Checked By SW	Approved By BL
	Project No. 20696	Drawn By JMB	Scale at A1 1:500
The concepts and information contained in this document are the copyright of ADG Engineers (Aust) Pty Ltd. Use or copying of the document in whole or in part without the written permission of ADG Engineers (Aust) Pty Ltd constitutes an infringement of copyright. Do not scale drawings. If in doubt, ask!			Drawing No. PC2_C800
			Revision 0

Date : 26/07/2021			Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finished Surface	
Lot No. 15585			Easting/Northing		718590/8615478							
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 0004	0.0 – 0.45	Moist	GM	Silty Sandy GRAVEL Dark Orange/Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 35 20	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BH 0004	0.45 – 1.50	Moist	GM	Silty Sandy GRAVEL Pale Orange/Yellow	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 35 20	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	Borehole Terminated at 1.5m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	

Constituent Parts are logged: Least Second MOST, MPS = Maximum Particle Size, **LL = Liquid Limit, Pass. 0.075 = Passing the 0.075mm Sieve

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Date :	26/07/2021		Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finished Surface	
Lot No.	15585/15586		Easting/Northing		718598/8615481							
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 0005	0.0 – 0.45	Moist	GM	Silty Sandy GRAVEL Dark Orange/Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 35 20	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BH 0005	0.45 – 1.5	Moist	GM	Silty Sandy GRAVEL Pale Orange/Yellow	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 35 20	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	Borehole Terminated at 1.5m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	

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Date : 26/07/2021			Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finished Surface	
Lot No. 15586			Easting/Northing		718611/8615483							
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 0006	0.0 – 0.45	Moist	GM	Silty Sandy GRAVEL Dark Orange/Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 35 20	Fine to Course	Fine to Medium	Sub Angular- Sub Rounded	FILL	-
BH 0006	0.45 – 1.5	Moist	GM	Silty Sandy GRAVEL Pale Orange/Yellow	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 35 20	Fine to Course	Fine to Medium	Sub Angular- Sub Rounded	FILL	Borehole Terminated at 1.5m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	

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Date : 26/07/2021			Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finished Surface	
Lot No. 15587			Easting/Northing		718616/8615488							
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 0007	0.0 – 0.45	Moist	GM	Silty Sandy GRAVEL Dark Orange/Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 35 20	Fine to Course	Fine to Medium	Sub Angular- Sub Rounded	FILL	-
BH 0007	0.45 – 1.5	Moist	GM	Silty Sandy GRAVEL Pale Orange/Yellow	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 35 20	Fine to Course	Fine to Medium	Sub Angular- Sub Rounded	FILL	Borehole Terminated at 1.5m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	

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Date : 26/07/2021			Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finished Surface	
Lot No. 15587/15588			Easting/Northing		718623/8615487							
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 0008	0.0 – 0.45	Moist	GM	Silty Sandy GRAVEL Dark Orange/Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 35 20	Fine to Course	Fine to Medium	Sub Angular- Sub Rounded	FILL	-
BH 0008	0.45 – 1.5	Moist	GM	Silty Sandy GRAVEL Pale Orange/Yellow	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 35 20	Fine to Course	Fine to Medium	Sub Angular- Sub Rounded	FILL	Borehole Terminated at 1.5m
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		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	

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Date : 26/07/2021			Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finished Surface	
Lot No. 15588			Easting/Northing		718627/8615487							
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 0009	0.0 – 0.45	Moist	GM	Silty Sandy GRAVEL Dark Orange/Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 35 20	Fine to Course	Fine to Medium	Sub Angular- Sub Rounded	FILL	-
BH 0009	0.45 – 1.5	Moist	GM	Silty Sandy GRAVEL Pale Yellow/Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 35 20	Fine to Course	Fine to Medium	Sub Angular- Sub Rounded	FILL	Borehole Terminated at 1.5m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	

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Date :	26/07/2021		Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finished Surface	
Lot No.	15589		Easting/Northing		718641/8615488							
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 0010	0.0 – 0.45	Moist	GM	Silty Sandy GRAVEL Dark Orange/Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 35 20	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BH 0010	0.45 – 1.5	Moist	GM	Silty Sandy GRAVEL Pale Orange/yellow	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 35 20	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	Borehole Terminated at 1.5m
		-	-			MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-			MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-			MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	

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Date :	26/07/2021		Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finished Surface	
Lot No.	15589/15590		Easting/Northing		718641/8615467							
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 0011	0.0 – 0.45	Moist	GM	Silty Sandy GRAVEL Dark Orange/Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 35 25	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BH 0011	0.45 – 1.5	Moist	GM	Silty Sandy GRAVEL Pale Orange/Yellow	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 30 20	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	Borehole Terminated at 1.5m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	

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Date : 26/07/2021			Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finished Surface	
Lot No. 15590			Easting/Northing		718653/8615485							
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 0012	0.0 – 0.45	Moist	GM	Silty Sandy GRAVEL Dark Orange/Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 35 20	Fine to Course	Fine to Medium	Sub Angular- Sub Rounded	FILL	-
BH 0012	0.45 – 1.5	Moist	GM	Silty Sandy GRAVEL Dark Orange/Yellow	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 35 20	Fine to Course	Fine to Medium	Sub Angular- Sub Rounded	FILL	Borehole Terminated at 1.5m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	

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Date :		26/07/2021		Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finished Surface		
Lot No.		15591		Easting/Northing		718663/8615489								
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments		
BH 0013	0.0 – 0.45	Moist	GM	Silty Sandy GRAVEL Dark Orange/Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 35 20	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-		
BH 0013	0.45 – 1.5	Moist	GM	Silty Sandy GRAVEL Pale Orange/Yellow	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 35 20	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	Borehole Terminated at 1.5m		
		-	-			MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-			
		-	-			MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-			
		-	-			MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-			

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Date :	26/07/2021	Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finished Surface		
Lot No.	15591/15592	Easting/Northing		718672/8615486								
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 0014	0.0 – 0.45	Moist	GM	Silty Sandy GRAVEL Dark Orange/Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 35 25	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BH 0014	0.45 – 1.5	Moist	GM	Silty Sandy GRAVEL Pale Orange/Yellow	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 30 20	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	Borehole Terminated at 1.5m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	

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Date :	26/07/2021		Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finished Surface	
Lot No.	15592		Easting/Northing		718679/8615485							
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 0015	0.0 – 0.45	Moist	GM	Silty Sandy GRAVEL Dark Orange/Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 35 20	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BH 0015	0.45 – 1.5	Moist	GM	Silty Sandy GRAVEL Pale Orange/Yellow	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 35 20	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	Borehole Terminated at 1.5m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	

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Date : 26/07/2021			Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finished Surface	
Lot No. 15593			Easting/Northing		718691/8615485							
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 0016	0.0 – 0.45	Moist	GM	Silty Sandy GRAVEL Dark Orange/Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 35 20	Fine to Course	Fine to Medium	Sub Angular- Sub Rounded	FILL	
BH 0016	0.45 – 1.5	Moist	GM	Silty Sandy GRAVEL Pale Orange/Yellow	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 35 20	Fine to Course	Fine to Medium	Sub Angular- Sub Rounded	FILL	Borehole Terminated at 1.5m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	

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Date : 26/07/2021			Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finished Surface	
Lot No. 15593/15594			Easting/Northing		718698/8615485							
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 0017	0.0 – 0.45	Moist	GM	Silty Sandy GRAVEL Dark Orange/Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 35 20	Fine to Course	Fine to Medium	Sub Angular- Sub Rounded	FILL	
BH 0017	0.45 – 1.5	Moist	GM	Silty Sandy GRAVEL Pale Orange/Yellow	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 35 20	Fine to Course	Fine to Medium	Sub Angular- Sub Rounded	FILL	Borehole Terminated at 1.5m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	

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Date :	26/07/2021		Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finished Surface	
Lot No.	15594		Easting/Northing		718709/8615484							
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 0018	0.0 – 0.45	Moist	GM	Silty Sandy GRAVEL Dark Orange/Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 35 20	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	
BH 0018	0.45 – 1.5	Moist	GM	Silty Sandy GRAVEL Pale Orange/Yellow	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 35 20	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	Borehole Terminated at 1.5m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	

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Date : 26/07/2021			Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finished Surface	
Lot No. 15595			Easting/Northing		718737/8615479							
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 0019	0.0 – 0.45	Moist	GM	Silty Sandy GRAVEL Dark Orange/Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 35 20	Fine to Course	Fine to Medium	Sub Angular- Sub Rounded	FILL	
BH 0019	0.45 – 1.5	Moist	GM	Silty Sandy GRAVEL Pale Orange/Yellow	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 35 20	Fine to Course	Fine to Medium	Sub Angular- Sub Rounded	FILL	Borehole Terminated at 1.5m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	

