

Job No: S1108183 – W23-01994

12 September 2023

SRK Contractors Pty Ltd
8 Comino Street
Cloverdale WA 6105

Attention: Mr Maha Jagaan

EARTHWORKS COMPLETION REPORT LOT 9012 JAYES ROAD, PIARA WATERS

1. INTRODUCTION

At the request of Mr Maha Jagaan of SRK Contractors Pty Ltd, a representative from Structerre Consulting Engineers regularly attended the above site from April to September 2023 to undertake earthworks verification assessments. The purpose of this assessment is to provide a Site Classification in accordance with AS 2870-2011 Residential slabs and footings and Geotechnical Certification after completion of bulk earthworks.

The following Geotechnical Reporting has been carried out for this project.

- Galt Geotechnics Report on Geotechnical Study Proposed Residential Subdivision – Lot 9012 Jayes Road Piara Waters - Reference No. WAG220032-01-002 R Rev 1 dated 30 January 2023,
- Structerre Geotechnical Investigation and Report (Draft) C Y O'Connor Village – Piara Waters, Reference J372998 Revision 0 dated 12 December 2021,
- Biosciences C Y O'Connor Borrow Pit – Completion Report dated 7 August 2012,
- Appendices A, B, C and D to Local Geotechnics Geotechnical Investigation Reference LGK2392021GI
- Fill Records (Author Unknown) 3 Pages
- Structerre Consulting Desktop Review of Geotechnical Information – Reference J427872 dated 24 February 2023.

A copy of the plan outlining the development is attached to this letter.

2. INITIAL SITE CLASSIFICATION & RECOMMENDATIONS

Structerre Consulting classified the site as Class 'A' and 'Equivalent Class A' in accordance with AS2870-2011, providing the following relevant summarised earthworks recommendations were undertaken:

Site Preparation

- Clear and remove all deleterious materials including vegetation and topsoil prior to excavation of foundation and/or placement of controlled structural fill – Class A.
- Partial removal of deleterious materials / uncontrolled fill, raking and proof compaction of the remaining foundation. Followed by backfilling with a minimum of 1.6m of structural fill – Equivalent Class A.

3. FIELDWORK

3.1. FIELDWORK BY STRUCTERRE

A representative from Structerre Consulting Engineers, (Structerre), attended the site during and at the completion of the project to assess works. Field testing comprising of hand auger boreholes, Perth Sand Penetrometer (PSP) tests (in accordance with AS 1289 6.3.3), and Constant Head Permeability Testing (in accordance with AS 1547) was conducted by Structerre to confirm the following:

- Class A - Adequate removal of all deleterious matter, topsoils and vegetation.
- Equivalent Class A – Adequate removal of sufficient deleterious matter, topsoils and vegetation.
- Class A - Inspection of stripped surface for material suitability and proof compaction.
- Equivalent Class A – Placement of sufficient crushed limestone over stripped topsoil to allow 1.6m of suitable fill sand to final surface level.
- Assessment of import fill.
- Audit of compaction of fill materials placed.
- Audit boreholes to confirm thickness of inert fill and or in-situ sand.
- Permeability testing of placed and compacted import sand fill.

Ground conditions of the site at completion of the earthworks were obtained by hand auger and are summarised below;

Location	Description
BH 1	0-1800mm SAND SP (Fill), yellow - white, fine to medium grained, non-plastic.
BH 2	0-1800mm SAND SP (Fill), yellow - white, fine to medium grained, non-plastic.
BH 3	0-1800mm SAND SP (Fill), yellow - white, fine to medium grained, non-plastic.

General observations and the subsequent results obtained from Structerre's audit testing on site indicate the earthworks were conducted in accordance with AS 3798-2007 Guidelines on earthworks for commercial and residential developments, provided drawings, and relevant section of the geotechnical investigations.

3.2. FIELDWORK BY OTHERS

During the earthworks, the Contractor performed regular compaction testing using a PSP to test the compaction of placed fill materials. These test results form part of the assessment in determining site classification for the stage.

4. SITE CLASSIFICATION

AS 2870-2011 provides the site classification based on the determination of potential surface movements from seasonal moisture change. Based on the site testing and observations performed by Structerre, in addition to the information forwarded by SRK Contractors Pty Ltd, LOT 9012 JAYES ROAD, PIARA WATERS (as noted below) can be classified as:

Site Classification Class 'A'.

Lots 22 to 41 (inclusive)

Lots 54 to 59 (inclusive)

Lot 80

Site Classification Equivalent Class 'A' (with B1 Detail)

Lots 20 to 21 (inclusive)

Lots 42 to 43 (inclusive)

Lots 50 to 53 (inclusive)

Lots 60 to 67 (inclusive)

Lot 81 to 82 (inclusive)

These assessments are based on the following:

- All stormwater runoff from roofs and paved areas is disposed of as far as practical from structures to reduce the risk of differential settlements.

5. CONCLUSION

This assessment is based on the site condition at the time of testing by Structerre. No allowance has been made for future disturbance for installation of underground services, or additional earthworks by builders or others. Builders should carry out their own compaction checks on a lot-by-lot basis, compacting any localised loose areas where necessary.

Please note that the horizontal and vertical limits of the earthworks were determined by others, and as such, Structerre does not provide any comment as to whether these aspects are compliant with the plans and specifications for the project. Structerre does not guarantee earthwork construction, nor relieve the earthwork contractor of their responsibility to perform the earthworks in accordance to the contract plans and specifications.

We trust this meets with your requirements. Should you require any additional information, or clarification of the above, please contact the undersigned.

For and behalf of

STRUCTERRE CONSULTING ENGINEERS

A handwritten signature in blue ink, appearing to read 'Wayne Rozmianiec', is written over the printed name.

Wayne Rozmianiec
Laboratory Manager

Appendices:

Appendix 1 – Site Plan

Appendix 2 – Field and Test Data

References:

AS2870-2011 Residential Slabs and Footing

AS3798-2007 Guidelines on earthworks for commercial and residential developments

AS1289 Method of Testing Soil for Engineering Purposes

APPENDIX 1 – SITE PLAN

APPENDIX 2 – STRUCTERRE TEST RESULTS

Correlation Report



Malaga Laboratory
44 Crocker Drive, Malaga, WA 6090
Post: PO Box 792, Balcatta WA 6914
Ph : 908) 9205 4500
Email: wageotechlab@strucsterre.com.au
Website: www.strucsterre.com.au
ABN: 71 349 772 837 / ACN: 008 966 283

Compaction Correlation Report

Report Number CCR:W23-01460

07/07/2023

Issue 1

Client: SRK Contractors Pty Ltd
Client Address: PO Box 1020 Cloverdale WA 6985
Project: Lot 9012 Jayes Rd, Piara Waters
Project No: D312869

Authorised Signatory Jacob Pritchard

Sample Details

Location PSP Correlation
Laboratory Test Procedures 0,AS 1289.5.8.1
Field Test Procedures AS 1289.5.8.1
Sampling Method AS1289.1.2.1 6.4(b) -Compacted
Date of Test 4 Jul 2023

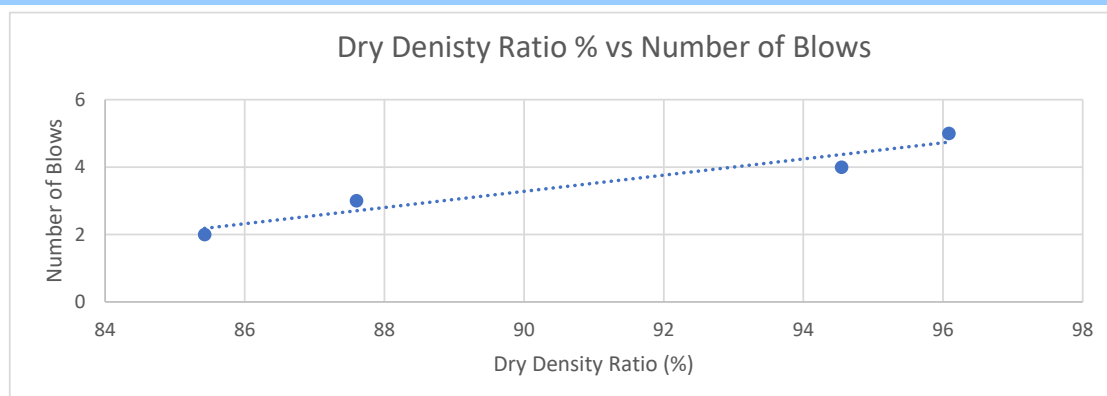
Field Test Results

Field Sample ID	1	2	3	4
Wet density (t/m ³)	1.631	1.651	1.784	1.782
Depth of Test (mm)	300	300	300	300
Thickness of the Layer (mm)	-	-	-	-
AS Sieve Size (mm)	0	0	0	0
Oversize Wet (%)	0	0	0	0
Oversize Dry (%)	0	0	0	0
Moisture content (%)	13.8	12.3	12.4	10.5
Dry density (t/m ³)	1.434	1.470	1.587	1.613
Moisture Ratio (%)	97.4	86.7	87.8	74.0
Moisture Variation (%)	0.4 DRY	1.9 DRY	1.7 DRY	3.7 DRY
Dry Density Ratio (%)	85.5	87.5	94.5	96.0
Number of Blows	2	3	4	5

Laboratory Test Results

Sample ID	23S-04874	Maximum Dry Density (t/m ³)	1.678
Material	Sand	Optimum Moisture Content (%)	14.2
Proposed Use	Fill		

Correlation



The results indicate that 5 blows are required to obtain a Dry Density Ratio of 95 %

Comments

Determination of the Penetration Resistance of Soil - AS 1289.6.3.3

Report Number: PSP:23S-03022

Date of issue: 27/04/2023

Issue Number: 1

Client: SRK Contractors Pty Ltd
Client Address: 8 Comino Street Cloverdale WA 6105
Project: lot 9012 Jayes Rd, Piara Waters
Project No: D312869

Accreditation Number 18742



WORLD RECOGNISED
ACCREDITATION

Approved Signatory: Ben Stroop

Accredited for compliance with ISO/IEC 17025-Testing

Location: Proposed Subdivision
Proposed Use: Foundation
Material Type: Sand
Site Selection Method: Client
Sampling Method: N/A
Date Tested: 27/04/2023

Work Order ID: W23-00871
Sample ID: 23S-03022
Depth of Test (mm): 1050
Layer Thickness (mm): -



Test Results

Test Site No.	1	2	3								
Chainage											
Offset											
Elevation											
Lot											
Retaining Wall No.											
Moisture Condition											
Depth Groundwater											
Depth of Test (mm)	Blows/300 mm										
0 - 150	Set Depth										
150 - 450	9	10	11								
450 - 750	20	19	20								
750 - 1050	25+	25+	25								
1050 - 1350											
1350 - 1650											
1650 - 1950											

Notes

PSP Report

Client:	SRK Contractors Pty Ltd
Client Address:	8 Comino Street Cloverdale WA 6105
Project:	lot 9012 Jayes Rd, Piara Waters
Project No:	D312869

Report Number: PSP:23S-03022	
Date of Issue: 27/04/2023	
Issue Number: 1	
Accreditation Number 18742	
 WORLD RECOGNISED ACCREDITATION	 Approved Signatory: Ben Stroop
Accredited for compliance with ISO/IEC 17025	



Determination of the Penetration Resistance of Soil - AS 1289.6.3.3



Report Number: PSP:23S-03113

Date of issue: 10/05/2023

Issue Number: 2

This report replaces all previous issues of report no PSP:23S-03113.

Client:	SRK Contractors Pty Ltd
Client Address:	8 Comino Street Cloverdale WA 6105
Project:	lot 9012 Jayes Rd, Piara Waters
Project No:	D312869

Accreditation Number 18742	
	
WORLD RECOGNISED ACCREDITATION	Approved Signatory: Wayne Rozmianiec
Accredited for compliance with ISO/IEC 17025-Testing	

Location:	Bulk Earthworks	Work Order ID:	W23-00895
Proposed Use:	Fill	Sample ID:	23S-03113
Material Type:	Sand	Depth of Test (mm):	1050
Site Selection Method:	Client	Layer Thickness (mm):	-
Sampling Method:	N/A		
Date Tested:	01/05/2023		

Test Results

Test Site No.	1	2	3	4	5	6	7	8	9	10
Moisture Condition										
Depth Groundwater										
Depth of Test (mm)	Blows/300 mm									
0 - 150	Set Depth									
150 - 450	14	17	15	9	16	12	18	17	12	8
450 - 750	25+	25+	25+	25+	25+	25+	25+	25+	25+	13
750 - 1050										20
1050 - 1350										
1350 - 1650										
1650 - 1950										

Test Results

Test Site No.	11	12	13	14	15	16	17	18	19	20
Moisture Condition										
Depth Groundwater										
Depth of Test (mm)	Blows/300 mm									
0 - 150	Set Depth									
150 - 450	9	6	17	10	5	5	5	5	7	5
450 - 750	25+	15	25+	16	12	10	9	10	13	12
750 - 1050		18		25+	20	18	17	18	21	19
1050 - 1350										
1350 - 1650										
1650 - 1950										



Comments

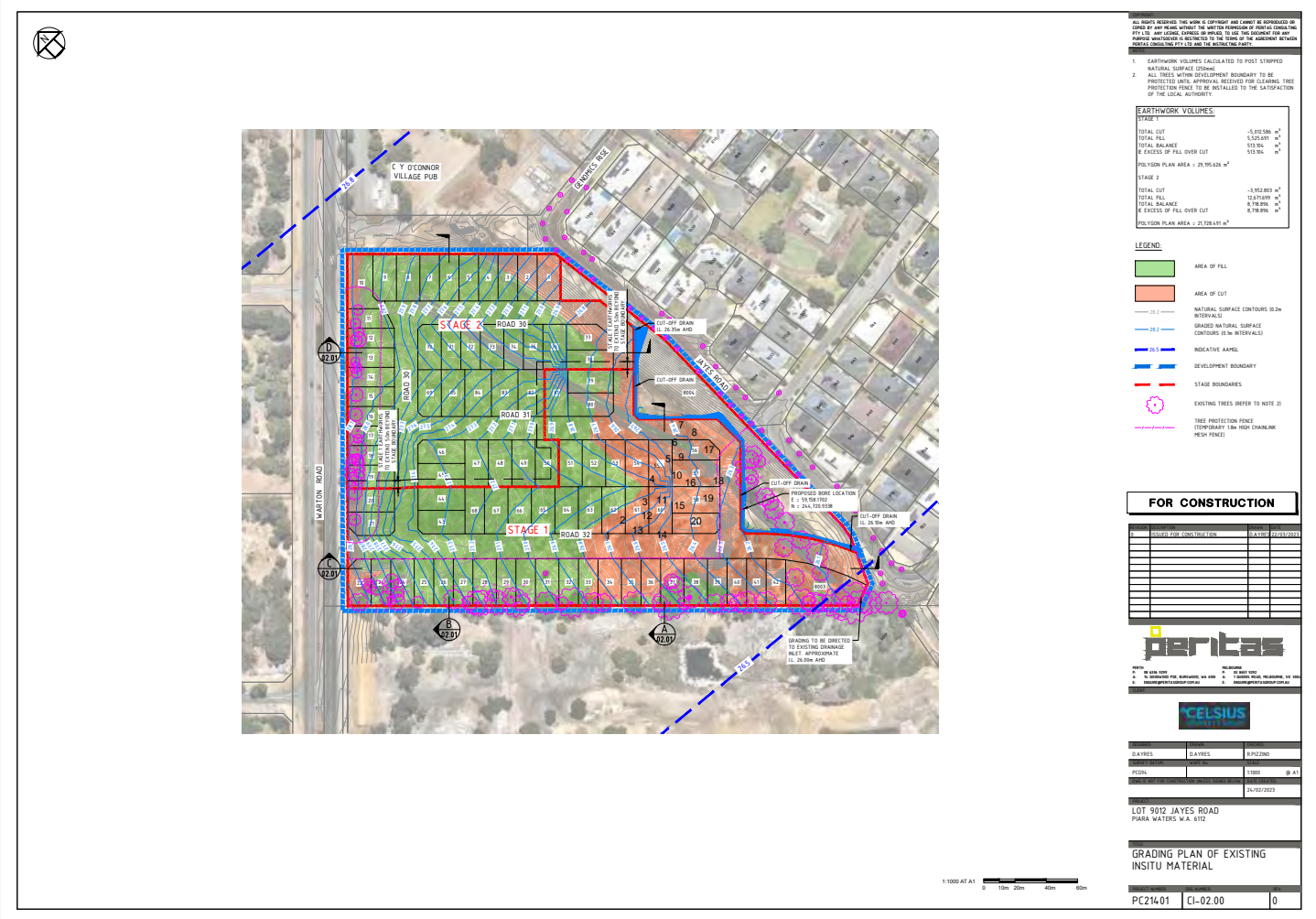
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PSP Report

Client:	SRK Contractors Pty Ltd
Client Address:	8 Comino Street Cloverdale WA 6105
Project:	lot 9012 Jayes Rd, Piara Waters
Project No:	D312869

Report Number: PSP:23S-03113
Date of Issue: 10/05/2023
Issue Number: 2
This report replaces all previous issues of report no 'PSP:23S-03113'.

