
Attachment 1 **Site photographs**

Mt Celia HLF preliminary geotechnical site investigation
Appendix 1



Plate 1

TP01



Plate 2

**TP01 – Refusal on
calcrete layer**

Mt Celia HLF preliminary geotechnical site investigation
Appendix 1



Plate 3

TP02 – Total depth



Plate 4

TP02 – Calcrete layer

Mt Celia HLF preliminary geotechnical site investigation
Appendix 1

Plate 5

TP04 – Total depth



Plate 6

TP04 – Roots observed



Mt Celia HLF preliminary geotechnical site investigation
Appendix 1

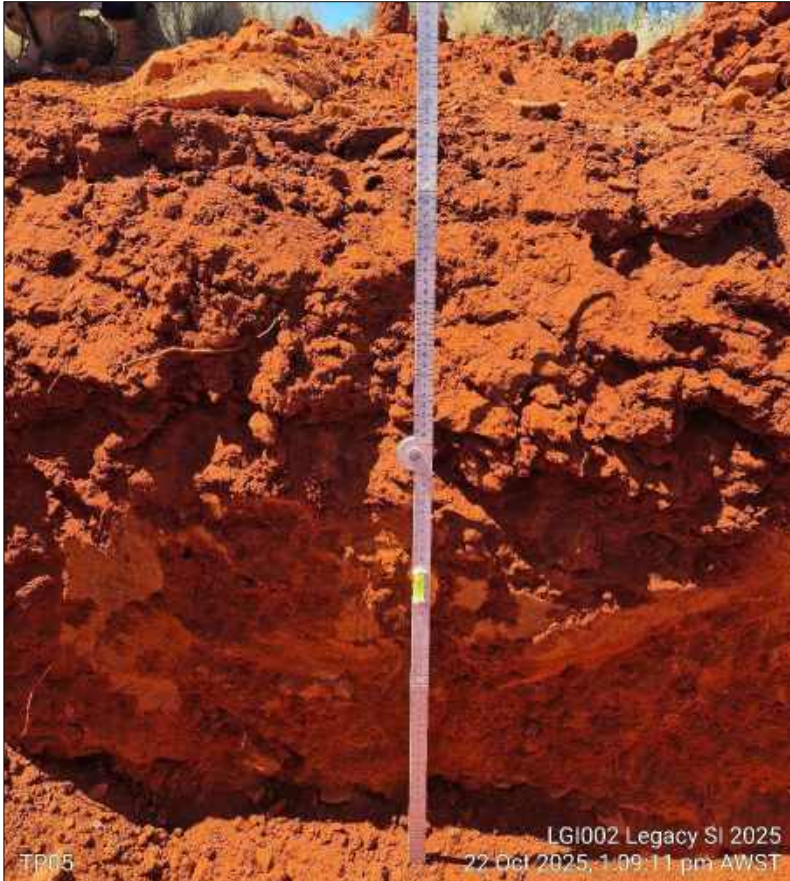


Plate 7

TP05 – Total depth



Plate 8

TP05 – Calcrete layer

Mt Celia HLF preliminary geotechnical site investigation
Appendix 1



Plate 9

TP06



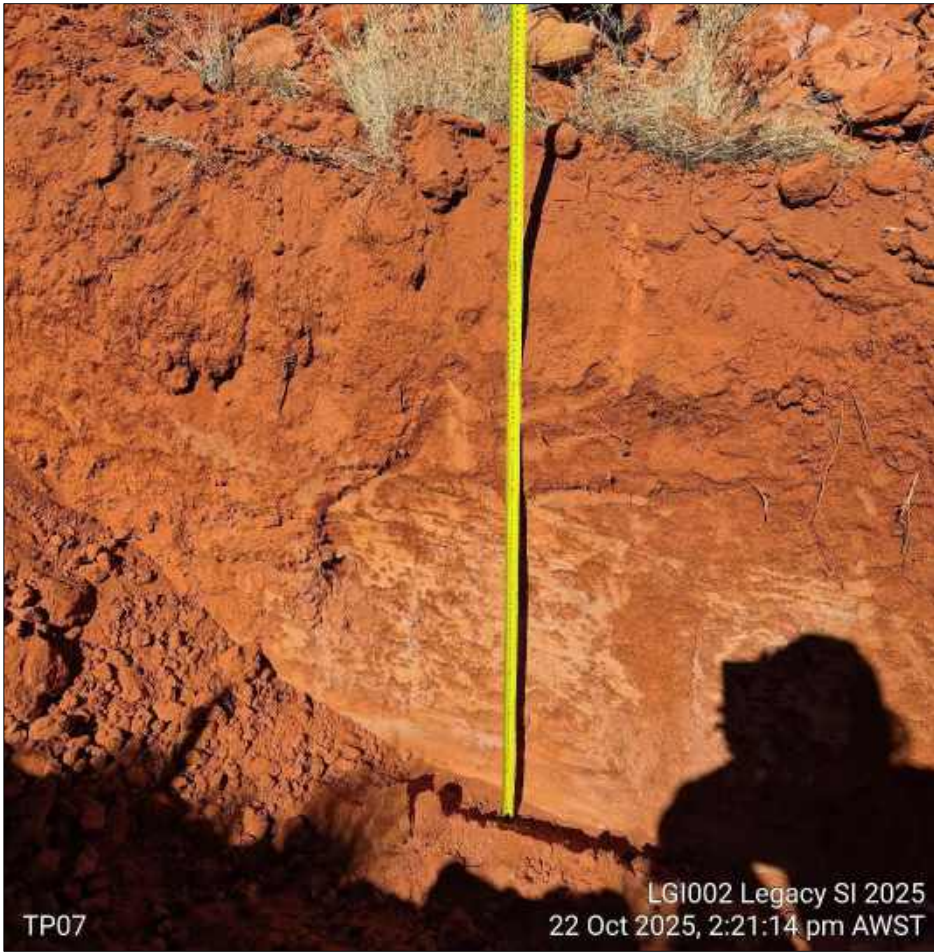
Plate 10

TP06 – Surface at the bottom of the hole

Mt Celia HLF preliminary geotechnical site investigation
Appendix 1

Plate 11

TP07 – Total depth



Mt Celia HLF preliminary geotechnical site investigation
Appendix 1

Plate 12

TP07 – Total depth



Mt Celia HLF preliminary geotechnical site investigation
Appendix 1

Plate 13

TP09



Mt Celia HLF preliminary geotechnical site investigation
Appendix 1



Plate 14

TP10 – Total depth



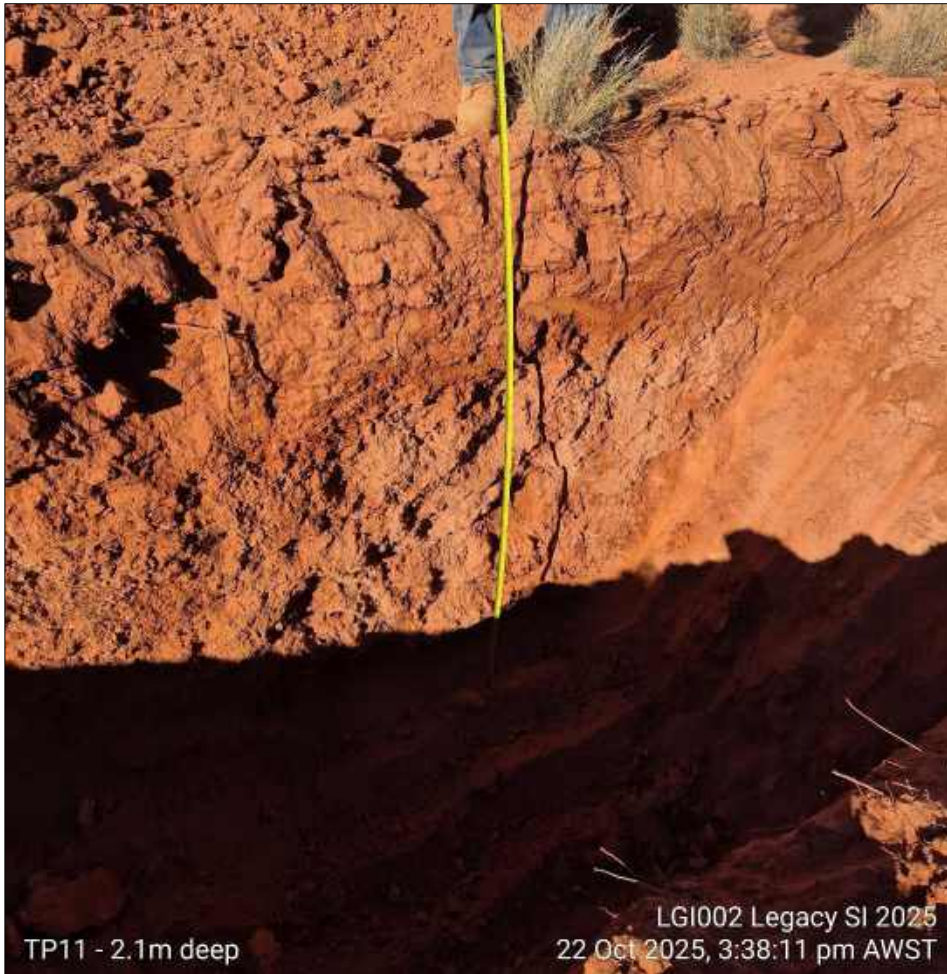
Plate 15

TP10

Mt Celia HLF preliminary geotechnical site investigation
Appendix 1

Plate 16

TP11 – 2.1 m deep



Mt Celia HLF preliminary geotechnical site investigation
Appendix 1



Plate 17

TP12 – 1.7m deep

Mt Celia HLF preliminary geotechnical site investigation
Appendix 1

Plate 18

TP13 – 2.4m deep



Mt Celia HLF preliminary geotechnical site investigation
Appendix 1

Plate 19

TP14 – 1.6m deep



Mt Celia HLF preliminary geotechnical site investigation
Appendix 1

Plate 20

TP15 – 2.3m deep



Mt Celia HLF preliminary geotechnical site investigation
Appendix 1

Plate 21

TP16



Mt Celia HLF preliminary geotechnical site investigation
Appendix 1



Plate 22

TP17 – Existing waste dump

Significant amount of cobbles and boulders

Mt Celia HLF preliminary geotechnical site investigation
Appendix 1

Plate 23

TP18 – 0.6m deep

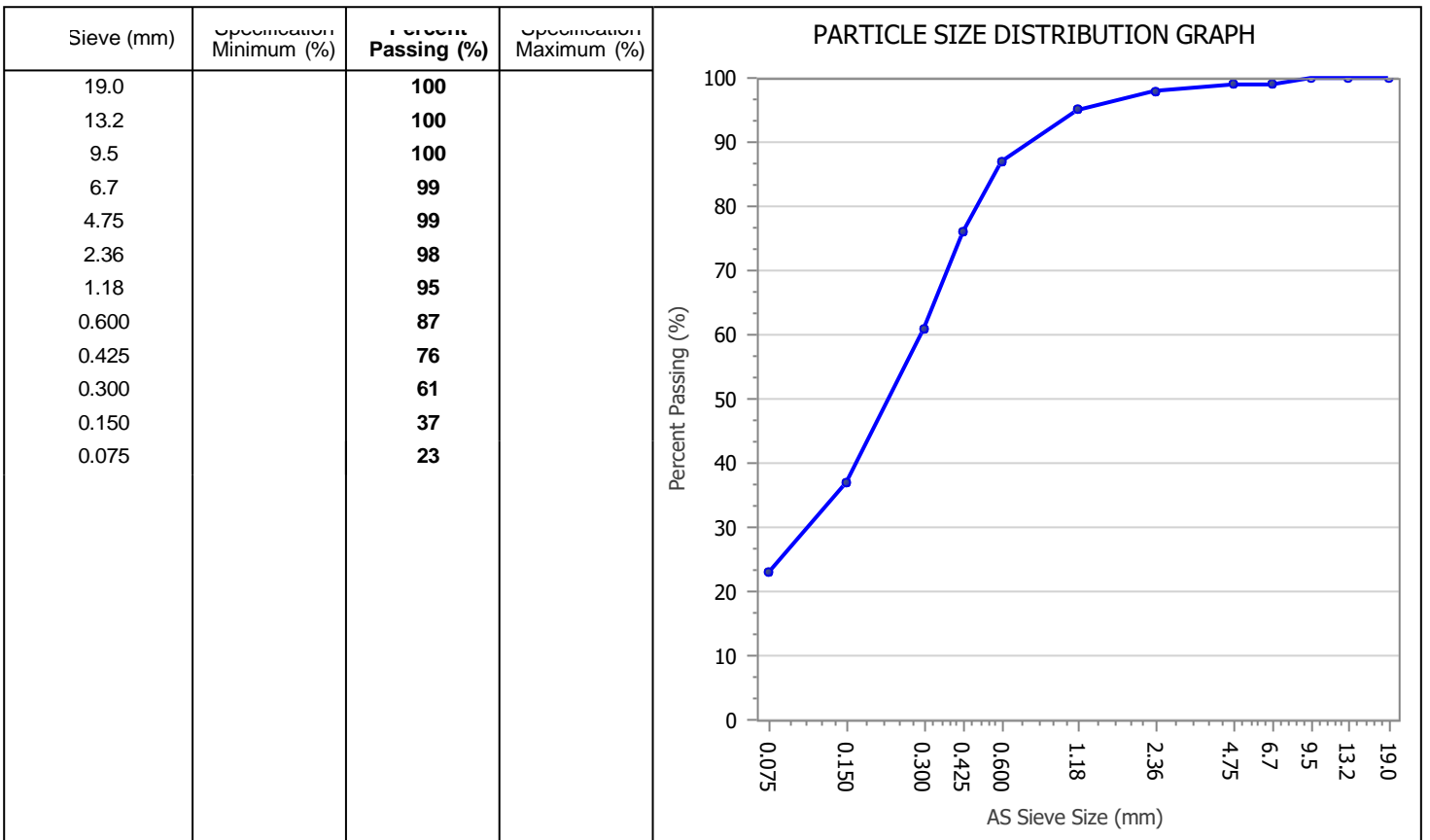


Attachment 2 Test certificates



PARTICLE SIZE DISTRIBUTION REPORT

Client: Trilab Pty Ltd	Report Number: 5022/R/26-806-1
Client Address: 2 Kimmer Road, Queens Park	Project Number: 5022/P/26-12
Project: Tailex Pty Ltd - Preliminary Site Investigation Mt Celia HLP	Lot Number: TP4-S1
Location: Mount Celia	Internal Test Request: 5022/T/26-180
Supplied To: Trilab Pty Ltd	Client Reference/s: LGI002
Area Description: Mt Celia HLP	Report Date / Page: 11/02/2026 Page 1 of 1

Test Procedures: AS1289.3.6.1	
Sample Number: 5022/S/26-1024	Test Pit No.: TP4
Client Reference: P25120038	Depth: m 0.00-0.40
Sampling Method: Tested As Received	Gravel
Sampled By: Client Sampled	Material Source: -
Date Sampled/Tested: 5/12/2025 / 4/02/2026	Material Type: -
Prep / Drying Method: n/a	Specification: -
Prep > 53mm (%): -	



Remarks: Results apply to the sample/s as received.

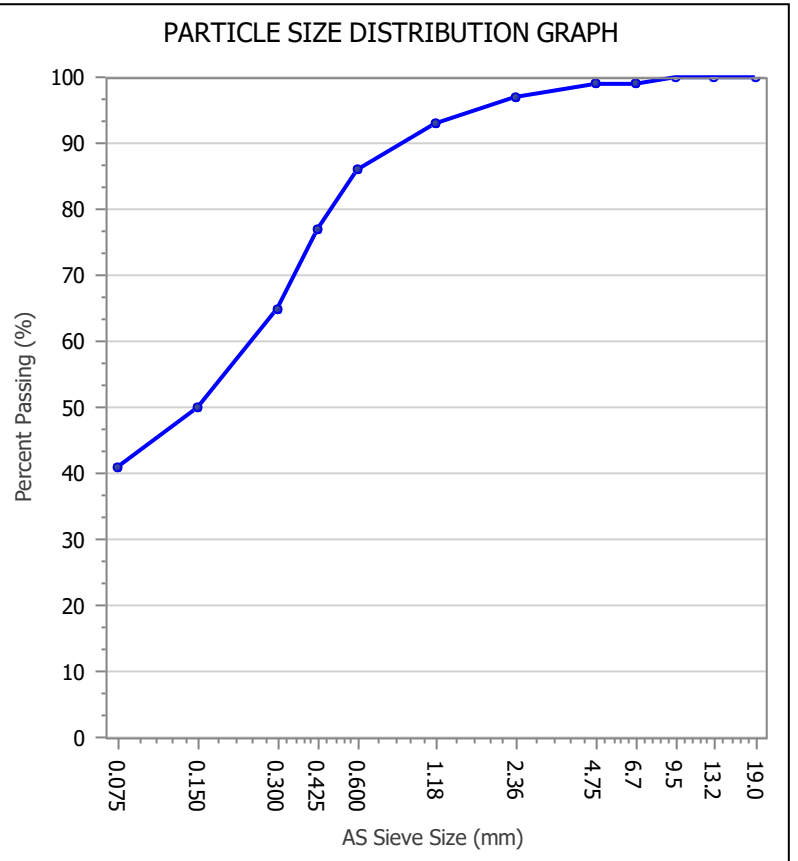
	<p>Accredited for compliance with ISO/IEC 17025 – Testing</p> <p>Accreditation Number: 1986 Corporate Site Number: 5022</p>	 <p>Approved Signatory: Kamil Wisniewski Form ID: W9Rep Rev 3</p>
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PARTICLE SIZE DISTRIBUTION REPORT


Client: Trilab Pty Ltd	Report Number: 5022/R/26-807-1
Client Address: 2 Kimmer Road, Queens Park	Project Number: 5022/P/26-12
Project: Tailex Pty Ltd - Preliminary Site Investigation Mt Celia HLP	Lot Number: TP5-S1
Location: Mount Celia	Internal Test Request: 5022/T/26-180
Supplied To: Trilab Pty Ltd	Client Reference/s: LGI002
Area Description: Mt Celia HLP	Report Date / Page: 11/02/2026 Page 1 of 1

Test Procedures: AS1289.3.6.1, AS1289.1.1	
Sample Number: 5022/S/26-1025	Test Pit No.: TP5
Client Reference: P25120039	Depth: m 0.00-0.85
Sampling Method: Tested As Received	Gravel
Sampled By: Client Sampled	Material Source: -
Date Sampled/Tested: 5/12/2025 / 4/02/2026	Material Type: -
Prep / Drying Method: n/a	Specification: -
Prep > 53mm (%): -	

Sieve (mm)	Specification Minimum (%)	Percent Passing (%)	Specification Maximum (%)
19.0		100	
13.2		100	
9.5		100	
6.7		99	
4.75		99	
2.36		97	
1.18		93	
0.600		86	
0.425		77	
0.300		65	
0.150		50	
0.075		41	



Remarks: Results apply to the sample/s as received.