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Date :	26/07/2021		Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finished Surface	
Lot No.	15595/15596		Easting/Northing		718740/8615489							
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 0020	0.0 – 0.45	Moist	GM	Silty Sandy GRAVEL Dark Orange/Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 35 20	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	
BH 0020	0.45 – 1.5	Moist	GM	Silty Sandy GRAVEL Pale Orange/Yellow	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 35 20	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	Borehole Terminated at 1.5m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	

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Date :	26/07/2021		Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finished Surface	
Lot No.	15596		Easting/Northing		718742/8615497							
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 0021	0.0 – 0.45	Moist	GM	Silty Sandy GRAVEL Dark Orange/Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 35 20	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	
BH 0021	0.45 – 1.5	Moist	GM	Silty Sandy GRAVEL Pale Orange/Yellow	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 35 20	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	Borehole Terminated at 1.5m
		-	-			MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-			MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-			MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	

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Date :	26/07/2021		Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finished Surface	
Lot No.	15597		Easting/Northing		718741/8615510							
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 0022	0.0 – 0.45	Moist	GM	Silty Sandy GRAVEL Dark Orange/Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 35 20	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	
BH 0022	0.45 – 1.5	Moist	GM	Silty Sandy GRAVEL Pale Orange/Yellow	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 35 20	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	Borehole Terminated at 1.5m
		-	-			MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-			MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-			MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	

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Date :	26/07/2021		Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finished Surface	
Lot No.	15597/15598		Easting/Northing		718739/8615517							
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 0023	0.0 – 0.45	Moist	GM	Silty Sandy GRAVEL Dark Orange/Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 35 20	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	
BH 0023	0.45 – 1.5	Moist	GM	Silty Sandy GRAVEL Pale Orange/Yellow	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 35 20	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	Borehole Terminated at 1.5m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	

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Date : 26/07/2021			Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finished Surface	
Lot No. 15598			Easting/Northing		718739/8615522							
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 0024	0.0 – 0.45	Moist	GM	Silty Sandy GRAVEL Dark Orange/Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 35 20	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	
BH 0024	0.45 – 1.5	Moist	GM	Silty Sandy GRAVEL Pale Orange/Yellow	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 35 20	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	Borehole Terminated at 1.5m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	

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Date :	26/07/2021		Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finished Surface	
Lot No.	15599		Easting/Northing		718742/8615533							
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 0025	0.0 – 0.45	Moist	GM	Silty Sandy GRAVEL Dark Orange/Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 35 20	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	
BH 0025	0.45 – 1.5	Moist	GM	Silty Sandy GRAVEL Pale Orange/Yellow	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 35 20	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	Borehole Terminated at 1.5m
		-	-			MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-			MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-			MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	

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Date :	26/07/2021		Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finished Surface	
Lot No.	15599/15600		Easting/Northing		718740/8615538							
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 0026	0.0 – 0.45	Moist	GM	Silty Sandy GRAVEL Dark Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 35 20	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BH 0026	0.45 – 1.5	Moist	GM	Silty Sandy GRAVEL Dark Red/Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 35 20	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	Borehole Terminated at 1.5m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	

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Date :	26/07/2021		Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finished Surface	
Lot No.	15600		Easting/Northing		718740/8615553							
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 0027	0.0 – 0.45	Moist	GM	Silty Sandy GRAVEL Dark Orange	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 35 20	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	
BH 0027	0.45 – 1.5	Moist	GM	Silty Sandy GRAVEL Dark Grey/Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 35 20	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	Borehole Terminated at 1.5m
						MPS (mm) LL (%) Pass. 0.075 (%)						
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	

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Date :	26/07/2021		Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finished Surface	
Lot No.	15601		Easting/Northing		718741/8615567							
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 0028	0.0 – 0.45	Moist	GM	Silty Sandy GRAVEL Dark Orange/Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 35 20	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	
BH 0028	0.45 – 1.5	Moist	GM	Silty Sandy GRAVEL Pale Orange/Yellow	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 35 20	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	Borehole Terminated at 1.5m
		-	-			MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-			MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-			MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	

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Date :	26/07/2021		Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finished Surface	
Lot No.	15601/15602		Easting/Northing		718741/8615576							
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 0029	0.0 – 0.45	Moist	GM	Silty Sandy GRAVEL Dark Orange/Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 35 20	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BH 0029	0.45 – 1.5	Moist	GM	Silty Sandy GRAVEL Pale Orange/Yellow	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 35 20	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	Borehole Terminated at 1.5m
						MPS (mm) LL (%) Pass. 0.075 (%)						
		-	-			MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-			MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	

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Date :	26-07/2021		Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finished Surface	
Lot No.	15602		Easting/Northing		718741/8615582							
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 0030	0.0 – 0.45	Moist	GM	Silty Sandy GRAVEL Dark Orange/Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 35 20	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	-
BH 0030	0.45 – 1.5	Moist	GM	Silty Sandy GRAVEL Dark Orange/Yellow	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 35 20	Fine to Course	Fine to Medium	Sub Angular-Sub Rounded	FILL	Borehole Terminated at 1.5m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	

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Date :	27/05/2021		Drill Rig/Excavator :		Drill Rig			Surface Elevation :		Finished Surface		
Lot No.	15603		Easting/Northing		718592/8615605							
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 3	0.0 – 0.3	Moist	GM	Silty Sandy GRAVEL Pale Brown/Orange	-	MPS (mm) LL (%) Pass. 0.075 (%)	38 30 25	Fine to Course	Fine to Medium	Sub Rounded	FILL	-
BH 3	0.3 – 1.3	Moist	GM	Silty Sandy GRAVEL Pale Orange/Red	-	MPS (mm) LL (%) Pass. 0.075 (%)	13 30 20	Fine to Course	Fine to Medium	Sub Rounded	FILL	BH terminated at 1.3m
					-	MPS (mm) LL (%) Pass. 0.075 (%)						
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	

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Date : 27/05/2021			Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finished Surface	
Lot No. 15603			Easting/Northing		718614/8615621							
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 4	0.0 – 0.4	Moist	GM	Silty Sandy GRAVEL Pale Brown/Red	-	MPS (mm) LL (%) Pass. 0.075 (%)	38 30 25	Fine to Course	Fine to Medium	Sub Rounded	FILL	-
BH 4	0.4 – 1.7	Moist	GM	Silty Sandy GRAVEL Pale Orange/Red	-	MPS (mm) LL (%) Pass. 0.075 (%)	27 30 20	Fine to Course	Fine to Medium	Sub Rounded	FILL	BH terminated at 1.7m
					-	MPS (mm) LL (%) Pass. 0.075 (%)						
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	

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Date : 27/05/2021			Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finished Surface	
Lot No. 15560			Easting/Northing		718662/8615645							
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 5	0.0 – 0.3	Moist	GM	Silty Sandy GRAVEL Pale Brown/White	-	MPS (mm) LL (%) Pass. 0.075 (%)	53 30 20	Fine to Course	Fine to Course	Sub Rounded	FILL	-
BH 5	0.3 – 1.6	Moist	GM	Silty Sandy GRAVEL Pale Orange/Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	27 30 20	Fine to Course	Fine to Course	Sub Rounded	FILL	
BH 5	1.6 – 1.7	Moist	GM	Silty Sandy GRAVEL Pale White/Yellow	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 35 20	-	Fine	Sub Rounded	FILL	BH terminated at 1.7m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	

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Date : 27/05/2021			Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finished Surface	
Lot No. 15560/15561			Easting/Northing		718661/8615634							
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 6	0.0 – 0.3	Moist	GM	Silty Sandy GRAVEL Pale Brown/White	-	MPS (mm) LL (%) Pass. 0.075 (%)	53 30 20	Fine to Course	Fine to Course	Sub Rounded	FILL	-
BH 6	0.3 – 1.3	Moist	GM	Silty Sandy GRAVEL Pale Orange/Yellow	-	MPS (mm) LL (%) Pass. 0.075 (%)	27 30 20	Fine to Course	Fine to Course	Sub Rounded	FILL	
BH 6	1.3 – 1.7	Moist	GM	Silty Sandy GRAVEL Pale Grey/Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 35 20	Fine to Course	Fine to Course	Sub Rounded	FILL	BH terminated at 1.7m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	