Accreditation Number 18742

 WORLD RECOGNISED ACCREDITATION

 Approved Signatory: Wayne Rozmancic
 Accredited for compliance with ISO/IEC 17025





Determination of the Penetration Resistance of Soil - AS 1289.6.3.3

Report Number: PSP:23S-03205

Date of issue: 10/05/2023

Issue Number: 1

Client:	SRK Contractors Pty Ltd
Client Address:	8 Comino Street Cloverdale WA 6105
Project:	lot 9012 Jayes Rd, Piara Waters
Project No:	D312869

Accreditation Number 18742	
	
<small>WORLD RECOGNISED ACCREDITATION</small>	Approved Signatory: Wayne Rozmianiec
Accredited for compliance with ISO/IEC 17025-Testing	

Location:	Bulk Earthworks	Work Order ID:	W23-00928
Proposed Use:	Fill	Sample ID:	23S-03205
Material Type:	Sand	Depth of Test (mm):	1050
Site Selection Method:	Client	Layer Thickness (mm):	-
Sampling Method:	N/A		
Date Tested:	05/05/2023		

Test Results

Test Site No.	1	2	3	4	5	6	7	8		
Moisture Condition										
Depth Groundwater										
Depth of Test (mm)	Blows/300 mm									
0 - 150	Set Depth									
150 - 450	10	17	14	16	15	13	15	16		
450 - 750	25+	25+	25+	25+	25+	25+	25+	25+		
750 - 1050										
1050 - 1350										
1350 - 1650										
1650 - 1950										

Test Results



Test Site No.										
Moisture Condition										
Depth Groundwater										
Depth of Test (mm)	Blows/300 mm									
0 - 150	Set Depth									
150 - 450										
450 - 750										
750 - 1050										
1050 - 1350										
1350 - 1650										
1650 - 1950										

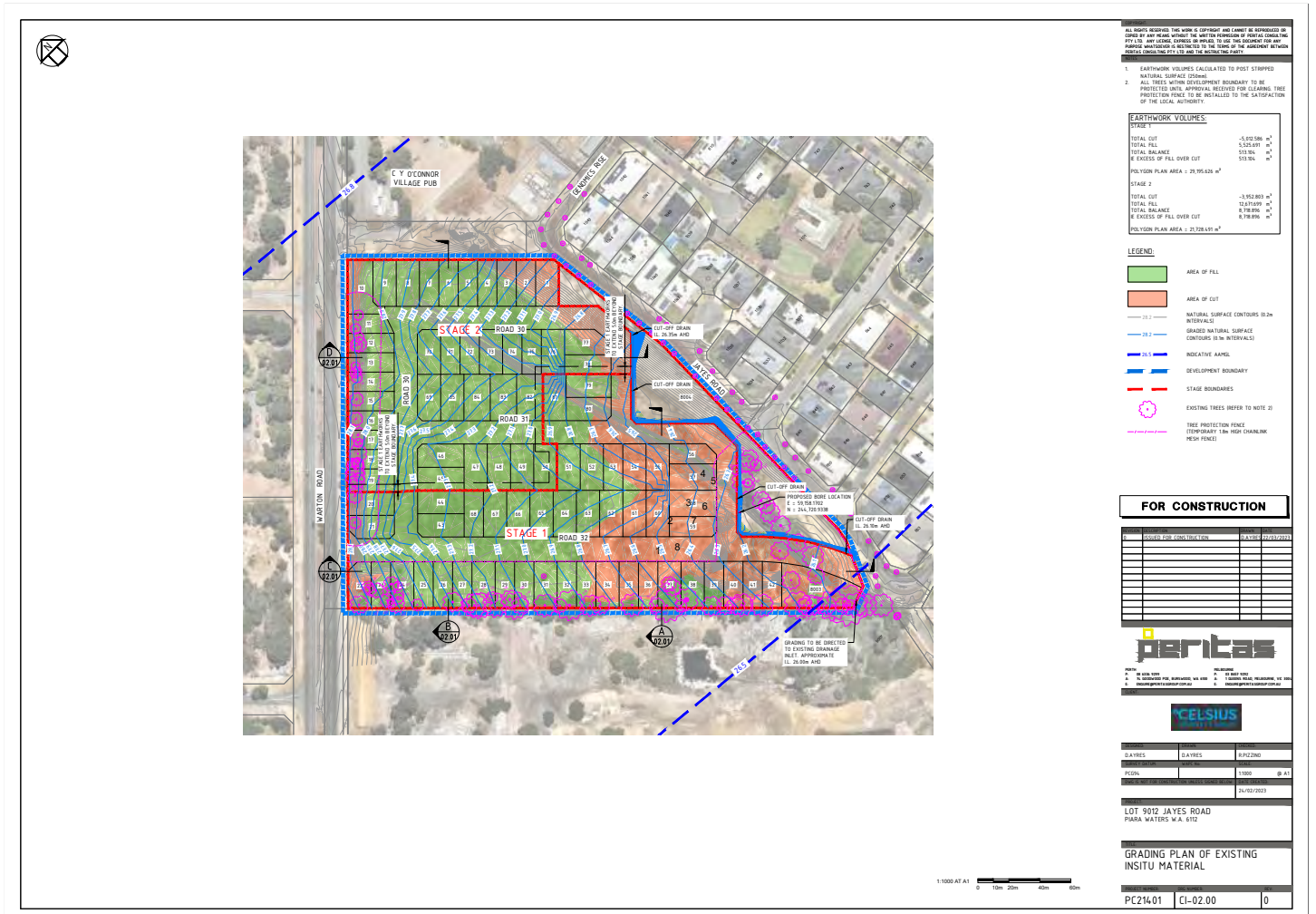
Comments

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PSP Report

Client:	SRK Contractors Pty Ltd
Client Address:	8 Comino Street Cloverdale WA 6105
Project:	lot 9012 Jayes Rd, Piara Waters
Project No:	D312869

Report Number: PSP:23S-03205	
Date of Issue: 10/05/2023	
Issue Number: 1	
Accreditation Number 18742	
	
WORLD RECOGNISED ACCREDITATION	Approved Signatory: Wayne Rozmancic
Accredited for compliance with ISO/IEC 17025	



Determination of the Penetration Resistance of Soil - AS 1289.6.3.3

Report Number: PSP:23S-03892

Date of issue: 30/05/2023

Issue Number: 1

Client:	SRK Contractors Pty Ltd
Client Address:	8 Comino Street Cloverdale WA 6105
Project:	Lot 9012 Jayes Rd, Piara Waters
Project No:	D312869

Accreditation Number 18742	
	
WORLD RECOGNISED ACCREDITATION	Approved Signatory: Ben Stroop
Accredited for compliance with ISO/IEC 17025-Testing	

Location:	Bulk Earthworks	Work Order ID:	W23-01169
Proposed Use:	Fill	Sample ID:	23S-03892
Material Type:	Sand	Depth of Test (mm):	1050
Site Selection Method:	Client	Layer Thickness (mm):	-
Sampling Method:	N/A		
Date Tested:	30/05/2023		

Test Results

Test Site No.	1	2	3	4	5	6	7	8	9	10
Moisture Condition										
Depth Groundwater										
Depth of Test (mm)	Blows/300 mm									
0 - 150	Set Depth									
150 - 450	6	5	5	5	6	8	5	5	8	8
450 - 750	9	8	7	7	11	12	10	9	9	12
750 - 1050	25+	25+	8R	13	4R	9R	11	14	11	15
1050 - 1350										
1350 - 1650										
1650 - 1950										

Test Results

Test Site No.	11	12	13	14	15					
Moisture Condition										
Depth Groundwater										
Depth of Test (mm)	Blows/300 mm									
0 - 150	Set Depth									
150 - 450	8	6	8	5	6					
450 - 750	11	8	9	6R	10					
750 - 1050	10	14	17		13					
1050 - 1350										
1350 - 1650										
1650 - 1950										

Comments

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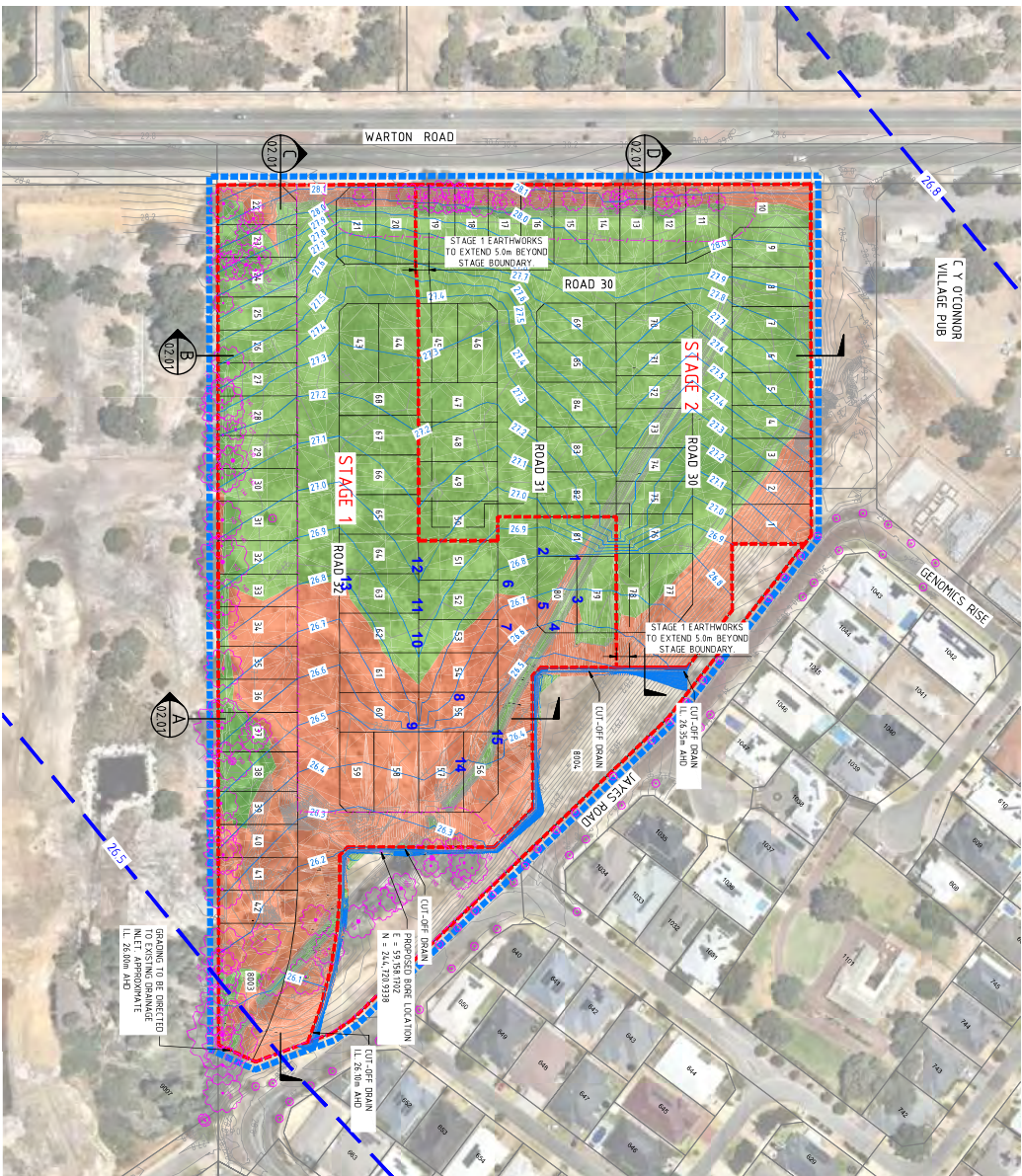











TABLE 1. The values of observed accuracy of the forecasting model for the 1990-1991 season. The values of the observed accuracy of the forecasting model for the 1990-1991 season are presented in Table 1. The values of the observed accuracy of the forecasting model for the 1990-1991 season are presented in Table 1.

	EXPLOSIVE TREES (REFER TO NOTE 20)
	TREE PROJECTION FENCE (TYPICALLY 1.8m HIGH CHAINLINK MESH FENCE)
	AREA OF FILL
	AREA OF CUT
	NATURAL SURFACE CONTOURS @ 2m INTERVALS
	GRADE NATURAL SURFACE CONTOURS @ 1m INTERVALS
	INDICATIVE ADPOSE
	DEVELOPMENT BOUNDARY
	STAGE BOUNDARIES

REVISION	DESCRIPTION	DRAWN	DATE
0	ISSUED FOR CONSTRUCTION	DAYRES	22/03/2023

[illegible]

PERTH	MELBOURNE
P1 08 6136 9299	F1 03 8657 9192
A1 74 GOVERNOR FLD, BURNWOOD, WA 6100	A1 1 OLEINS ROAD, MELBOURNE, VIC 300
E1 ENQUIRY@PERTH.ASGOLF.COM.AU	E1 ENQUIRY@PERTH.ASGOLF.COM.AU

**משרד
הבריאות**

DESIGNED	DATE	CHECKED
DAVIES	DAVIES	R. PIZZINO
SUPPLY DATE	DATE	SCALE
PC694	11000	@ 1"
DWG IS NOT FOR CONSTRUCTION UNLESS SIGNED BELOW		
DATE CREATED		



LOT 9012 JAYES ROAD
PIARA WATERS W.A. 6112

GRADING PLAN OF EXISTING INSITU MATERIAL

PROJECT NUMBER:	DWG. NUMBER:	REV.:
PC21401	CI-02.00	0

Determination of the Penetration Resistance of Soil - AS 1289.6.3.3

Client:	SRK Contractors Pty Ltd
Client Address:	8 Comino Street Cloverdale WA 6105
Project:	Lot 9012 Jayes Rd, Piara Waters
Project No:	D312869

Report Number: PSP:23S-04271	
Date of issue: 18/09/2023	
Issue Number: 2	
<i>This report replaces all previous issues of report no PSP:23S-04271.</i>	
Accreditation Number 18742	
	
WORLD RECOGNISED ACCREDITATION	Approved Signatory: Jacob Pritchard
Accredited for compliance with ISO/IEC 17025-Testing	

Location:	Bulk Earthworks	Work Order ID:	W23-01288
Proposed Use:	Fill & Foundation	Sample ID:	23S-04271
Material Type:	Sand	Depth of Test (mm):	1050
Site Selection Method:	Client	Layer Thickness (mm):	-
Sampling Method:	N/A		
Date Tested:	16/06/2023		

Test Results										
Test Site No.	1	2	3	4	5	6	7	8	9	10
Moisture Condition										
Depth Groundwater										
Depth of Test (mm)	Blows/300 mm									
0 - 150	Set Depth									
150 - 450	8	8	10	8	8	6	9	6	8	8
450 - 750	25+	16	20	25+	25+	18	25+	25+	16	16
750 - 1050		25+	25+			25+			19	25+
1050 - 1350										
1350 - 1650										
1650 - 1950										

Test Results										
Test Site No.	11	12	13	14	15	16	17			
Moisture Condition										
Depth Groundwater										
Depth of Test (mm)	Blows/300 mm									
0 - 150	Set Depth									
150 - 450	8	8	6	8	9	17	15			
450 - 750	16	13	12	16	25+	25+	25+			
750 - 1050	25+	25+	17	25+						
1050 - 1350										
1350 - 1650										
1650 - 1950										

Comments
Tests 1-6 conducted on placed fill and tests 7-17 conducted on existing foundation. Re-issued to amend site plan.