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Accreditation Number:	1986
Corporate Site Number:	5022



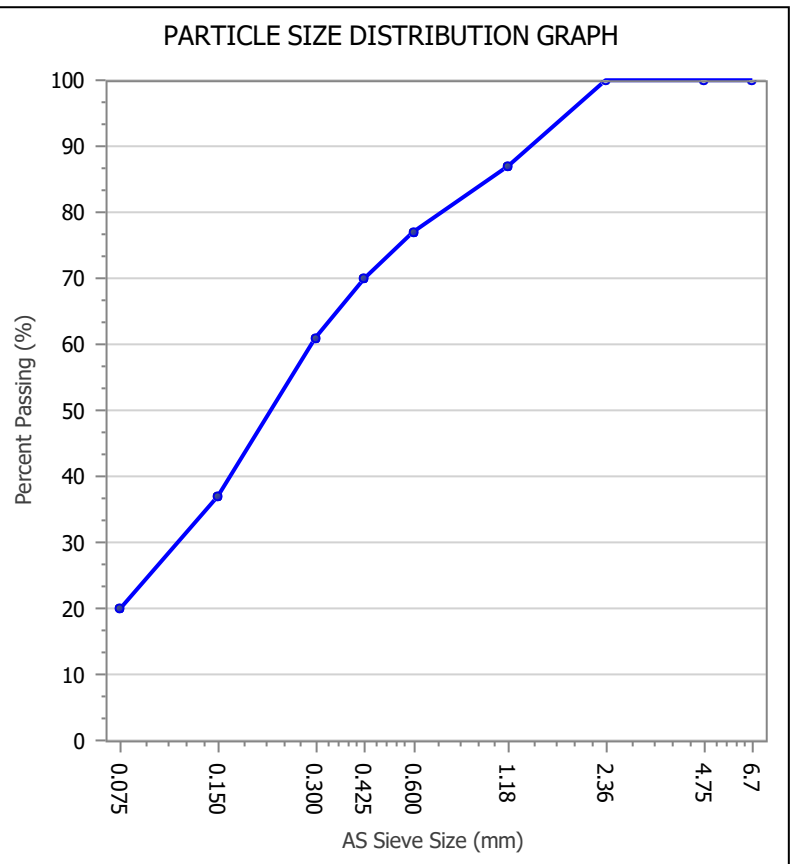
Approved Signatory: Kamil Wisniewski
Form ID: W9Rep Rev 3

PARTICLE SIZE DISTRIBUTION REPORT

Client: Trilab Pty Ltd	Report Number: 5022/R/26-809-1
Client Address: 2 Kimmer Road, Queens Park	Project Number: 5022/P/26-12
Project: Tailex Pty Ltd - Preliminary Site Investigation Mt Celia HLP	Lot Number: TP10-S1
Location: Mount Celia	Internal Test Request: 5022/T/26-180
Supplied To: Trilab Pty Ltd	Client Reference/s: LGI002
Area Description: Mt Celia HLP	Report Date / Page: 11/02/2026 Page 1 of 1


Test Procedures: AS1289.3.6.1, AS1289.1.1	
Sample Number: 5022/S/26-1026	Test Pit No.: TP10
Client Reference: P25120040	Depth: 1.50 m
Sampling Method: Tested As Received	Gravel
Sampled By: Client Sampled	Material Source: -
Date Sampled/Tested: 5/12/2025 / 4/02/2026	Material Type: -
Prep / Drying Method: n/a	Specification: -
Prep > 53mm (%): -	

Sieve (mm)	Specification Minimum (%)	Percent Passing (%)	Specification Maximum (%)
6.7		100	
4.75		100	
2.36		100	
1.18		87	
0.600		77	
0.425		70	
0.300		61	
0.150		37	
0.075		20	



Remarks: Results apply to the sample/s as received.

Accredited for compliance with ISO/IEC 17025 – Testing



Accreditation Number: 1986
Corporate Site Number: 5022

Kamil Wisniewski

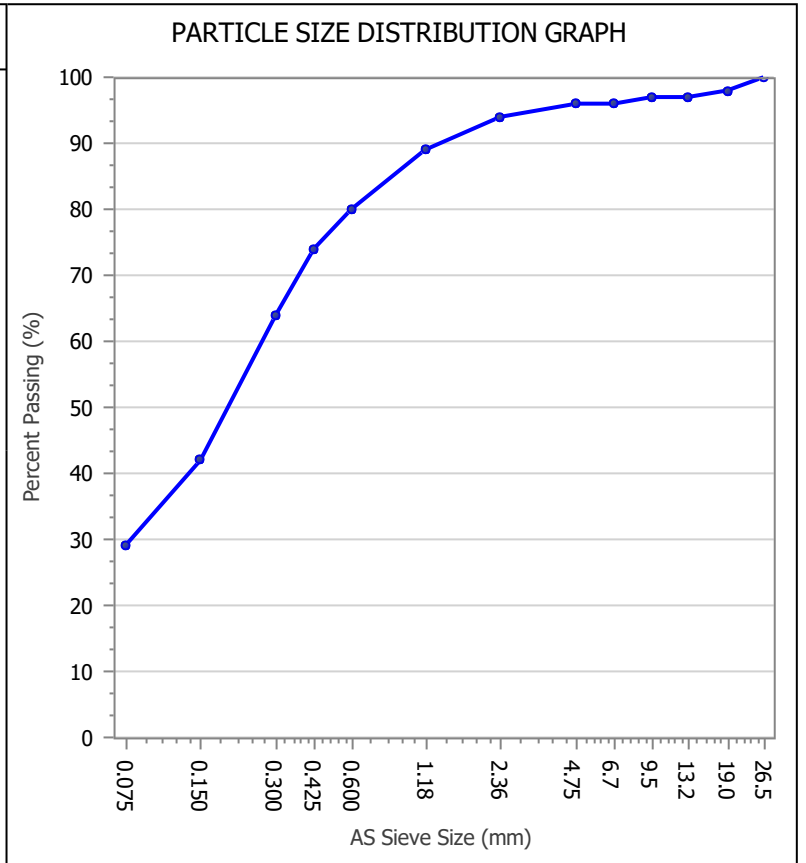
Approved Signatory: Kamil Wisniewski
Form ID: W9Rep Rev 3

PARTICLE SIZE DISTRIBUTION REPORT


Client: Trilab Pty Ltd	Report Number: 5022/R/26-812-1
Client Address: 2 Kimmer Road, Queens Park	Project Number: 5022/P/26-12
Project: Tailex Pty Ltd - Preliminary Site Investigation Mt Celia HLP	Lot Number: TP10-S2
Location: Mount Celia	Internal Test Request: 5022/T/26-180
Supplied To: Trilab Pty Ltd	Client Reference/s: LGI002
Area Description: Mt Celia HLP	Report Date / Page: 11/02/2026 Page 1 of 1

Test Procedures: AS1289.3.6.1, AS1289.1.1	
Sample Number: 5022/S/26-1027	Test Pit No.: TP10
Client Reference: P25120041	Depth: 3.00 m
Sampling Method: Tested As Received	Gravel
Sampled By: Client Sampled	Material Source: -
Date Sampled/Tested: 5/12/2025 / 4/02/2026	Material Type: -
Prep / Drying Method: n/a	Specification: -
Prep > 53mm (%): -	

Sieve (mm)	Specification Minimum (%)	Percent Passing (%)	Specification Maximum (%)
26.5		100	
19.0		98	
13.2		97	
9.5		97	
6.7		96	
4.75		96	
2.36		94	
1.18		89	
0.600		80	
0.425		74	
0.300		64	
0.150		42	
0.075		29	



Remarks: Results apply to the sample/s as received.



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Accreditation Number:	1986
Corporate Site Number:	5022



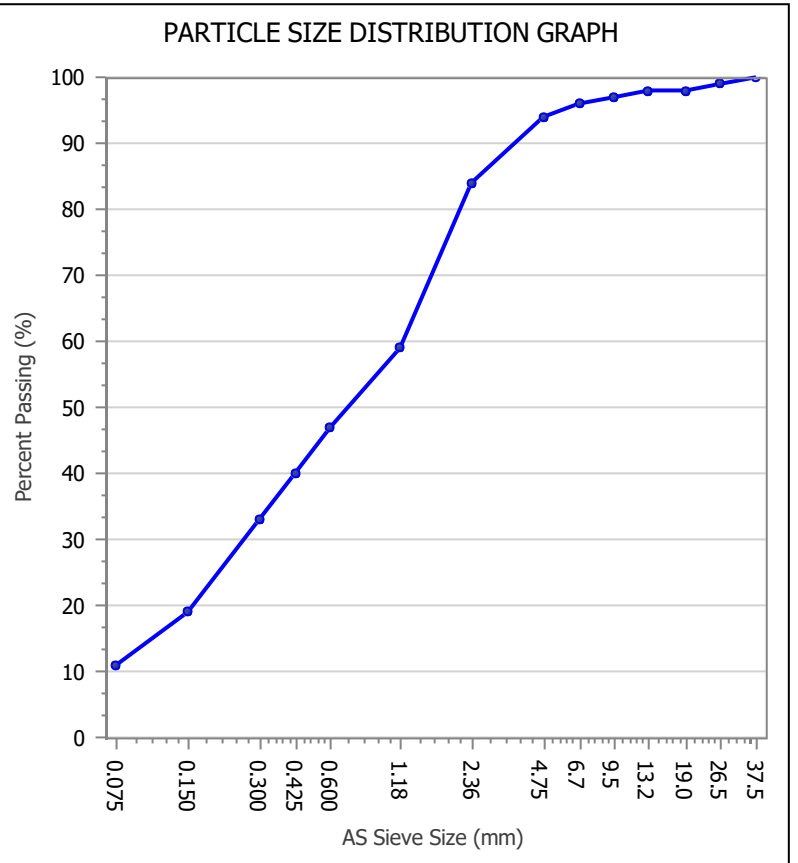
Approved Signatory: Kamil Wisniewski
 Form ID: W9Rep Rev 3

PARTICLE SIZE DISTRIBUTION REPORT

Client: Trilab Pty Ltd	Report Number: 5022/R/26-815-1
Client Address: 2 Kimmer Road, Queens Park	Project Number: 5022/P/26-12
Project: Tailex Pty Ltd - Preliminary Site Investigation Mt Celia HLP	Lot Number: TP11-S1
Location: Mount Celia	Internal Test Request: 5022/T/26-180
Supplied To: Trilab Pty Ltd	Client Reference/s: LGI002
Area Description: Mt Celia HLP	Report Date / Page: 11/02/2026 Page 1 of 1


Test Procedures: AS1289.3.6.1, AS1289.1.1	
Sample Number: 5022/S/26-1028	Test Pit No.: TP11
Client Reference: P25120042	Depth: 1.00 m
Sampling Method: Tested As Received	Gravel
Sampled By: Client Sampled	Material Source: -
Date Sampled/Tested: 5/12/2025 / 4/02/2026	Material Type: -
Prep / Drying Method: n/a	Specification: -
Prep > 53mm (%): -	

Sieve (mm)	Specification Minimum (%)	Percent Passing (%)	Specification Maximum (%)
37.5		100	
26.5		99	
19.0		98	
13.2		98	
9.5		97	
6.7		96	
4.75		94	
2.36		84	
1.18		59	
0.600		47	
0.425		40	
0.300		33	
0.150		19	
0.075		11	



Remarks: Results apply to the sample/s as received.

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Accreditation Number: 1986
 Corporate Site Number: 5022

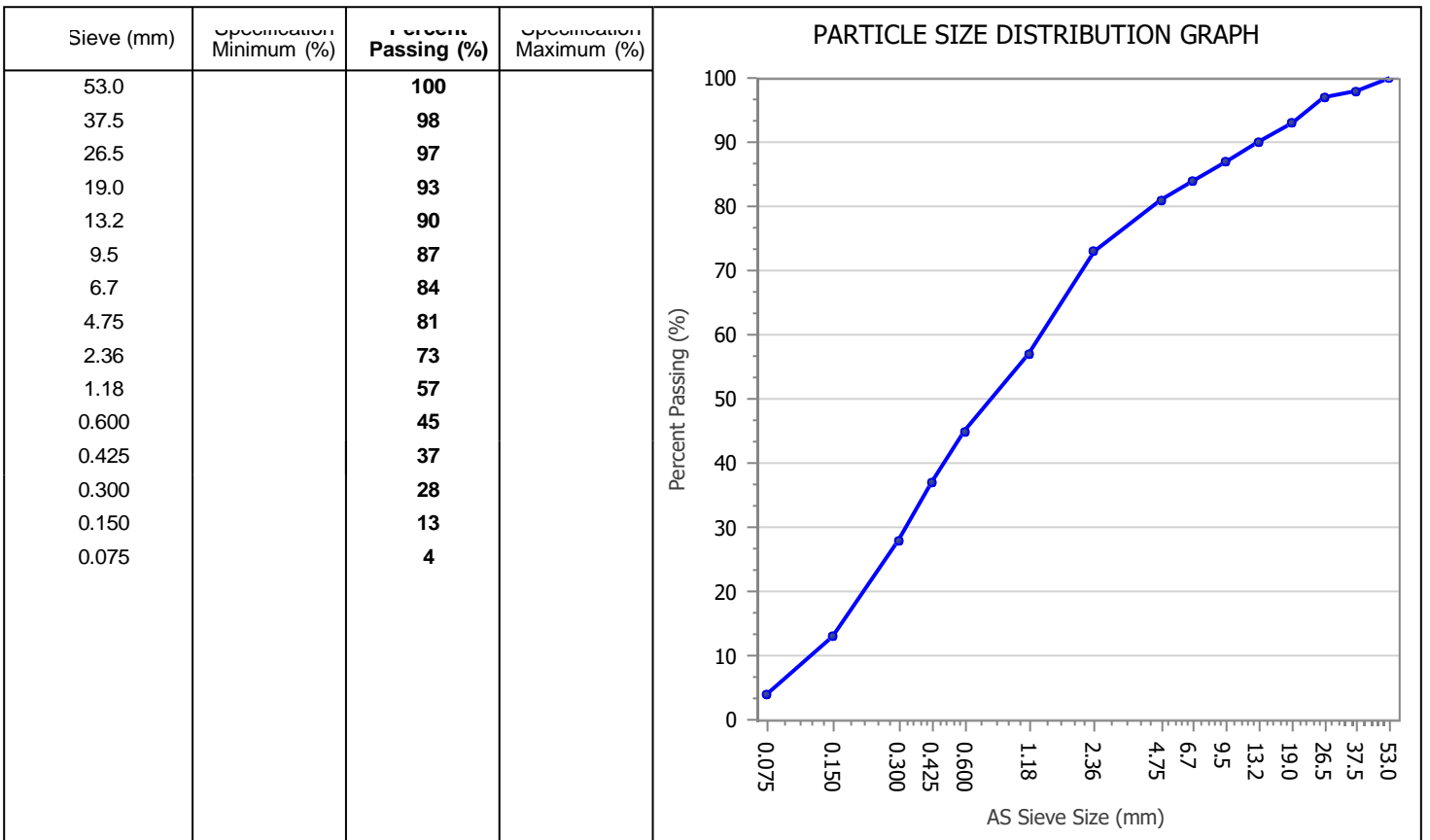
Kamil Wisniewski

Approved Signatory: Kamil Wisniewski
 Form ID: W9Rep Rev 3



PARTICLE SIZE DISTRIBUTION REPORT

Client: Trilab Pty Ltd	Report Number: 5022/R/26-981-1
Client Address: 2 Kimmer Road, Queens Park	Project Number: 5022/P/26-12
Project: Tailex Pty Ltd - Preliminary Site Investigation Mt Celia HLP	Lot Number: TP11-S2
Location: Mount Celia	Internal Test Request: 5022/T/26-180
Supplied To: Trilab Pty Ltd	Client Reference/s: LGI002
Area Description: Mt Celia HLP	Report Date / Page: 17/02/2026 Page 1 of 1

Test Procedures: AS1289.3.6.1, AS1289.1.1	
Sample Number: 5022/S/26-1029	Test Pit No.: TP11
Client Reference: P25120043	Depth: m 2.00
Sampling Method: Tested As Received	Gravel
Sampled By: Client Sampled	Material Source: -
Date Sampled/Tested: 5/12/2025 / 9/02/2026	Material Type: -
Prep / Drying Method: n/a	Specification: -
Prep > 53mm (%): -	



Remarks: Results apply to the sample/s as received.

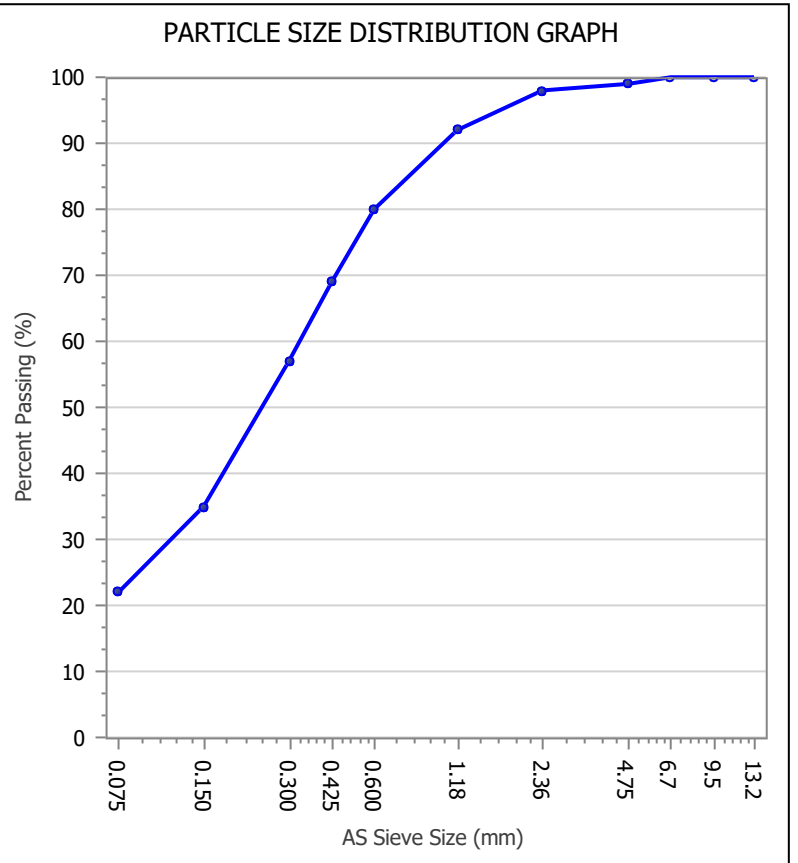
	Accredited for compliance with ISO/IEC 17025 – Testing	
Accreditation Number: 1986 Corporate Site Number: 5022		Approved Signatory: Kamil Wisniewski Form ID: W9Rep Rev 3

PARTICLE SIZE DISTRIBUTION REPORT


Client: Trilab Pty Ltd	Report Number: 5022/R/26-817-1
Client Address: 2 Kimmer Road, Queens Park	Project Number: 5022/P/26-12
Project: Tailex Pty Ltd - Preliminary Site Investigation Mt Celia HLP	Lot Number: TP12-S1
Location: Mount Celia	Internal Test Request: 5022/T/26-180
Supplied To: Trilab Pty Ltd	Client Reference/s: LGI002
Area Description: Mt Celia HLP	Report Date / Page: 11/02/2026 Page 1 of 1

Test Procedures: AS1289.3.6.1, AS1289.1.1	
Sample Number: 5022/S/26-1030	Test Pit No.: TP12
Client Reference: P25120044	Depth: m 0.30-1.00
Sampling Method: Tested As Received	Gravel
Sampled By: Client Sampled	Material Source: -
Date Sampled/Tested: 5/12/2025 / 4/02/2026	Material Type: -
Prep / Drying Method: n/a	Specification: -
Prep > 53mm (%): -	

Sieve (mm)	Specification Minimum (%)	Percent Passing (%)	Specification Maximum (%)
13.2		100	
9.5		100	
6.7		100	
4.75		99	
2.36		98	
1.18		92	
0.600		80	
0.425		69	
0.300		57	
0.150		35	
0.075		22	



Remarks: Results apply to the sample/s as received.



Accredited for compliance with ISO/IEC 17025 – Testing

Accreditation Number:	1986
Corporate Site Number:	5022

Kamil Wisniewski

Approved Signatory: Kamil Wisniewski
Form ID: W9Rep Rev 3

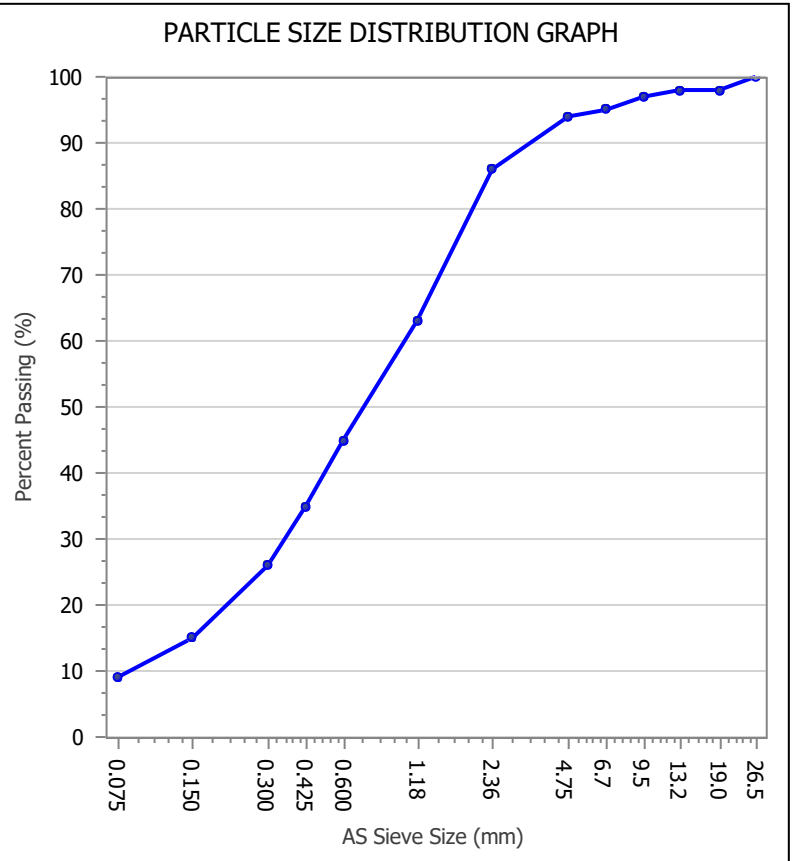
PARTICLE SIZE DISTRIBUTION REPORT

Client: Trilab Pty Ltd	Report Number: 5022/R/26-906-1
Client Address: 2 Kimmer Road, Queens Park	Project Number: 5022/P/26-12
Project: Taillex Pty Ltd - Preliminary Site Investigation Mt Celia HLP	Lot Number: TP12-S2
Location: Mount Celia	Internal Test Request: 5022/T/26-180
Supplied To: Trilab Pty Ltd	Client Reference/s: LGI002
Area Description: Mt Celia HLP	Report Date / Page: 16/02/2026 Page 1 of 1


Test Procedures: AS1289.3.6.1, AS1289.1.1, AS1726 (not covered by endorsement)	
Sample Number: 5022/S/26-1031	Sample Location
Client Reference: P25120045	Test Pit No. TP12
Sampling Method: Tested As Received	Depth: m 1.00-1.50
Sampled By: Client Sampled	Gravel
Date Sampled/Tested: 5/12/2025 / 9/02/2026	Material Type: -
Material Source: -	

Sieve (mm)	Specification Minimum (%)	Percent Passing (%)	Specification Maximum (%)
26.5		100	
19.0		98	
13.2		98	
9.5		97	
6.7		95	
4.75		94	
2.36		86	
1.18		63	
0.600		45	
0.425		35	
0.300		26	
0.150		15	
0.075		9	

Grading Result Analysis			
0.075/0.425 Ratio		0.26	
Coef of Uniformity		12.3	
Coef of Curvature		1.3	




Remarks: Results apply to the sample/s as received.