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Date :	27/05/2021		Drill Rig/Excavator :		Drill Rig			Surface Elevation :			Finished Surface	
Lot No.	15561		Easting/Northing		718662/8615633							
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 7	0.0 – 0.3	Moist	GM	Silty Sandy GRAVEL Pale Brown/Grey	-	MPS (mm) LL (%) Pass. 0.075 (%)	53 30 20	Fine to Course	Fine to Course	Sub Rounded	FILL	-
BH 7	0.3 – 1.5	Moist	GM	Silty Sandy GRAVEL Pale Orange/Yellow	-	MPS (mm) LL (%) Pass. 0.075 (%)	27 30 20	Fine to Course	Fine to Course	Sub Rounded	FILL	
BH 7	1.5 – 1.7	Moist	GM	Silty Sandy GRAVEL Pale Brown/Grey	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 35 20	Fine to Course	Fine to Course	Sub Rounded	FILL	BH terminated at 1.7m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	

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Date :	27/05/2021		Drill Rig/Excavator :		Drill Rig			Surface Elevation :		Finished Surface		
Lot No.	15562		Easting/Northing		718661/8615629							
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 8	0.0 – 0.3	Moist	GM	Silty Sandy GRAVEL Pale Brown/Grey	-	MPS (mm) LL (%) Pass. 0.075 (%)	53 30 20	Fine to Course	Fine to Course	Sub Rounded	FILL	-
BH 8	0.3 – 1.2	Moist	GM	Silty Sandy GRAVEL Pale Red/Yellow	-	MPS (mm) LL (%) Pass. 0.075 (%)	27 30 20	Fine to Course	Fine to Course	Sub Rounded	FILL	
BH 8	1.2 – 1.7	Moist	GM	Silty Sandy GRAVEL Pale Yellow/Grey	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 30 20	Fine to Course	Fine to Medium	Sub Rounded	FILL	BH terminated at 1.7m
		-	-			MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-			MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	

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Date :		27/05/2021	Drill Rig/Excavator :		Drill Rig			Surface Elevation :			Finished Surface		
Lot No.		15562/15563	Easting/Northing		718663/8615623								
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments	
BH 9	0.0 – 0.4	Moist	GM	Silty Sandy GRAVEL Pale Yellow/Grey	-	MPS (mm) LL (%) Pass. 0.075 (%)	53 30 20	Fine to Course	Fine to Course	Sub Rounded	FILL	-	
BH 9	0.4 – 1.5	Moist	GM	Silty Sandy GRAVEL Pale Red/Yellow	-	MPS (mm) LL (%) Pass. 0.075 (%)	27 30 20	-	-	-	FILL		
BH 9	1.5 – 1.7	Moist	GM	Silty Sandy GRAVEL Pale Yellow/Grey	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 30 20	Fine to Course	Fine to Medium	Sub Rounded	FILL	BH terminated at 1.7m	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-		
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-		

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Date :	27/05/2021		Drill Rig/Excavator :		Drill Rig			Surface Elevation :		Finished Surface		
Lot No.	15563		Easting/Northing		718664/8615618							
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 10	0.0 – 0.4	Moist	GM	Silty Sandy GRAVEL Pale White/Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	53 30 20	Fine to Course	Fine to Course	Sub Rounded	FILL	-
BH 10	0.4 – 1.5	Moist	GM	Silty Sandy GRAVEL Pale Red/Yellow	-	MPS (mm) LL (%) Pass. 0.075 (%)	27 30 20	Fine to Course	Fine to Course	Sub Rounded	FILL	
BH 10	1.5 – 1.7	Moist	GM	Silty Sandy GRAVEL Pale Brown/Grey	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 30 20	Fine to Course	Fine to Medium	Sub Rounded	FILL	BH terminated at 1.7m
		-	-			MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-			MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	

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Date :	27/05/2021		Drill Rig/Excavator :		Drill Rig			Surface Elevation :		Finished Surface		
Lot No.	15564		Easting/Northing		718672/8615624							
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 11	0.0 – 0.4	Moist	GM	Silty Sandy GRAVEL Pale Grey/Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	53 30 20	Fine to Course	Fine to Course	Sub Rounded	FILL	-
BH 11	0.4 – 1.5	Moist	GM	Silty Sandy GRAVEL Pale Red/Yellow	-	MPS (mm) LL (%) Pass. 0.075 (%)	27 30 20	Fine to Course	Fine to Medium	Sub Rounded	FILL	BH terminated at 1.7m
					-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	

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Date :	27/05/2021		Drill Rig/Excavator :		Drill Rig			Surface Elevation :		Finished Surface		
Lot No.	15564/15565		Easting/Northing		718680/8615626							
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 12	0.0 – 1.5	Moist	GM	Silty Sandy GRAVEL Pale Grey/Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	53 30 20	Fine to Course	Fine to Course	Sub Rounded	FILL	-
BH 12	1.5 – 1.7	Moist	GM	Silty Sandy GRAVEL Pale Red/Yellow	-	MPS (mm) LL (%) Pass. 0.075 (%)	27 30 20	Fine to Course	Fine to Course	Sub Rounded	FILL	BH terminated at 1.7m
					-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-			MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-			MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	

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Date :	27/05/2021		Drill Rig/Excavator :		Drill Rig			Surface Elevation :			Finished Surface	
Lot No.	15565		Easting/Northing		718686/8615626							
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 13	0.0 – 1.4	Moist	GM	Silty Sandy GRAVEL Pale Grey/Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	53 30 20	Fine to Course	Fine to Course	Sub Rounded	FILL	-
BH 13	1.4 – 1.7	Moist	GM	Silty Sandy GRAVEL Pale Red/Yellow	-	MPS (mm) LL (%) Pass. 0.075 (%)	27 30 20	Fine to Course	Fine to Course	Sub Rounded	FILL	BH terminated at 1.7m
					-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	

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Date :	27/05/2021		Drill Rig/Excavator :		Drill Rig			Surface Elevation :		Finished Surface		
Lot No.	15566		Easting/Northing		718702/8615624							
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 14	0.0 – 0.4	Moist	GM	Silty Sandy GRAVEL Pale Grey/Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	53 30 20	Fine to Course	Fine to Course	Sub Rounded	FILL	-
BH 14	0.4 – 1.7	Moist	GM	Silty Sandy GRAVEL Pale Orange/Yellow	-	MPS (mm) LL (%) Pass. 0.075 (%)	27 30 20	Fine to Course	Fine to Course	Sub Rounded	FILL	BH terminated at 1.7m
					-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-			MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-			MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	

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Date :	27/05/2021		Drill Rig/Excavator :		Drill Rig			Surface Elevation :			Finished Surface	
Lot No.	15566		Easting/Northing		718706/8615622							
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 15	0.0 – 0.6	Moist	GM	Silty Sandy GRAVEL Pale Grey/Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	53 30 20	Fine to Course	Fine to Course	Sub Rounded	FILL	-
BH 15	0.6 – 1.7	Moist	GM	Silty Sandy GRAVEL Pale Orange/Yellow	-	MPS (mm) LL (%) Pass. 0.075 (%)	27 30 20	Fine to Course	Fine to Course	Sub Rounded	FILL	BH terminated at 1.7m
					-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	

Constituent Parts are logged: Least Second MOST, MPS = Maximum Particle Size, **LL = Liquid Limit, Pass. 0.075 = Passing the 0.075mm Sieve

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Date :	27/05/2021		Drill Rig/Excavator :		Drill Rig			Surface Elevation :		Finished Surface		
Lot No.	15584		Easting/Northing		718589/8615527							
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 27	0.0 – 0.4	Moist	GM	Silty Sandy GRAVEL Pale Grey/Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	27 30 20	Fine to Course	Fine to Medium	Sub Rounded	FILL	-
BH 27	0.4 – 1.7	Moist	GM	Silty Sandy GRAVEL Pale Brown/Yellow	-	MPS (mm) LL (%) Pass. 0.075 (%)	16 30 20	Fine to Course	Fine to Medium	Sub Rounded	FILL	BH terminated at 1.7m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	

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Date : 27/05/2021			Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finished Surface	
Lot No. 15583			Easting/Northing		718606/8615526							
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 28	0.0 – 0.4	Moist	GM	Silty Sandy GRAVEL Pale Grey/Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 30 20	-	-	-	FILL	-
BH 28	0.4 – 1.5	Moist	GM	Silty Sandy GRAVEL Pale Orange/Red	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 30 20	-	-	-	FILL	
BH 28	1.5 – 1.7	Moist	GM	Silty Sandy GRAVEL Pale Brown/Yellow	-	MPS (mm) LL (%) Pass. 0.075 (%)	5 35 20	-	-	Rounded	-	BH terminated at 1.7m
		-	-			MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-			MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	