PSP Report

Client: SRK Contractors Pty Ltd

Client Address: 8 Comino Street Cloverdale WA 6105

Project: Lot 9012 Jayes Rd, Piara Waters

Project No: D312869

Report Number: PSP:23S-04271

Date of Issue: 18/09/2023

Issue Number: 2

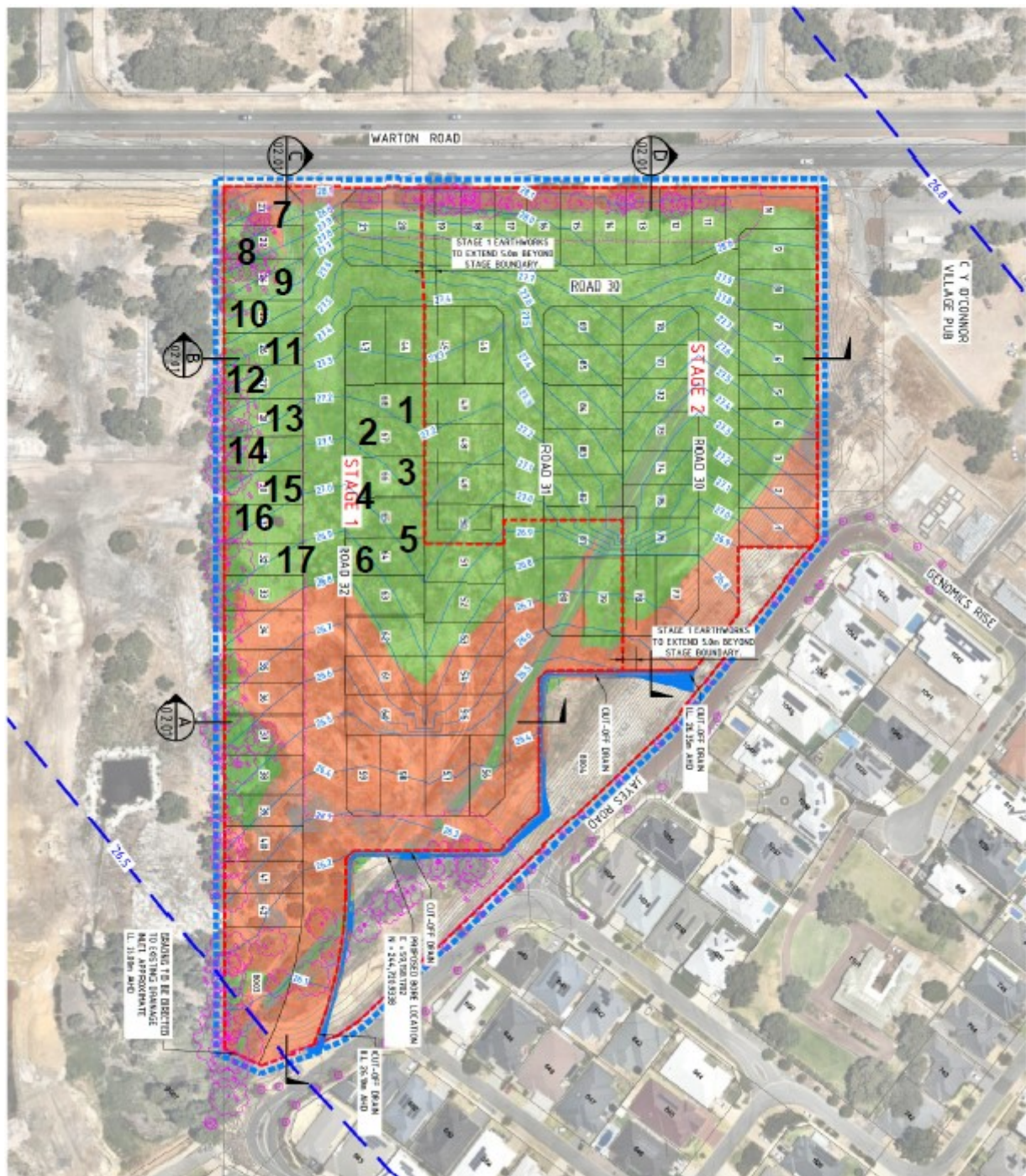
This report replaces all previous issues of report no 'PSP:23S-04271'.

Accreditation Number 18742



Approved Signatory: Jacob Pritchard

Accredited for compliance with ISO/IEC 17025



Determination of the Penetration Resistance of Soil - AS 1289.6.3.3

Report Number: PSP:23S-04475

Date of issue: 26/06/2023

Issue Number: 1

Client:	SRK Contractors Pty Ltd
Client Address:	8 Comino Street Cloverdale WA 6105
Project:	Lot 9012 Jayes Rd, Piara Waters
Project No:	D312869

Accreditation Number 18742	
	
WORLD RECOGNISED ACCREDITATION	Approved Signatory: Ben Stroop
Accredited for compliance with ISO/IEC 17025-Testing	

Location:	Bulk Earthworks	Work Order ID:	W23-01354
Proposed Use:	Fill	Sample ID:	23S-04475
Material Type:	Sand	Depth of Test (mm):	1050
Site Selection Method:	Client	Layer Thickness (mm):	-
Sampling Method:	N/A		
Date Tested:	23/06/2023		



Test Results										
Test Site No.	1	2	3	4	5	6	7	8	9	10
Moisture Condition										
Depth Groundwater										
Depth of Test (mm)	Blows/300 mm									
0 - 150	Set Depth									
150 - 450	8	10	10	8	8	8	8	8	9	9
450 - 750	11	12	12	10	11	14	16	14	17	14
750 - 1050	14	14	16	12	12	17	23	19	25+	19
1050 - 1350										
1350 - 1650										
1650 - 1950										

Test Results										
Test Site No.	11	12	13	14	15	16	17			
Moisture Condition										
Depth Groundwater										
Depth of Test (mm)	Blows/300 mm									
0 - 150	Set Depth									
150 - 450	8	9	11	10	10	12	11			
450 - 750	16	22	19	18	17	18	19			
750 - 1050	21	25+	25+	22	25+	25+	23			
1050 - 1350										
1350 - 1650										
1650 - 1950										

Comments

PSP Report



Client:	SRK Contractors Pty Ltd
Client Address:	8 Comino Street Cloverdale WA 6105
Project:	Lot 9012 Jayes Rd, Piara Waters
Project No:	D312869

Report Number: PSP:23S-04475	
Date of Issue: 26/06/2023	
Issue Number: 1	
Accreditation Number 18742	
 WORLD RECOGNISED ACCREDITATION	 Approved Signatory: Ben Stroop
Accredited for compliance with ISO/IEC 17025	



Determination of the Penetration Resistance of Soil - AS 1289.6.3.3

Client:	SRK Contractors Pty Ltd
Client Address:	8 Comino Street Cloverdale WA 6105
Project:	Lot 9012 Jayes Rd, Piara Waters
Project No:	D312869

Report Number: PSP:23S-04711	
Date of issue: 07/07/2023	
Issue Number: 1	
Accreditation Number 18742	
	
WORLD RECOGNISED ACCREDITATION	Approved Signatory: Jacob Pritchard
Accredited for compliance with ISO/IEC 17025-Testing	

Location:	Bulk Earthworks	Work Order ID:	W23-01448
Proposed Use:	Fill	Sample ID:	23S-04711
Material Type:	Sand	Depth of Test (mm):	1050
Site Selection Method:	Client	Layer Thickness (mm):	-
Sampling Method:	N/A		
Date Tested:	03/07/2023		

Test Results										
Test Site No.	1	2	3	4	5	6	7	8	9	10
Moisture Condition										
Depth Groundwater										
Depth of Test (mm)	Blows/300 mm									
0 - 150	Set Depth									
150 - 450	5	5	5	5	5	5	5	5	7	6
450 - 750	10	8	9	10	7	10	13	10	11	10
750 - 1050	17	13	15	17	18	18	25+	25+	21	19
1050 - 1350										
1350 - 1650										
1650 - 1950										

Test Results										
Test Site No.	11	12	13	14	15	16	17	18	19	20
Moisture Condition										
Depth Groundwater										
Depth of Test (mm)	Blows/300 mm									
0 - 150	Set Depth									
150 - 450	5	5	5	7	5	5	5	5	5	5
450 - 750	8	11	10	10	9	8	10	9	8	9
750 - 1050	9	16	10	8	9	10	10	10	10	10
1050 - 1350										
1350 - 1650										
1650 - 1950										

Comments

Determination of the Penetration Resistance of Soil - AS 1289.6.3.3

Report Number: PSP:23S-04712

Date of issue: 07/07/2023

Issue Number: 1

Client: SRK Contractors Pty Ltd
Client Address: 8 Comino Street Cloverdale WA 6105
Project: Lot 9012 Jayes Rd, Piara Waters
Project No: D312869

Accreditation Number 18742

 WORLD RECOGNISED ACCREDITATION
 Approved Signatory: Jacob Pritchard
 Accredited for compliance with ISO/IEC 17025-Testing

Location: Bulk Earthworks
Proposed Use: Fill
Material Type: Sand
Site Selection Method: Client
Sampling Method: N/A
Date Tested: 03/07/2023

Work Order ID: W23-01448
Sample ID: 23S-04712
Depth of Test (mm): 1050
Layer Thickness (mm): -

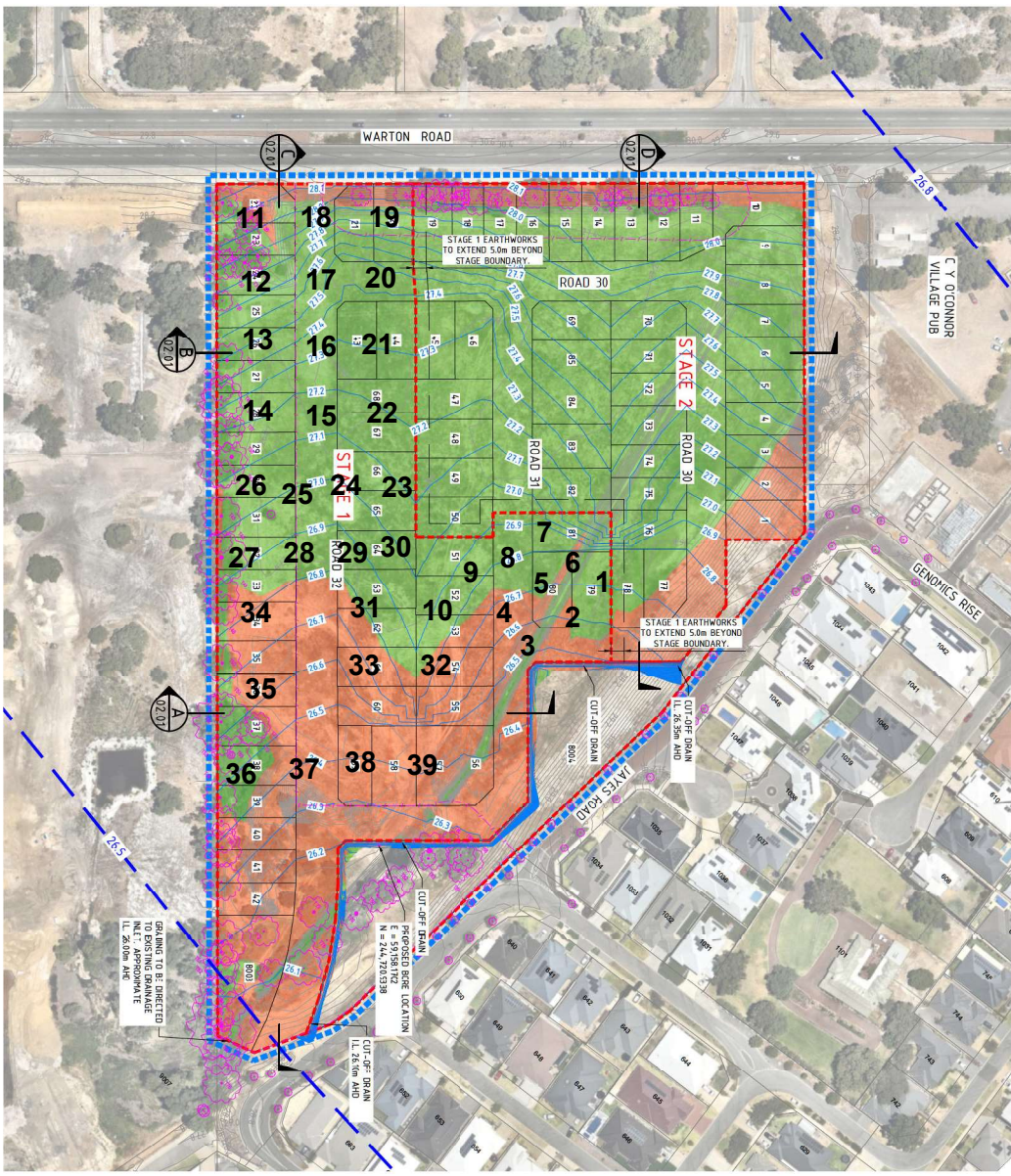
Test Results

Test Site No.	21	22	23	24	25	26	27	28	29	30
Moisture Condition										
Depth Groundwater										
Depth of Test (mm)	Blows/300 mm									
0 - 150	Set Depth									
150 - 450	5	5	6	5	6	9	7	5	5	5
450 - 750	8	9	12	11	11	15	16	10	8	9
750 - 1050	11	10	19	14	25+	21	25+	19	18	9
1050 - 1350										
1350 - 1650										
1650 - 1950										

Test Results

Test Site No.	31	32	33	34	35	36	37	38	39	
Moisture Condition										
Depth Groundwater										
Depth of Test (mm)	Blows/300 mm									
0 - 150	Set Depth									
150 - 450	5	5	8	7	6	7	7	5	7	
450 - 750	8	8	13	14	17	18	17	13	12	
750 - 1050	110	13	25+	21	25+	25	16	17	20	
1050 - 1350										
1350 - 1650										
1650 - 1950										

Comments



1:1000 AT A1
0 10m 20m 40m 60m

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1. EARTHWORK VOLUMES CALCULATED TO POST STRIPPED
2. ALL TREES WITHIN DEVELOPMENT BOUNDARY TO BE
PROTECTED UNTIL APPROVAL RECEIVED FOR CLEARING. TREE
PROTECTION FENCES TO BE INSTALLED TO THE SATISFACTION
OF THE LOCAL AUTHORITY.