Accredited for compliance with ISO/IEC 17025 – Testing

Accreditation Number:	1986
Corporate Site Number:	5022



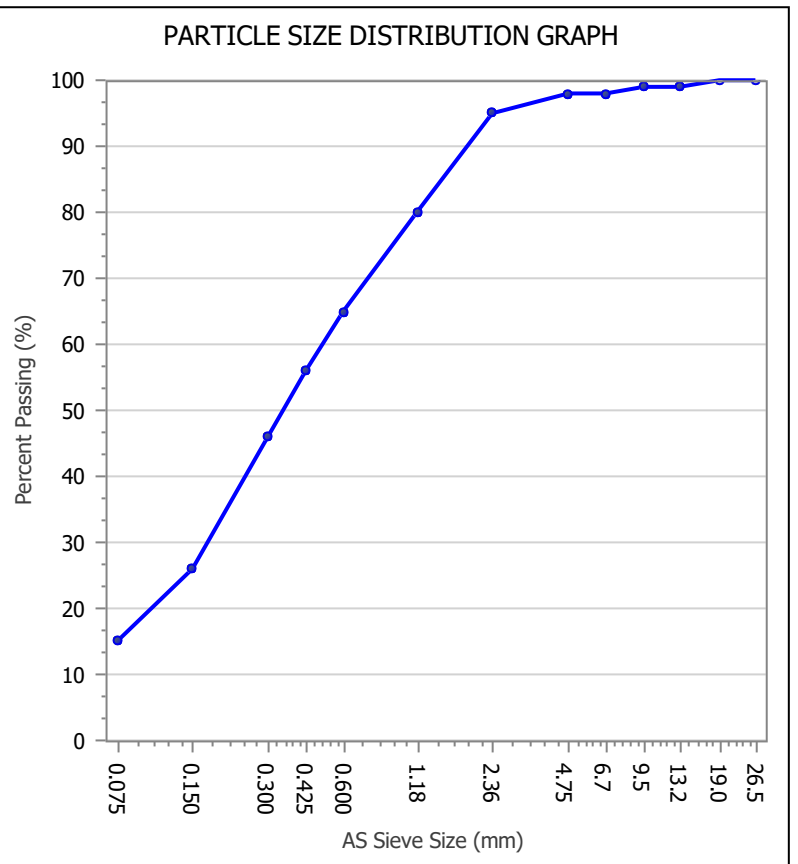
Approved Signatory: Kamil Wisniewski
Form ID: W9UCCCRep Rev 1

PARTICLE SIZE DISTRIBUTION REPORT

Client: Trilab Pty Ltd	Report Number: 5022/R/26-819-1
Client Address: 2 Kimmer Road, Queens Park	Project Number: 5022/P/26-12
Project: Tailex Pty Ltd - Preliminary Site Investigation Mt Celia HLP	Lot Number: TP13-S1
Location: Mount Celia	Internal Test Request: 5022/T/26-180
Supplied To: Trilab Pty Ltd	Client Reference/s: LGI002
Area Description: Mt Celia HLP	Report Date / Page: 11/02/2026 Page 1 of 1


Test Procedures: AS1289.3.6.1	
Sample Number: 5022/S/26-1032	Test Pit No.: TP13
Client Reference: P25120046	Depth: 2.00 m
Sampling Method: Tested As Received	Gravel
Sampled By: Client Sampled	Material Source: -
Date Sampled/Tested: 5/12/2025 / 4/02/2026	Material Type: -
Prep / Drying Method: n/a	Specification: -
Prep > 53mm (%): -	

Sieve (mm)	Specification Minimum (%)	Percent Passing (%)	Specification Maximum (%)
26.5		100	
19.0		100	
13.2		99	
9.5		99	
6.7		98	
4.75		98	
2.36		95	
1.18		80	
0.600		65	
0.425		56	
0.300		46	
0.150		26	
0.075		15	




Remarks: Results apply to the sample/s as received.

Accredited for compliance with ISO/IEC 17025 – Testing



Accreditation Number: 1986
Corporate Site Number: 5022



Approved Signatory: Kamil Wisniewski
Form ID: W9Rep Rev 3

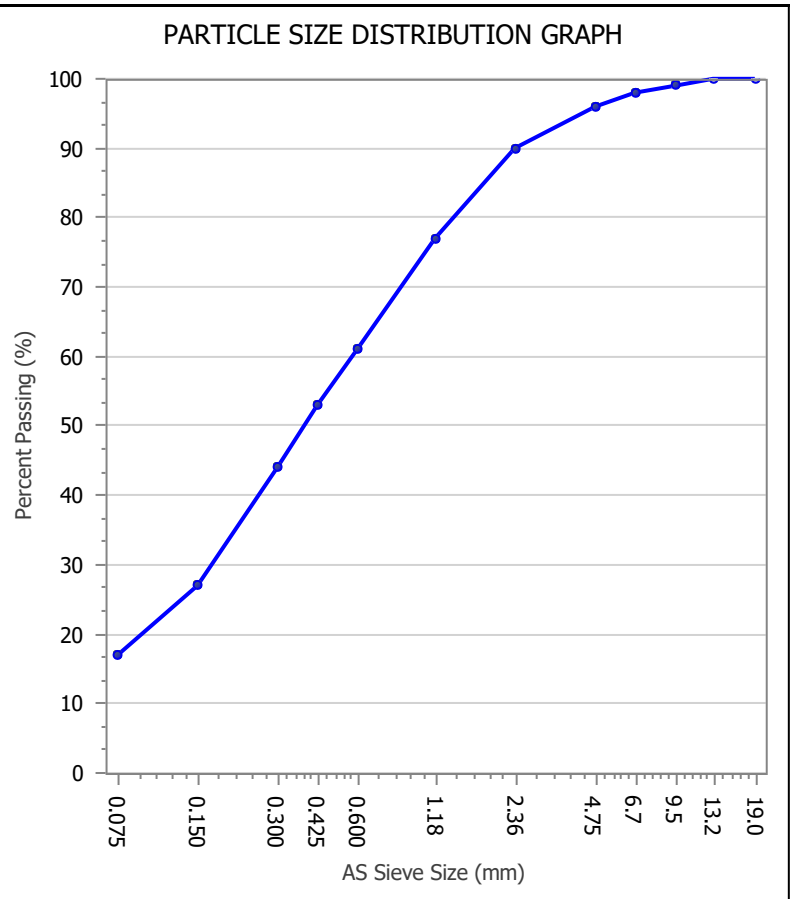
PARTICLE SIZE DISTRIBUTION REPORT

Client: Trilab Pty Ltd	Report Number: 5022/R/26-908-1
Client Address: 2 Kimmer Road, Queens Park	Project Number: 5022/P/26-12
Project: Tailex Pty Ltd - Preliminary Site Investigation Mt Celia HLP	Lot Number: TP14-S1
Location: Mount Celia	Internal Test Request: 5022/T/26-180
Supplied To: Trilab Pty Ltd	Client Reference/s: LGI002
Area Description: Mt Celia HLP	Report Date / Page: 16/02/2026 Page 1 of 1


Test Procedures: AS1289.3.6.1, AS1726 (Calculations based on this method are not covered by NATA endorsement)	
Sample Number: 5022/S/26-1033	Test Pit No.: TP14
Client Reference: P25120047	Depth: 1.50 m
Sampling Method: Tested As Received	Material: Gravel
Sampled By: Client Sampled	Material Source: -
Date Sampled/Tested: 5/12/2025 / 9/02/2026	

Sieve (mm)	Specification Minimum (%)	Percent Passing (%)	Specification Maximum (%)
19.0		100	
13.2		100	
9.5		99	
6.7		98	
4.75		96	
2.36		90	
1.18		77	
0.600		61	
0.425		53	
0.300		44	
0.150		27	
0.075		17	

Grading Result Analysis			
0.075/0.425 Ratio		0.31	
0.075/2.36 Ratio		0.18	
D10 (mm)		-	
D60 (mm)		0.58	
UC (D60/D10)		-	




Remarks: Results apply to the sample/s as received.



Accredited for compliance with ISO/IEC 17025 – Testing

Accreditation Number:	1986
Corporate Site Number:	5022



Approved Signatory: Kamil Wisniewski
Form ID: W9UCRep Rev 4

PARTICLE SIZE DISTRIBUTION TEST REPORT

Test Method: AS 1289 3.6.1, 2.1.1

Client	Tailex Pty Ltd	Report No.	P26020038-PSDD
		Workorder No.	20498/T/25-255
Address	16 Lynton Street Doubleview WA 6018	Report Date	24/02/2026

Project	Preliminary Site Investigation Mt Celia HLP
----------------	---------------------------------------------

Sample No.	P26020038
Test Date	20/02/2026
Client ID	TP17-S1
Location	TP17-Existing WD
Depth (m)	1.50
Moisture (%)	3.1
AS SIEVE SIZE (mm)	PERCENT PASSING
150	100
75	100
63	100
53	98
37.5	94
26.5	85
19	77
13.2	68
9.5	58
6.7	49
4.75	41
2.36	30
1.18	19
0.6	12
0.425	10
0.3	8
0.212	6
0.15	4
0.075	2

NOTES/REMARKS:

Sample/s supplied by the client

Accredited for compliance with ISO/IEC 17025 - Testing

Approved Signatory

*NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates

Ryan Groves



Tested at Gosnells Laboratory

Ryan Groves

Laboratory No.9926

The results of calibrations and tests performed apply only to the specific instrument or sample at the time of test unless otherwise clearly stated.
 Reference should be made to Trilab's "Standard Terms and Conditions of Business" for further details.

PARTICLE SIZE DISTRIBUTION TEST REPORT

Test Method: AS 1289 3.6.1, 2.1.1

Client Tailex Pty Ltd	Report No. P26020039-PSDD
	Workorder No. 20498/T/25-255
Address 16 Lynton Street Doubleview WA 6018	Report Date 24/02/2026

Project Preliminary Site Investigation Mt Celia HLP

Sample No.	P26020039
Test Date	20/02/2026
Client ID	WD-S1
Location	WD_PBM
Depth (m)	0.00-0.30
Moisture (%)	0.4
AS SIEVE SIZE (mm)	PERCENT PASSING
150	100
75	100
63	100
53	100
37.5	100
26.5	100
19	100
13.2	98
9.5	93
6.7	86
4.75	77
2.36	63
1.18	42
0.6	25
0.425	19
0.3	13
0.212	9
0.15	6
0.075	1

NOTES/REMARKS:

Sample/s supplied by the client

Accredited for compliance with ISO/IEC 17025 - Testing

Approved Signatory

*NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates

Ryan Groves



Tested at Gosnells Laboratory

Ryan Groves

Laboratory No.9926

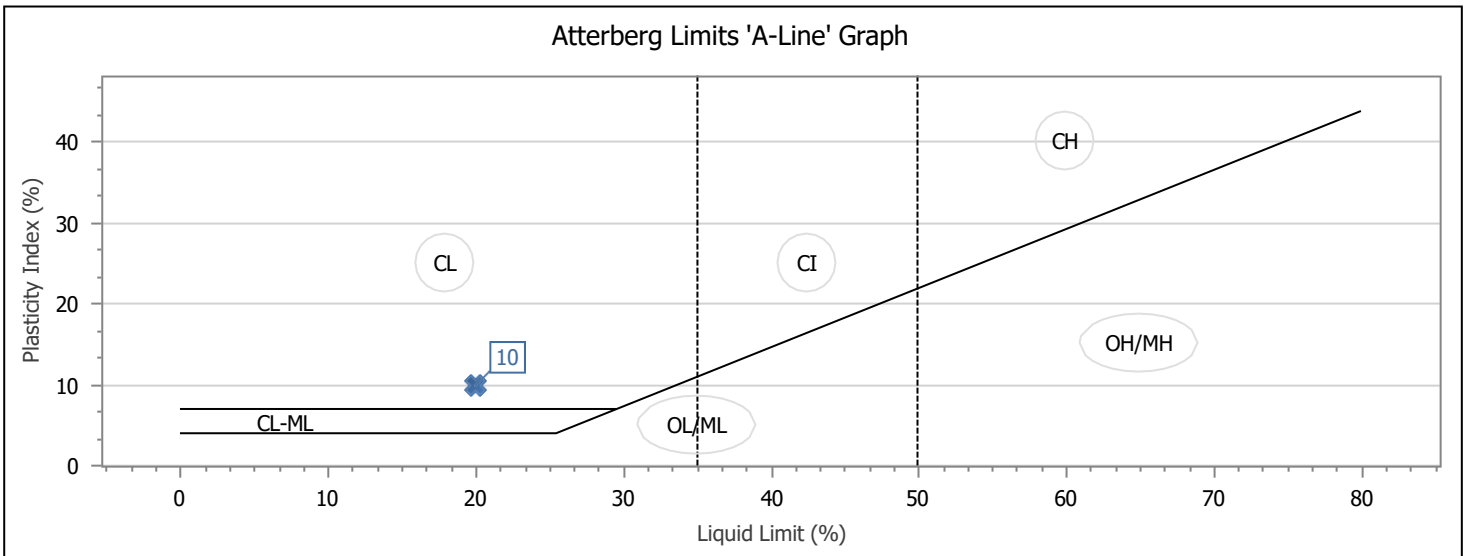
The results of calibrations and tests performed apply only to the specific instrument or sample at the time of test unless otherwise clearly stated.
 Reference should be made to Trilab's "Standard Terms and Conditions of Business" for further details.

ATTERBERG LIMITS REPORT



Client: Trilab Pty Ltd	Report Number: 5022/R/26-808-1
Client Address: 2 Kimmer Road, Queens Park	Project Number: 5022/P/26-12
Project: Tailex Pty Ltd - Preliminary Site Investigation Mt Celia HLP	Lot Number: TP5-S1
Location: Mount Celia	Internal Test Request: 5022/T/26-180
Supplied To: Trilab Pty Ltd	Client Reference/s: LGI002
Area Description: Mt Celia HLP	Report Date / Page: 11/02/2026 Page 1 of 1

Test Procedures: AS1289.3.1.1, AS1289.3.3.1, AS1289.3.2.1, AS1289.3.4.1, AS1289.2.1.1, AS1726 (Tables 9/10)	
Sample Number: 5022/S/26-1025	Sample Location
Sampling Method: Tested As Received	Test Pit No.: TP5
Date Sampled: 5/12/2025	Depth m: 0.00-0.85
Sampled By: Client Sampled	Gravel
Date Tested: 6/02/2026	Material Source: -
Drying / Prep Method: Oven Dried / Dry Sieved	Material Type: -
LL Water Type: Other	Specification: -
LL Device Type: Cassagrande	Prep Mat > 53mm (%): -
Client Reference: P25120039	
Material Description: CL Sandy Clay, low plasticity, trace of gravel	

Atterberg Limit	Specification Minimum	Test Result	Specification Maximum
Liquid Limit (%)		20	
Plastic Limit (%)		10	
Plasticity Index (%)		10	
Linear Shrinkage (%)		3.0	
Linear Shrinkage Mould Length / Defects:	Mould Length: 251.0mm / -		



Remarks: Results apply to the sample/s as received.

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Accreditation Number: 1986 Corporate Site Number: 5022		Approved Signatory: Kamil Wisniewski Form ID: W11Rep Rev 2



ATTERBERG LIMITS REPORT

Client: Trilab Pty Ltd	Report Number: 5022/R/26-810-1
Client Address: 2 Kimmer Road, Queens Park	Project Number: 5022/P/26-12
Project: Tailer Pty Ltd - Preliminary Site Investigation Mt Celia HLP	Lot Number: TP10-S1
Location: Mount Celia	Internal Test Request: 5022/T/26-180
Supplied To: Trilab Pty Ltd	Client Reference/s: LGI002
Area Description: Mt Celia HLP	Report Date / Page: 11/02/2026 Page 1 of 1

Test Procedures: AS1289.3.1.1, AS1289.3.3.1, AS1289.3.2.1, AS1289.3.4.1, AS1726 (Tables 9/10)	
Sample Number: 5022/S/26-1026	Sample Location
Sampling Method: Tested As Received	Test Pit No. TP10
Date Sampled: 5/12/2025	Depth m: 1.50
Sampled By: Client Sampled	Gravel
Date Tested: 6/02/2026	Material Source: -
Drying / Prep Method: Oven Dried / Dry Sieved	Material Type: -
LL Water Type: Other	Specification: -
LL Device Type: Cassagrande	Prep Mat > 53mm (%): -
Client Reference: P25120040	
Material Description: Brown Silty Sand, trace of gravel	

Atterberg Limit	Specification Minimum	Test Result	Specification Maximum
Liquid Limit (%)		Can't be determined	
Plastic Limit (%)		Can't be determined	
Plasticity Index (%)		Non Plastic	
Linear Shrinkage (%)		0.0	
Linear Shrinkage Observations:	-		

Remarks	Results apply to the sample/s as received.
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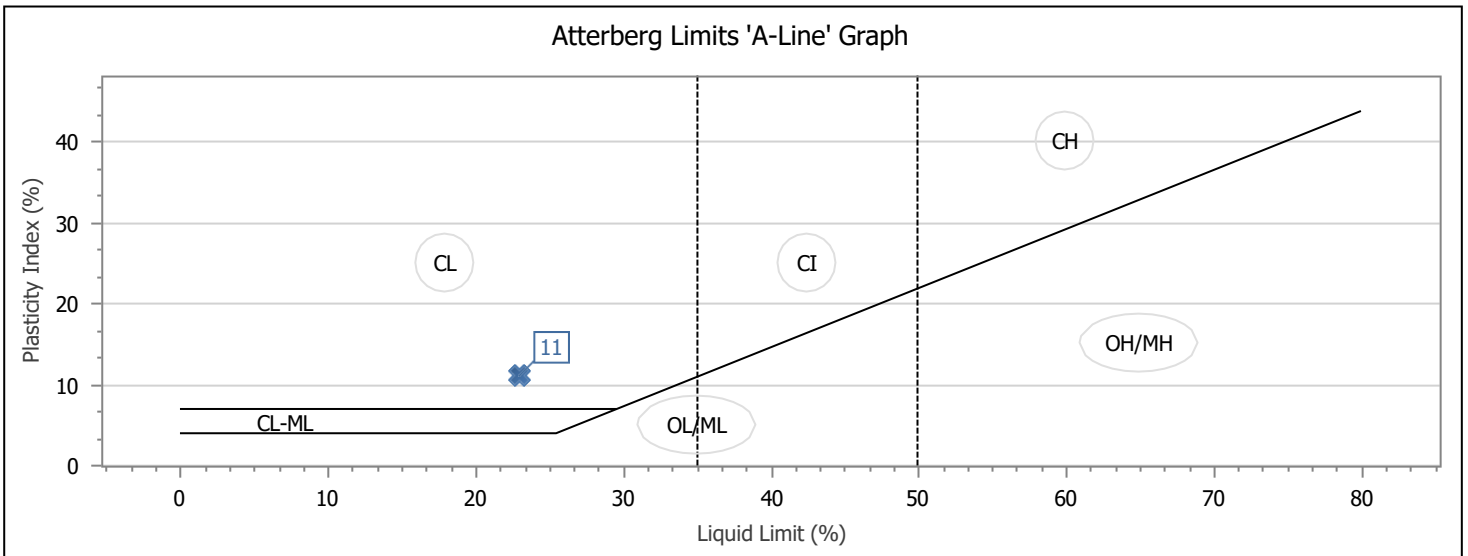
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ATTERBERG LIMITS REPORT



Client: Trilab Pty Ltd	Report Number: 5022/R/26-813-1
Client Address: 2 Kimmer Road, Queens Park	Project Number: 5022/P/26-12
Project: Tailex Pty Ltd - Preliminary Site Investigation Mt Celia HLP	Lot Number: TP10-S2
Location: Mount Celia	Internal Test Request: 5022/T/26-180
Supplied To: Trilab Pty Ltd	Client Reference/s: LGI002
Area Description: Mt Celia HLP	Report Date / Page: 11/02/2026 Page 1 of 1

Test Procedures: AS1289.3.1.1, AS1289.3.3.1, AS1289.3.2.1, AS1289.3.4.1, AS1289.2.1.1, AS1726 (Tables 9/10)	
Sample Number: 5022/S/26-1027	Sample Location
Sampling Method: Tested As Received	Test Pit No.: TP10
Date Sampled: 5/12/2025	Depth m: 3.00
Sampled By: Client Sampled	Gravel
Date Tested: 6/02/2026	Material Source: -
Drying / Prep Method: Oven Dried / Dry Sieved	Material Type: -
LL Water Type: Other	Specification: -
LL Device Type: Cassagrande	Prep Mat > 53mm (%): -
Client Reference: P25120041	
Material Description: SC Clayey Sand, low plasticity, trace of gravel	

Atterberg Limit	Specification Minimum	Test Result	Specification Maximum
Liquid Limit (%)		23	
Plastic Limit (%)		12	
Plasticity Index (%)		11	
Linear Shrinkage (%)		3.0	
Linear Shrinkage Observations:	-		



Remarks: Results apply to the sample/s as received.