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Date :	27/05/2021		Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finished Surface	
Lot No.	15583/15582		Easting/Northing		718609/8615527							
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 29	0.0 – 0.4	Moist	GM	Silty Sandy GRAVEL Pale Grey/Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 30 20	Fine to Course	Fine to Medium	Sub Rounded	FILL	-
BH 29	0.4 – 1.1	Moist	GM	Silty Sandy GRAVEL Pale Orange/Red	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 30 20	-	-	-	FILL	
BH 29	1.1 – 1.3	Moist	GM	Silty Sandy GRAVEL Pale Brown/Yellow	-	MPS (mm) LL (%) Pass. 0.075 (%)	16 30 20	-	Fine to Medium	Sub Rounded	FILL	BH terminated at 1.3m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	

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Date :	27/05/2021		Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finished Surface	
Lot No.	15582		Easting/Northing		718618/8615528							
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 30	0.0 – 0.4	Moist	GM	Silty Sandy GRAVEL Pale Grey/Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 30 20	Fine to Course	Fine to Medium	Sub Rounded	FILL	-
BH 30	0.4 – 1.7	Moist	GM	Silty Sandy GRAVEL Pale Orange/Yellow	-	MPS (mm) LL (%) Pass. 0.075 (%)	16 30 20	Fine to Course	Fine to Medium	Sub Rounded	FILL	BH terminated at 1.7m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	- - -	-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	- - -	-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	- - -	-	-	-	-	

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Date :	27/05/2021		Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finished Surface	
Lot No.	15581		Easting/Northing		718633/8615527							
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 31	0.0 – 0.4	Moist	GM	Silty Sandy GRAVEL Pale Grey/Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 30 20	Fine to Course	Fine to Medium	Sub Rounded	FILL	-
BH 31	0.4 – 1.7	Moist	GM	Silty Sandy GRAVEL Pale Yellow/Orange	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 30 20	Fine to Course	Fine to Medium	Sub Rounded	FILL	BH terminated at 1.7m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	- - -	-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	- - -	-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	- - -	-	-	-	-	

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Date : 27/05/2021			Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finished Surface	
Lot No. 15581/15580			Easting/Northing		718635/8615526							
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 32	0.0 – 0.4	Moist	GM	Silty Sandy GRAVEL Pale Grey/Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 30 20	Fine to Course	Fine to Medium	Sub Rounded	FILL	-
BH 32	0.4 – 1.5	Moist	GM	Silty Sandy GRAVEL Pale Orange/Red	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 30 20	Fine to Course	Fine to Medium	Sub Rounded	FILL	
BH 32	1.5 – 1.7	Moist	GM	Silty Sandy GRAVEL Pale White/Yellow	-	MPS (mm) LL (%) Pass. 0.075 (%)	5 30 20	-	Fine	Sub Rounded	FILL	BH terminated at 1.7m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	

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Date :	27/05/2021		Drill Rig/Excavator :		Drill Rig			Surface Elevation :		Finished Surface		
Lot No.	15580		Easting/Northing		718647/8615528							
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 33	0.0 – 0.4	Moist	GM	Silty Sandy GRAVEL Pale Grey/Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 30 20	Fine to Course	Fine to Medium	Sub Rounded	FILL	-
BH 33	0.4 – 1.7	Moist	GM	Silty Sandy GRAVEL Pale Yellow/Orange	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 30 20	Fine to Course	Fine to Medium	Sub Rounded	FILL	BH terminated at 1.7m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	

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Date :	27/05/2021		Drill Rig/Excavator :		Drill Rig			Surface Elevation :		Finished Surface		
Lot No.	15579		Easting/Northing		718662/8615527							
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 34	0.0 – 0.4	Moist	GM	Silty Sandy GRAVEL Pale Grey/Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 30 20	Fine to Course	Fine to Medium	Sub Rounded	FILL	-
BH 34	0.4 – 1.7	Moist	GM	Silty Sandy GRAVEL Pale Yellow/Orange	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 30 20	Fine to Course	Fine to Medium	Sub Rounded	FILL	BH terminated at 1.7m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	

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Date : 27/05/2021			Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finished Surface	
Lot No. 15579/15578			Easting/Northing		718669/8615525							
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 35	0.0 – 0.3	Moist	GM	Silty Sandy GRAVEL Pale Orange/Red	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 25 20	Fine to Course	Fine to Medium	Sub Rounded	FILL	-
BH 35	0.3 – 1.4	Moist	GM	Silty Sandy GRAVEL Pale Yellow/Orange	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 25 20	Fine to Course	Fine to Medium	Sub Rounded	FILL	BH terminated at 1.4m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	

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Date : 27/05/2021			Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finished Surface	
Lot No. 15578			Easting/Northing		718676/8615529							
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 36	0.0 – 0.3	Moist	GM	Silty Sandy GRAVEL Pale Grey/Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 25 20	Fine to Course	Fine to Medium	Sub Rounded	FILL	-
BH 36	0.3 – 1.7	Moist	GM	Silty Sandy GRAVEL Pale Red/Orange	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 25 20	Fine to Course	Fine to Medium	Sub Rounded	FILL	BH terminated at 1.7m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	

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Date :	27/05/2021		Drill Rig/Excavator :		Drill Rig			Surface Elevation :		Finished Surface		
Lot No.	15567		Easting/Northing		718592/861555							
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 40	0.0 – 1.5	Moist	GM	Silty Sandy GRAVEL Pale Orange/Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 25 20	Fine to Course	Fine to Medium	Sub Rounded	FILL	-
BH 40	1.5 – 1.7	Moist	GM	Silty Sandy GRAVEL Pale Grey/Yellow	-	MPS (mm) LL (%) Pass. 0.075 (%)	16 25 20	Fine to Medium	Fine to Medium	Sub Rounded	FILL	BH terminated at 1.7m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	- - -	-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	- - -	-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	- - -	-	-	-	-	

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Date : 28/05/2021			Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finished Surface	
Lot No. 15567/15568			Easting/Northing		718597/8615556							
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 40	0.0 – 0.4	Moist	GM	Silty Sandy GRAVEL Pale Orange/Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 25 20	Fine to Medium	Fine to Medium	Sub Rounded	FILL	-
BH 40	0.4 – 1.7	Moist	GM	Silty Sandy GRAVEL Pale Grey/Yellow	-	MPS (mm) LL (%) Pass. 0.075 (%)	16 25 20	Fine to Medium	Fine to Medium	Sub Rounded	FILL	BH terminated at 1.7m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	

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Date :	28/05/2021		Drill Rig/Excavator :		Drill Rig			Surface Elevation :		Finished Surface		
Lot No.	15568		Easting/Northing		718602/8615556							
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 42	0.0 – 0.4	Moist	GM	Silty Sandy GRAVEL Pale Orange/Red	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 25 20	Fine to Medium	Fine to Medium	Sub Rounded	FILL	-
BH 42	0.4 – 1.7	Moist	GM	Silty Sandy GRAVEL Pale Brown/Yellow	-	MPS (mm) LL (%) Pass. 0.075 (%)	16 25 20	Fine to Medium	Fine to Medium	Sub Rounded	FILL	BH terminated at 1.7m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	- - -	-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	- - -	-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	- - -	-	-	-	-	

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Date :	28/05/2021		Drill Rig/Excavator :		Drill Rig			Surface Elevation :		Finished Surface		
Lot No.	15569		Easting/Northing		718613/8615555							
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 43	0.0 – 0.4	Moist	GM	Silty Sandy GRAVEL Pale Grey/Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 25 20	Fine to Medium	Fine to Medium	Sub Rounded	FILL	-
BH 43	0.4 – 1.7	Moist	GM	Silty Sandy GRAVEL Pale Orange/Red	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 25 20	Fine to Medium	Fine to Medium	Sub Rounded	FILL	BH terminated at 1.7m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	

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Date :	28/05/2021		Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finished Surface		
Lot No.	15569/15570		Easting/Northing		718620/8615558								
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments	
BH 44	0.0 – 0.4	Moist	GM	Silty Sandy GRAVEL Pale Yellow/Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 25 20	-	-	-	FILL	-	
BH 44	0.4 – 1.7	Moist	GM	Silty Sandy GRAVEL Pale Orange/Yellow	-	MPS (mm) LL (%) Pass. 0.075 (%)	16 25 20	Fine to Medium	Fine to Medium	Sub Rounded	FILL	BH terminated at 1.7m	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-		
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-		
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-		

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Date : 28/05/2021			Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finished Surface	
Lot No. 15570			Easting/Northing		718624/8615553							
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 45	0.0 – 0.4	Moist	GM	Silty Sandy GRAVEL Pale Yellow/Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 25 20	Fine to Medium	Fine to Medium	Sub Rounded	FILL	-
BH 45	0.4 – 1.7	Moist	GM	Silty Sandy GRAVEL Pale Orange/Yellow	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 25 20	Fine to Medium	Fine to Medium	Sub Rounded	FILL	BH terminated at 1.7m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	