EARTHWORK VOLUMES:	
STAGE 1	
TOTAL CUT	-5,072.586 m ³
TOTAL FILL	5,525.971 m ³
NET EXCESS OF FILL OVER CUT	513.385 m ³
POLYON PLAN AREA = 29,759.626 m ²	
STAGE 2	
TOTAL CUT	-3,952.803 m ³
TOTAL FILL	12,671.599 m ³
NET EXCESS OF FILL OVER CUT	8,718.796 m ³
POLYON PLAN AREA = 21,723.871 m ²	

LEGEND:

- AREA OF FILL
- AREA OF CUT
- NATURAL SURFACE CONTOURS (10m INTERVALS)
- GRADED NATURAL SURFACE CONTOURS (10m INTERVALS)
- MOCKUP LAMP
- DEVELOPMENT BOUNDARY
- EXISTING TRENCH
- TREE PROTECTION FENCE (1.8m HIGH CHAINLINK FENCE)

FOR CONSTRUCTION

DATE	ISSUED FOR CONSTRUCTION	DATE
0	ISSUED FOR CONSTRUCTION	DAYNES 22/03/2023

perkins+ towers

PERKINS+TOWERS
PAPERLESS PUBLISHING
24/02/2023

LOT 9012 JAYES ROAD
PIARA WATERS WA 6172

GRADING PLAN OF EXISTING
INSITU MATERIAL

PC214.01
CI-02.00
0

Determination of the Penetration Resistance of Soil - AS 1289.6.3.3

Report Number: PSP:23S-05365

Date of issue: 01/08/2023

Issue Number: 1

Client: SRK Contractors Pty Ltd
Client Address: 8 Comino Street Cloverdale WA 6105
Project: Lot 9012 Jayes Rd, Piara Waters
Project No: D312869



Accreditation Number 18742



Approved Signatory: Jacob Pritchard

Accredited for compliance with ISO/IEC 17025-Testing

Location: Stage 1 Earthworks
Proposed Use: Fill
Material Type: Sand
Site Selection Method: Client
Sampling Method: N/A
Date Tested: 31/07/2023

Work Order ID: W23-01681
Sample ID: 23S-05365
Depth of Test (mm): 1050
Layer Thickness (mm): -

Test Results

Test Site No.	1	2	3	4	5	6	7	8	9	10
Moisture Condition										
Depth Groundwater										
Depth of Test (mm)	Blows/300 mm									
0 - 150	Set Depth									
150 - 450	8	8	8	8	9	8	9	6	6	7
450 - 750	18	13	15	9	12	21	22	9	19	14
750 - 1050	25+	25+	23	17	22	25+	25+	9	22	25+
1050 - 1350										
1350 - 1650										
1650 - 1950										

Test Results

Test Site No.	11	12	13	14	15	16	17	18	19	20
Moisture Condition										
Depth Groundwater										
Depth of Test (mm)	Blows/300 mm									
0 - 150	Set Depth									
150 - 450	7	9	8	7	7	7	14	6	9	9
450 - 750	12	16	17	15	23	11	25+	12	15	18
750 - 1050	25+	23	17	16	24	24		13	22	21
1050 - 1350										
1350 - 1650										
1650 - 1950										

Comments

Determination of the Penetration Resistance of Soil - AS 1289.6.3.3

Report Number: PSP:23S-05366

Date of issue: 01/08/2023

Issue Number: 1

Client: SRK Contractors Pty Ltd
Client Address: 8 Comino Street Cloverdale WA 6105
Project: Lot 9012 Jayes Rd, Piara Waters
Project No: D312869



Accreditation Number 18742



Approved Signatory: Jacob Pritchard

Accredited for compliance with ISO/IEC 17025-Testing

Location: Stage 1 Earthworks
Proposed Use: Fill
Material Type: Sand
Site Selection Method: Client
Sampling Method: N/A
Date Tested: 31/07/2023

Work Order ID: W23-01681
Sample ID: 23S-05366
Depth of Test (mm): 1050
Layer Thickness (mm): -

Test Results

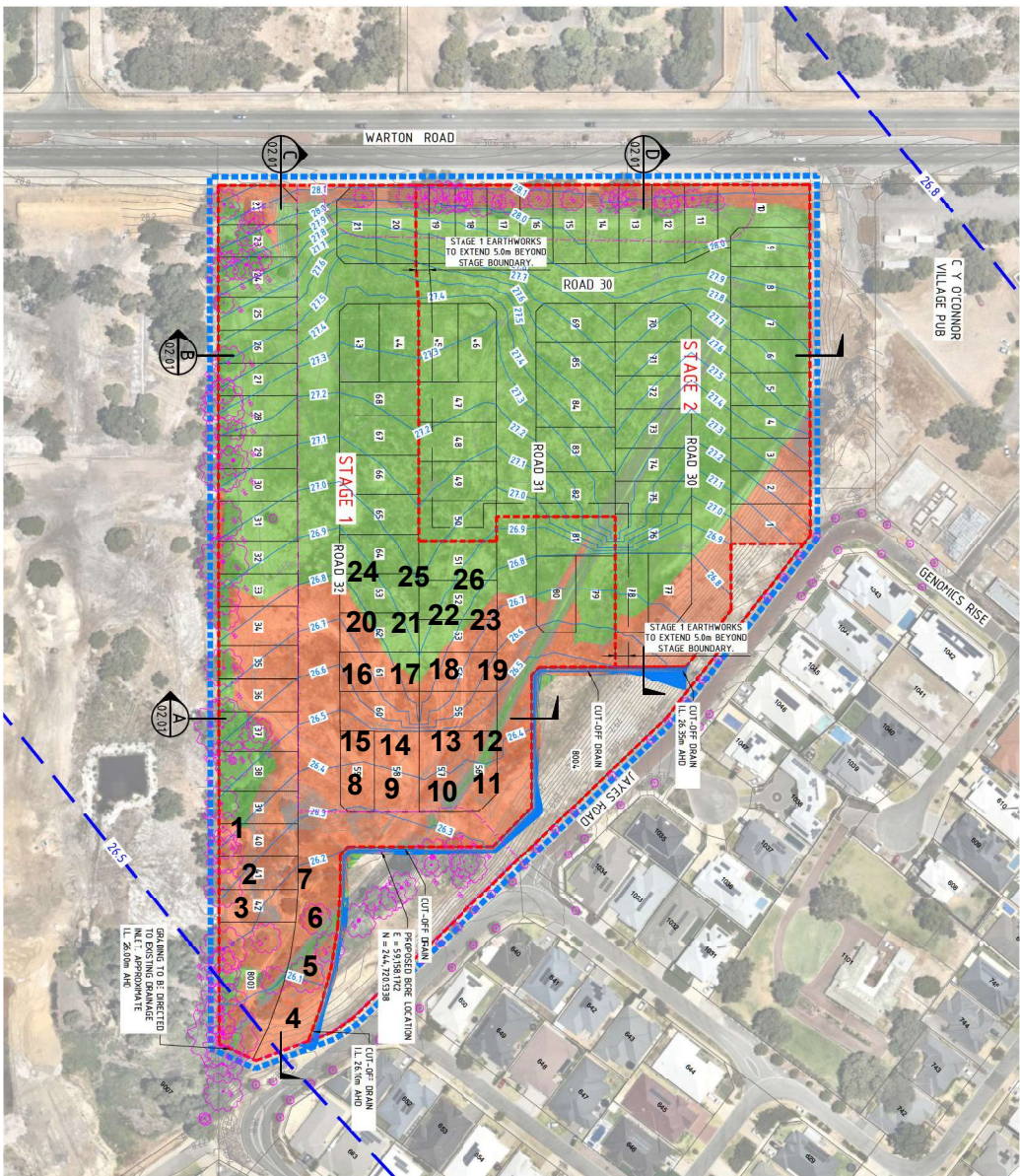
Test Site No.	21	22	23	24	25	26				
Moisture Condition										
Depth Groundwater										
Depth of Test (mm)	Blows/300 mm									
0 - 150	Set Depth									
150 - 450	7	5	7	5	7	9				
450 - 750	13	25+	10	25+	12	14				
750 - 1050	17		19		16	25+				
1050 - 1350										
1350 - 1650										
1650 - 1950										

Test Results

Test Site No.										
Moisture Condition										
Depth Groundwater										
Depth of Test (mm)	Blows/300 mm									
0 - 150	Set Depth									
150 - 450										
450 - 750										
750 - 1050										
1050 - 1350										
1350 - 1650										
1650 - 1950										

Comments

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REVISION	DESCRIPTION	DRAWN	DATE
0	ISSUED FOR CONSTRUCTION	D.AYRES	22/03/2023

[illegible]

משרד המשפטים

°CELSIUS
PROPERTY GROUP

DESIGNED	DRAWN	CHECKED
DAYRES	DAYRES	RIZZINO
SUBMIT DATTM	DATE	SCALE
PC694		1/1000 @ A1

DWG IS NOT FOR CONSTRUCTION UNLESS SIGNED BELOW DATE CREATED

LOT 9012 JAYES ROAD
PIARA WATERS W.A. 6112

GRADING PLAN OF EXISTING INSITU MATERIAL










PC21401	CI-02.00
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EARTHWORK VOLUMES:

STAGE 2	
POLYMER PLAN AREA = 21,732.471 m ²	
TOTAL CUT	-5,072.586 m ³
TOTAL FILL	5,575.191 m ³
TOTAL BALANCE	513.604 m ³
IF EXCESS OF FILL OVER CUT	513.604 m ³
TOTAL CUT	-3,952.003 m ³
TOTAL FILL	12,671.599 m ³
TOTAL BALANCE	8,719.596 m ³
IF EXCESS OF FILL OVER CUT	8,719.596 m ³

LEGEND:

	AREA OF FILL
	AREA OF CUT
	NATURAL SURFACE (CONTOURS 0.2m INTERVAL)
	GRADED NATURAL SURFACE (CONTOURS 0.2m INTERVAL)
	NOCKING RANGE
	DEVELOPMENT BOUNDARY
	STAGE BOUNDARIES
	EXISTING TREES (REFER TO NOTE 20)
	TREE PROTECTION FENCE (TEMPORARY 1.8m HIGH CHAINLINK FENCE STAY)

Determination of the Penetration Resistance of Soil - AS 1289.6.3.3

Report Number: PSP:23S-05755

Date of issue: 17/08/2023

Issue Number: 1

Client:	SRK Contractors Pty Ltd
Client Address:	8 Comino Street Cloverdale WA 6105
Project:	Lot 9012 Jayes Rd, Piara Waters
Project No:	D312869

Accreditation Number 18742	
	
WORLD RECOGNISED ACCREDITATION	Approved Signatory: Jacob Pritchard
Accredited for compliance with ISO/IEC 17025-Testing	

Location:	Stage 1 Earthworks	Work Order ID:	W23-01811
Proposed Use:	Fill	Sample ID:	23S-05755
Material Type:	Sand	Depth of Test (mm):	1050
Site Selection Method:	Client	Layer Thickness (mm):	-
Sampling Method:	N/A		
Date Tested:	16/08/2023		

Test Results										
Test Site No.	1	2	3	4	5	6	7	8	9	10
Moisture Condition										
Depth Groundwater										
Depth of Test (mm)	Blows/300 mm									
0 - 150	Set Depth									
150 - 450	5	5	5	6	5	6	7	6	5	5
450 - 750	15	9	8	13	8	9	14	11	8	6
750 - 1050	16	9	16	18	9	12	17	13	12	12
1050 - 1350										
1350 - 1650										
1650 - 1950										

Test Results										
Test Site No.	11	12	13	14	15	16				
Moisture Condition										
Depth Groundwater										
Depth of Test (mm)	Blows/300 mm									
0 - 150	Set Depth									
150 - 450	5	11	6	5	5	5				
450 - 750	11	22	16	6	5	12				
750 - 1050	15	25+	21	12	12	14				
1050 - 1350										
1350 - 1650										
1650 - 1950										

Comments

PSP Report

Client:	SRK Contractors Pty Ltd
Client Address:	8 Comino Street Cloverdale WA 6105
Project:	Lot 9012 Jayes Rd, Piara Waters
Project No:	D312869

Report Number: PSP:23S-05755	
Date of Issue: 17/08/2023	
Issue Number: 1	
Accreditation Number 18742	
 WORLD RECOGNISED ACCREDITATION	 Approved Signatory: Jacob Pritchard
Accredited for compliance with ISO/IEC 17025	



Determination of the Penetration Resistance of Soil - AS 1289.6.3.3

Report Number: PSP:23S-06320

Date of issue: 11/09/2023

Issue Number: 1

Client: SRK Contractors Pty Ltd
Client Address: 8 Comino Street Cloverdale WA 6105
Project: Lot 9012 Jayes Rd, Piara Waters
Project No: D312869



Accreditation Number 18742

Approved Signatory: Ben Stroop

Accredited for compliance with ISO/IEC 17025-Testing

Location: Various Roads
Proposed Use: Subgrade
Material Type: Sand
Site Selection Method: Client
Sampling Method: N/A
Date Tested: 08/09/2023

Work Order ID: W/23-01986
Sample ID: 23S-06320
Depth of Test (mm): 1050
Layer Thickness (mm): -

Test Results

Test Site No.	1	2	3	4	5	6	7	8	9	10
Moisture Condition										
Depth Groundwater										
Depth of Test (mm)	Blows/300 mm									
0 - 150	Set Depth									
150 - 450	6	7	10	12	9	10	9	10	10	13
450 - 750	14	14	25+	21	25+	16	25+	14	15	16
750 - 1050	17	18		25+		20		19	25+	25+
1050 - 1350										
1350 - 1650										
1650 - 1950										



Test Results

Test Site No.	11	12	13	14	15	16				
Moisture Condition										
Depth Groundwater										
Depth of Test (mm)	Blows/300 mm									
0 - 150	Set Depth									
150 - 450	11	14	13	8	13	9				
450 - 750	20	25+	19	14	25+	25+				
750 - 1050	25+		23	17						
1050 - 1350										
1350 - 1650										
1650 - 1950										

Comments

PSP Report

Client:	SRK Contractors Pty Ltd
Client Address:	8 Comino Street Cloverdale WA 6105
Project:	Lot 9012 Jayes Rd, Piara Waters
Project No:	D312869

Report Number: PSP:23S-06320	
Date of Issue: 11/09/2023	
Issue Number: 1	
Accreditation Number 18742	
 WORLD RECOGNISED ACCREDITATION	 Approved Signatory: Ben Stroop
Accredited for compliance with ISO/IEC 17025	



Determination of the Penetration Resistance of Soil - AS 1289.6.3.3

Report Number: PSP:23S-03050

Date of issue: 02/05/2023

Issue Number: 1

Client: SRK Contractors Pty Ltd
Client Address: 8 Comino Street Cloverdale WA 6105
Project: lot 9012 Jayes Rd, Piara Waters
Project No: D312869

Accreditation Number 18742



WORLD RECOGNISED
ACCREDITATION

Approved Signatory: Ben Stroop

Accredited for compliance with ISO/IEC 17025-Testing

Location: Bulk Earthworks
Proposed Use: Fill
Material Type: Sand
Site Selection Method: Client
Sampling Method: N/A
Date Tested: 28/04/2023

Work Order ID: W23-00887
Sample ID: 23S-03050
Depth of Test (mm): 1050
Layer Thickness (mm): -

Test Results

Test Site No.	1	2	3	4	5	6	7	8	9	10
Chainage										
Offset										
Elevation										
Lot										
Retaining Wall No.										
Moisture Condition										
Depth Groundwater										
Depth of Test (mm)	Blows/300 mm									
0 - 150	Set Depth									
150 - 450	12	13	11	9	11	10	8	10	16	14
450 - 750	25+	25+	25	25+	25+	17	17	14	25+	25+
750 - 1050						25+	25+	20		
1050 - 1350										
1350 - 1650										
1650 - 1950										

Notes

Determination of the Penetration Resistance of Soil - AS 1289.6.3.3

Report Number: PSP:23S-03051

Date of issue: 02/05/2023

Issue Number: 1

Client: SRK Contractors Pty Ltd
Client Address: 8 Comino Street Cloverdale WA 6105
Project: lot 9012 Jayes Rd, Piara Waters
Project No: D312869

Accreditation Number 18742



WORLD RECOGNISED
ACCREDITATION

Approved Signatory: Ben Stroop

Accredited for compliance with ISO/IEC 17025-Testing

Location: Bulk Earthworks
Proposed Use: Fill
Material Type: Sand
Site Selection Method: Client
Sampling Method: N/A
Date Tested: 28/04/2023

Work Order ID: W23-00887
Sample ID: 23S-03051
Depth of Test (mm): 1050
Layer Thickness (mm): -

Test Results

Test Site No.	11	12	13	14	15	126	17	18	19	20
Chainage										
Offset										
Elevation										
Lot										
Retaining Wall No.										
Moisture Condition										
Depth Groundwater										
Depth of Test (mm)	Blows/300 mm									
0 - 150	Set Depth									
150 - 450	19	9	9	10	16	13	10	9	15	18
450 - 750	25+	16	19	20	25+	18	25+	18	25+	25+
750 - 1050		25+	24	25+		25+		25+		
1050 - 1350										
1350 - 1650										
1650 - 1950										

Notes

Determination of the Penetration Resistance of Soil - AS 1289.6.3.3

Report Number: PSP:23S-03169

Date of issue: 02/05/2023

Issue Number: 1

Client: SRK Contractors Pty Ltd
Client Address: 8 Comino Street Cloverdale WA 6105
Project: lot 9012 Jayes Rd, Piara Waters
Project No: D312869

Accreditation Number 18742

 WORLD RECOGNISED ACCREDITATION
 Approved Signatory: Ben Stroop
 Accredited for compliance with ISO/IEC 17025-Testing

Location: Bulk Earthworks
Proposed Use: Fill
Material Type: Sand
Site Selection Method: Client
Sampling Method: N/A
Date Tested: 28/04/2023

Work Order ID: W23-00887
Sample ID: 23S-03169
Depth of Test (mm): 1050
Layer Thickness (mm): -