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ATTERBERG LIMITS REPORT

Client: Trilab Pty Ltd	Report Number: 5022/R/26-816-1
Client Address: 2 Kimmer Road, Queens Park	Project Number: 5022/P/26-12
Project: Tailex Pty Ltd - Preliminary Site Investigation Mt Celia HLP	Lot Number: TP11-S1
Location: Mount Celia	Internal Test Request: 5022/T/26-180
Supplied To: Trilab Pty Ltd	Client Reference/s: LGI002
Area Description: Mt Celia HLP	Report Date / Page: 11/02/2026 Page 1 of 1

Test Procedures: AS1289.3.1.1, AS1289.3.3.1, AS1289.3.2.1, AS1289.3.4.1, AS1726 (Tables 9/10)	
Sample Number: 5022/S/26-1028	Sample Location
Sampling Method: Tested As Received	Test Pit No. TP11
Date Sampled: 5/12/2025	Depth m: 1.00
Sampled By: Client Sampled	Gravel
Date Tested: 6/02/2026	Material Source: -
Drying / Prep Method: Oven Dried / Dry Sieved	Material Type: -
LL Water Type: Other	Specification: -
LL Device Type: Cassagrande	Prep Mat > 53mm (%): -
Client Reference: P25120042	
Material Description: Brown SAND, with silt, trace of gravel	

Atterberg Limit	Specification Minimum	Test Result	Specification Maximum
Liquid Limit (%)		Can't be determined	
Plastic Limit (%)		Can't be determined	
Plasticity Index (%)		Non Plastic	
Linear Shrinkage (%)		0.0	
Linear Shrinkage Observations:	-		

Remarks	Results apply to the sample/s as received.
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ATTERBERG LIMITS REPORT

Client: Trilab Pty Ltd	Report Number: 5022/R/26-867-1
Client Address: 2 Kimmer Road, Queens Park	Project Number: 5022/P/26-12
Project: Tailex Pty Ltd - Preliminary Site Investigation Mt Celia HLP	Lot Number: TP11-S2
Location: Mount Celia	Internal Test Request: 5022/T/26-180
Supplied To: Trilab Pty Ltd	Client Reference/s: LGI002
Area Description: Mt Celia HLP	Report Date / Page: 12/02/2026 Page 1 of 1

Test Procedures: AS1289.3.1.1, AS1289.3.3.1, AS1289.3.2.1, AS1289.3.4.1	
Sample Number: 5022/S/26-1029	Sample Location
Sampling Method: Tested As Received	Test Pit No. TP11
Date Sampled: 5/12/2025	Depth m: 2.00
Sampled By: Client Sampled	Gravel
Date Tested: 10/02/2026	Material Source: -
Drying / Prep Method: Oven Dried / Dry Sieved	Material Type: -
LL Water Type: Other	Specification: -
LL Device Type: Cassagrande	Prep Mat > 53mm (%): -
Client Reference: P25120043	
Material Description: Brown GRAVEL	

Atterberg Limit	Specification Minimum	Test Result	Specification Maximum
Liquid Limit (%)		Can't be determined	
Plastic Limit (%)		Can't be determined	
Plasticity Index (%)		Non Plastic	
Linear Shrinkage (%)		0.0	
Linear Shrinkage Observations:	-		

Remarks	Results apply to the sample/s as received.
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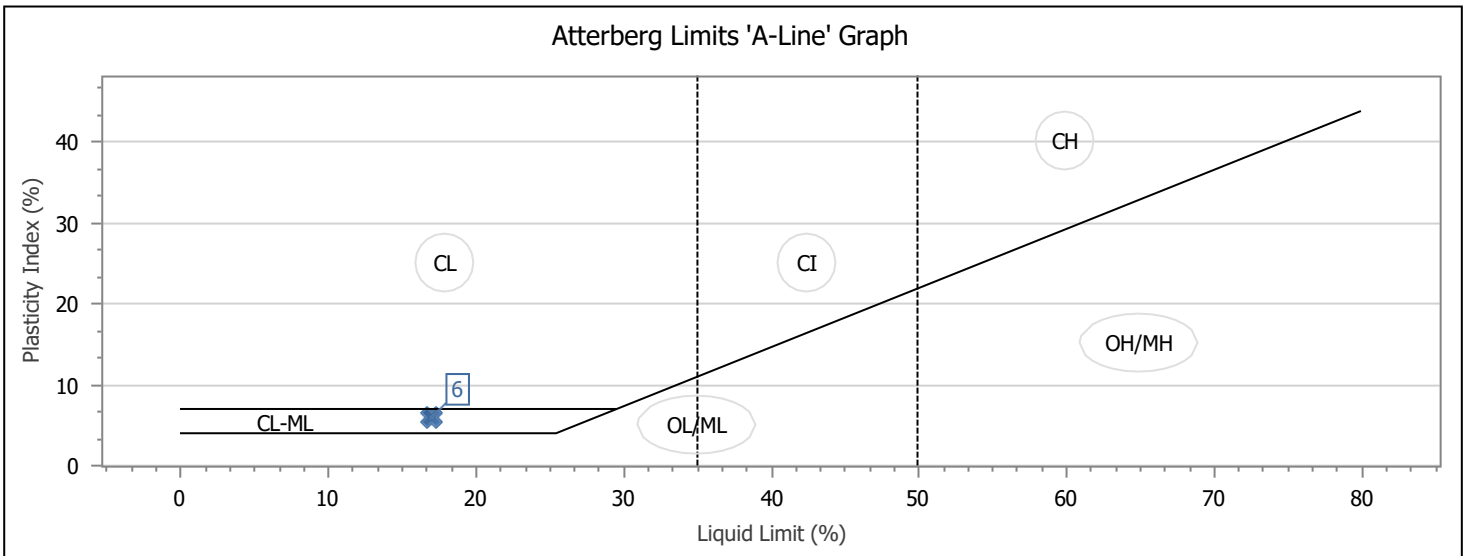
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ATTERBERG LIMITS REPORT



Client: Trilab Pty Ltd	Report Number: 5022/R/26-818-1
Client Address: 2 Kimmer Road, Queens Park	Project Number: 5022/P/26-12
Project: Tailex Pty Ltd - Preliminary Site Investigation Mt Celia HLP	Lot Number: TP12-S1
Location: Mount Celia	Internal Test Request: 5022/T/26-180
Supplied To: Trilab Pty Ltd	Client Reference/s: LGI002
Area Description: Mt Celia HLP	Report Date / Page: 11/02/2026 Page 1 of 1

Test Procedures: AS1289.3.1.1, AS1289.3.3.1, AS1289.3.2.1, AS1289.3.4.1, AS1289.2.1.1, AS1726 (Tables 9/10)	
Sample Number: 5022/S/26-1030	Sample Location
Sampling Method: Tested As Received	Test Pit No.: TP12
Date Sampled: 5/12/2025	Depth m: 0.30-1.00
Sampled By: Client Sampled	Gravel
Date Tested: 9/02/2026	Material Source: -
Drying / Prep Method: Oven Dried / Dry Sieved	Material Type: -
LL Water Type: Other	Specification: -
LL Device Type: Cassagrande	Prep Mat > 53mm (%): -
Client Reference: P25120044	
Material Description: SC Clayey Sand, low plasticity, trace of gravel	

Atterberg Limit	Specification Minimum	Test Result	Specification Maximum
Liquid Limit (%)		17	
Plastic Limit (%)		11	
Plasticity Index (%)		6	
Linear Shrinkage (%)		1.5	
Linear Shrinkage Observations:	-		



Remarks: Results apply to the sample/s as received.

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ATTERBERG LIMITS REPORT

Client: Trilab Pty Ltd	Report Number: 5022/R/26-907-1
Client Address: 2 Kimmer Road, Queens Park	Project Number: 5022/P/26-12
Project: Tailex Pty Ltd - Preliminary Site Investigation Mt Celia HLP	Lot Number: TP12-S2
Location: Mount Celia	Internal Test Request: 5022/T/26-180
Supplied To: Trilab Pty Ltd	Client Reference/s: LGI002
Area Description: Mt Celia HLP	Report Date / Page: 16/02/2026 Page 1 of 1



Test Procedures: AS1289.3.1.1, AS1289.3.3.1, AS1289.3.2.1, AS1289.3.4.1, AS1726 (Tables 9/10)

Sample Number: 5022/S/26-1031	Sample Location
Sampling Method: Tested As Received	Test Pit No. TP12
Date Sampled: 5/12/2025	Depth m: 1.00-1.50
Sampled By: Client Sampled	Gravel
Date Tested: 10/02/2026	Material Source: -
Drying / Prep Method: Oven Dried / Dry Sieved	Material Type: -
LL Water Type: Other	Specification: -
LL Device Type: Cassagrande	Prep Mat > 53mm (%): -
Client Reference: P25120045	

Material Description: Brown SAND with silt and gravel

Atterberg Limit	Specification Minimum	Test Result	Specification Maximum
Liquid Limit (%)		Can't be determined	
Plastic Limit (%)		Can't be determined	
Plasticity Index (%)		Non Plastic	
Linear Shrinkage (%)		0.0	
Linear Shrinkage Observations:	-		

Remarks: Results apply to the sample/s as received.

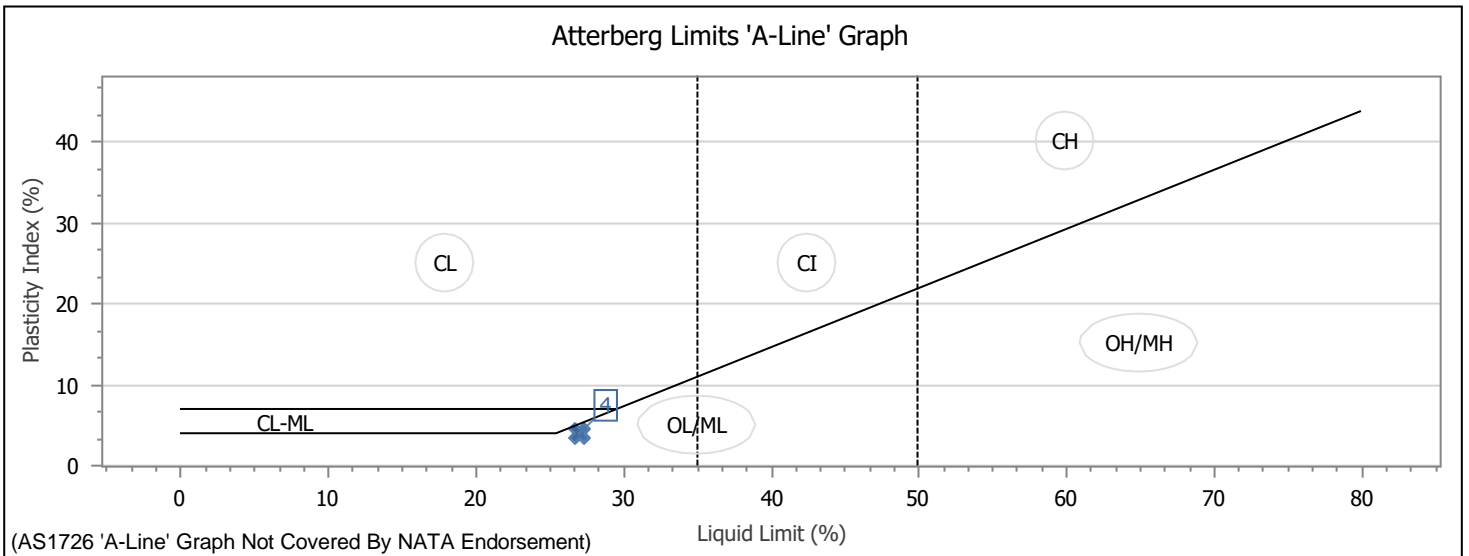
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ATTERBERG LIMITS REPORT



Client: Trilab Pty Ltd	Report Number: 5022/R/26-866-1
Client Address: 2 Kimmer Road, Queens Park	Project Number: 5022/P/26-12
Project: Tailex Pty Ltd - Preliminary Site Investigation Mt Celia HLP	Lot Number: TP17_S1
Location: Mount Celia	Internal Test Request: 5022/T/26-180
Supplied To: Trilab Pty Ltd	Client Reference/s: LGI002
Area Description: Mt Celia HLP	Report Date / Page: 12/02/2026 Page 1 of 1

Test Procedures: AS1289.3.1.1, AS1289.3.3.1, AS1289.3.2.1, AS1289.3.4.1, AS1289.2.1.1			
Sample Number	5022/S/26-1034	Sample Location	
Sampling Method	Tested As Received	Test Pit No.	TP17-Existing WD
Date Sampled	5/12/2025	Depth m	1.50
Sampled By	Client Sampled		Gravel
Date Tested	11/02/2026	Material Source	-
Drying / Prep Method	Oven Dried / Dry Sieved	Material Type	-
LL Water Type	Other	Specification	-
LL Device Type	Cassagrande	Prep Mat > 53mm (%)	-
Client Reference	P26020038		
Material Description: Pale Brown Chockey Clayey GRAVEL			

Atterberg Limit	Specification Minimum	Test Result	Specification Maximum
Liquid Limit (%)		27	
Plastic Limit (%)		23	
Plasticity Index (%)		4	
Linear Shrinkage (%)		1.5	
Linear Shrinkage Observations:	-		



Remarks: Results apply to the sample/s as received.

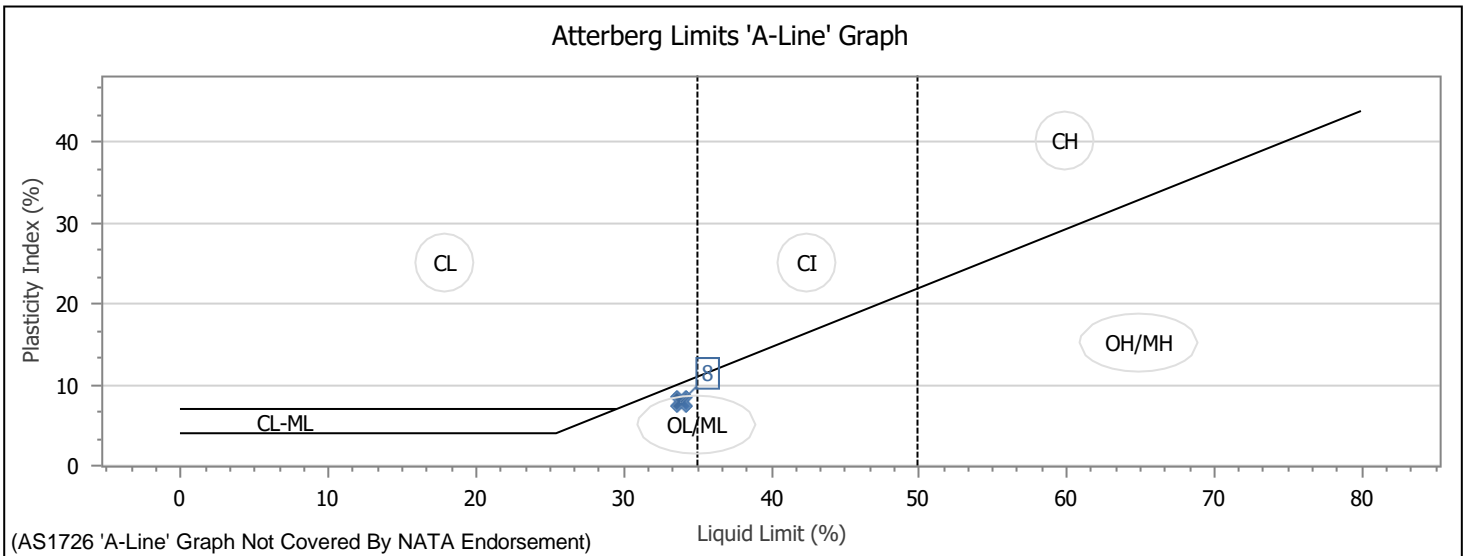
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ATTERBERG LIMITS REPORT



Client: Trilab Pty Ltd	Report Number: 5022/R/26-865-1
Client Address: 2 Kimmer Road, Queens Park	Project Number: 5022/P/26-12
Project: Tailex Pty Ltd - Preliminary Site Investigation Mt Celia HLP	Lot Number: WD_S1
Location: Mount Celia	Internal Test Request: 5022/T/26-180
Supplied To: Trilab Pty Ltd	Client Reference/s: LGI002
Area Description: Mt Celia HLP	Report Date / Page: 12/02/2026 Page 1 of 1

Test Procedures: AS1289.3.1.1, AS1289.3.3.1, AS1289.3.2.1, AS1289.3.4.1, AS1289.2.1.1	
Sample Number: 5022/S/26-1035	Sample Location
Sampling Method: Tested As Received	Test Pit No.: WD_PBM
Date Sampled: 5/12/2025	Depth m: 0.00-0.30
Sampled By: Client Sampled	Gravel
Date Tested: 11/02/2026	Material Source: -
Drying / Prep Method: Oven Dried / Dry Sieved	Material Type: -
LL Water Type: Other	Specification: -
LL Device Type: Cassagrande	Prep Mat > 53mm (%): -
Client Reference: P26020039	
Material Description: GRAVELL	

Atterberg Limit	Specification Minimum	Test Result	Specification Maximum
Liquid Limit (%)		34	
Plastic Limit (%)		26	
Plasticity Index (%)		8	
Linear Shrinkage (%)		2.5	
Linear Shrinkage Mould Length / Defects:	Mould Length: 248.0mm / -		



Remarks: Results apply to the sample/s as received.