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Date :	28/05/2021		Drill Rig/Excavator :		Drill Rig			Surface Elevation :		Finished Surface		
Lot No.	15571		Easting/Northing		718643/8615557							
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 46	0.0 – 0.4	Moist	GM	Silty Sandy GRAVEL Pale Yellow/Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 25 20	Fine to Medium	Fine to Medium	Sub Rounded	FILL	-
BH 46	0.4 – 1.7	Moist	GM	Silty Sandy GRAVEL Pale Orange/Yellow	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 25 20	Fine to Medium	Fine to Medium	Sub Rounded	FILL	BH terminated at 1.7m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	- - -	-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	- - -	-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	- - -	-	-	-	-	

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Date : 28/05/2021			Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finished Surface	
Lot No. 15571/15572			Easting/Northing		718650/8615559							
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 47	0.0 – 0.4	Moist	GM	Silty Sandy GRAVEL Pale Grey/Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 25 20	Fine to Medium	Fine to Medium	Sub Rounded	FILL	-
BH 47	0.4 – 1.7	Moist	GM	Silty Sandy GRAVEL Pale Orange/Yellow	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 25 20	Fine to Medium	Fine to Medium	Sub Rounded	FILL	BH terminated at 1.7m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	

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Date :	28/05/2021		Drill Rig/Excavator :		Drill Rig			Surface Elevation :		Finished Surface		
Lot No.	15572		Easting/Northing		718658/8615559							
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 48	0.0 – 1.1	Moist	GM	Silty Sandy GRAVEL Pale Grey/Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 25 20	Fine to Medium	Fine to Medium	Sub Rounded	FILL	-
BH 48	1.1 – 1.7	Moist	GM	Silty Sandy GRAVEL Pale Orange/Yellow	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 25 20	Fine to Medium	Fine to Medium	Sub Rounded	FILL	BH terminated at 1.7m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	- - -	-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	- - -	-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	- - -	-	-	-	-	

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Date :	28/05/2021		Drill Rig/Excavator :		Drill Rig			Surface Elevation :		Finished Surface		
Lot No.	15573		Easting/Northing		718673/8615565							
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 49	0.0 – 1.2	Moist	GM	Silty Sandy GRAVEL Pale Grey/Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 25 20	Fine to Medium	Fine to Medium	Sub Rounded	FILL	-
BH 49	1.2 – 1.7	Moist	GM	Silty Sandy GRAVEL Pale Orange/Yellow	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 25 20	Fine to Medium	Fine to Medium	Sub Rounded	FILL	BH terminated at 1.7m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	

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Date :	28/05/2021		Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finished Surface	
Lot No.	15573		Easting/Northing		718672/8615555							
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 50	0.0 – 1.3	Moist	GM	Silty Sandy GRAVEL Pale Grey/Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 25 20	Fine to Medium	Fine to Medium	Sub Rounded	FILL	-
BH 50	1.3 – 1.7	Moist	GM	Silty Sandy GRAVEL Pale Orange/Red	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 25 20	-	-	-	FILL	BH terminated at 1.7m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	- - -	-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	- - -	-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)	- - -	-	-	-	-	

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Date : 28/05/2021			Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finished Surface	
Lot No. 15574			Easting/Northing		718700/8615567							
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 51	0.0 – 0.8	Moist	GM	Silty Sandy GRAVEL Pale Grey/Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 25 20	Fine to Medium	Fine to Medium	Sub Rounded	FILL	-
BH 51	0.8 – 1.2	Moist	GM	Silty Sandy GRAVEL Pale Brown/Yellow	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 25 20	Fine to Medium	Fine to Medium	Sub Rounded	FILL	
BH 51	1.2 – 1.7	Moist	GM	Silty Sandy GRAVEL Pale Orange/Red	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 25 20	Fine to Medium	Fine to Medium	Sub Rounded	FILL	BH terminated at 1.7m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	

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Date :	28/05/2021		Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finished Surface	
Lot No.	15574/15575		Easting/Northing		718699/8615562							
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 52	0.0 – 0.8	Moist	GM	Silty Sandy GRAVEL Pale Grey/Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 25 20	Fine to Medium	Fine to Medium	Sub Rounded	FILL	-
BH 52	0.8 – 1.2	Moist	GM	Silty Sandy GRAVEL Pale Grey/Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 25 20	Fine to Medium	Fine to Medium	Sub Rounded	FILL	
BH 52	1.2 – 1.7	Moist	GM	Silty Sandy GRAVEL Pale Orange/Red	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 25 20	Fine to Medium	Fine to Medium	Sub Rounded	FILL	BH terminated at 1.7m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	

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Date :	28/05/2021		Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finished Surface	
Lot No.	15575		Easting/Northing		718701/8615557							
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 53	0.0 – 0.4	Moist	GM	Silty Sandy GRAVEL Pale Grey/Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 25 20	Fine to Medium	Fine to Medium	Sub Rounded	FILL	-
BH 53	0.4 – 0.8	Moist	GM	Silty Sandy GRAVEL Pale Grey/Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	16 25 20	Fine to Medium	Fine to Medium	Sub Rounded	FILL	
BH 53	0.8 – 1.7	Moist	GM	Silty Sandy GRAVEL Pale Orange/Red	-	MPS (mm) LL (%) Pass. 0.075 (%)	16 25 20	Fine to Medium	Fine to Medium	Sub Rounded	FILL	BH terminated at 1.7m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	

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Date : 28/05/2021			Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finished Surface	
Lot No. 15576			Easting/Northing		718701/8615541							
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 54	0.0 – 0.8	Moist	GM	Silty Sandy GRAVEL Pale Grey/Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 25 20	Fine to Medium	Fine to Medium	Sub Rounded	FILL	-
BH 54	0.8 – 1.2	Moist	GM	Silty Sandy GRAVEL Dark Grey/Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	16 25 20	Fine to Medium	Fine to Medium	Sub Rounded	FILL	
BH 54	1.2 – 1.7	Moist	GM	Silty Sandy GRAVEL Pale Orange/Red	-	MPS (mm) LL (%) Pass. 0.075 (%)	16 25 20	Fine to Medium	Fine to Medium	Sub Rounded	FILL	BH terminated at 1.7m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	

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Date :	28/05/2021		Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finished Surface	
Lot No.	15577/15576		Easting/Northing		718700/8615533							
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 55	0.0 – 1.0	Moist	GM	Silty Sandy GRAVEL Pale Grey/Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 25 20	Fine to Medium	Fine to Medium	Sub Rounded	FILL	-
BH 55	1.0 – 1.2	Moist	GM	Silty Sandy GRAVEL Pale Orange/Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 25 20	Fine to Medium	Fine to Medium	Sub Rounded	FILL	BH terminated at 1.7m
					-	MPS (mm) LL (%) Pass. 0.075 (%)						
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	

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Date :	28/05/2021		Drill Rig/Excavator :		Drill Rig			Surface Elevation :		Finished Surface		
Lot No.	15577		Easting/Northing		718699/8615523							
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 56	0.0 – 1.0	Moist	GM	Silty Sandy GRAVEL Pale Grey/Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	19 25 20	Fine to Medium	Fine to Medium	Sub Rounded	FILL	-
BH 56	1.0 – 1.2	Moist	GM	Silty Sandy GRAVEL Pale Grey/Brown	-	MPS (mm) LL (%) Pass. 0.075 (%)	16 25 20	Fine to Medium	Fine to Medium	Sub Rounded	FILL	
BH 56	1.2 – 1.5	Moist	GM	Silty Sandy GRAVEL Pale Orange/Red	-	MPS (mm) LL (%) Pass. 0.075 (%)	16 25 20	Fine to Medium	Fine to Medium	Sub Rounded	FILL	BH terminated at 1.7m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	

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Date : 26/06/2021			Drill Rig/Excavator :		Drill Rig				Surface Elevation :		Finished Surface	
Lot No. 15577			Easting/Northing		718699/8615523							
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties	-	Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 3	0.0 – 1.1	Moist	GM	Silty Sandy GRAVEL Pale Orange/Brown	Firm	MPS (mm) LL (%) Pass. 0.075 (%)	10 30 25	Fine to Course	Fine to Course	Sub Rounded	FILL	-
BH 3	1.1 – 1.5	Moist	GM	Silty Sandy GRAVEL Pale Brown	Firm	MPS (mm) LL (%) Pass. 0.075 (%)	20 25 25	Fine to Course	Fine to Course	Sub Rounded	FILL	BH terminated at 1.5m
					-	MPS (mm) LL (%) Pass. 0.075 (%)						
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	