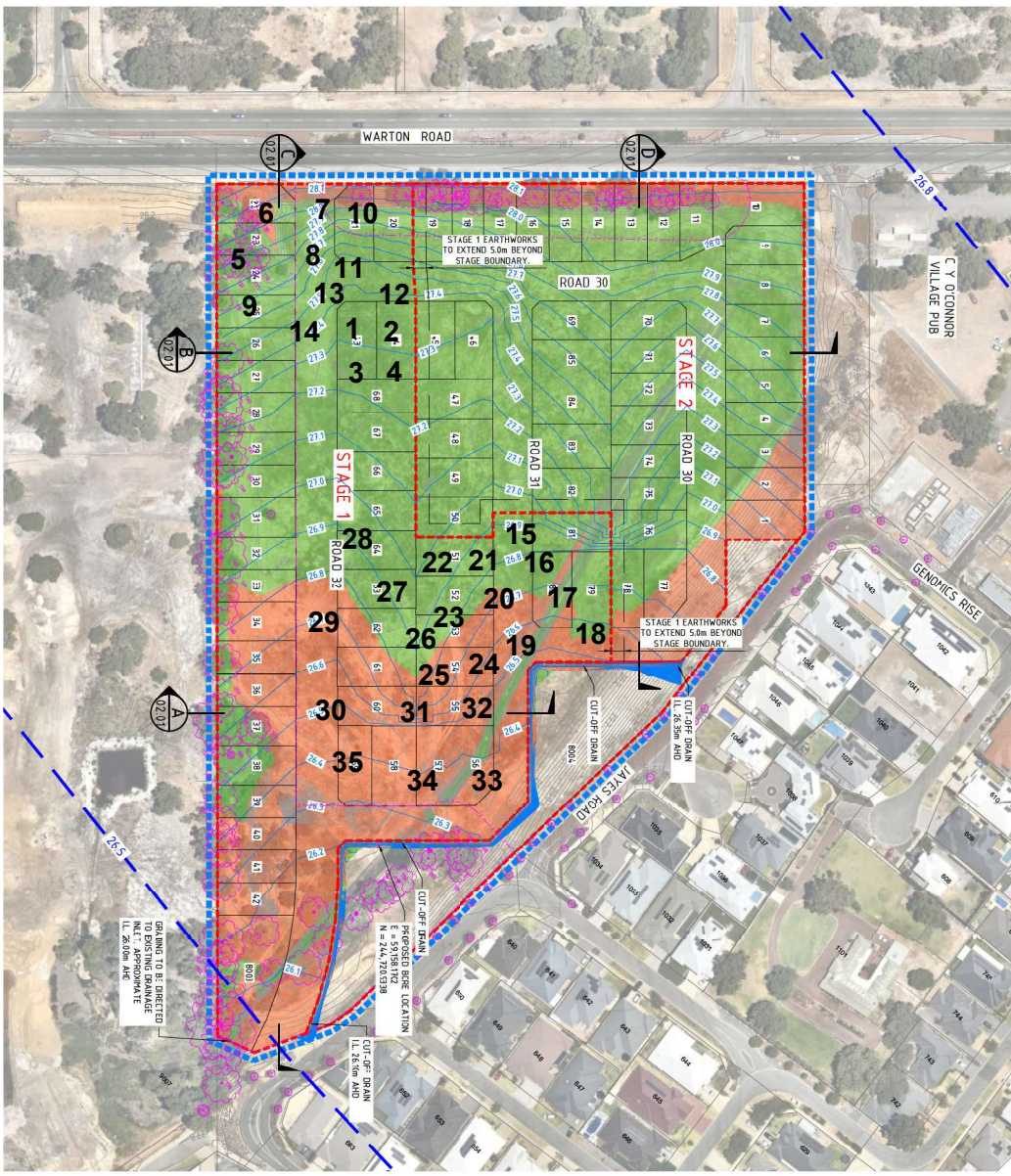
Test Results

Test Site No.	21	22	23	24	25	26	27	28	29	30
Moisture Condition										
Depth Groundwater										
Depth of Test (mm)	Blows/300 mm									
0 - 150	Set Depth									
150 - 450	18	15	12	9	18	15	15	16	11	12
450 - 750	25+	25+	16	17	25+	25+	25+	25+	25+	15
750 - 1050			25+	25+						25+
1050 - 1350										
1350 - 1650										
1650 - 1950										

Test Results

Test Site No.	31	32	33	34	35					
Moisture Condition										
Depth Groundwater										
Depth of Test (mm)	Blows/300 mm									
0 - 150	Set Depth									
150 - 450	20	17	20	10	11					
450 - 750	25+	25+	25+	25+	25+					
750 - 1050										
1050 - 1350										
1350 - 1650										
1650 - 1950										

Comments



DATE: 22/03/2023

ISSUED FOR CONSTRUCTION

FOR CONSTRUCTION

PROJECT: LOT 9012 JAYES ROAD, PIARA WATERS WA 6172

CLIENT: CELSIUS PROPERTY GROUP

DESIGNED BY: DAYNES

DRAWN BY: RPPZNO

CHECKED BY: PC09A

DATE: 24/02/2023

1:1000 AT A1

0 10m 20m 40m 60m

PC214.01

CL-02.00

0

1. EARTHWORK VOLUMES (CALCULATED TO POST STRIPPED)

2. ALL TREES WITHIN DEVELOPMENT BOUNDARY TO BE PROTECTED UNTIL APPROVAL RECEIVED FOR CLEARING. TREE REMOVALS SHALL BE IN ACCORDANCE WITH THE STRIPPER OF THE LOCAL AUTHORITY.

EARTHWORK VOLUMES:

STAGE 1

TOTAL CUT: -5,072.58 m³

TOTAL FILL: 5,525.97 m³

NET EXCESS OF FILL OVER CUT: 513.39 m³

POLYGON PLAN AREA = 29,759.626 m²

STAGE 2

TOTAL CUT: -3,952.803 m³

TOTAL FILL: 12,671.599 m³

NET EXCESS OF FILL OVER CUT: 8,718.796 m³

POLYGON PLAN AREA = 21,723.871 m²

LEGEND:

AREA OF FILL

AREA OF CUT

NATURAL SURFACE CONTOURS (10m INTERVALS)

GRADED NATURAL SURFACE CONTOURS (10m INTERVALS)

MOCKUP LAMP

DEVELOPMENT BOUNDARY

STAGE BOUNDARY

EXISTING TREES (REFER TO NOTE 2)

TREE PROTECTION FENCE (TEMPORARY 1.8m HIGH CHAINLINK MESH SIGNED)

Determination of the Penetration Resistance of Soil - AS 1289.6.3.3

Report Number: PSP:23S-06083

Date of issue: 01/09/2023

Issue Number: 1

Client:	SRK Contractors Pty Ltd
Client Address:	8 Comino Street Cloverdale WA 6105
Project:	Lot 9012 Jayes Rd, Piara Waters
Project No:	D312869

Accreditation Number 18742	
	
WORLD RECOGNISED ACCREDITATION	Approved Signatory: Ben Stroop
Accredited for compliance with ISO/IEC 17025-Testing	

Location:	Earthworks Completion	Work Order ID:	W23-01916
Proposed Use:	Fill	Sample ID:	23S-06083
Material Type:	Sand	Depth of Test (mm):	1050
Site Selection Method:	Client	Layer Thickness (mm):	-
Sampling Method:	N/A		
Date Tested:	30/08/2023		

Test Results											
Test Site No.	1	2	3	4	5	6	7	8	9	10	
Moisture Condition											
Depth Groundwater											
Depth of Test (mm)	Blows/300 mm										
0 - 150	Set Depth										
150 - 450	6	7	6	7	5	5	5	7	7	7	
450 - 750	25+	16	9	18	13	9	9	10	12	19	
750 - 1050		25+	20	21	13	8	8	25+	21	24	
1050 - 1350											
1350 - 1650											
1650 - 1950											

Test Results											
Test Site No.	11	12	13	14	15	16	17	18	19	20	
Moisture Condition											
Depth Groundwater											
Depth of Test (mm)	Blows/300 mm										
0 - 150	Set Depth										
150 - 450	7	6	6	6	6	5	5	5	5	6	
450 - 750	17	13	14	14	16	9	12	11	11	14	
750 - 1050	16	20	25+	22	23	16	19	16	16	19	
1050 - 1350											
1350 - 1650											
1650 - 1950											

Comments											

Determination of the Penetration Resistance of Soil - AS 1289.6.3.3

Report Number: PSP:23S-06084

Date of issue: 01/09/2023

Issue Number: 1

Client:	SRK Contractors Pty Ltd
Client Address:	8 Comino Street Cloverdale WA 6105
Project:	Lot 9012 Jayes Rd, Piara Waters
Project No:	D312869

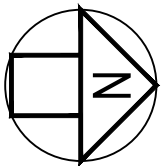
Accreditation Number 18742	
	
WORLD RECOGNISED ACCREDITATION	Approved Signatory: Ben Stroop
Accredited for compliance with ISO/IEC 17025-Testing	

Location:	Earthworks Completion	Work Order ID:	W23-01916
Proposed Use:	Fill	Sample ID:	23S-06084
Material Type:	Sand	Depth of Test (mm):	1050
Site Selection Method:	Client	Layer Thickness (mm):	-
Sampling Method:	N/A		
Date Tested:	30/08/2023		

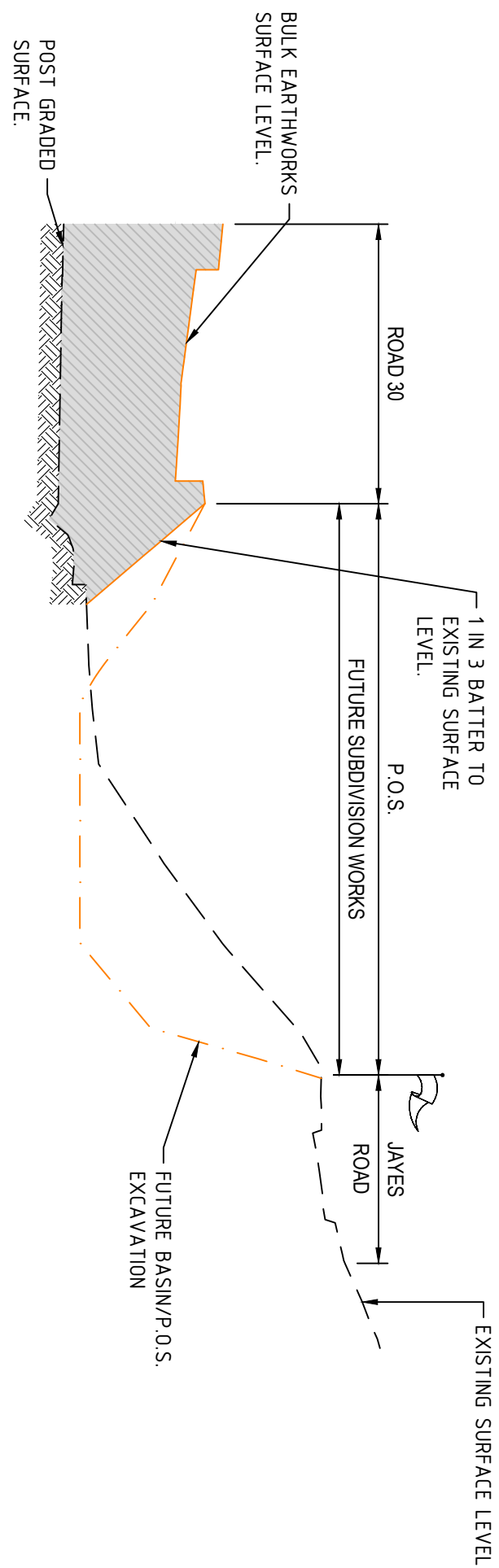
Test Results										
Test Site No.	21	22	23							
Moisture Condition										
Depth Groundwater										
Depth of Test (mm)	Blows/300 mm									
0 - 150	Set Depth									
150 - 450	6	6	8							
450 - 750	13	17	21							
750 - 1050	21	23	25+							
1050 - 1350										
1350 - 1650										
1650 - 1950										

Test Results										
Test Site No.										
Moisture Condition										
Depth Groundwater										
Depth of Test (mm)	Blows/300 mm									
0 - 150	Set Depth									
150 - 450										
450 - 750										
750 - 1050										
1050 - 1350										
1350 - 1650										
1650 - 1950										

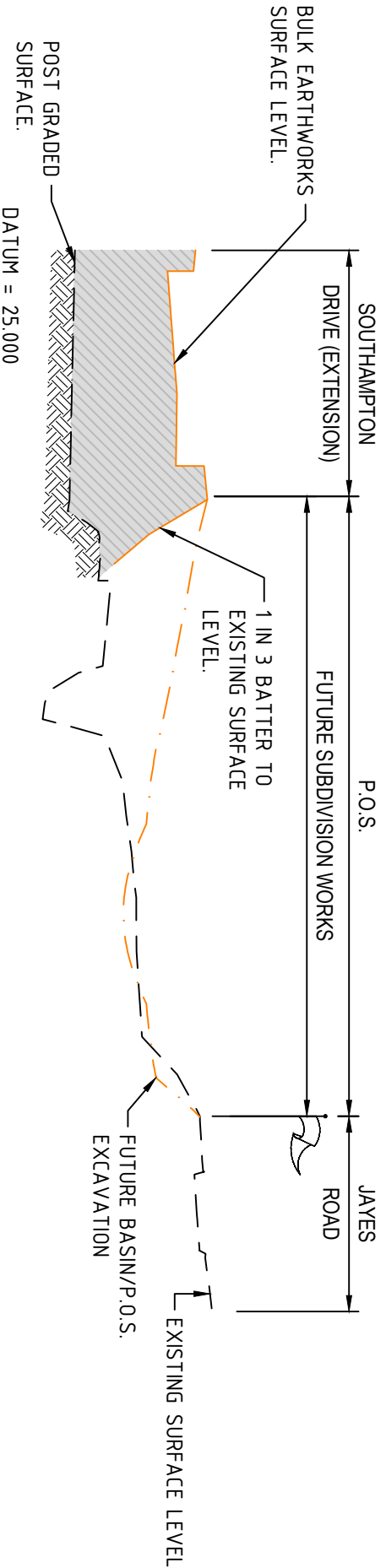
Comments



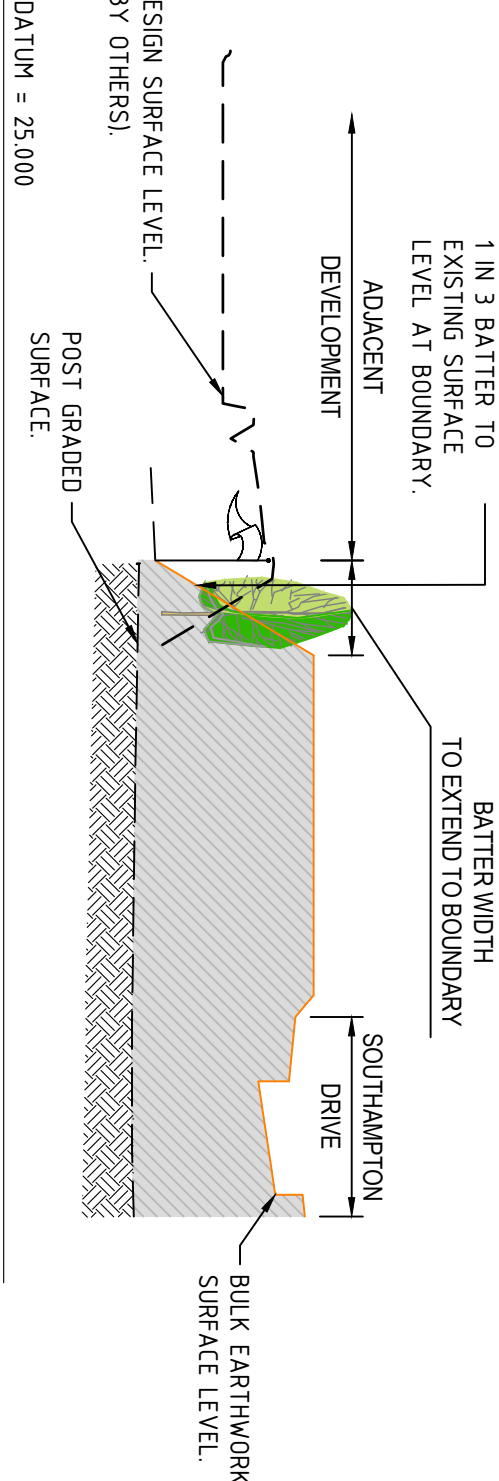
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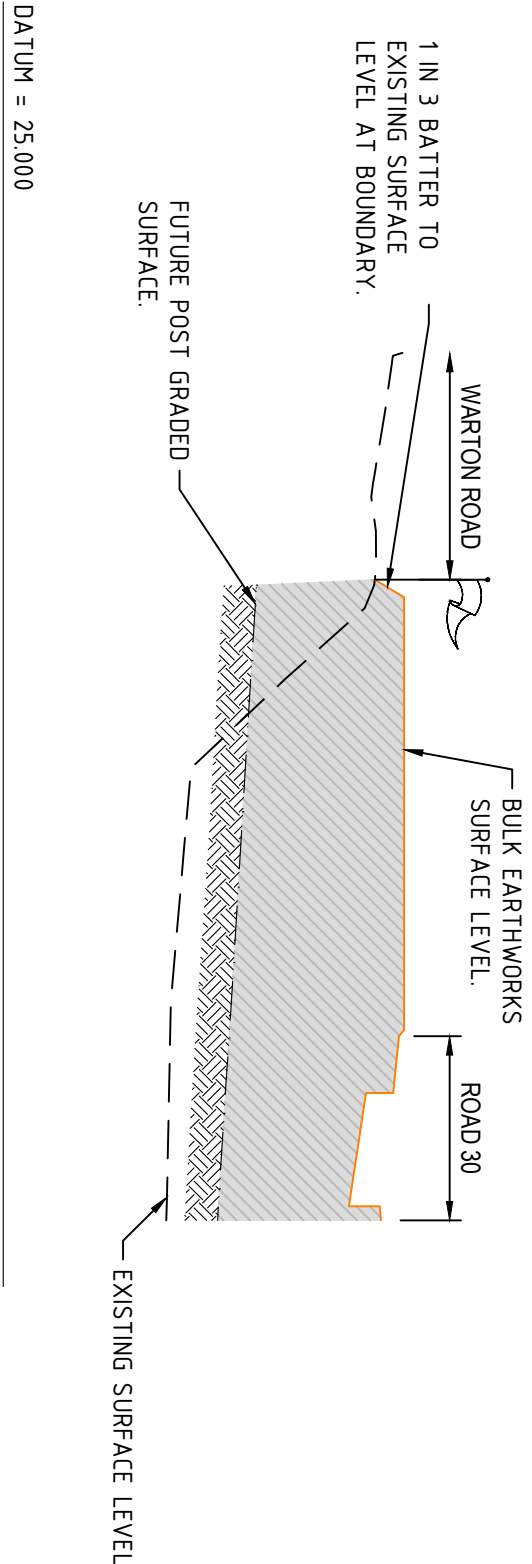
BULK EARTHWORK SECTION A-A
AT SCALE: H 1500, V 1:100