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SOIL PARTICLE DENSITY TEST REPORT

Test Method: AS 1289 3.5.1

Client	Tailex Pty Ltd	Report No.	P25120038-SPD
Address	1 Manning Street, Scarborough, WA 6019	Workorder No.	20498/T/25-255
		Report Date	17/02/2026

Project LGI002 - Preliminary Site Investigation Mt Celia HLP

Sample No.	P25120038
Test Date	12/02/2026
Client ID	TP4 -S1
Location	TP4
Depth (m)	0.00-0.40
Description	Soil Sample
Soil Particle Density (g/cm³)	2.44

NOTES/REMARKS:

Sample/s supplied by the client

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Tested at Trilab Perth Laboratory

Ryan Groves



Laboratory No. 9926

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Trilab Pty Ltd ABN 25 065 630 506

ACCURATE. QUALITY. RESULTS FOR TOMORROW'S ENGINEERING

SOIL PARTICLE DENSITY TEST REPORT

Test Method: AS 1289 3.5.1

Client	Tailex Pty Ltd	Report No.	P25120039-SPD
Address	1 Manning Street, Scarborough, WA 6019	Workorder No.	20498/T/25-255
		Report Date	17/02/2026

Project LGI002 - Preliminary Site Investigation Mt Celia HLP

Sample No.	P25120039
Test Date	12/02/2026
Client ID	TP5 - S1
Location	TP5
Depth (m)	0.00-0.85
Description	Soil Sample
Soil Particle Density (g/cm³)	2.33

NOTES/REMARKS:

Sample/s supplied by the client


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ACCURATE. QUALITY. RESULTS FOR TOMORROW'S ENGINEERING

SOIL PARTICLE DENSITY TEST REPORT

Test Method: AS 1289 3.5.1

Client	Tailex Pty Ltd	Report No.	P25120040-SPD
Address	1 Manning Street, Scarborough, WA 6019	Workorder No.	20498/T/25-255
		Report Date	17/02/2026

Project LGI002 - Preliminary Site Investigation Mt Celia HLP

Sample No.	P25120040
Test Date	12/02/2026
Client ID	TP10 - S1
Location	TP10
Depth (m)	1.5
Description	Soil Sample
Soil Particle Density (g/cm³)	2.37

NOTES/REMARKS:

Sample/s supplied by the client

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SOIL PARTICLE DENSITY TEST REPORT

Test Method: AS 1289 3.5.1

Client	Tailex Pty Ltd	Report No.	P25120041-SPD
Address	1 Manning Street, Scarborough, WA 6019	Workorder No.	20498/T/25-255
		Report Date	17/02/2026

Project LGI002 - Preliminary Site Investigation Mt Celia HLP

Sample No.	P25120041
Test Date	12/02/2026
Client ID	TP10 - S2
Location	TP10
Depth (m)	3.00
Description	Soil Sample
Soil Particle Density (g/cm³)	2.39


NOTES/REMARKS:

Sample/s supplied by the client

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ACCURATE. QUALITY. RESULTS FOR TOMORROW'S ENGINEERING

SOIL PARTICLE DENSITY TEST REPORT

Test Method: AS 1289 3.5.1

Client	Tailex Pty Ltd	Report No.	P25120042-SPD
Address	1 Manning Street, Scarborough, WA 6019	Workorder No.	20498/T/25-255
		Report Date	17/02/2026

Project LGI002 - Preliminary Site Investigation Mt Celia HLP

Sample No.	P25120042
Test Date	12/02/2026
Client ID	TP11 - S1
Location	TP11
Depth (m)	1.00
Description	Soil Sample
Soil Particle Density (g/cm³)	2.43

NOTES/REMARKS:

Sample/s supplied by the client

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SOIL PARTICLE DENSITY TEST REPORT

Test Method: AS 1289 3.5.1

Client	Tailex Pty Ltd	Report No.	P25120043-SPD
Address	1 Manning Street, Scarborough, WA 6019	Workorder No.	20498/T/25-255
		Report Date	17/02/2026

Project LGI002 - Preliminary Site Investigation Mt Celia HLP

Sample No.	P25120043
Test Date	12/02/2026
Client ID	TP11 - S2
Location	TP11
Depth (m)	1.00
Description	Soil Sample
Soil Particle Density (g/cm³)	2.33

NOTES/REMARKS:

Sample/s supplied by the client

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SOIL PARTICLE DENSITY TEST REPORT

Test Method: AS 1289 3.5.1

Client	Tailex Pty Ltd	Report No.	P25120044-SPD
Address	1 Manning Street, Scarborough, WA 6019	Workorder No.	20498/T/25-255
Project	LGI002 - Preliminary Site Investigation Mt Celia HLP		

Sample No.	P25120044
Test Date	12/02/2026
Client ID	TP12 - S1
Location	TP12
Depth (m)	0.30-1.00
Description	Soil Sample
Soil Particle Density (g/cm³)	2.44

NOTES/REMARKS:

Sample/s supplied by the client

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SOIL PARTICLE DENSITY TEST REPORT

Test Method: AS 1289 3.5.1

Client	Tailex Pty Ltd	Report No.	P25120045-SPD
Address	1 Manning Street, Scarborough, WA 6019	Workorder No.	20498/T/25-255
		Report Date	17/02/2026

Project LGI002 - Preliminary Site Investigation Mt Celia HLP

Sample No.	P25120045
Test Date	12/02/2026
Client ID	TP12 - S2
Location	TP12
Depth (m)	1.00-1.50
Description	Soil Sample
Soil Particle Density (g/cm³)	2.39

NOTES/REMARKS:

Sample/s supplied by the client

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SOIL PARTICLE DENSITY TEST REPORT

Test Method: AS 1289 3.5.1

Client	Tailex Pty Ltd	Report No.	P25120046-SPD
Address	1 Manning Street, Scarborough, WA 6019	Workorder No.	20498/T/25-255
		Report Date	17/02/2026

Project LGI002 - Preliminary Site Investigation Mt Celia HLP

Sample No.	P25120046
Test Date	12/02/2026
Client ID	TP13 - S1
Location	TP13
Depth (m)	2.00
Description	Soil Sample
Soil Particle Density (g/cm³)	2.64

NOTES/REMARKS:

Sample/s supplied by the client

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Trilab Pty Ltd ABN 25 065 630 506

ACCURATE. QUALITY RESULTS FOR TOMORROW'S ENGINEERING

SOIL PARTICLE DENSITY TEST REPORT

Test Method: AS 1289 3.5.1

Client	Tailex Pty Ltd	Report No.	P25120047-SPD
Address	1 Manning Street, Scarborough, WA 6019	Workorder No.	20498/T/25-255
		Report Date	17/02/2026

Project LGI002 - Preliminary Site Investigation Mt Celia HLP

Sample No.	P25120047
Test Date	12/02/2026
Client ID	TP14 - S1
Location	TP14
Depth (m)	1.50
Description	Soil Sample
Soil Particle Density (g/cm³)	2.60

NOTES/REMARKS:

Sample/s supplied by the client

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Tested at Trilab Perth Laboratory

Ryan Groves



Laboratory No. 9926

The results of calibrations and tests performed apply only to the specific instrument or sample at the time of test unless otherwise clearly stated.
Reference should be made to Trilab's "Standard Terms and Conditions of Business" for further details.

Trilab Pty Ltd ABN 25 065 630 506

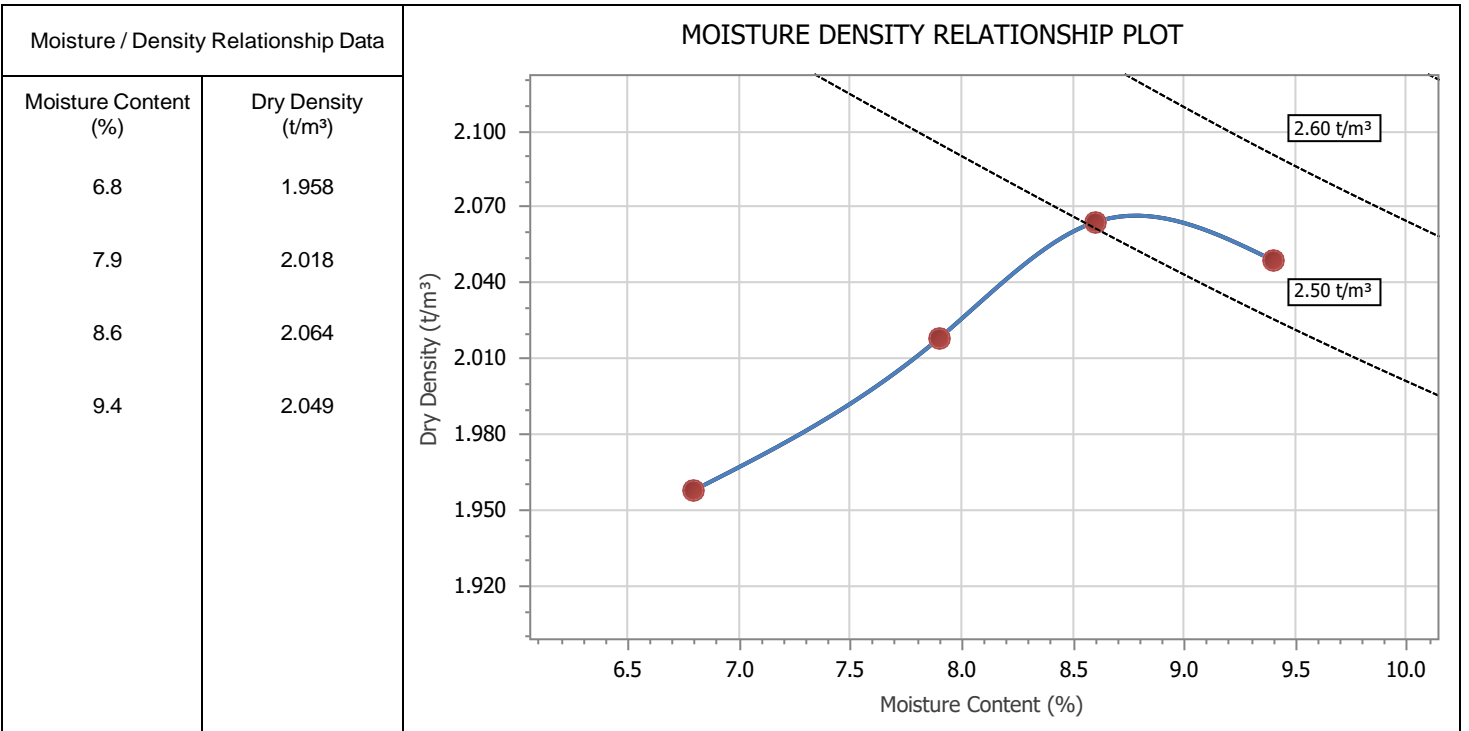
ACCURATE. QUALITY RESULTS FOR TOMORROW'S ENGINEERING

MOISTURE DENSITY RELATIONSHIP REPORT

Client: Trilab Pty Ltd	Report Number: 5022/R/26-814-1
Client Address: 2 Kimmer Road, Queens Park	Project Number: 5022/P/26-12
Project: Tailer Pty Ltd - Preliminary Site Investigation Mt Celia HLP	Lot Number: TP10-S2
Location: Mount Celia	Internal Test Request: 5022/T/26-180
Supplied To: Trilab Pty Ltd	Client Reference/s: LGI002
Area Description: Mt Celia HLP	Report Date / Page: 11/02/2026 Page 1 of 1



Test Procedures: AS1289.5.1.1, AS1289.2.1.1, AS1289.1.1 Sample Number: 5022/S/26-1027 Client Reference: P25120041 Sampling Method: Tested As Received Sampled By: Client Sampled Date Sampled/Tested: 5/12/2025 / 4/02/2026 Material Source: Material Type: Liquid Limit Method: Estimation	Test Pit No.: TP10 Depth: 3.00 m Gravel Prep Material > 53mm (%): - Compactive Effort: Standard Fraction Tested (mm): < 19.0mm Percent Oversize (%): 10 Total Curing Time (hrs): 2.0
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Material Description: SC Clayey Sand, low plasticity, trace of gravel



Maximum Dry Density (t/m ³): 2.07	Optimum Moisture Content (%): 9.0
------------------------------------------------------	------------------------------------------

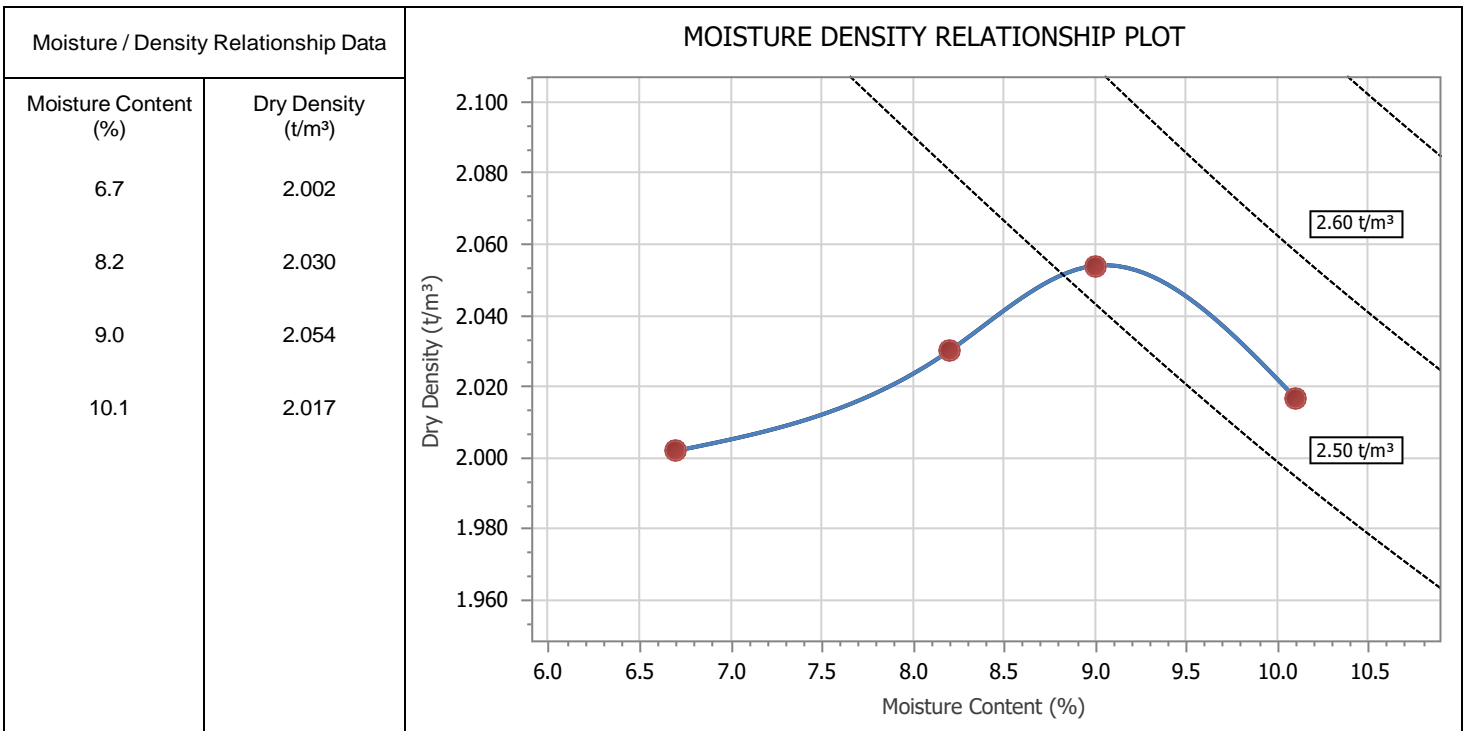
Remarks: Results apply to the sample/s as received.

Accredited for compliance with ISO/IEC 17025 – Testing	
	Approved Signatory: Kamil Wisniewski Form ID: W4Rep Rev 4
Accreditation Number: 1986 Corporate Site Number: 5022	

MOISTURE DENSITY RELATIONSHIP REPORT



Client: Trilab Pty Ltd	Report Number: 5022/R/26-864-1
Client Address: 2 Kimmer Road, Queens Park	Project Number: 5022/P/26-12
Project: Tailex Pty Ltd - Preliminary Site Investigation Mt Celia HLP	Lot Number: WD_S1
Location: Mount Celia	Internal Test Request: 5022/T/26-180
Supplied To: Trilab Pty Ltd	Client Reference/s: LGI002
Area Description: Mt Celia HLP	Report Date / Page: 12/02/2026 Page 1 of 1

Test Procedures AS1289.5.1.1, AS1289.2.1.1, AS1289.1.1 Sample Number 5022/S/26-1035 Client Reference P26020039 Sampling Method Tested As Received Sampled By Client Sampled Date Sampled/Tested 5/12/2025 / 4/02/2026 Material Source Material Type Liquid Limit Method Estimation	Test Pit No. WD_PBM Depth m 0.00-0.30 Gravel Prep Material > 53mm (%) - Compactive Effort Standard Fraction Tested (mm) < 19.0mm Percent Oversize (%) 14 Total Curing Time (hrs) 2.0
Material Description GRAVELL	



Maximum Dry Density (t/m ³): 2.05	Optimum Moisture Content (%): 9.0
------------------------------------------------------	------------------------------------------

Remarks: Results apply to the sample/s as received.

	Accredited for compliance with ISO/IEC 17025 – Testing	
Accreditation Number: 1986 Corporate Site Number: 5022		Approved Signatory: Hermanus Coetzee Form ID: W4Rep Rev 4

PERMEABILITY BY FALLING HEAD TEST REPORT

Test Method AS 1289 6.7.2, 5.1.1

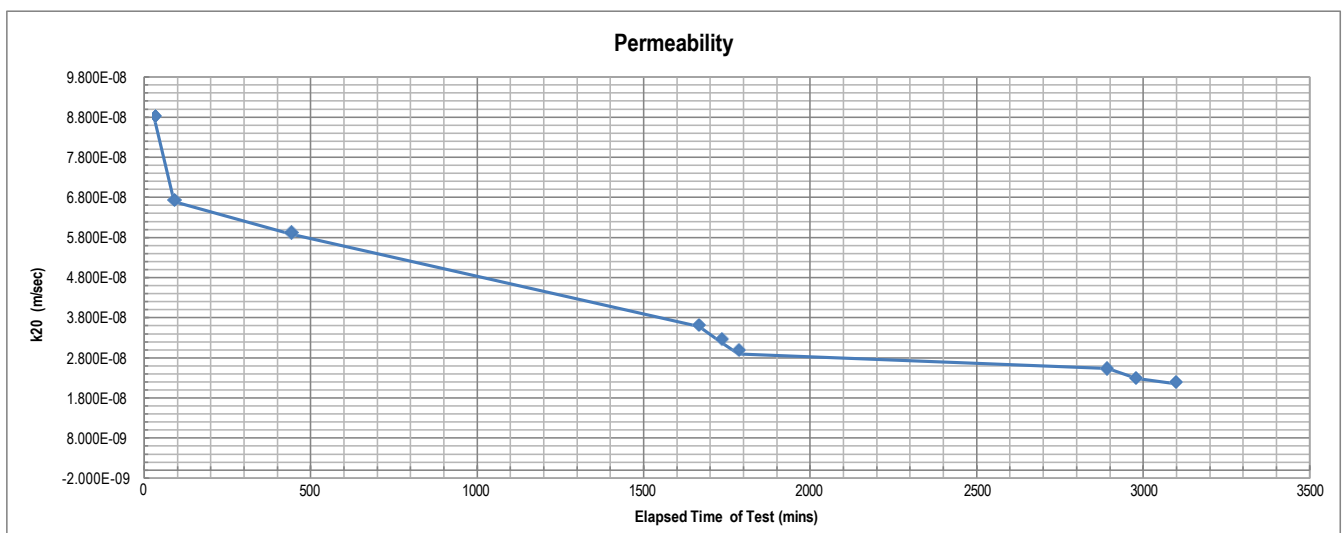
Client Tailex Pty Ltd	Report No. P25120041-FPER
Address 16 Lynton Street Doubleview WA 6018	Workorder No. 20498/T/25-255
Project Preliminary Site Investigation Mt Celia HLP	Test Date 15/02/2026
Client ID TP10-S2	Report Date 19/02/2026
Description Gravel	Depth (m) 3.00
	Sample Type Remoulded Soil Specimen

RESULTS OF TESTING

Compaction Method	AS1289.5.1.1 - Standard Compaction		
Maximum Dry Density (t/m ³)	2.07	Hydraulic Gradient	10.1
Optimum Moisture Content (%)	9.0	Surcharge (kPa)	2.9
Placement Moisture Content (%)	9.2	Head Pressure Applied (kPa)	11.38
Moisture Ratio (%)	102.7	Water Type	Deaerated
Placement Wet Density (t/m ³)	2.14	Percentage Material Retained/Sieve Size (mm)	0 % / 9.5 mm
Density Ratio (%)	94.8	Sample Height and Diameter (mm)	114.96 / 101.18 mm

(20)

(m/sec)



Remarks: The above specimen was remoulded to a target of 95% of Maximum Dry Density and at Optimum Moisture Content.