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Date :	27/05/2021		Drill Rig/Excavator :		Drill Rig			Surface Elevation :		Finished Surface		
Lot No.	15498/15584		Easting/Northing		718584/8615527							
TP/BH (No.)	Depth (m)	Estimated Moisture Condition	USC	Colour & Visual Description	Estimated Consistency	Estimated Properties		Estimated Sand Grain Size	Estimated Gravel Grain Size	Estimated Gravel Shape	Estimated Material Origin	Comments
BH 26	0.0 – 0.4	Moist	GM	Silty Sandy GRAVEL Pale Grey/Brown	-	MPS (mm) 27 LL (%) 30 Pass. 0.075 (%) 20		Fine to Course	Fine to Medium	Sub Rounded	FILL	-
BH 26	0.4 – 1.7	Moist	GM	Silty Sandy GRAVEL Pale Brown/Yellow	-	MPS (mm) 19 LL (%) 30 Pass. 0.075 (%) 20		Fine to Course	Fine to Medium	Sub Rounded	FILL	BH terminated at 1.7m
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	
		-	-		-	MPS (mm) LL (%) Pass. 0.075 (%)		-	-	-	-	

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HiQa Geotechnical

Client : Ostojic Group Pty Ltd

Project #: D20214

Project Name: OST2005-Zuccoli Aspire Precinct C1 & C2

Tested Date: 31/05/2021

Tested By: m.tsakirios

Location: Zuccoli Aspire Precinct C1 & C2 Work Request: 3885

Dynamic Cone Penetrometer Multi

Dynamic Cone Penetrometer Test Details

Max. # of Tests	67
Number of Rows	30
Location Type	Easting & Northing
Increment Size (mm)	100
Note: Increment size should be 50mm or 100mm for this test method	

Preparation and Equipment

DCP #	D-22	Drop Height 510 ± 5mm	510
Cone Sharpness	OK	Ruler #	HQA08

Dynamic Cone Penetrometer (AS 1289 6.3.2)

Sample #	D21-3885BA	D21-3885BB	D21-3885BC	D21-3885BD	D21-3885BE	D21-3885BF
Location	15594	15593/15594	15593	15592	15591/15592	15591
Easting	718709	718697	718695	718682	718677	718673
Northing	8615484	8615486	8615486	8615485	8615484	8615492
Soil Description	Refer to Logs	Refer to Logs	Refer to Logs	Refer to Logs	Refer to Logs	Refer to Logs
Reduced Level (mm)						
Moisture Condition	Dry	Dry	Dry	Dry	Dry	Dry
Start Depth (mm)	0	0	0	0	0	0
0-100 blows/100 mm	26	32	28	36	43	26
100-200 blows/100 mm	Refusal <45	Refusal <60	Refusal <45	33	Refusal <90	Refusal <45
200-300 blows/100 mm				Refusal <140		
300-400 blows/100 mm						
400-500 blows/100 mm						
500-600 blows/100 mm						
600-700 blows/100 mm						
700-800 blows/100 mm						
800-900 blows/100 mm						
900-1000 blows/100 mm						
1000-1100 blows/100 mm						
1100-1200 blows/100 mm						
1200-1300 blows/100 mm						
1300-1400 blows/100 mm						
1400-1500 blows/100 mm						
1500-1600 blows/100 mm						
1600-1700 blows/100 mm						
1700-1800 blows/100 mm						
1800-1900 blows/100 mm						
1900-2000 blows/100 mm						
2000-2100 blows/100 mm						
2100-2200 blows/100 mm						
2200-2300 blows/100 mm						
2300-2400 blows/100 mm						
2400-2500 blows/100 mm						
2500-2600 blows/100 mm						
2600-2700 blows/100 mm						
2700-2800 blows/100 mm						
2800-2900 blows/100 mm						
2900-3000 blows/100 mm						
Ground Water Level						
Remarks						

Dynamic Cone Penetrometer (AS 1289 6.3.2)

Sample #	D21-3885BG	D21-3885BH	D21-3885BI	D21-3885BJ	D21-3885BK	D21-3885BL
Location	15590	15589/15590	15589	15588	15588/15587	15603
Easting	718661	718648	718644	718632	718626	718592
Northing	8615485	8615486	8615486	8615486	8615485	8615605
Soil Description	Refer to Logs	Refer to Logs	Refer to Logs	Refer to Logs	Refer to Logs	Refer to Logs
Reduced Level (mm)						
Moisture Condition	Dry	Dry	Dry	Dry	Dry	Dry
Start Depth (mm)	0	0	0	0	0	0
0-100 blows/100 mm	27	23	41	40	21	22
100-200 blows/100 mm	26	Refusal<45	Refusal <95	Refusal <60	Refusal <45	20
200-300 blows/100 mm	Refusal <140					Refusal <135
300-400 blows/100 mm						
400-500 blows/100 mm						
500-600 blows/100 mm						
600-700 blows/100 mm						
700-800 blows/100 mm						
800-900 blows/100 mm						
900-1000 blows/100 mm						
1000-1100 blows/100 mm						
1100-1200 blows/100 mm						
1200-1300 blows/100 mm						
1300-1400 blows/100 mm						
1400-1500 blows/100 mm						
1500-1600 blows/100 mm						
1600-1700 blows/100 mm						
1700-1800 blows/100 mm						
1800-1900 blows/100 mm						
1900-2000 blows/100 mm						
2000-2100 blows/100 mm						
2100-2200 blows/100 mm						
2200-2300 blows/100 mm						
2300-2400 blows/100 mm						
2400-2500 blows/100 mm						
2500-2600 blows/100 mm						
2600-2700 blows/100 mm						
2700-2800 blows/100 mm						
2800-2900 blows/100 mm						
2900-3000 blows/100 mm						
Ground Water Level						
Remarks						

Dynamic Cone Penetrometer (AS 1289 6.3.2)

Sample #	D21-3885BM	D21-3885BN	D21-3885BO	D21-3885BP	D21-3885BQ	D21-3885BR
Location	15603	15560	15560/15661	15561	15562	15562/15563
Easting	718614	718662	718661	718662	718661	718663
Northing	8615621	8615645	8615634	8615633	8615629	8615623
Soil Description	Refer to Logs	Refer to Logs	Refer to Logs	Refer to Logs	Refer to Logs	Refer to Logs
Reduced Level (mm)						
Moisture Condition	Dry	Dry	Dry	Dry	Dry	Dry
Start Depth (mm)	0	0	0	0	0	0
0-100 blows/100 mm	21	13	15	14	18	17
100-200 blows/100 mm	19	13	26	14	38	35
200-300 blows/100 mm	Refusal <130	14	11	32	12	36
300-400 blows/100 mm		14	12	31	Refusal <220	36
400-500 blows/100 mm		15	17	23		Refusal <360
500-600 blows/100 mm		14	20	20		
600-700 blows/100 mm		16	20	22		
700-800 blows/100 mm		11	15	12		
800-900 blows/100 mm		20	9	5		
900-1000 blows/100 mm		14	5	4		
1000-1100 blows/100 mm		22	6	12		
1100-1200 blows/100 mm		19	4	13		
1200-1300 blows/100 mm		16	3	Refusal <1120		
1300-1400 blows/100 mm		12	3			
1400-1500 blows/100 mm		25	6			
1500-1600 blows/100 mm		12	14			
1600-1700 blows/100 mm		Refusal <1520	Terminated			
1700-1800 blows/100 mm						
1800-1900 blows/100 mm						
1900-2000 blows/100 mm						
2000-2100 blows/100 mm						
2100-2200 blows/100 mm						
2200-2300 blows/100 mm						
2300-2400 blows/100 mm						
2400-2500 blows/100 mm						
2500-2600 blows/100 mm						
2600-2700 blows/100 mm						
2700-2800 blows/100 mm						
2800-2900 blows/100 mm						
2900-3000 blows/100 mm						
Ground Water Level						
Remarks						

Dynamic Cone Penetrometer (AS 1289 6.3.2)