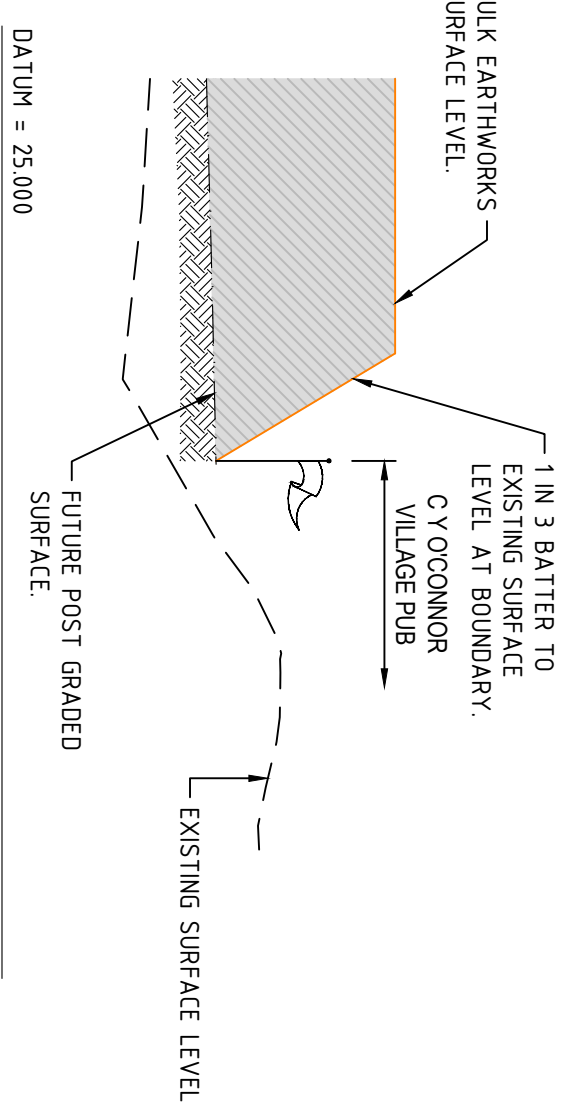
BULK EARTHWORK SECTION B-B
AT SCALE: H 1500, V 1:100



BULK EARTHWORK SECTION C-C
AT SCALE: H 1500, V 1:100



BULK EARTHWORK SECTION D-D
AT SCALE: H 1500, V 1:100



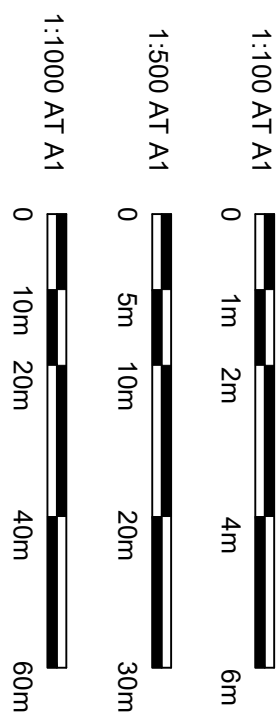
BULK EARTHWORK SECTION E-E
AT SCALE: H 1500, V 1:100

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- NOTES
1. BULK EARTHWORK VOLUMES:
TOTAL CUT (-0.5m TO -2.0m) 108,285.203 m³
TOTAL FILL (1.5m TO +3.0m) 108,207.224 m³
TOTAL BALANCE 108,207.224 m³
IE EXCESS OF CLEAN IMPORT FILL 108,207.224 m³
 2. BLENDING VOLUMES
NO BLENDING IN STAGE 1
BLENDING TO BE EXPECTED IN STAGE 2
IMPORT FOR 2:1 BLEND 1.8 C.M.
EXCESS FROM BLEND 1.8 C.M.
 3. ALL BULK EARTHWORK VALUES ARE A GUIDE ONLY.
 4. ALL BULK EARTHWORK VALUES EXCLUDE BULKING FACTORS.
 5. FINISHED LOT LEVELS SHOWN REFLECT FINAL BULK EARTHWORKS LEVELS.
 6. ALL OTHER EXISTING TREES ARE NOT TO BE CLEARED UNTIL SUBDIVISION APPROVAL HAS BEEN OBTAINED.

- LEGEND
- TOPSOIL - TEMPORARY STOCKPILES AND FINAL LOCATION
 - EXISTING SPOT HEIGHTS
 - EXISTING CONTOURS
 - FINISHED LOT LEVELS (REFER NOTE 2)
 - BULK EARTHWORK CONTOURS (0.2m INTERVALS)
 - AAMGL CONTOURS (PRE-DEVELOPMENT)
 - EXISTING TREES TO REMAIN AND BE PROTECTED (PRIOR TO CLEARING, EXTENT OF TREE PROTECTION TO BE CONFIRMED WITH A JOINT MEETING WITH CITY OF ARMADALE)
 - EXISTING TREES TO BE REMOVED

NET IMPORT OF CLEAN IMPORT FILL REQUIRED TO SITE
(REFER NOTES 1 TO 4)
= 08,207m³



FOR CONSTRUCTION

REVISION	DESCRIPTION	DRAWN	DATE
0	ISSUED FOR CONSTRUCTION	D'AYRES	13/06/2023



PERITAS
P: 08 9383 3022
F: 08 9383 3022
A: 100 WATSON ROAD, BIRKENHEAD, VIC 3014
E: ENQUIRY@PERITASGROUP.COM.AU



DESIGNED	D'AYRES	CHECKED	RIZZINO
DRAWN	D'AYRES	SCALE	AS SHOWN
DATE	28/10/22	DATE	28/10/22

PROJECT
LOT 9012 JAVES ROAD
PARA WATERS

BULK EARTHWORKS PLAN

PROJECT NUMBER	DWG NUMBER	REV
PC21401	CI-01.00	0

Material Test Report

Report Number: MAT:23S-06321
Date of Issue: 11/09/2023
Issue Number: 1

Client: SRK Contractors Pty Ltd
Client Address: 8 Comino Street Cloverdale WA 6105
Project: Lot 9012 Jayes Rd, Piara Waters
Project No: D312869



Approved Signatory: Ben Stroop

Accredited for compliance with ISO/IEC 17025

Sample Details

Sample ID Earthworks Completion
Field Sample ID Site 1
Date Tested 08/09/2023
Date Sampled 08/09/2023
Soil Description Sand
Proposed Use Fill
Depth of Test N/A
Depth of Layer
Sampling Method AS1289 1.2.1 6.5.2 - Hand auger drilling
TRN -
Work Order ID W23-01987

Test Results

Description	Method	Result	Limits
Average Permeability - AS1547 (m/day)	AS 1547	7.7	
Average Permeability - Hvorslev (m/day)			
Internal Diameter of Reservoir (mm)		45	
External Diameter of Air Breather (mm)		10	
Depth of Water in Hole (mm)		250	
Depth of Borehole (mm)		500	
Diameter of Borehole (mm)		55	
Date Tested		08/09/2023	

Comments

Hvorslev method not used

Material Test Report

Report Number: MAT:23S-06321

Date of Issue: 11/09/2023

Issue Number: 1

Client: SRK Contractors Pty Ltd
Client Address: 8 Comino Street Cloverdale WA 6105
Project: Lot 9012 Jayes Rd, Piara Waters
Project No: D312869



Approved Signatory: Ben Stroop

Accredited for compliance with ISO/IEC 17025



Report Number: ASM:W23-01559
Date of Issue: 17/07/2023
Issue Number: 1

Material Test Report

Client: SRK Contractors Pty Ltd
Client Address: 8 Comino Street Cloverdale WA 6105
Project: Lot 9012 Jayes Rd, Piara Waters
Project No: D312869


 Approved Signatory: Jacob Pritchard
 Accredited for compliance with ISO/IEC 17025

Material Details			
Test Location	Stage 1 Earthworks	TRN	-
Soil Description	Sand	Proposed Use	Fill
Specification	N/A	Sampling Method	Non standard
Depth of Test	500	Depth of Layer	1000

Sample Details			
Sample ID	23S-05011	23S-05012	23S-05013
Field Sample ID	Site 1	Site 2	Site 3
Date Sampled	14/07/2023	14/07/2023	14/07/2023

Other Test Results					
Description	Method	Results			Limits
Average Permeability - AS1547 (m/day)	AS 1547	20.7	13.9	16.8	
Average Permeability - Hvorslev (m/day)					
Internal Diameter of Reservoir (mm)		45	45	45	
External Diameter of Air Breather (mm)		10	10	10	
Depth of Water in Hole (mm)		250	250	250	
Depth of Borehole (mm)		500	500	500	
Diameter of Borehole (mm)		55	55	55	
Date Tested		14/07/2023	14/07/2023	14/07/2023	

Comments
 Hvorslev's method not used.

Report Number: ASM:W23-01559

Date of Issue: 17/07/2023

Issue Number: 1

Material Test Report

Client: SRK Contractors Pty Ltd
Client Address: 8 Comino Street Cloverdale WA 6105
Project: Lot 9012 Jayes Rd, Piara Waters
Project No: D312869



Approved Signatory: Jacob Pritchard

Accredited for compliance with ISO/IEC 17025



Report Number: ASM:W23-01917
Date of Issue: 12/09/2023
Issue Number: 1

Material Test Report

Client: SRK Contractors Pty Ltd
Client Address: 8 Comino Street Cloverdale WA 6105
Project: Lot 9012 Jayes Rd, Piara Waters
Project No: D312869



Approved Signatory: Jacob Pritchard

Accredited for compliance with ISO/IEC 17025

Material Details

Test Location	Bulk Earthworks	TRN	-
Soil Description	Sand	Proposed Use	Fill
Specification	N/A	Sampling Method	AS1289 1.2.1 6.5.2 - Hand auger drilling
Depth of Test	500	Depth of Layer	

Sample Details

Sample ID	23S-06085	23S-06086	23S-06087	23S-06088
Field Sample ID	Site 1	Site 2	Site 3	Site 4
Date Sampled	30/08/2023	30/08/2023	30/08/2023	30/08/2023

Other Test Results

Description	Method	Results				Limits
Average Permeability - AS1547 (m/day)	AS 1547	10.9	16.1	16.2	7.0	
Average Permeability - Hvorslev (m/day)						
Internal Diameter of Reservoir (mm)		45	45	45	45	
External Diameter of Air Breather (mm)		10	10	10	10	
Depth of Water in Hole (mm)		250	250	250	250	
Depth of Borehole (mm)		500	500	500	500	
Diameter of Borehole (mm)		55	55	55	55	
Date Tested		30/08/2023	30/08/2023	30/08/2023	30/08/2023	

Comments

Hvorslev's method not used.

Report Number: ASM:W23-01917
Date of Issue: 12/09/2023
Issue Number: 1

Material Test Report

Client: SRK Contractors Pty Ltd
Client Address: 8 Comino Street Cloverdale WA 6105
Project: Lot 9012 Jayes Rd, Piara Waters
Project No: D312869



Approved Signatory: Jacob Pritchard

Accredited for compliance with ISO/IEC 17025

Material Details

Test Location	Bulk Earthworks	TRN	-
Soil Description	Sand	Proposed Use	Fill
Specification	N/A	Sampling Method	AS1289 1.2.1 6.5.2 - Hand auger drilling
Depth of Test	N/A	Depth of Layer	

Sample Details

Sample ID	23S-06089	23S-06120	23S-06121
Field Sample ID	Site 5	Site 6	Site 7
Date Sampled	30/08/2023	30/08/2023	30/08/2023

Other Test Results

Description	Method	Results			Limits
Average Permeability - AS1547 (m/day)	AS 1547	6.3	5.9	5.8	
Average Permeability - Hvorslev (m/day)					
Internal Diameter of Reservoir (mm)		45	45	45	
External Diameter of Air Breather (mm)		10	10	10	
Depth of Water in Hole (mm)		250	250	250	
Depth of Borehole (mm)		500	500	500	
Diameter of Borehole (mm)		55	55	55	
Date Tested		30/08/2023	30/08/2023	30/08/2023	

Comments

Hvorslev's method not used.

Report Number: ASM:W23-01917
Date of Issue: 12/09/2023
Issue Number: 1

Material Test Report

Client: SRK Contractors Pty Ltd
Client Address: 8 Comino Street Cloverdale WA 6105
Project: Lot 9012 Jayes Rd, Piara Waters
Project No: D312869



Approved Signatory: Jacob Pritchard

Accredited for compliance with ISO/IEC 17025



Report Number: ASM:W23-01927
Date of Issue: 12/09/2023
Issue Number: 1

Material Test Report

Client: SRK Contractors Pty Ltd
Client Address: 8 Comino Street Cloverdale WA 6105
Project: Lot 9012 Jayes Rd, Piara Waters
Project No: D312869



Approved Signatory: Jacob Pritchard

Accredited for compliance with ISO/IEC 17025

Material Details

Test Location	Bulk Earthworks	TRN	-
Soil Description	Sand	Proposed Use	Fill
Specification	N/A	Sampling Method	AS1289 1.2.1 6.5.2 - Hand auger drilling
Depth of Test	500	Depth of Layer	

Sample Details

Sample ID	23S-06128	23S-06129	23S-06130	23S-06131
Field Sample ID	Site 1	Site 2	Site 3	Site 4
Date Sampled	01/09/2023	01/09/2023	01/09/2023	01/09/2023

Other Test Results

Description	Method	Results				Limits
Average Permeability - AS1547 (m/day)	AS 1547	16.8	20.3	19.8	27.0	
Average Permeability - Hvorslev (m/day)						
Internal Diameter of Reservoir (mm)		45	45	45	45	
External Diameter of Air Breather (mm)		10	10	10	10	
Depth of Water in Hole (mm)		250	250	250	250	
Depth of Borehole (mm)		500	500	500	500	
Diameter of Borehole (mm)		55	55	55	55	
Date Tested		01/09/2023	01/09/2023	01/09/2023	01/09/2023	

Comments

Hvorslev's method not used.