Sample/s supplied by client The compaction data was supplied by the client. Tested as received Page: 1 of 1 REP06301

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*NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates

Anthony Harrap



Tested at Trilab Brisbane Laboratory

Anthony Harrap

Laboratory No. 9926

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PERMEABILITY BY FALLING HEAD TEST REPORT

Test Method AS 1289 6.7.2, 5.1.1

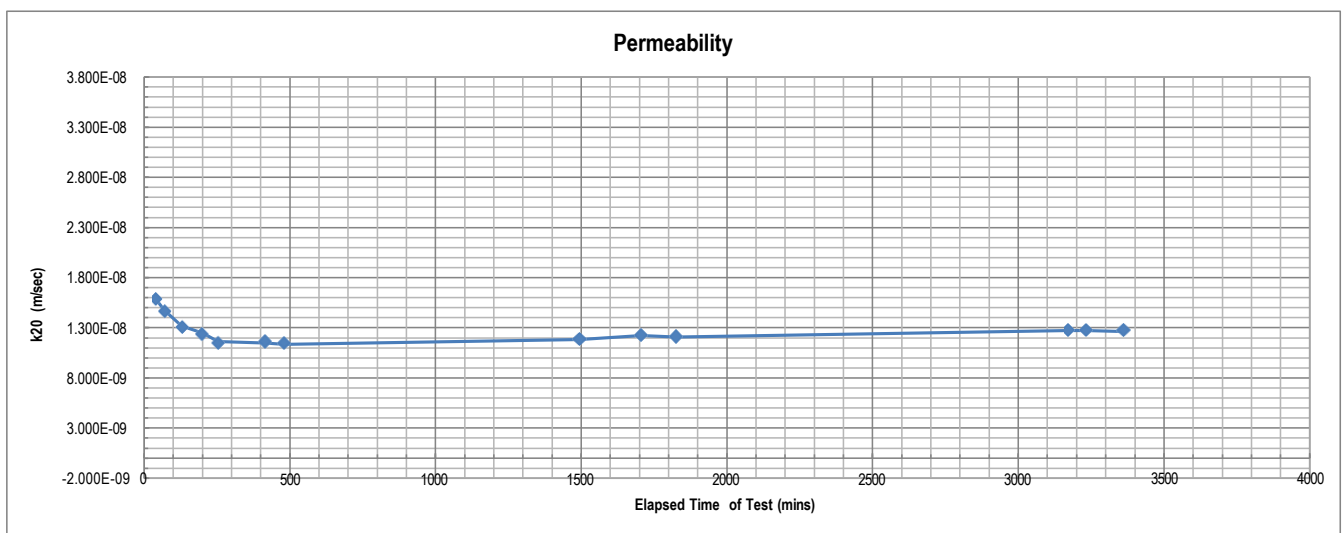
Client Tailex Pty Ltd	Report No. P26020039-FPER
Address 16 Lynton Street Doubleview WA 6018	Workorder No. 20498/T/25-255
Project Preliminary Site Investigation Mt Celia HLP	Test Date 15/02/2026
Client ID LGI002	Report Date 19/02/2026
Description Gravel	Depth (m) 0.00-0.30
	Sample Type Remoulded Soil Specimen

RESULTS OF TESTING

Compaction Method	AS1289.5.1.1 - Standard Compaction		
Maximum Dry Density (t/m ³)	2.05	Hydraulic Gradient	9.3
Optimum Moisture Content (%)	9.0	Surcharge (kPa)	2.7
Placement Moisture Content (%)	9.3	Head Pressure Applied (kPa)	10.79
Moisture Ratio (%)	103.3	Water Type	Deaerated
Placement Wet Density (t/m ³)	2.12	Percentage Material Retained/Sieve Size (mm)	10 % /19 mm
Density Ratio (%)	94.7	Sample Height and Diameter (mm)	117.7 / 151.83 mm

(20)

(m/sec)



Remarks: The above specimen was remoulded to a target of 95% of Maximum Dry Density and at Optimum Moisture Content.

Sample/s supplied by client The compaction data was supplied by the client. Tested as received Page: 1 of 1 REP06301

Accredited for compliance with ISO/IEC 17025 - Testing

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Attachment 3 Test pits logs



Level 2/1 Manning St
 Scarborough, Western Australia, 6019
 Phone: 08 9204 2680

Geotechnical Log - Test Pit
Log ID: TP01

Easting (m) : 448980	Excavator :	Job Number : 002
Northing (m) : 6741951	Excavator Supplier : Legacy	Client : Legacy Pty Ltd
Ground Elevation :	Logged By : A. Rodriguez	Project : LGI002 - Preliminary site investigation
Total Depth : 0.2 m	Reviewed By : S. Kendall	Location : Mt Celia
Date : 23/10/2025		Loc Comment :

Elevation (m)	Depth (m)	Water	Soil Origin	Graphic Log	Classification Code	Material Description	Moisture	Consistency	Samples	Remarks
			TOPSOIL		SM	Silty SAND : fine to coarse grained, non-plastic, red-brown, loose, dry.	Dry			- Presence of vegetation roots
	1.0		CALCRETE			REFUSAL. CALCRETE , Fine-grained cemented duricrust, white, amorphous, massive bedding. HCl fizz confirms carbonate cementation (>50% carbonate content)				- The rock breaker was used. Minimal impact on the confined calcrete mass
	2.0									
	3.0									
	4.0									
	5.0									
	6.0									
	7.0									
	8.0									
	9.0									
	10.0									



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Geotechnical Log - Test Pit
Log ID: TP02

Easting (m) : 449090	Excavator :	Job Number : 002
Northing (m) : 6741860	Excavator Supplier : Legacy	Client : Legacy Pty Ltd
Ground Elevation :	Logged By : A. Rodriguez	Project : LGI002 - Preliminary site investigation
Total Depth : 0.6 m	Reviewed By : S. Kendall	Location : Mt Celia
Date : 23/10/2025		Loc Comment :

Elevation (m)	Depth (m)	Water	Soil Origin	Graphic Log	Classification Code	Material Description	Moisture	Consistency	Samples	Remarks
			TOPSOIL		SM	Silty SAND : fine to coarse grained, non-plastic, red-brown, loose, dry. CALCRETE , Fine-grained cemented duricrust, white, amorphous, massive bedding. HCl fizz confirms carbonate cementation REFUSAL. CALCRETE , Fine-grained cemented duricrust, white, amorphous, massive bedding. HCl fizz confirms carbonate cementation (>50% carbonate content)	Dry			- Presence of vegetation roots
			CALCRETE		CAL		Dry			- CALCRETE, varying weathering with limited excavation depth. Slightly weathered calcrete presents as gravel to cobble sized clasts within a supported matrix
	1.0		CALCRETE							
	2.0									
	3.0									
	4.0									
	5.0									
	6.0									
	7.0									
	8.0									
	9.0									
	10.0									



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Geotechnical Log - Test Pit
Log ID: TP04

Easting (m) : 448917	Excavator :	Job Number : 002
Northing (m) : 6741878	Excavator Supplier : Legacy	Client : Legacy Pty Ltd
Ground Elevation :	Logged By : A. Rodriguez	Project : LGI002 - Preliminary site investigation
Total Depth : 0.4 m	Reviewed By : S. Kendall	Location : Mt Celia
Date : 23/10/2025		Loc Comment :

Elevation (m)	Depth (m)	Water	Soil Origin	Graphic Log	Classification Code	Material Description	Moisture	Consistency	Samples	Remarks
			TOPSOIL		SM	Silty SAND : fine to coarse grained, non-plastic, red-brown, loose, dry.	Dry		TP4 - 1	- Presence of vegetation roots - Angular to subangular gravel (increasing with depth)
	1.0		CALCRETE			REFUSAL. CALCRETE , Fine-grained cemented duricrust, white, amorphous, massive bedding. HCl fizz confirms carbonate cementation (>50% carbonate content)				
	2.0									
	3.0									
	4.0									
	5.0									
	6.0									
	7.0									
	8.0									
	9.0									
	10.0									



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Geotechnical Log - Test Pit
Log ID: TP05

Easting (m) : 449028	Excavator :	Job Number : 002
Northing (m) : 6741786	Excavator Supplier : Legacy	Client : Legacy Pty Ltd
Ground Elevation :	Logged By : A. Rodriguez	Project : LGI002 - Preliminary site investigation
Total Depth : 0.95 m	Reviewed By : S. Kendall	Location : Mt Celia
Date : 23/10/2025		Loc Comment :

Elevation (m)	Depth (m)	Water	Soil Origin	Graphic Log	Classification Code	Material Description	Moisture	Consistency	Samples	Remarks
					CL	Sandy CLAY , soft, low plasticity, fine to coarse grained sand, red-brown, dry.	Dry			- Blue/grey gravels increase with depth. - Occasional gravels and cobbles at 0.5m (angular to subangular)
	1.0		CALCRETE			CALCRETE , Fine-grained cemented duricrust, white, amorphous, massive bedding. HCl fizz confirms carbonate cementation				
	2.0		CALCRETE			REFUSAL. CALCRETE , Fine-grained cemented duricrust, white, amorphous, massive bedding. HCl fizz confirms carbonate cementation (>50% carbonate content)				
	3.0									
	4.0									
	5.0									
	6.0									
	7.0									
	8.0									
	9.0									
	10.0									



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Geotechnical Log - Test Pit
Log ID: TP06

Easting (m) : 4409138	Excavator :	Job Number : 002
Northing (m) : 6741695	Excavator Supplier : Legacy	Client : Legacy Pty Ltd
Ground Elevation :	Logged By : A. Rodriguez	Project : LGI002 - Preliminary site investigation
Total Depth : 0.2 m	Reviewed By : S. Kendall	Location : Mt Celia
Date : 23/10/2025		Loc Comment :

Elevation (m)	Depth (m)	Water	Soil Origin	Graphic Log	Classification Code	Material Description	Moisture	Consistency	Samples	Remarks
			TOPSOIL		SM	Silty SAND : fine to coarse grained, non-plastic, red-brown, loose, dry.	Dry			- Presence of vegetation roots
	1.0		CALCRETE			REFUSAL. CALCRETE , Fine-grained cemented duricrust, white, amorphous, massive bedding. HCl fizz confirms carbonate cementation (>50% carbonate content)				
	2.0									
	3.0									
	4.0									
	5.0									
	6.0									
	7.0									
	8.0									
	9.0									
	10.0									



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Geotechnical Log - Test Pit
 Log ID: TP07

Easting (m) : 448856	Excavator :	Job Number : 002
Northing (m) : 6741805	Excavator Supplier : Legacy	Client : Legacy Pty Ltd
Ground Elevation :	Logged By : A. Rodriguez	Project : LGI002 - Preliminary site investigation
Total Depth : 1.4 m	Reviewed By : S. Kendall	Location : Mt Celia
Date : 23/10/2025		Loc Comment :

Elevation (m)	Depth (m)	Water	Soil Origin	Graphic Log	Classification Code	Material Description	Moisture	Consistency	Samples	Remarks
			TOPSOIL		SM	Silty SAND : fine to coarse grained, non-plastic, red-brown, loose, dry.	Dry			- Presence of vegetation roots
	1.0				SP	Weakly iron-cemented red-brown SAND with white calcareous gravel (vuggy / patchy), duricrust with 10-20% gravel by mass with sand and fines within the voids				- Profile dominated by iron cementation, with no reaction with HCl. - Cementation increases with depth. - Cobble-sized aggregates broken down manually.
	2.0		CALCRETE			REFUSAL. CALCRETE , Fine-grained cemented duricrust, white, amorphous, massive bedding. HCl fizz confirms carbonate cementation (>50% carbonate content)				- Gravel- to boulder-sized cemented clasts within a silty to gravelly sand matrix
	3.0									
	4.0									
	5.0									
	6.0									
	7.0									
	8.0									
	9.0									
	10.0									



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Geotechnical Log - Test Pit
Log ID: TP08

Easting (m) : 448967	Excavator :	Job Number : 002
Northing (m) : 6741713	Excavator Supplier : Legacy	Client : Legacy Pty Ltd
Ground Elevation :	Logged By : A. Rodriguez	Project : LGI002 - Preliminary site investigation
Total Depth : 0.8 m	Reviewed By : S. Kendall	Location : Mt Celia
Date : 23/10/2025		Loc Comment :

Elevation (m)	Depth (m)	Water	Soil Origin	Graphic Log	Classification Code	Material Description	Moisture	Consistency	Samples	Remarks
			TOPSOIL		SM	Silty SAND : fine to coarse grained, non-plastic, red-brown, loose, dry.	Dry			- Presence of vegetation roots
					GW	Sandy GRAVEL , sub-angular to angular, fine, medium and coarse sized, fine, medium and coarse grained sand, red - brown, dry.				- Varying depth of calcrete layer - Gravel sits on the hollows of the calcareous material
	1.0		CALCRETE			REFUSAL. CALCRETE , Fine-grained cemented duricrust, white, amorphous, massive bedding. HCl fizz confirms carbonate cementation (>50% carbonate content)				- Transition from a weaker to a harder material with depth - Iron cementation presence with no reaction with HCl - Calcareous layer with strong fizz
	2.0									
	3.0									
	4.0									
	5.0									
	6.0									
	7.0									
	8.0									
	9.0									
	10.0									



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Geotechnical Log - Test Pit
Log ID: TP09

Easting (m) : 449077	Excavator :	Job Number : 002
Northing (m) : 6741622	Excavator Supplier : Legacy	Client : Legacy Pty Ltd
Ground Elevation :	Logged By : A. Rodriguez	Project : LGI002 - Preliminary site investigation
Total Depth : 0.3 m	Reviewed By : S. Kendall	Location : Mt Celia
Date : 23/10/2025		Loc Comment :

Elevation (m)	Depth (m)	Water	Soil Origin	Graphic Log	Classification Code	Material Description	Moisture	Consistency	Samples	Remarks
			TOPSOIL		SM	Silty SAND : fine to coarse grained, non-plastic, red-brown, loose, dry.	Dry			- Presence of vegetation roots
	1.0		CALCRETE			REFUSAL. CALCRETE , Fine-grained cemented duricrust, white, amorphous, massive bedding. HCl fizz confirms carbonate cementation (>50% carbonate content)				
	2.0									
	3.0									
	4.0									
	5.0									
	6.0									
	7.0									
	8.0									
	9.0									
	10.0									



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Geotechnical Log - Test Pit
Log ID: TP10

Easting (m) : 448809	Excavator :	Job Number : 002
Northing (m) : 6741752	Excavator Supplier : Legacy	Client : Legacy Pty Ltd
Ground Elevation :	Logged By : A. Rodriguez	Project : LGI002 - Preliminary site investigation
Total Depth : 2.8 m	Reviewed By : S. Kendall	Location : Mt Celia
Date : 23/10/2025		Loc Comment :

Elevation (m)	Depth (m)	Water	Soil Origin	Graphic Log	Classification Code	Material Description	Moisture	Consistency	Samples	Remarks
			TOPSOIL		SM	Silty SAND : fine to coarse grained, non-plastic, red-brown, loose, dry.	Dry			- Presence of vegetation roots - Powdery texture
	1.0				SM	Silty SAND : fine to medium grained, non-plastic, red-brown, loose, dry.			TP10 - 1	- Occasional blue-grey gravels, angular to subangular
	2.0									
	3.0				SC	Clayey SAND : fine to coarse grained, low plasticity, red-brown, loose, dry.			TP10 - 2	
	3.0					Terminated at: 2.80 m				
	4.0									
	5.0									
	6.0									
	7.0									
	8.0									
	9.0									
	10.0									



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Geotechnical Log - Test Pit
Log ID: TP11

Easting (m) : 448819	Excavator :	Job Number : 002
Northing (m) : 6741676	Excavator Supplier : Legacy	Client : Legacy Pty Ltd
Ground Elevation :	Logged By : A. Rodriguez	Project : LGI002 - Preliminary site investigation
Total Depth : 2.2 m	Reviewed By : S. Kendall	Location : Mt Celia
Date : 23/10/2025		Loc Comment :



Elevation (m)	Depth (m)	Water	Soil Origin	Graphic Log	Classification Code	Material Description	Moisture	Consistency	Samples	Remarks
			TOPSOIL		SM	Silty SAND : fine to coarse grained, non-plastic, red-brown, loose, dry.	Dry			- Vegetation roots noted throughout the hole
	1.0				SM	SAND with Silt: fine to coarse grained, fine and medium sized gravel, red - brown, dry.	Dry		TP11 - 1	
	2.0				SP	SAND with gravel: fine to coarse grained, fine, medium and coarse sized gravel, red - brown, dry.	Dry		TP11 - 2	- Weakly to moderate iron-cemented clasts, friable - Increasing amount and size of gravels and cobbles with depth - Less amount of blue-grey gravels/cobbles compared to TP10
	3.0		CALCRETE			REFUSAL. CALCRETE , Fine-grained cemented duricrust, white, amorphous, massive bedding. HCl fizz confirms carbonate cementation (>50% carbonate content)				
	4.0									
	5.0									
	6.0									
	7.0									
	8.0									
	9.0									
	10.0									



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Geotechnical Log - Test Pit
Log ID: TP12

Easting (m) : 448775	Excavator :	Job Number : 002
Northing (m) : 6741626	Excavator Supplier : Legacy	Client : Legacy Pty Ltd
Ground Elevation :	Logged By : A. Rodriguez	Project : LGI002 - Preliminary site investigation
Total Depth : 1.7 m	Reviewed By : S. Kendall	Location : Mt Celia
Date : 23/10/2025		Loc Comment :


Elevation (m)	Depth (m)	Water	Soil Origin	Graphic Log	Classification Code	Material Description	Moisture	Consistency	Samples	Remarks
	1.0		TOPSOIL		SM	Silty SAND : fine to coarse grained, non-plastic, red-brown, loose, dry.	Dry		TP12 - 1	- Presence of vegetation roots
	2.0				SM	SAND with Silt: fine, medium and coarse grained, trace of fine, medium and coarse sized gravel, red - brown, dry.	Dry		TP12 - 2	- Presents as cobbles and boulders but break down with hand - Weakly to moderate iron-cemented - Higher presence of blue-grey gravel compared to TP11 - Increasing amount of gravel with depth at 1m, angular to subangular
	2.0					REFUSAL at: 1.7 m				



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Geotechnical Log - Test Pit
Log ID: TP13

Easting (m) : 448690	Excavator :	Job Number : 002
Northing (m) : 6741630	Excavator Supplier : Legacy	Client : Legacy Pty Ltd
Ground Elevation :	Logged By : A. Rodriguez	Project : LGI002 - Preliminary site investigation
Total Depth : 2.4 m	Reviewed By : S. Kendall	Location : Mt Celia
Date : 23/10/2025		Loc Comment :

Elevation (m)	Depth (m)	Water	Soil Origin	Graphic Log	Classification Code	Material Description	Moisture	Consistency	Samples	Remarks
	1.0		TOPSOIL		SM	Silty SAND : fine to coarse grained, non-plastic, red-brown, loose, dry.	Dry			- Presence of vegetation roots throughout the hole - No calcareous material observed No highly weathered blue-grey gravel observed
	2.0								TP13	
	3.0					Terminated at: 2.4 m				
	4.0									
	5.0									
	6.0									
	7.0									
	8.0									
	9.0									
	10.0									



Level 2/1 Manning St
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Geotechnical Log - Test Pit
Log ID: TP14

Easting (m) : 448861	Excavator :	Job Number : 002
Northing (m) : 6741709	Excavator Supplier : Legacy	Client : Legacy Pty Ltd
Ground Elevation :	Logged By : A. Rodriguez	Project : LGI002 - Preliminary site investigation
Total Depth : 1.6 m	Reviewed By : S. Kendall	Location : Mt Celia
Date : 23/10/2025		Loc Comment :



Elevation (m)	Depth (m)	Water	Soil Origin	Graphic Log	Classification Code	Material Description	Moisture	Consistency	Samples	Remarks
	1.0		TOPSOIL		SM	Silty SAND : fine to coarse grained, non-plastic, red-brown, loose, dry.	Dry			- Presence of vegetation roots
	1.0				SM	Silty SAND : fine to coarse grained, non-plastic, red-brown, loose, dry.	Dry		TP14	- It presents as large gravels and cobbles but breaks down with hand - White calcareous leached cobbles and boulders at 1m - Cementation increases with depth - Blue-grey coarse gravels observed
	2.0					REFUSAL at: 1.6 m				
	3.0									
	4.0									
	5.0									
	6.0									
	7.0									
	8.0									
	9.0									
	10.0									



Level 2/1 Manning St
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Geotechnical Log - Test Pit
Log ID: TP15

Easting (m) : 448749	Excavator :	Job Number : 002
Northing (m) : 6741691	Excavator Supplier : Legacy	Client : Legacy Pty Ltd
Ground Elevation :	Logged By : A. Rodriguez	Project : LGI002 - Preliminary site investigation
Total Depth : 2.3 m	Reviewed By : S. Kendall	Location : Mt Celia
Date : 23/10/2025		Loc Comment :

Elevation (m)	Depth (m)	Water	Soil Origin	Graphic Log	Classification Code	Material Description	Moisture	Consistency	Samples	Remarks
			TOPSOIL		SM	Silty SAND : fine to coarse grained, non-plastic, red-brown, loose, dry.	Dry			- Presence of vegetation roots
	1.0				SW	Gravelly well-graded SAND : fine, medium and coarse grained, fine, medium and coarse sized gravel, red - brown, dry.	Dry			- Cobbles and boulders break down into small pieces (sand / gravel) with hand - Blue-grey gravels observed close to the end oh the hole - No calcareous cobbles identified - No reaction with HCl
	2.0									
	3.0					REFUSAL at: 2.3 m				
	4.0									
	5.0									
	6.0									
	7.0									
	8.0									
	9.0									
	10.0									



Level 2/1 Manning St
 Scarborough, Western Australia, 6019
 Phone: 08 9204 2680

Geotechnical Log - Test Pit
Log ID: TP16

Easting (m) : 449092	Excavator :	Job Number : 002
Northing (m) : 6741655	Excavator Supplier : Legacy	Client : Legacy Pty Ltd
Ground Elevation :	Logged By : A. Rodriguez	Project : LGI002 - Preliminary site investigation
Total Depth : 0.2 m	Reviewed By : S. Kendall	Location : Mt Celia
Date : 23/10/2025		Loc Comment :