Sample #	D21-3885BS	D21-3885BT	D21-3885BU	D21-3885BV	D21-3885BW	D21-3885BX
Location	15563	15564	15567	15567/15568	15568	15569
Easting	718664	718672	718592	718597	718602	718613
Northing	8615618	8615624	8615555	8615556	8615556	8615555
Soil Description	Refer to Logs	Refer to Logs	Refer to Logs	Refer to Logs	Refer to Logs	Refer to Logs
Reduced Level (mm)						
Moisture Condition	Dry	Dry	Dry	Dry	Dry	Dry
Start Depth (mm)	0	0	0	0	0	0
0-100 blows/100 mm	46	14	8	9	8	10
100-200 blows/100 mm	Refusal <80	40	4	6	10	4
200-300 blows/100 mm		24	5	3	10	10
300-400 blows/100 mm		44	10	3	10	7
400-500 blows/100 mm		34	13	6	10	8
500-600 blows/100 mm		20	12	13	10	9
600-700 blows/100 mm		26	16	23	12	17
700-800 blows/100 mm		10	17	20	20	28
800-900 blows/100 mm		15	23	27	42	63
900-1000 blows/100 mm		13	Refusal <830	Refusal <870	Refusal <870	Refusal <880
1000-1100 blows/100 mm		14				
1100-1200 blows/100 mm		16				
1200-1300 blows/100 mm		15				
1300-1400 blows/100 mm		30				
1400-1500 blows/100 mm		Refusal<1330				
1500-1600 blows/100 mm						
1600-1700 blows/100 mm						
1700-1800 blows/100 mm						
1800-1900 blows/100 mm						
1900-2000 blows/100 mm						
2000-2100 blows/100 mm						
2100-2200 blows/100 mm						
2200-2300 blows/100 mm						
2300-2400 blows/100 mm						
2400-2500 blows/100 mm						
2500-2600 blows/100 mm						
2600-2700 blows/100 mm						
2700-2800 blows/100 mm						
2800-2900 blows/100 mm						
2900-3000 blows/100 mm						
Ground Water Level						
Remarks						

Dynamic Cone Penetrometer (AS 1289 6.3.2)

Sample #	D21-3885BY	D21-3885BZ	D21-3885CA	D21-3885CB	D21-3885CC	D21-3885CD
Location	15569/15570	15570	15571	15571/15572	15572	15573
Easting	718620	718624	718643	718650	718658	718673
Northing	8615558	8615553	8615557	8615559	8615559	8615565
Soil Description	Refer to Logs	Refer to Logs	Refer to Logs	Refer to Logs	Refer to Logs	Refer to Logs
Reduced Level (mm)						
Moisture Condition	Dry	Dry	Dry	Dry	Dry	Dry
Start Depth (mm)	0	0	0	0	0	0
0-100 blows/100 mm	15	15	20	13	10	10
100-200 blows/100 mm	8	13	11	8	8	13
200-300 blows/100 mm	7	19	18	14	11	28
300-400 blows/100 mm	5	16	15	15	13	15
400-500 blows/100 mm	5	12	12	23	12	11
500-600 blows/100 mm	8	19	11	13	11	19
600-700 blows/100 mm	9	19	33	24	15	19
700-800 blows/100 mm	21	40	32	47	18	21
800-900 blows/100 mm	50	Refusal <780	Refusal <740	Refusal <760	49	53
900-1000 blows/100 mm	20				53	Refusal <840
1000-1100 blows/100 mm	Refusal<910				Refusal <880	
1100-1200 blows/100 mm						
1200-1300 blows/100 mm						
1300-1400 blows/100 mm						
1400-1500 blows/100 mm						
1500-1600 blows/100 mm						
1600-1700 blows/100 mm						
1700-1800 blows/100 mm						
1800-1900 blows/100 mm						
1900-2000 blows/100 mm						
2000-2100 blows/100 mm						
2100-2200 blows/100 mm						
2200-2300 blows/100 mm						
2300-2400 blows/100 mm						
2400-2500 blows/100 mm						
2500-2600 blows/100 mm						
2600-2700 blows/100 mm						
2700-2800 blows/100 mm						
2800-2900 blows/100 mm						
2900-3000 blows/100 mm						
Ground Water Level						
Remarks						

Dynamic Cone Penetrometer (AS 1289 6.3.2)

Sample #	D21-3885CE	D21-3885CF	D21-3885CG	D21-3885CH	D21-3885CI	D21-3885CJ
Location	15573	15574	15574/15575	15575	15576	15577/15576
Easting	718672	718700	718699	718701	718701	718700
Northing	8615555	8615567	8615562	8615557	8615541	8615533
Soil Description	Refer to Logs	Refer to Logs	Refer to Logs	Refer to Logs	Refer to Logs	Refer to Logs
Reduced Level (mm)						
Moisture Condition	Dry	Dry	Dry	Dry	Dry	Dry
Start Depth (mm)	0	0	0	0	0	0
0-100 blows/100 mm	7	8	20	17	8	8
100-200 blows/100 mm	6	7	15	14	8	6
200-300 blows/100 mm	9	15	25	11	16	17
300-400 blows/100 mm	16	12	35	30	18	14
400-500 blows/100 mm	14	26	26	36	44	16
500-600 blows/100 mm	15	21	18	47	44	16
600-700 blows/100 mm	15	20	18	23	Refusal <570	12
700-800 blows/100 mm	25	32	31	16		10
800-900 blows/100 mm	20	24	28	27		10
900-1000 blows/100 mm	50	8	38	24		18
1000-1100 blows/100 mm	24	10	26	22		Refusal <945
1100-1200 blows/100 mm	Refusal<1040	17	Refusal<1045	11		
1200-1300 blows/100 mm		9		14		
1300-1400 blows/100 mm		6		27		
1400-1500 blows/100 mm		6		26		
1500-1600 blows/100 mm		8		15		
1600-1700 blows/100 mm		21		Refusal<1515		
1700-1800 blows/100 mm		32				
1800-1900 blows/100 mm		Refusal<1780				
1900-2000 blows/100 mm						
2000-2100 blows/100 mm						
2100-2200 blows/100 mm						
2200-2300 blows/100 mm						
2300-2400 blows/100 mm						
2400-2500 blows/100 mm						
2500-2600 blows/100 mm						
2600-2700 blows/100 mm						
2700-2800 blows/100 mm						
2800-2900 blows/100 mm						
2900-3000 blows/100 mm						
Ground Water Level						
Remarks						

Dynamic Cone Penetrometer (AS 1289 6.3.2)

Sample #	D21-3885CK	D21-3885CL	D21-3885CM	D21-3885CN	D21-3885CO	D21-3885CP
Location	15577	15587	15586	15585/15586	15585	15595
Easting	718699	718622	718614	718600	718592	718740
Northing	8615523	8615484	8615481	8615479	8615477	8615482
Soil Description	Refer to Logs	Refer to Logs	Refer to Logs	Refer to Logs	Refer to Logs	Refer to Logs
Reduced Level (mm)						
Moisture Condition	Dry	Dry	Dry	Dry	Dry	Dry
Start Depth (mm)	0	0	0	0	0	0
0-100 blows/100 mm	10	22	22	23	42	27
100-200 blows/100 mm	11	Refusal <45	Refusal <45	Refusal <40	Refusal <90	24
200-300 blows/100 mm	27					12
300-400 blows/100 mm	18					22
400-500 blows/100 mm	42					22
500-600 blows/100 mm	26					Refusal <540
600-700 blows/100 mm	16					
700-800 blows/100 mm	19					
800-900 blows/100 mm	27					
900-1000 blows/100 mm	29					
1000-1100 blows/100 mm	40					
1100-1200 blows/100 mm	Refusal<1080					
1200-1300 blows/100 mm						
1300-1400 blows/100 mm						
1400-1500 blows/100 mm						
1500-1600 blows/100 mm						
1600-1700 blows/100 mm						
1700-1800 blows/100 mm						
1800-1900 blows/100 mm						
1900-2000 blows/100 mm						
2000-2100 blows/100 mm						
2100-2200 blows/100 mm						
2200-2300 blows/100 mm						
2300-2400 blows/100 mm						
2400-2500 blows/100 mm						
2500-2600 blows/100 mm						
2600-2700 blows/100 mm						
2700-2800 blows/100 mm						
2800-2900 blows/100 mm						
2900-3000 blows/100 mm						
Ground Water Level						
Remarks						

Dynamic Cone Penetrometer (AS 1289 6.3.2)