Report Number: ASM:W23-01927
Date of Issue: 12/09/2023
Issue Number: 1

Material Test Report

Client: SRK Contractors Pty Ltd
Client Address: 8 Comino Street Cloverdale WA 6105
Project: Lot 9012 Jayes Rd, Piara Waters
Project No: D312869



Approved Signatory: Jacob Pritchard

Accredited for compliance with ISO/IEC 17025

Material Details

Test Location	Bulk Earthworks	TRN	-
Soil Description	Sand	Proposed Use	Fill
Specification	N/A	Sampling Method	AS1289 1.2.1 6.5.2 - Hand auger drilling
Depth of Test	N/A	Depth of Layer	

Sample Details

Sample ID	23S-06132	23S-06133	23S-06134	23S-06135
Field Sample ID	Site 5	Site 6	Site 7	Site 8
Date Sampled	01/09/2023	01/09/2023	01/09/2023	01/09/2023

Other Test Results

Description	Method	Results				Limits
Average Permeability - AS1547 (m/day)	AS 1547	34.5	26.6	6.1	14.4	
Average Permeability - Hvorslev (m/day)						
Internal Diameter of Reservoir (mm)		45	45	45	45	
External Diameter of Air Breather (mm)		10	10	10	10	
Depth of Water in Hole (mm)		250	250	250	250	
Depth of Borehole (mm)		500	500	500	500	
Diameter of Borehole (mm)		55	55	55	55	
Date Tested		01/09/2023	01/09/2023	01/09/2023	01/09/2023	

Comments

Hvorslev's method not used.

Report Number: ASM:W23-01927
Date of Issue: 12/09/2023
Issue Number: 1

Material Test Report

Client: SRK Contractors Pty Ltd
Client Address: 8 Comino Street Cloverdale WA 6105
Project: Lot 9012 Jays Rd, Piara Waters
Project No: D312869



Approved Signatory: Jacob Pritchard


Accredited for compliance with ISO/IEC 17025



Daily Summary Field Report

Report No.: DSFR:W23-00778
Issue No.: 1

Client: SRK Contractors Pty Ltd
 8 Comino Street, PO Box 1020 Cloverdale WA 6985
 Cloverdale, WA 6105
Project: D312869 - lot 9012 Jayes Rd, Piara Waters
 Piara Waters , WA


Reviewed By: Wayne Rozmianiec
Review Date: 4/24/2023

General Information

Work Date: 4/13/2023	Representative: Wayne Rozmianiec
Weather: Fine	Time Arrived: 10:00 AM
Time Departed: 11:00 AM	Time on Site (h): 1.00
Contractor: SRK Contractors Pty Ltd	

Other Observations

Topsoil Strip Assessment

Approximately 200-300mm of vegetation and topsoil removed to expose grey / black sand.

Stripped surface appears to contain layers of organic sand / topsoil and cleaner white yellow sand at sites 1 and 2.
 Site 3 contained 100mm of grey sand over gravel - unable to hand dig further - refusal.

Organic content testing taken on site 1 and 2 - at approx 100mm below current surface level.

More assessment required.

Further site visit booked for 26 April 2023.

Daily Summary Field Report

Report No.: DSFR:W23-00778
Issue No.: 1

Client: SRK Contractors Pty Ltd
 8 Comino Street, PO Box 1020 Cloverdale WA 6985
 Cloverdale, WA 6105
Project: D312869 - lot 9012 Jayes Rd, Piara Waters
 Piara Waters , WA



Reviewed By: Wayne Rozmianiec
Review Date: 4/24/2023

Stripped surface - facing south east



Description:

Stripped surface



Description:

Daily Summary Field Report

Report No.: DSFR:W23-00778
Issue No.: 1

Client: SRK Contractors Pty Ltd
 8 Comino Street, PO Box 1020 Cloverdale WA 6985
 Cloverdale, WA 6105
Project: D312869 - lot 9012 Jayes Rd, Piara Waters
 Piara Waters , WA



Reviewed By: Wayne Rozmianiec
Review Date: 4/24/2023

Test site 1



Description:

Test site 2



Description:

Daily Summary Field Report

Report No.: DSFR:W23-00778
Issue No.: 1

Client: SRK Contractors Pty Ltd
 8 Comino Street, PO Box 1020 Cloverdale WA 6985
 Cloverdale, WA 6105
Project: D312869 - lot 9012 Jayes Rd, Piara Waters
 Piara Waters , WA



Reviewed By: Wayne Rozmianiec
Review Date: 4/24/2023

Stripped surface - south west facing



Description:

Test site 3



Description:

Daily Summary Field Report

Report No.: DSFR:W23-00778
Issue No.: 1

Client: SRK Contractors Pty Ltd
 8 Comino Street, PO Box 1020 Cloverdale WA 6985
 Cloverdale, WA 6105

Project: D312869 - lot 9012 Jayes Rd, Piara Waters
 Piara Waters , WA

Wayne Rozmianiec
Reviewed By: Wayne Rozmianiec
Review Date: 4/24/2023

Plan




Description:

Daily Summary Field Report

Report No.: DSFR:W23-00858
Issue No.: 1

Client: SRK Contractors Pty Ltd
 8 Comino Street, PO Box 1020 Cloverdale WA 6985
 Cloverdale, WA 6105
Project: D312869 - lot 9012 Jayes Rd, Piara Waters
 Piara Waters , WA


Reviewed By: Wayne Rozmianiec
Review Date: 4/26/2023

General Information

Work Date: 4/26/2023	Representative: Wayne Rozmianiec
Weather: Cloudy	Time Arrived: 8:30 AM
Time Departed: 9:30 AM	Time on Site (h): 1.00
Contractor: SRK Contractors Pty Ltd	

Other Observations

Site Assessment

At the request of SRK Contractors Pty Ltd, representatives from Strucsterre Consulting attended the Lot 9012 Jayes Rd, Piara Waters site to assess the stripped surface and underlying conditions for suitability as foundation materials.

Test pitting was carried out over the site using a front end loader to a maximum depth of approximately 1.5m.

Visual inspection of the tests pits noted the following:

- Test pits 1 to 5 have varying thickness of topsoil / fill (100-400mm) overlying natural sand (white / brown) containing areas of coffee rock.
- Test pits 6 to 9 contained topsoil fill to maximum depth of approximately 1500mm overlying natural sand (white / brown).

In order to limit the placement of cut topsoil materials in the foundation and achieve a class A site with a reinforced A detail (Strucsterre B1 or similar), the following is recommended:

1. Cross rip the exposed foundation and remove any deleterious materials.
2. Proof compact using the 13 ton vibrating flat drum roller available onsite to achieve required compaction to minimum 0.9m.
3. Import limestone to grade the foundation at as required thicknesses to achieve minimum 1% grade.
4. Place and compact suitable sand fill to achieve minimum 1.7m cover.

Items 1 and 2 should be carried out in trial section initially to ensure suitable compaction is achieved with the 13 ton roller.

Surface of the site has been adequately stripped of vegetation and topsoil as mark on the attached plan.

The geotechnical report indicates loose zones near the surface at CPT 07 and CPT 04, these areas will required localised compaction testing the verify proof compaction.

Daily Summary Field Report

Report No.: DSFR:W23-00858
Issue No.: 1

Client: SRK Contractors Pty Ltd
 8 Comino Street, PO Box 1020 Cloverdale WA 6985
 Cloverdale, WA 6105
Project: D312869 - lot 9012 Jayes Rd, Piara Waters
 Piara Waters , WA



Reviewed By: Wayne Rozmianiec
Review Date: 4/26/2023

Test pit 1



Description:

Test pit 2




Description:

Daily Summary Field Report

Report No.: DSFR:W23-00858
Issue No.: 1

Client: SRK Contractors Pty Ltd
 8 Comino Street, PO Box 1020 Cloverdale WA 6985
 Cloverdale, WA 6105
Project: D312869 - lot 9012 Jayes Rd, Piara Waters
 Piara Waters , WA


Reviewed By: Wayne Rozmianiec
Review Date: 4/26/2023

Test pit 3



Description:

Test pit 4




Description:

Daily Summary Field Report

Report No.: DSFR:W23-00858
Issue No.: 1

Client: SRK Contractors Pty Ltd
 8 Comino Street, PO Box 1020 Cloverdale WA 6985
 Cloverdale, WA 6105
Project: D312869 - lot 9012 Jayes Rd, Piara Waters
 Piara Waters , WA


Reviewed By: Wayne Rozmianiec
Review Date: 4/26/2023

Test pit 5



Description:

Test pit 6



Description:

Daily Summary Field Report

Report No.: DSFR:W23-00858
Issue No.: 1

Client: SRK Contractors Pty Ltd
 8 Comino Street, PO Box 1020 Cloverdale WA 6985
 Cloverdale, WA 6105
Project: D312869 - lot 9012 Jayes Rd, Piara Waters
 Piara Waters , WA



Reviewed By: Wayne Rozmianiec
Review Date: 4/26/2023

Test pit 7



Description:

Test pit 7




Description:

Daily Summary Field Report

Report No.: DSFR:W23-00858
Issue No.: 1

Client: SRK Contractors Pty Ltd
 8 Comino Street, PO Box 1020 Cloverdale WA 6985
 Cloverdale, WA 6105
Project: D312869 - lot 9012 Jayes Rd, Piara Waters
 Piara Waters , WA


Reviewed By: Wayne Rozmianiec
Review Date: 4/26/2023

Test pit 8



Description:

Topsoil strip - south east




Description:

Daily Summary Field Report

Report No.: DSFR:W23-00858
Issue No.: 1

Client: SRK Contractors Pty Ltd
 8 Comino Street, PO Box 1020 Cloverdale WA 6985
 Cloverdale, WA 6105
Project: D312869 - lot 9012 Jayes Rd, Piara Waters
 Piara Waters , WA


Reviewed By: Wayne Rozmianiec
Review Date: 4/26/2023

Topsoil strip - south west



Description:

Topsoil strip - north east



Description:

Daily Summary Field Report

Report No.: DSFR:W23-00858
 Issue No.: 1

Client: SRK Contractors Pty Ltd
 8 Comino Street, PO Box 1020 Cloverdale WA 6985
 Cloverdale, WA 6105
Project: D312869 - lot 9012 Jayes Rd, Piara Waters
 Piara Waters , WA



Reviewed By: Wayne Rozmianiec
 Review Date: 4/26/2023

Plan




Description:

Daily Summary Field Report

Report No.: DSFR:W23-01184
Issue No.: 1

Client: SRK Contractors Pty Ltd
 8 Comino Street, PO Box 1020 Cloverdale WA 6985
 Cloverdale, WA 6105
Project: D312869 - Lot 9012 Jayes Rd, Piara Waters
 Piara Waters , WA


Reviewed By: Wayne Rozmianiec
Review Date: 6/2/2023

General Information

Work Date: 6/1/2023	Representative:
Weather: Fine	Time Arrived: 3:00 PM
Time Departed: 3:45 PM	Time on Site (h): 0.75
Contractor: S & C Civil Contractors Pty Ltd	

Other Observations

Site Inspection

Assessment carried out on stripped area as noted on

Area is identified as cut on Grading Plan CI-02.00 and requires further removal of topsoil, benching and keyed into Warton Rod boundary.

Remaining trees trunks and roots are to be removed during this process.

Re inspection to be carried out on Friday 2/6/23.

Daily Summary Field Report

Report No.: DSFR:W23-01184
Issue No.: 1

Client: SRK Contractors Pty Ltd
 8 Comino Street, PO Box 1020 Cloverdale WA 6985
 Cloverdale, WA 6105
Project: D312869 - Lot 9012 Jayes Rd, Piara Waters
 Piara Waters , WA



Reviewed By: Wayne Rozmianiec
Review Date: 6/2/2023

North east facing



Description:

Natural sand and coffee rock



Description:

Daily Summary Field Report

Report No.: DSFR:W23-01184
Issue No.: 1

Client: SRK Contractors Pty Ltd
 8 Comino Street, PO Box 1020 Cloverdale WA 6985
 Cloverdale, WA 6105
Project: D312869 - Lot 9012 Jayes Rd, Piara Waters
 Piara Waters , WA



Reviewed By: Wayne Rozmianiec
Review Date: 6/2/2023

Wooden beam to be removed



Description:

Tree stump to be removed



Description:

Daily Summary Field Report

Report No.: DSFR:W23-01184
Issue No.: 1

Client: SRK Contractors Pty Ltd
 8 Comino Street, PO Box 1020 Cloverdale WA 6985
 Cloverdale, WA 6105

Project: D312869 - Lot 9012 Jayes Rd, Piara Waters
 Piara Waters , WA

Wayne Rozmianiec
Reviewed By: Wayne Rozmianiec
Review Date: 6/2/2023

South west facing



Description:

Plan




Description:

Daily Summary Field Report

Report No.: DSFR:W23-01197
Issue No.: 1

Client: SRK Contractors Pty Ltd
 8 Comino Street, PO Box 1020 Cloverdale WA 6985
 Cloverdale, WA 6105
Project: D312869 - Lot 9012 Jayes Rd, Piara Waters
 Piara Waters , WA


Reviewed By: Wayne Rozmianiec
Review Date: 6/7/2023

General Information

Work Date: 6/2/2023	Representative: Wayne Rozmianiec
Weather: Raining	Time Arrived: 2:30 PM
Time Departed: 3:30 PM	Time on Site (h): 1.00
Contractor: SRK Contractors Pty Ltd	

Other Observations

Site Inspection

Assessment carried out on area stripped of topsoil and other deleterious materials as noted on plan.


Area to north of access track has adequately removed topsoil and exposed natural sand and coffee rock.
 Ok to proof compact and place fill.

Area to south of access track has adequately removed topsoil, requires removal of tree roots and clumps greater than 50mm in diameter.
 Ok to proof compact and place fill once tree roots and clumps removed.

Daily Summary Field Report

Report No.: DSFR:W23-01197
Issue No.: 1

Client: SRK Contractors Pty Ltd
 8 Comino Street, PO Box 1020 Cloverdale WA 6985
 Cloverdale, WA 6105
Project: D312869 - Lot 9012 Jayes Rd, Piara Waters
 Piara Waters , WA


Reviewed By: Wayne Rozmianiec
Review Date: 6/7/2023

South of access track - topsoil stripped



Description:

South of access track - tree roots to be removed



Description:

Daily Summary Field Report

Report No.: DSFR:W23-01197
Issue No.: 1

Client: SRK Contractors Pty Ltd
 8 Comino Street, PO Box 1020 Cloverdale WA 6985
 Cloverdale, WA 6105
Project: D312869 - Lot 9012 Jayes Rd, Piara Waters
 Piara Waters , WA



Reviewed By: Wayne Rozmianiec
Review Date: 6/7/2023

South of access track - clumps to be removed



Description:

South of access track




Description:

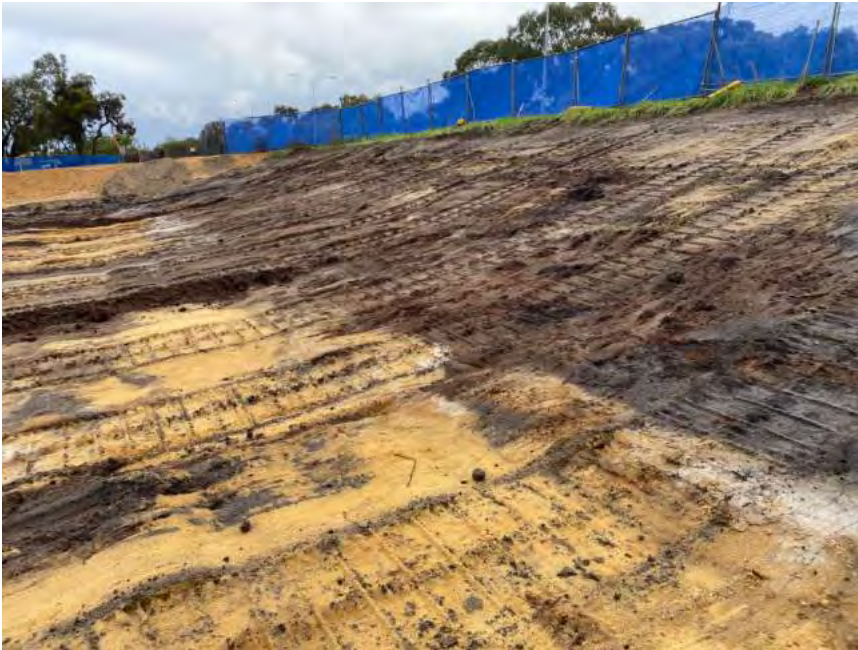
Daily Summary Field Report

Report No.: DSFR:W23-01197
Issue No.: 1

Client: SRK Contractors Pty Ltd
 8 Comino Street, PO Box 1020 Cloverdale WA 6985
 Cloverdale, WA 6105
Project: D312869 - Lot 9012 Jayes Rd, Piara Waters
 Piara Waters , WA


Reviewed By: Wayne Rozmianiec
Review Date: 6/7/2023

North of access track



Description:

North of access track



Description:

Daily Summary Field Report

Report No.: DSFR:W23-01197
Issue No.: 1

Client: SRK Contractors Pty Ltd
 8 Comino Street, PO Box 1020 Cloverdale WA 6985
 Cloverdale, WA 6105
Project: D312869 - Lot 9012 Jays Rd, Piara Waters
 Piara Waters , WA



Reviewed By: Wayne Rozmianiec
Review Date: 6/7/2023

Plan



Description:

Daily Summary Field Report

Report No.: DSFR:W23-01239

Issue No.: 2

This report replaces all previous issues of report no. 'DSFR:W23-01239'.