Elevation (m)	Depth (m)	Water	Soil Origin	Graphic Log	Classification Code	Material Description	Moisture	Consistency	Samples	Remarks
			TOPSOIL		SM	Silty SAND : fine to coarse grained, non-plastic, red-brown, loose, dry.	Dry			- Presence of vegetation roots
	1.0		CALCRETE			REFUSAL. CALCRETE , Fine-grained cemented duricrust, white, amorphous, massive bedding. HCl fizz confirms carbonate cementation (>50% carbonate content)				
	2.0									
	3.0									
	4.0									
	5.0									
	6.0									
	7.0									
	8.0									
	9.0									
	10.0									



Level 2/1 Manning St
 Scarborough, Western Australia, 6019
 Phone: 08 9204 2680

Geotechnical Log - Test Pit

Log ID: TP17 - Existing WD

Easting (m) : 448982	Excavator :	Job Number : 002
Northing (m) : 6741589	Excavator Supplier : Legacy	Client : Legacy Pty Ltd
Ground Elevation :	Logged By : A. Rodriguez	Project : LGI002 - Preliminary site investigation
Total Depth : 1.5 m	Reviewed By : S. Kendall	Location : Mt Celia
Date : 23/10/2025		Loc Comment :


Elevation (m)	Depth (m)	Water	Soil Origin	Graphic Log	Classification Code	Material Description	Moisture	Consistency	Samples	Remarks
	1.0		FILL		GP	Sandy to clayey GRAVEL with boulders and cobbles: fine to medium to coarse grained sand, with fine to medium to coarse sized gravel, dry.	Dry		TP 17	- Significant amount of cobbles and boulders within the matrix of a sandy gravel
	2.0					Terminated at: 1.5 m				
	3.0									
	4.0									
	5.0									
	6.0									
	7.0									
	8.0									
	9.0									
	10.0									



Level 2/1 Manning St
 Scarborough, Western Australia, 6019
 Phone: 08 9204 2680

Geotechnical Log - Test Pit
Log ID: TP18

Easting (m) : 449026	Excavator :	Job Number : 002
Northing (m) : 6741756	Excavator Supplier : Legacy	Client : Legacy Pty Ltd
Ground Elevation :	Logged By : A. Rodriguez	Project : LGI002 - Preliminary site investigation
Total Depth : 0.6 m	Reviewed By : S. Kendall	Location : Mt Celia
Date : 23/10/2025		Loc Comment :

Elevation (m)	Depth (m)	Water	Soil Origin	Graphic Log	Classification Code	Material Description	Moisture	Consistency	Samples	Remarks
			TOPSOIL		SM	Silty SAND : fine to coarse grained, non-plastic, red-brown, loose, dry.	Dry			- Vegetation roots - 200mm iron-cemented layer situated at 0.3m with no reaction with HCl
	1.0		CALCRETE			REFUSAL. CALCRETE , Fine-grained cemented duricrust, white, amorphous, massive bedding. HCl fizz confirms carbonate cementation (>50% carbonate content)				
	2.0									
	3.0									
	4.0									
	5.0									
	6.0									
	7.0									
	8.0									
	9.0									
	10.0									

APPENDIX E2 – HL Preliminary Geotechnical Site Investigation

Technical Memorandum

To	Chandra Verma; Ranajit Das	Client	Legacy
From	Sam Kendall; Pepe Moreno	Project	LGI002
Cc	Alejandro Rodriguez	Date	25/02/2026
Subject	Mt Celia HLF preliminary geotechnical site investigation		

1 Introduction

Tailex Pty Ltd (Tailex) was appointed by Legacy Iron Ore Limited (Legacy) to undertake a geotechnical test pit campaign for the proposed heap leach facility (HLF) design concept for its Mt Celia Project. The Mt Celia deposit lies in Legacy's South Laverton project located in the Eastern Goldfields of Western Australia, approximately 180 km northeast of Kalgoorlie. The project location is shown in Figure 1-1.

This memorandum provides the outcomes of this preliminary site investigation and laboratory testing program.

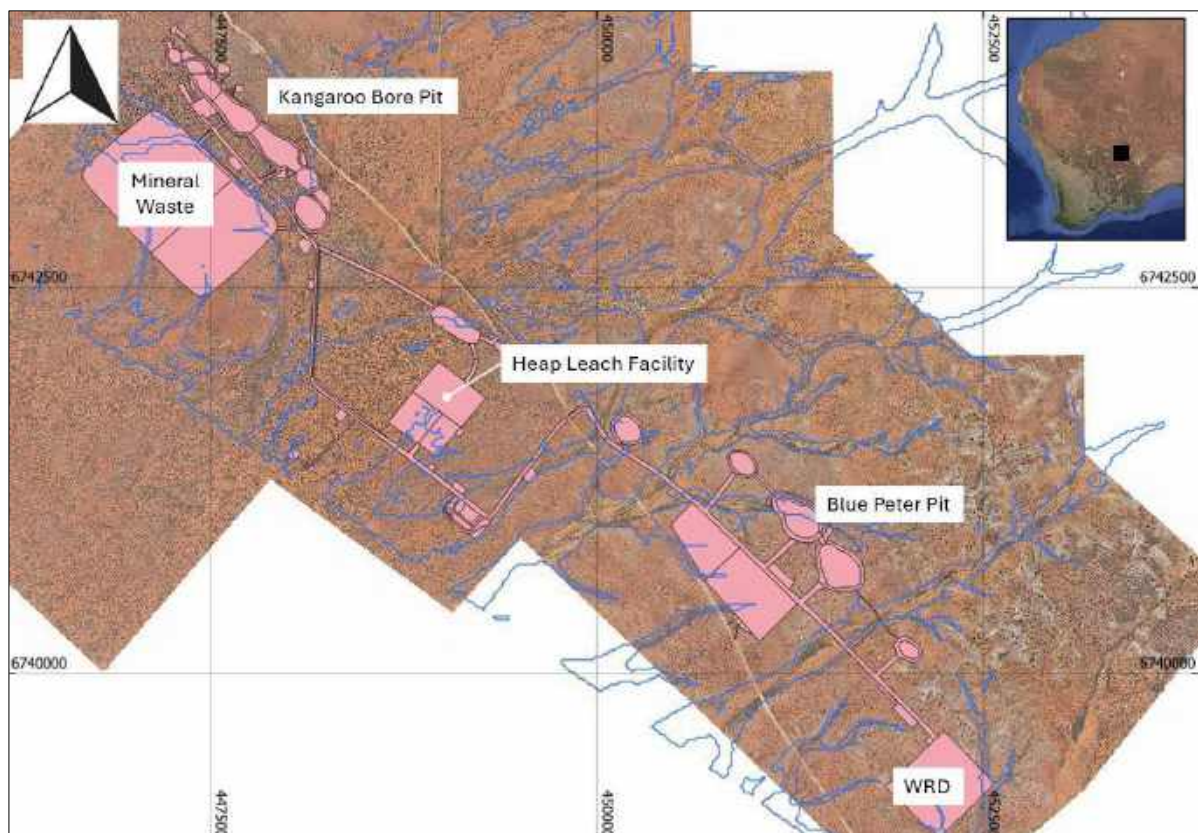


Figure 1-1: Project location

Source: Legacy

2 Objectives

The objectives of the investigation were to:

- Assess the foundation conditions across the HLF site
- Assess the potential borrow materials for construction purposes
- Identify potential problem soils/ areas within the HLF footprint which may require further investigation
- Assess geotechnical parameters for input to the HLF design

3 Fieldwork summary

The field investigation for the HLF was undertaken on 22 and 23 of October 2025 and comprised:

- Excavation of 17 test pits, located as follows:
 - Within the HLF footprint at 10 locations, to depth ranging between 0.2 m and 1.4 m.
 - Within the pond and plant areas at six locations, to depths ranging between 1.6 m and 3.0 m.
 - Within the existing waste dump at one location for borrow material assessment.
- Collection of 12 bulk samples for laboratory testing.

Locations were selected based on surface observations, accessibility, and preliminary geological mapping. A layout of the test pits campaign is shown in Figure 3-1. All test pits were logged in the field and georeferenced using GPS coordinates (Easting/Northing).

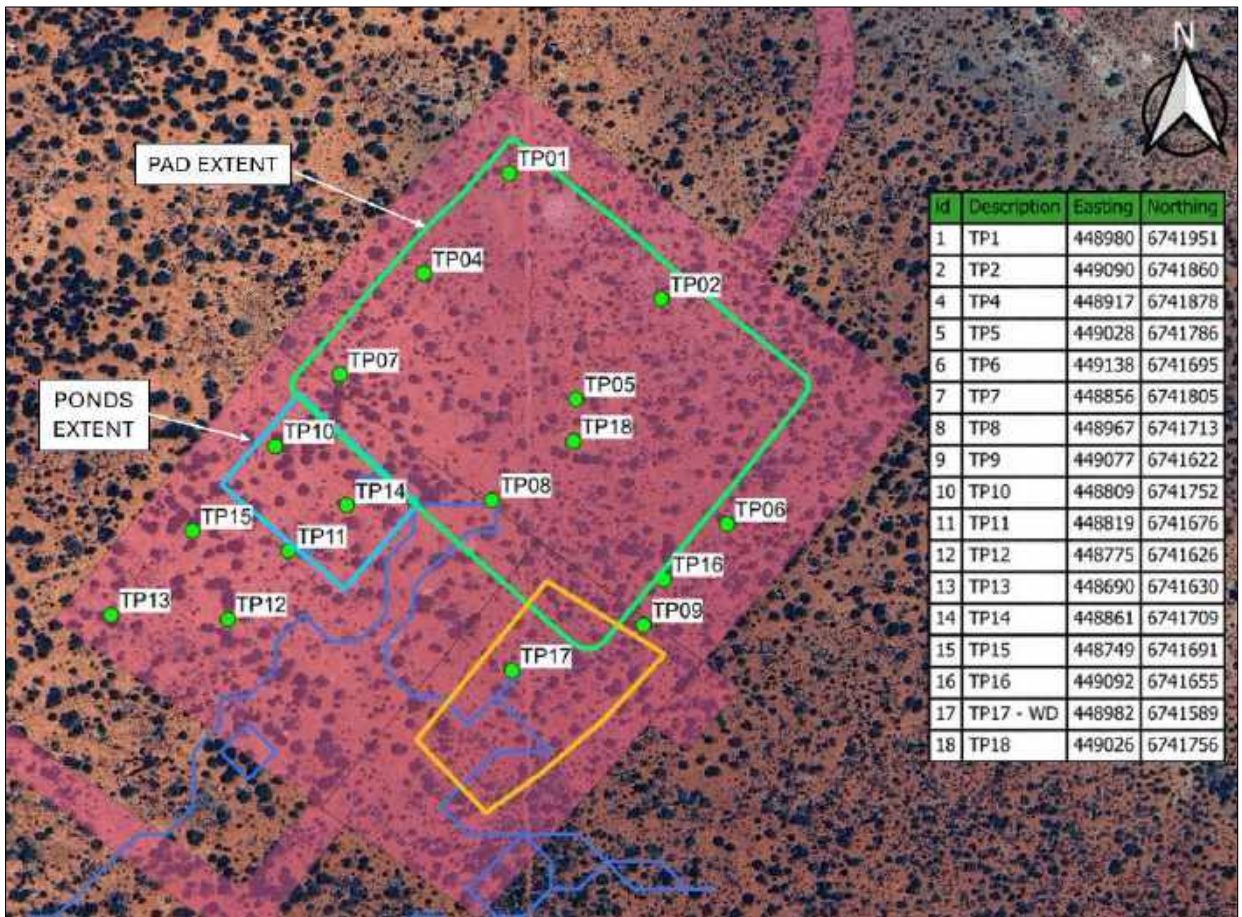


Figure 3-1: Test pit campaign layout

Note: The dump extent (observed on site) is shown in orange. The background aerial imagery predates the dump.

3.1 Test pits

Test pits were excavated using a Komatsu PC200 LC excavator supplied and operated by the contractor. A rock breaker attachment was available to assist with hard digging conditions.

All test pits were logged in general accordance with Australian Standard AS 1726:2017. The criteria for refusal were defined as the point at which the excavator bucket was unable to make further progress under normal operating conditions. The rock breaker attachment was used once in TP01 to assess the hardness and thickness of the hardspan, confined calcrete duricrust, having minimal impact on the confined rock mass.

Photographs documenting the excavation and subsurface conditions are included in Attachment 1. Test pit logs are presented in Attachment 3.

3.2 Sampling

Bulk soil samples (~30 kg each) were collected from nominated HLF test pits at depths chosen to target distinct soil strata for laboratory testing.

A summary of the collected samples and the laboratory testing undertaken is provided in Table 4-1.

4 Laboratory testing

Laboratory testing was completed by Construction Sciences (NATA-accredited), with the scope of testing summarised in Table 4-1. Test certificates are presented in Attachment 2.

Table 4-1: Sampling testing summary

Sample ID	PSD	Atterberg limits	SG	SMDD	Permeability
	(AS 1289 3.6.1, 1.1)	(AS 1289 3.1.1, 3.3.1, 3.2.1, 3.4.1)	(AS 1289.3.5.1)	(AS 1289 5.1.1, 2.1.1, 1.1)	(AS 1289.6.7.1)
TP4 - (0-0.4 m)	X		X		
TP5 - (0-0.85 m)	X	X	X		
TP10 - (1.5 m)	X	X	X		
TP10 - (3.0 m)	X	X	X	X	X ¹
TP11 - (1.0 m)	X	X	X		
TP11 - (2.0 m)	X	X	X		
TP12 - (0.3 -1.0 m)	X	X	X		
TP12 - (1.0-1.5 m)	X	X	X		
TP13 - (2.0 m)	X		X		
TP14 - (1.0 m)	X		X		
TP17 - existing WD		X			
WD - PBM		X		X	X ¹

Notes:

¹ : Permeability tests were completed by Trilab Laboratory.

4.1 Foundation characterisation

Laboratory results from 10 samples collected from the proposed foundation footprint and nearby areas are summarised below.

4.1.1 Particle size distribution

The particle size distribution (PSD) curves of foundation samples are plotted in Figure 4-1.

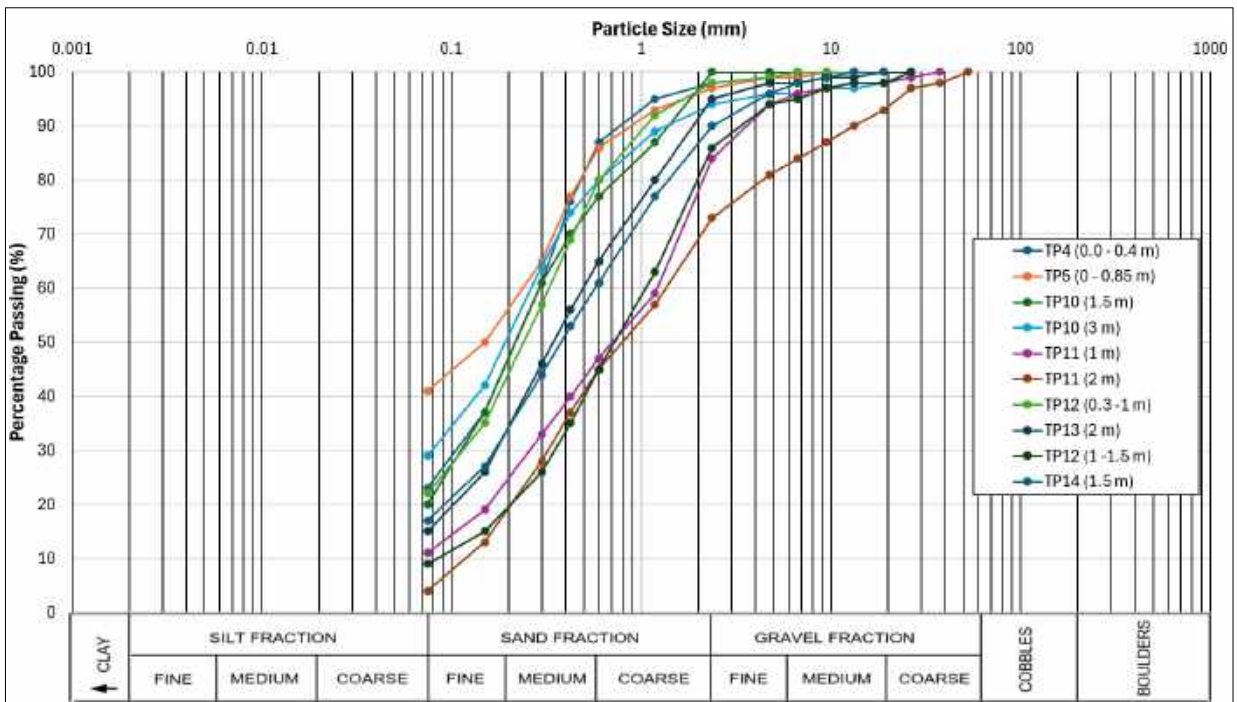


Figure 4-1: PSD of foundation samples

The following is of note:

- Foundation samples are predominantly SAND, with varying amounts of fine to medium gravel. The fines content is generally < 30%, and most samples exhibit a relatively broad gradation.
- The sample from TP5 is an exception, which was classified as a sandy CLAY and recorded a fines content ~40%.

4.1.2 Atterberg limits

The Atterberg limits test results are plotted in Figure 4-2.

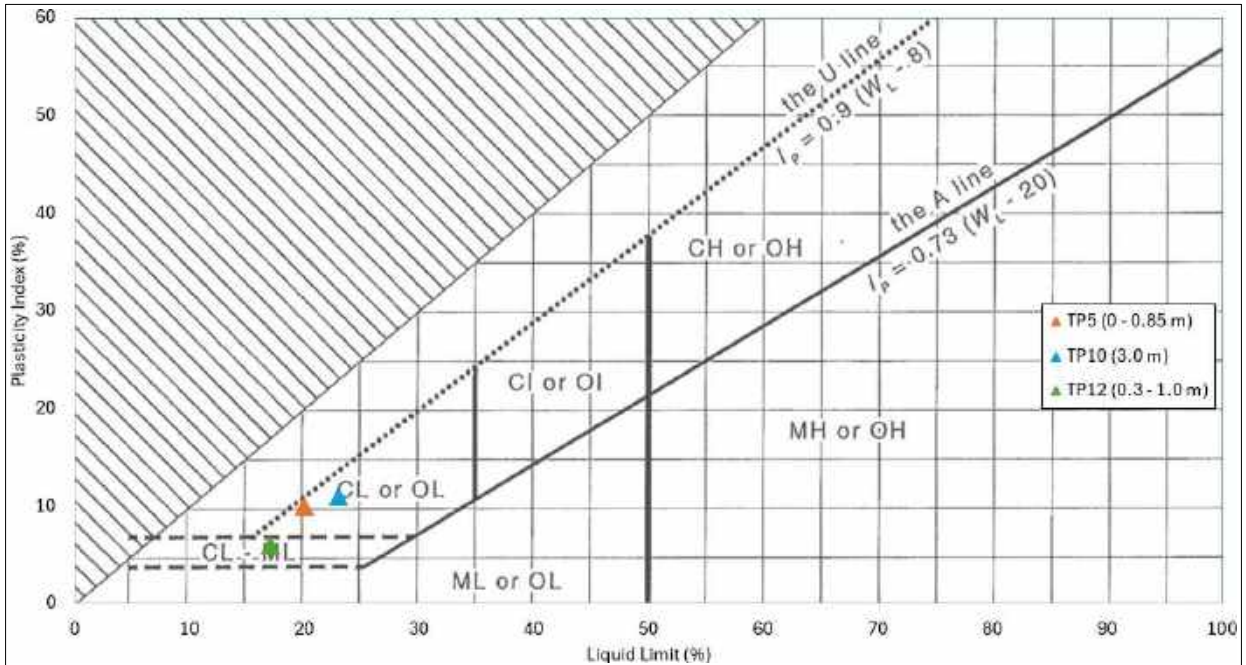


Figure 4-2: Plasticity chart – Foundation materials

Source: AS1726:2017, Figure 5

The following is of note:

- Four foundation samples were classified as non-plastic (NP) and therefore are not represented on the plasticity chart.
- TP5 and TP10 have the highest fines contents and plot as CL (low plasticity clay).
- TP12 has a lower fines content and plots as ML (low plasticity silt) or CL (low plasticity clay).