Sample #	D21-3885CQ	D21-3885CR	D21-3885CS	D21-3885CT	D21-3885CU	D21-3885CV
Location	15595/15596	15578	15579/15578	15579	15580	15581/15580
Easting	718739	718676	718669	718662	718647	718635
Northing	8615489	8615529	8615525	8615527	8615528	8615526
Soil Description	Refer to Logs	Refer to Logs	Refer to Logs	Refer to Logs	Refer to Logs	Refer to Logs
Reduced Level (mm)						
Moisture Condition	Dry	Dry	Dry	Dry	Dry	Dry
Start Depth (mm)	0	0	0	0	0	0
0-100 blows/100 mm	32	40 Refusal	29 Refusal	32 Refusal	36	24 Refusal
100-200 blows/100 mm	32				40	
200-300 blows/100 mm	30				24	
300-400 blows/100 mm	28				30	
400-500 blows/100 mm	30				30	
500-600 blows/100 mm	22				35	
600-700 blows/100 mm	33				28 Refusal	
700-800 blows/100 mm	Refusal <80					
800-900 blows/100 mm						
900-1000 blows/100 mm						
1000-1100 blows/100 mm						
1100-1200 blows/100 mm						
1200-1300 blows/100 mm						
1300-1400 blows/100 mm						
1400-1500 blows/100 mm						
1500-1600 blows/100 mm						
1600-1700 blows/100 mm						
1700-1800 blows/100 mm						
1800-1900 blows/100 mm						
1900-2000 blows/100 mm						
2000-2100 blows/100 mm						
2100-2200 blows/100 mm						
2200-2300 blows/100 mm						
2300-2400 blows/100 mm						
2400-2500 blows/100 mm						
2500-2600 blows/100 mm						
2600-2700 blows/100 mm						
2700-2800 blows/100 mm						
2800-2900 blows/100 mm						
2900-3000 blows/100 mm						
Ground Water Level						
Remarks						

Dynamic Cone Penetrometer (AS 1289 6.3.2)

Sample #	D21-3885CW	D21-3885CX	D21-3885CY	D21-3885CZ	D21-3885DA	D21-3885DB
Location	15581	15582	15582/15583	15583	15584	15597
Easting	718633	718618	718609	718606	718589	718739
Northing	8615527	8615528	8615527	8615526	8615527	8615497
Soil Description	Refer to Logs	Refer to Logs	Refer to Logs	Refer to Logs	Refer to Logs	Refer to Logs
Reduced Level (mm)						
Moisture Condition	Dry	Dry	Dry	Dry	Dry	Dry
Start Depth (mm)	0	0	0	0	0	0
0-100 blows/100 mm	17 Refusal	15 Refusal	12 Refusal	16 Refusal	35	38
100-200 blows/100 mm					27	36
200-300 blows/100 mm					9 Refusal	38
300-400 blows/100 mm						28
400-500 blows/100 mm						20
500-600 blows/100 mm						19
600-700 blows/100 mm						18
700-800 blows/100 mm						Refusal <70
800-900 blows/100 mm						Hit rock
900-1000 blows/100 mm						
1000-1100 blows/100 mm						
1100-1200 blows/100 mm						
1200-1300 blows/100 mm						
1300-1400 blows/100 mm						
1400-1500 blows/100 mm						
1500-1600 blows/100 mm						
1600-1700 blows/100 mm						
1700-1800 blows/100 mm						
1800-1900 blows/100 mm						
1900-2000 blows/100 mm						
2000-2100 blows/100 mm						
2100-2200 blows/100 mm						
2200-2300 blows/100 mm						
2300-2400 blows/100 mm						
2400-2500 blows/100 mm						
2500-2600 blows/100 mm						
2600-2700 blows/100 mm						
2700-2800 blows/100 mm						
2800-2900 blows/100 mm						
2900-3000 blows/100 mm						
Ground Water Level						
Remarks						

Dynamic Cone Penetrometer (AS 1289 6.3.2)

Sample #	D21-3885DC	D21-3885DD	D21-3885DE	D21-3885DF	D21-3885DG	D21-3885DH
Location	15596	15597/15598	15598	15599	15566	15566
Easting	718740	718743	716741	718742	718706	718702
Northing	8615509	8615519	8615524	8615533	8615622	8615624
Soil Description	Refer to Logs	Refer to Logs	Refer to Logs	Refer to Logs	Refer to Logs	Refer to Logs
Reduced Level (mm)						
Moisture Condition	Dry	Dry	Dry	Dry	Dry	Dry
Start Depth (mm)	0	0	0	0	0	0
0-100 blows/100 mm	46	30	35	40	18	19
100-200 blows/100 mm	Refusal <90	Refusal <60	Refusal <60	Refusal <90	28	30
200-300 blows/100 mm					17	20
300-400 blows/100 mm					10	12
400-500 blows/100 mm					9	14
500-600 blows/100 mm					13	11
600-700 blows/100 mm					15	17
700-800 blows/100 mm					20	14
800-900 blows/100 mm					16	22
900-1000 blows/100 mm					21	27
1000-1100 blows/100 mm					19	25
1100-1200 blows/100 mm					11	27
1200-1300 blows/100 mm					10	31
1300-1400 blows/100 mm					13 Refusal	47 Refusal
1400-1500 blows/100 mm						
1500-1600 blows/100 mm						
1600-1700 blows/100 mm						
1700-1800 blows/100 mm						
1800-1900 blows/100 mm						
1900-2000 blows/100 mm						
2000-2100 blows/100 mm						
2100-2200 blows/100 mm						
2200-2300 blows/100 mm						
2300-2400 blows/100 mm						
2400-2500 blows/100 mm						
2500-2600 blows/100 mm						
2600-2700 blows/100 mm						
2700-2800 blows/100 mm						
2800-2900 blows/100 mm						
2900-3000 blows/100 mm						
Ground Water Level						
Remarks						

Dynamic Cone Penetrometer (AS 1289 6.3.2)

Sample #	D21-3885DI	D21-3885DJ	D21-3885DK	D21-3885DL	D21-3885DM	D21-3885DN
Location	15565	15564/15565	15599/15600	15600	15601	15601/15602
Easting	718686	718680	718742	718743	718742	718743
Northing	8615626	8615626	8615539	8615553	8615567	8615575
Soil Description	Refer to Logs	Refer to Logs	Refer to Logs	Refer to Logs	Refer to Logs	Refer to Logs
Reduced Level (mm)						
Moisture Condition	Dry	Dry	Dry	Dry	Dry	Dry
Start Depth (mm)	0	0	0	0	0	0
0-100 blows/100 mm	17	12	37	44	45	40
100-200 blows/100 mm	27	22	32	Refusal <90	Refusal <95	41
200-300 blows/100 mm	25	25	18			Refusal <195
300-400 blows/100 mm	12	27	25			
400-500 blows/100 mm	8	15	23			
500-600 blows/100 mm	8	14	12			
600-700 blows/100 mm	11	7	13			
700-800 blows/100 mm	11	5	20			
800-900 blows/100 mm	13	11	10			
900-1000 blows/100 mm	8	13	8			
1000-1100 blows/100 mm	24 Refusal	13	17			
1100-1200 blows/100 mm		9	19			
1200-1300 blows/100 mm		17	22			
1300-1400 blows/100 mm		29	17			
1400-1500 blows/100 mm		17	8			
1500-1600 blows/100 mm		15	8			
1600-1700 blows/100 mm		13	14			
1700-1800 blows/100 mm		17	9			
1800-1900 blows/100 mm		9 Refusal	10			
1900-2000 blows/100 mm			Terminated			
2000-2100 blows/100 mm						
2100-2200 blows/100 mm						
2200-2300 blows/100 mm						
2300-2400 blows/100 mm						
2400-2500 blows/100 mm						
2500-2600 blows/100 mm						
2600-2700 blows/100 mm						
2700-2800 blows/100 mm						
2800-2900 blows/100 mm						
2900-3000 blows/100 mm						
Ground Water Level						
Remarks						

Dynamic Cone Penetrometer (AS 1289 6.3.2)						
Sample #	D21-3885DO					
Location	15602					
Easting	718744					
Northing	8615586					
Soil Description	Refer to Logs					
Reduced Level (mm)						
Moisture Condition	Dry					
Start Depth (mm)	0					
0-100 blows/100 mm	26					
100-200 blows/100 mm	Refusal <35					
200-300 blows/100 mm						
300-400 blows/100 mm						
400-500 blows/100 mm						
500-600 blows/100 mm						
600-700 blows/100 mm						
700-800 blows/100 mm						
800-900 blows/100 mm						
900-1000 blows/100 mm						
1000-1100 blows/100 mm						
1100-1200 blows/100 mm						
1200-1300 blows/100 mm						
1300-1400 blows/100 mm						
1400-1500 blows/100 mm						
1500-1600 blows/100 mm						
1600-1700 blows/100 mm						
1700-1800 blows/100 mm						
1800-1900 blows/100 mm						
1900-2000 blows/100 mm						
2000-2100 blows/100 mm						
2100-2200 blows/100 mm						
2200-2300 blows/100 mm						
2300-2400 blows/100 mm						
2400-2500 blows/100 mm						
2500-2600 blows/100 mm						
2600-2700 blows/100 mm						
2700-2800 blows/100 mm						
2800-2900 blows/100 mm						
2900-3000 blows/100 mm						
Ground Water Level						
Remarks						

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