Client: SRK Contractors Pty Ltd
 8 Comino Street, PO Box 1020 Cloverdale WA 6985
 Cloverdale, WA 6105
Project: D312869 - Lot 9012 Jayes Rd, Piara Waters
 Piara Waters , WA



Reviewed By: Wayne Rozmianiec
Review Date: 6/13/2023

General Information

Work Date: 6/9/2023	Representative: Wayne Rozmianiec
Weather: Overcast	Time Arrived: 3:45 PM
Time Departed: 4:45 AM	Time on Site (h): 13.00
Contractor: SRK Contractors Pty Ltd	

Other Observations

Site Assessment

At the request of SRK Contractors Pty Ltd, a representative from Strucsterre Consulting attended the Lot 9012 Jayes Rd, Piara Waters site to assess the stripped surface and underlying conditions for suitability as foundation materials.

The area assessed in along the southwestern boundary and marked on the attached plan.

Test pitting was carried out over the site using a front end loader to a maximum depth of approximately 1.5m.

Visual inspection of the test pits noted the following:

- Test pits 1, 3, 4 and 5 had approximately 200mm of topsoil removed to expose natural sand (white / brown) with some coffee rock.
- Test pit 2 contained 1.5m of topsoil.

Further test pitting adjacent to test pit 2 noted topsoil was contained in a small area of approximately 30m x 15m, with a maximum depth of approximately 1.5m.

It is recommended the topsoil at test pit 2 be removed and backfilled with appropriate non reactive fill.

The remained of the area has been adequately stripped of topsoil and requires proof compaction.

Approximate locations of test pits are located on plan and GPS below.

- TP 1, -32.1199280, 115.9115764
- TP 2, -32.1201578, 115.9119117
- TP 3, -32.1203472, 115.9123214
- TP 4, -32.1205880, 115.9124340
- TP 5, -32.1208222, 115.9126865

Daily Summary Field Report

Report No.: DSFR:W23-01239

Issue No.: 2

This report replaces all previous issues of report no. 'DSFR:W23-01239'.

Client: SRK Contractors Pty Ltd
 8 Comino Street, PO Box 1020 Cloverdale WA 6985
 Cloverdale, WA 6105
Project: D312869 - Lot 9012 Jayes Rd, Piara Waters
 Piara Waters , WA



Reviewed By: Wayne Rozmianiec
Review Date: 6/13/2023

TP 1



Description:

TP 2



Description:

Daily Summary Field Report

Report No.: DSFR:W23-01239

Issue No.: 2

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 8 Comino Street, PO Box 1020 Cloverdale WA 6985
 Cloverdale, WA 6105

Project: D312869 - Lot 9012 Jayes Rd, Piara Waters
 Piara Waters , WA



Reviewed By: Wayne Rozmianiec
Review Date: 6/13/2023

TP 2



Description:

TP 3



Description:

Daily Summary Field Report

Report No.: DSFR:W23-01239

Issue No.: 2

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 8 Comino Street, PO Box 1020 Cloverdale WA 6985
 Cloverdale, WA 6105
Project: D312869 - Lot 9012 Jayes Rd, Piara Waters
 Piara Waters , WA



Reviewed By: Wayne Rozmianiec
Review Date: 6/13/2023

TP 4



Description:

TP 5



Description:

Daily Summary Field Report

Report No.: DSFR:W23-01239

Issue No.: 2

This report replaces all previous issues of report no. 'DSFR:W23-01239'.

Client: SRK Contractors Pty Ltd
 8 Comino Street, PO Box 1020 Cloverdale WA 6985
 Cloverdale, WA 6105

Project: D312869 - Lot 9012 Jayes Rd, Piara Waters
 Piara Waters , WA



Reviewed By: Wayne Rozmianiec

Review Date: 6/13/2023

Plan - area assessed marked in purple



Description:

Test Pit Locations




Description:

Daily Summary Field Report

Report No.: DSFR:W23-01317
Issue No.: 1

Client: SRK Contractors Pty Ltd
 8 Comino Street, PO Box 1020 Cloverdale WA 6985
 Cloverdale, WA 6105
Project: D312869 - Lot 9012 Jayes Rd, Piara Waters
 Piara Waters , WA


Reviewed By: Wayne Rozmianiec
Review Date: 6/20/2023

General Information

Work Date: 6/20/2023	Representative: Wayne Rozmianiec
Weather: Fine	Time Arrived: 3:30 PM
Time Departed: 5:00 PM	Time on Site (h): 1.50
Contractor: SRK Contractors Pty Ltd	

Other Observations

Site Assessment

At the request of SRK Contractors Pty Ltd, a representative from Strucsterre Consulting attended the Lot 9102 Jayes Rd, Piara Waters site to assess potentially unsuitable materials.

Topsoil removed in area noted on plan exposed a small pocket of silty SAND surrounded by previously encountered natural sand / coffee rock and the southern boundary.

Subsequent proof compaction was unsuccessful and significant deformation was noted during compaction and walk over after compaction.

It is recommended the unsuitable materials be removed and replaced and compacted with suitable fill as per section 10.4 of the Galt Geotechnical Study.

Daily Summary Field Report

Report No.: DSFR:W23-01317
Issue No.: 1

Client: SRK Contractors Pty Ltd
 8 Comino Street, PO Box 1020 Cloverdale WA 6985
 Cloverdale, WA 6105
Project: D312869 - Lot 9012 Jayes Rd, Piara Waters
 Piara Waters , WA



Reviewed By: Wayne Rozmianiec
Review Date: 6/20/2023

Soft zone - south west boundary to right



Description:

Test pit at location



Description:

Daily Summary Field Report

Report No.: DSFR:W23-01317
 Issue No.: 1

Client: SRK Contractors Pty Ltd
 8 Comino Street, PO Box 1020 Cloverdale WA 6985
 Cloverdale, WA 6105
Project: D312869 - Lot 9012 Jayes Rd, Piara Waters
 Piara Waters , WA

Reviewed By: Wayne Rozmianiec
 Review Date: 6/20/2023

Deviation after proof compaction



Description:

Location




Description:

Daily Summary Field Report

Report No.: DSFR:W23-01334
Issue No.: 1

Client: SRK Contractors Pty Ltd
 8 Comino Street, PO Box 1020 Cloverdale WA 6985
 Cloverdale, WA 6105
Project: D312869 - Lot 9012 Jayes Rd, Piara Waters
 Piara Waters , WA


Reviewed By: Wayne Rozmianiec
Review Date: 6/23/2023

General Information

Work Date: 6/22/2023	Representative: Wayne Rozmianiec
Weather: Rainy	Time Arrived: 7:30 AM
Time Departed: 9:00 AM	Time on Site (h): 1.50
Contractor: SRK Contractors Pty Ltd	

Other Observations

Site Inspection

Earthworks Monitoring

- sand fill imported to site and stockpiled.
- sand fill compacted in central area.
- topsoil stockpile being moved to main stockpile from Jayes rd boundary.

Removal of Unsuitable Materials

- excavation of unsuitable materials carried out as located on plan.
- depth of excavation 1.0m at central deep point to daylight in approximately radius.
- underlying materials - firm sand / sand with silt.
- excavation backfilled with fill sand.

Topsoil Strip Assessment

- topsoil removed at area noted on plan.
- surface requires skim / removal of thin layer of deleterious / organic materials (due to water) prior to proof compaction.
- topsoil stockpile to be removed.

Daily Summary Field Report

Report No.: DSFR:W23-01334
Issue No.: 1

Client: SRK Contractors Pty Ltd
 8 Comino Street, PO Box 1020 Cloverdale WA 6985
 Cloverdale, WA 6105
Project: D312869 - Lot 9012 Jayes Rd, Piara Waters
 Piara Waters , WA



Reviewed By: Wayne Rozmianiec
Review Date: 6/23/2023

Excavation of unsuitable materials



Description:

Excavation of unsuitable materials




Description:

Daily Summary Field Report

Report No.: DSFR:W23-01334
Issue No.: 1

Client: SRK Contractors Pty Ltd
 8 Comino Street, PO Box 1020 Cloverdale WA 6985
 Cloverdale, WA 6105
Project: D312869 - Lot 9012 Jayes Rd, Piara Waters
 Piara Waters , WA


Reviewed By: Wayne Rozmianiec
Review Date: 6/23/2023

Excavation of unsuitable materials - to firm base



Description:

Topsoil removal area




Description:

Daily Summary Field Report

Report No.: DSFR:W23-01334
Issue No.: 1

Client: SRK Contractors Pty Ltd
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 Cloverdale, WA 6105
Project: D312869 - Lot 9012 Jayes Rd, Piara Waters
 Piara Waters , WA


Reviewed By: Wayne Rozmianiec
Review Date: 6/23/2023

Topsoil stockpile and removal



Description:

Compaction of fill



Description:

Daily Summary Field Report

Report No.: DSFR:W23-01334
Issue No.: 1

Client: SRK Contractors Pty Ltd
 8 Comino Street, PO Box 1020 Cloverdale WA 6985
 Cloverdale, WA 6105
Project: D312869 - Lot 9012 Jayes Rd, Piara Waters
 Piara Waters , WA



Reviewed By: Wayne Rozmianiec
Review Date: 6/23/2023

Plan



Description:

Daily Summary Field Report

Report No.: DSFR:W23-01562

Issue No.: 2

This report replaces all previous issues of report no. 'DSFR:W23-01562'.

Client: SRK Contractors Pty Ltd
 8 Comino Street, PO Box 1020 Cloverdale WA 6985
 Cloverdale, WA 6105
Project: D312869 - Lot 9012 Jayes Rd, Piara Waters
 Piara Waters , WA



Reviewed By: Wayne Rozmianiec
Review Date: 7/17/2023

General Information

Work Date: 7/14/2023	Representative: Wayne Rozmianiec
Weather: Fine	Time Arrived: 7:00 AM
Time Departed: 8:00 AM	Time on Site (h): 1.00
Contractor: SRK Contractors Pty Ltd	

Other Observations

Site Inspection

Topsoil Strip Assessment

Assessment of the removal of topsoil, unsuitable materials and uncontrolled fill carried out on area noted on attached plan.

The area assessed is located in the south western corner of the site and mostly to east of the 'north -south' drain.

The soil profile consists of:

Western end of road reserve (drain) - Area 1

0-300mm Sand / topsoil
 300-400mm Limestone (crushed)
 400-1000mm Organic Sand / Peat
 1000mm + natural grey Sand

Eastern end of road reserve - Area 2

0-100mm Sand / topsoil - uncontrolled fill
 100-300mm Limestone (crushed) - uncontrolled fill
 300-1300mm Sand (fill) - uncontrolled fill
 1300-1500mm Limestone (crushed) - uncontrolled fill
 1500mm + natural grey Sand

It appears that the uncontrolled fill extends up to approximately 2000mm towards the eastern boundary.

We recommend removal of uncontrolled fill to natural grey sand and replace with suitable materials excavated in 300mm loose lifts to achieve 95% mmdd. Dewatering required due to inundation of ground water, backfilling to bridge foundation to be carried out as required.

It is likely that the only materials that may not be reused as structural fill is the organic sand / peat.

Daily Summary Field Report

Report No.: DSFR:W23-01562

Issue No.: 2

This report replaces all previous issues of report no. 'DSFR:W23-01562'.

Client: SRK Contractors Pty Ltd
 8 Comino Street, PO Box 1020 Cloverdale WA 6985
 Cloverdale, WA 6105

Project: D312869 - Lot 9012 Jayes Rd, Piara Waters
 Piara Waters , WA



Reviewed By: Wayne Rozmianiec
Review Date: 7/17/2023

Drain - south east facing



Description:

Organic sand / peat



Description:

Daily Summary Field Report

Report No.: DSFR:W23-01562

Issue No.: 2

This report replaces all previous issues of report no. 'DSFR:W23-01562'.

Client: SRK Contractors Pty Ltd
 8 Comino Street, PO Box 1020 Cloverdale WA 6985
 Cloverdale, WA 6105
Project: D312869 - Lot 9012 Jayes Rd, Piara Waters
 Piara Waters , WA



Reviewed By: Wayne Rozmianiec
Review Date: 7/17/2023

Limestone overlying fill



Description:

Limestone and organic sand / peat overlying natural grey sand



Description:

Daily Summary Field Report

Report No.: DSFR:W23-01562

Issue No.: 2

This report replaces all previous issues of report no. 'DSFR:W23-01562'.

Client: SRK Contractors Pty Ltd
 8 Comino Street, PO Box 1020 Cloverdale WA 6985
 Cloverdale, WA 6105
Project: D312869 - Lot 9012 Jayes Rd, Piara Waters
 Piara Waters , WA



Reviewed By: Wayne Rozmianiec
Review Date: 7/17/2023

Southern profile - near eastern boundary



Description:

Inundated area - west facing



Description:

Daily Summary Field Report

Report No.: DSFR:W23-01562

Issue No.: 2

This report replaces all previous issues of report no. 'DSFR:W23-01562'.

Client: SRK Contractors Pty Ltd
 8 Comino Street, PO Box 1020 Cloverdale WA 6985
 Cloverdale, WA 6105

Project: D312869 - Lot 9012 Jayes Rd, Piara Waters
 Piara Waters , WA



Reviewed By: Wayne Rozmianiec

Review Date: 7/17/2023

Location plan



Description:

Job No: W23-01012v0.1

28 June 2023

Celsius Land Syndicate #2 Pty Ltd Jayes Road Unit Trust
696 Albany Highway
East Victoria Park WA 6981

Attention: Mr Maha Jagaan

ANTICIPATED LOT CLASSIFICATION STAGE 1 LOT 9012 JAYES ROAD, PIARA WATERS

1. INTRODUCTION

At the request of SRK Contractors Pty Ltd, Structerre Consulting (Structerre) have prepared this letter to provide an anticipated Lot Classification of the bulk earthworks for Stage 1 of the residential subdivision at Lot 9012 Jayes Road, Piara Waters.

Structerre have provided ongoing assessments for the earthworks and provided recommendations for a "Class A" site as defined by AS 2870-2011 "Residential slabs and footings".

2. FIELDWORK

A representative from Structerre Consulting Engineers, (Structerre), regularly attended the site during the earthworks construction to date.

During the site visits, Structerre has undertaken topsoil stripping, foundation suitability and compaction audits of foundation.

Assessments and compaction audit testing conducted on bulk earthworks in accordance with AS 1289.6.3.3 indicate the foundation has been adequately prepared.

Works are continuing and at completion of the works, Structerre will conduct a final audit of the site and provide a completion report for the lots within the stage.

3. CONCLUSION

Based on the geotechnical assessments conducted to date, the completed residential lots within the development are anticipated to achieve:

Class A as determined by AS 2870-2011 for areas over the natural sands.

Class A with a B1 footing detail as determined by AS 2870-2011 for areas over the organic fill.

We trust this meets with your requirements. Should you require any additional information, or clarification of the above, please contact the undersigned.

For and behalf of

STRUCTERRE CONSULTING ENGINEERS

A handwritten signature in blue ink, appearing to read 'Wayne Rozmianiec', is positioned above a small, faint, illegible text string.

Wayne Rozmianiec
Laboratory Manager

Appendix 1: Location Plan

Appendix 2: B1 Footing Detail

Appendix 1 – Location Plan



Appendix 2 – B1 Footing Detail