4.1.3 Density

The Standard Maximum Dry Density (SMDD) results for sample TP10 (3.0m) are presented in Figure 4-3 and summarised below:

- Maximum Dry Density (MDD) = 2.07 t/m³
- Optimum Moisture Content (OMC) = 9.0 %

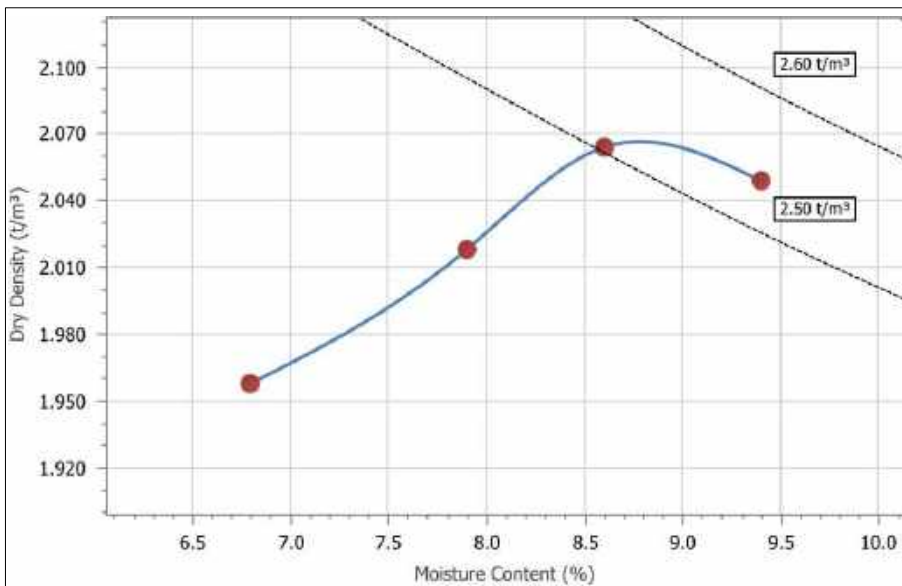


Figure 4-3: TP10 (3.0 m) - SMDD curve

The following is of note:

- TP10 (3.0 m) was taken from the proposed pond area and represents the in-situ material that will form the under-liner.
- Subgrade compaction should be achievable with conventional earthworks and routine moisture control.

4.1.4 Permeability

The constant head permeability results, for sample TP10 (3.0m) remoulded to 95%SMDD, summarised below:

- 95% Maximum Dry Density (MDD) = 2.07 t/m³
- Saturated permeability (ksat) = 2.3 x 10⁻⁸ m/s

The following is of note:

- TP10 (3.0 m) was taken from the proposed pond area and represents the in-situ material that will form the under-liner.
- The measured permeability exceeds the design guidance of 1x10⁻⁹ m/s (*Guideline for Heap Leach Pad Liner System Design*) by one of order of magnitude, noting that this value represents typical guidance rather than a strict acceptance criterion.
- Subject to seepage modelling and supporting justification, the in-situ material may be suitable as a secondary liner, potentially allowing a single HDPE liner system. In the absence of modelling, the results suggest the in-situ material still provides additional redundancy alongside the proposed double liner system.

4.1.5 Summary

A summary of the laboratory testing results from the foundation characterisation is provided in Table 4-2.

Table 4-2: Summary of foundation characterisation testing results

Sample information		TP4 (0 - 0.4 m)	TP5 (0 - 0.85 m)	TP10 (1.5 m)	TP10 (2.8 – 3.0 m)	TP11 (1 m)	TP11 (2 m)	TP12 (0.3 -1 m)	TP12 (1 -1.5 m)	TP13 (2 m)	TP14 (1.5 m)
Specific Gravity (SG)		2.44	2.33	2.37	2.39	2.43	2.33	2.44	2.39	2.64	2.60
PSD	% Gravel	2	3	0	6	16	27	2	14	5	10
	% Sand	75	56	80	65	73	69	76	77	80	73
	% Fines	23	41	20	29	11	4	22	9	15	17
Atterberg limits	Liquid Limit (LL)	-	20	NO	23	NO	NO	17	NO	-	-
	Plastic Limit (PL)	-	10	NO	12	NO	NO	11	NO	-	-
	Plasticity Index (PI)	-	10	NP	11	NP	NP	6	NP	-	-
	Linear Shrinkage	-	3	0	3	0	0	1.5	0	-	-
Soil Classification¹	Symbol	SM	CL	SM	SC	SM	SP	SM	SM	SM	SM
	Description	Non-plastic Silty SAND	Low plasticity Sandy CLAY	Non-plastic Silty SAND	Low plasticity clayey SAND	Non-plastic SAND with Silt and Gravel	Non-plastic SAND with Gravel	Low plasticity - Silty SAND	Non-plastic SAND with Silt	Silty SAND	Silty SAND
Density (SMDD)		-	-	2.07 t/m ³ – 9% (OMC)	-	-	-	-	-	-	-
Permeability					2.3x10 ⁻⁸ m/s						
Location		HLF	HLF	Ponds	Ponds	Ponds	Ponds	Plants	Plants	Plants	Ponds

Notes:

¹ : In accordance with AS1726:2017

NO: Not obtainable

NP: Non-plastic

4.2 Borrow material characterisation

Laboratory results from two samples collected to assess borrow suitability for use as low-permeability material are summarised below:

- TP17 from the existing waste dump within the HLF footprint,
- WD-PBM from the northwestern mineral waste near the Kangaroo Bore pit (Figure 1-1).

4.2.1 Particle size distribution

The particle size distribution (PSD) curves of potential borrow samples are plotted in Figure 4-4.

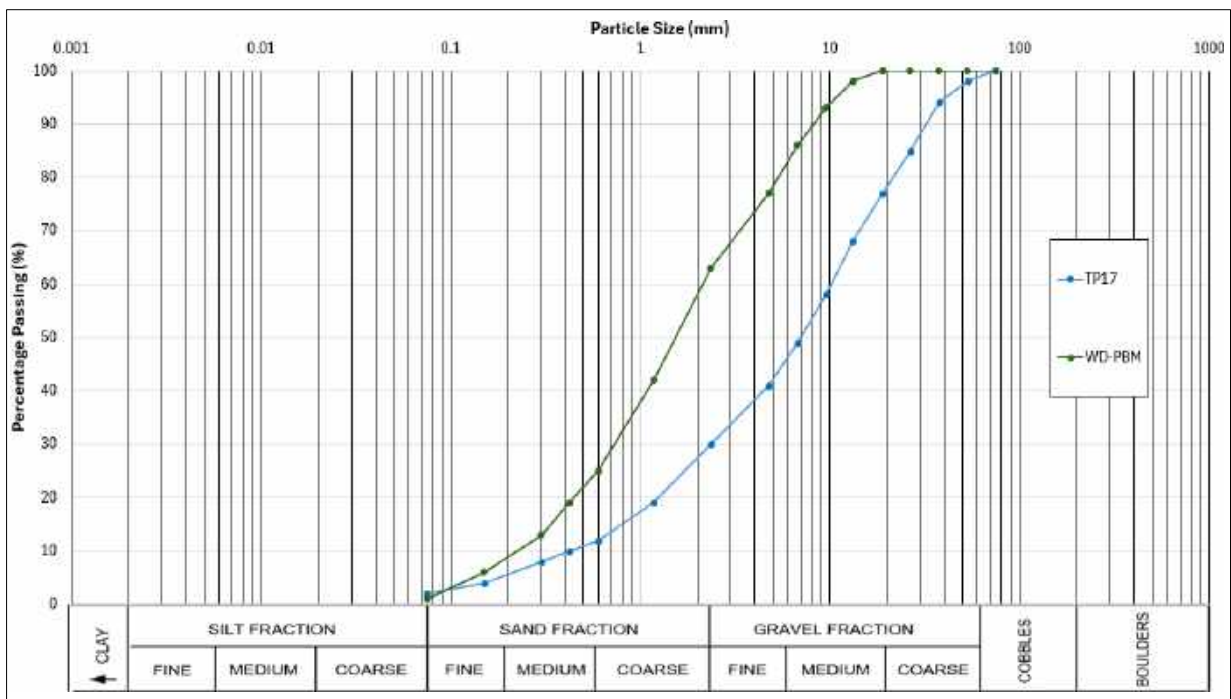


Figure 4-4: PSD of borrow material

The following is of note:

- TP17 sample is predominantly GRAVEL, with a significant sand fraction, very low fines content (~2%) and low plasticity.
- WD-PBM sample is predominately SAND with a substantial gravel content and negligible fines (~1%).
- Bulk samples were collected from the borrow source following in situ scalping of oversize material.
- For sample WD-PBM, the laboratory reported that approximately 15% by mass of the total submitted sample was retained on the 19 mm sieve (equivalent to ~85% passing 19mm) during laboratory preparation for compaction and permeability testing (R. Groves, email, dated 19 February 2026).
- The proportion retained on the 19 mm sieve provides an indication of the degree of screening necessary to achieve the permeability values obtained for the sample (Section 4.2.4).

4.2.2 Atterberg limits

The Atterberg limits test results are plotted in Figure 4-5.

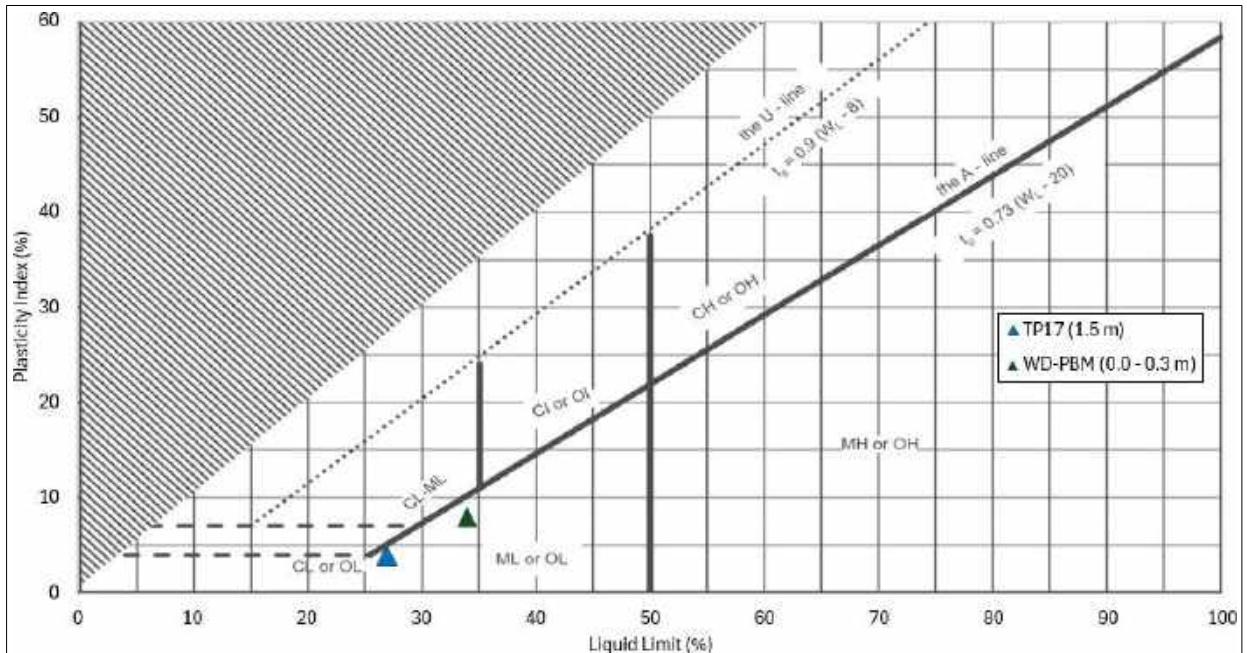


Figure 4-5: Plasticity chart - Potential borrow materials

The following is of note:

- TP17 and WD-PBM plot near the A-line as ML (low plasticity silt)

4.2.3 Density

SMDD results are presented in Figure 4-6 and summarised as follows:

- Sample WD – PBM:
 - Maximum Dry Density (MDD) = 2.05 t/m³
 - Optimum Moisture Content (OMC) = 9.0 %

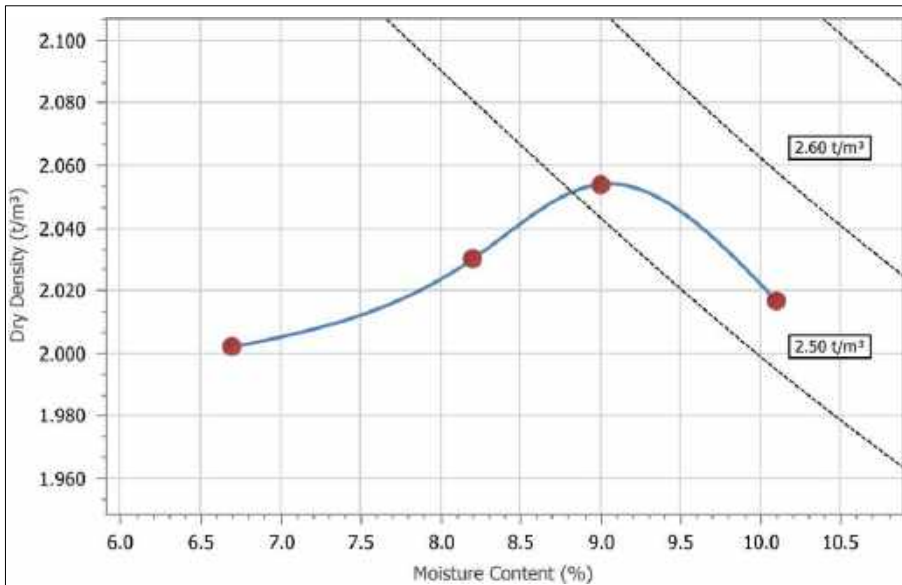


Figure 4-6: WD-PBM - SMDD curve

The following is of note:

- WD – PBM was taken from the northwestern mineral waste near the Kangaroo Bore pit and represents the possible pad under-liner material placed between the HDPE liner and waste rock to be used in pad construction
- Compaction should be achievable with conventional earthworks and routine moisture control.

4.2.4 Permeability

The constant head permeability results, for sample WD–PBM remoulded to 95%SMDD, are summarised below:

- 95% Maximum Dry Density (MDD) = 2.05 t/m³
- Saturated permeability (ksat) = 1.3 x 10⁻⁸ m/s

The following is of note:

- WD–PBM was taken from the northwestern mineral waste near the Kangaroo Bore pit and represents the possible pad under-liner material placed between the HDPE liner and waste rock to be used in pad construction, provided that the material is screened to achieve a maximum particle size (D_{max}) of 19 mm (consistent with permeability test specifications).
- The measured permeability exceeds the design guidance of 1x10⁻⁹ m/s (*Guideline for Heap Leach Pad Liner System Design*) by one of order of magnitude, noting that this value represents typical guidance rather than a strict acceptance criterion.
- Subject to additional sampling and testing to confirm consistency of permeability results (only 1 currently available) and completion of seepage modelling, the borrow material may prove suitable as a secondary liner, potentially allowing a single HDPE liner system. In the absence of modelling, the results suggest the in-situ material provides additional redundancy alongside the proposed double liner system.

4.2.5 Summary

A summary of the laboratory testing results from the borrow material characterisation is provided in Table 4-3.

Table 4-3: Summary of borrow material characterisation testing results

Sample information		TP17 (1.5 m)	WD - PBM
PSD	% Gravel	70	37
	% Sand	28	62
	% Fines	2	1
Atterberg limits	Liquid Limit (LL)	27	34
	Plastic Limit (PL)	23	26
	Plasticity Index (PI)	4	8
	Linear Shrinkage	1.5	2.5
Density (SMDD)		-	2.05 t/m ³ – 9% (OMC)
Permeability		-	1.3x10 ⁻⁸ m/s

5 Idealised foundation profiles

Based on the laboratory test results and site observations, the near surface foundation conditions across the investigation area are generally characterised as either:

- Profile 1: A thin layer of topsoil overlying a calcrete horizon
- Profile 2: Colluvial soils

Some variations in these profiles are expected in isolated areas.

Further details regarding the site geology are provided in the HLF Design report (Tailex, 2025).

Photographs documenting the excavation and subsurface conditions observed during the test pit investigation are included in Attachment 1. Test pit logs are presented in Attachment 3.

5.1 Profile 1 – Shallow calcrete

The calcrete profile was observed across much of the proposed HLF pad footprint.

- Topsoil: Silty SAND (SM/ML), red-brown, fine to medium grained, low plasticity; loose; dry; with organic matter. Thickness generally ranges between 0.2 m and 0.5 m.
- CALCRETE. Fine-grained cemented duricrust, white, amorphous, massive bedding. HCl fizz confirms carbonate cementation (>50% carbonate content). Isolated occurrences of slightly weathered calcrete (TP02 and TP05) allowed limited excavation (0.2 m to 0.7 m) with spoil presenting as gravel to cobble sized clasts within a supported matrix, dry. Beneath this zone, and in locations where the weathered/excavatable material was absent, a very high strength, strongly cemented calcrete horizon was encountered, on which refusal consistently occurred.

TP05 represents a local variation within the profile and was logged as sandy CLAY, approximately 0.85 m thick. Refusal was encountered on calcrete at approximately 1.0 m depth.

5.2 Profile 2 – Colluvial soils

The colluvial soil profile was observed across the proposed HLF pond footprint.

- Topsoil: Silty SAND (SM/ML), red-brown, fine to medium grained, low plasticity; loose; dry; with organic matter. Thickness generally ranges between 0.2 m and 0.5 m.
- Colluvial soils Well-graded SAND (SW) to silty SAND (SM), fine to coarse grained, red-brown, dry. The material is generally non-plastic, with occasional zones of low plasticity recorded in TP10 and TP12. Minor gravel was observed within the sand matrix. Excavation termination was generally controlled by excavator reach capacity rather than material refusal.

6 Borrow materials

Based on the limited available test results, screened material from WD–PBM may be suitable as low permeability under-liner material. Given similarities in characterisation results, similar permeabilities from TP17 material may be possible (to be confirmed).

The material would require screening to limit the maximum particle size and achieve consistent in-situ permeabilities. It is noted that oversized materials were not fully sampled, therefore further testing and evaluation by screening contractor would be required to assess economic feasibility.

There might be a discrepancy between the borrow material grading and behaviour shown in permeability testing. Further investigation is required to clarify, as only one permeability result is currently available. If confirmed by repeat testing, the permeability results (1×10^{-8} m/s) would remain an order of magnitude above the typical under-liner criterion (1×10^{-9} m/s). Without a detailed seepage model to justify a higher-permeability under-liner for a single HDPE liner, the proposed double-liner system remains appropriately conservative at this stage.

No borrow sources for over-liner material have been tested. Appropriate over-liner borrow materials should be confirmed as part of forward works.

7 Construction considerations

7.1.1 Heap leach facility area

The HLF area is expected to require minimal cut, with the foundation level largely governed by the rippability of the surficial calcrete horizon. The depth to competent founding material may vary depending on how readily the upper calcrete can be ripped. Assessment of rippability was not a focus of the current investigation and should be confirmed as part of forward works.

Foundation preparation would include removal of loose surface soils (~200 mm) within the HLF footprint. This material may be stockpiled for later use in site rehabilitation. The exposed subgrade would then be ripped and recompacted where sandy soils overlie the calcrete, or prepared directly on competent calcrete where encountered. Won materials from pond excavations may be suitable for use as fill where required, subject to construction control.

Areas of the HLF pad near the ponds may transition from thicker soils to shallow calcrete, which may result in differential settlement. Minor differential settlement within the serviceability limits of the pipes and liners is not considered critical, as these areas form the low point of the pad and drainage will be maintained.

The leachate chemistry is expected to be alkaline, and as such is not anticipated to promote dissolution of carbonate calcrete materials, which is most susceptible under low pH conditions.

Calcrete thickness and the characteristics of underlying materials are unknown. Investigation of underlying materials is proposed as part of further works to inform landform stability assessments.

During foundation preparation, deviations from the idealised profiles should be noted. The foundation should be inspected for fractures, structures, or discontinuities that may create high permeability pathways, with remediation undertaken as directed by the design engineer.

7.1.2 Ponds area

Founding levels within the pond area will be defined by the design excavation depth, which is considered feasible based on the test pits completed. The pond base is expected to be founded predominantly on silty sands. Foundation preparation may include ripping and re-compacting the exposed sandy subgrade to achieve consistent in-situ permeabilities to testing results.

Compaction test results indicate that the site materials are suitable for compaction and that the required subgrade preparation is feasible using conventional earthworks methods.

7.1.3 Plant area

Light structures are anticipated within the plant area. Shallow foundations bearing on sandy soils are considered feasible, subject to standard subgrade preparation and removal of any loose or disturbed near-surface materials.

8 Forward works

Details of the recommended forward works are presented in the HLP Design Report (Taillex, 2025) and are not repeated herein.

Regards
Taillex Pty Ltd

Signer ID: 6QG7CPZCBK...

Senior Consultant

Signer ID: QBXT6JWHGQ...

Principal Consultant

Attachments:

Attachment 1 Site photographs

Attachment 2 Test certificates

Attachment 3 Test pits logs

References

Tailex (2025). *Mt Celia Project – Heap Leach Facility Design*, dated February 2026