Previous Laboratory Test Results

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Reference No: CTS24W1705-1

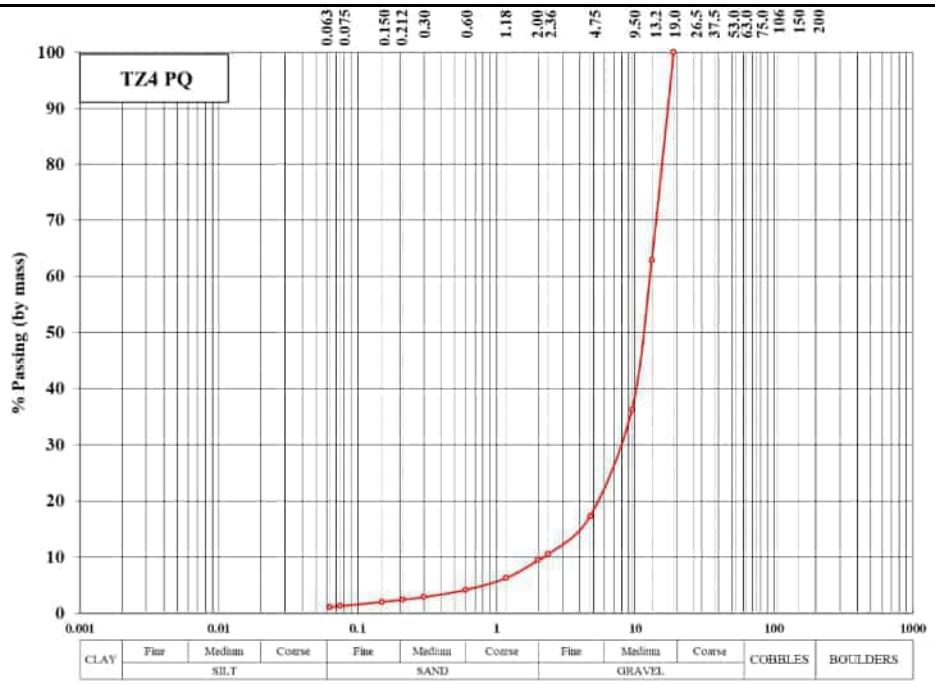
Date: 7 October 2024

TEST REPORT – SANTANA MINERALS INVESTIGATIONS

Client Details:	**Santana Minerals Limited, P.O. Box 11, Hokitika**	**Attention:**	**R. Redden**
Job Description:	**Santana Minerals Investigations**		
Sample Description:	**GRAVEL with minor sand & trace of silt**	**Client Order No:**	**N/A**
Sample Source: (cs)	**TZ4 PQ Material**	**Sample Label No:**	**N/A**
Date & Time Sampled:	**Unknown**	**Sampled By:**	**Unknown**
Sample Method:	**Unknown**	**Date Received:**	**30-Aug-24**

PARTICLE SIZE ANALYSIS (NZS 4402:1986, Test 2.8.1)

Test Sieve (mm)	% Passing (by mass)
26.5	
19.0	100
13.2	63
9.50	36
4.75	17
2.36	10
2.00	9
1.18	6
0.60	4
0.30	3
0.212	2
0.150	2
0.075	1
0.063	1



The sample was received in a natural state. The percentage passing the 63µm test sieve was obtained by difference.

DENSITY & ABSORPTION OF COARSE AGGREGATE - NZS 3111:1986, Test 12	
Density SSD Basis:	**2780 kg/m^3**
Density Dry Basis:	**2780 kg/m^3**
Absorption:	**0.3 %**

Notes:

- *Information contained in this report which is Not IANZ Accredited relates to the sample description based on NZ Geotechnical Society Guidelines 2005, the client supplied information (cs) and sampling.*
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Tested By: L.T. Smith **Date:** 19-Sep-24 to 4-Oct-24

Checked By:

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Reference No: CTS24W1705-1

Date: 7 October 2024

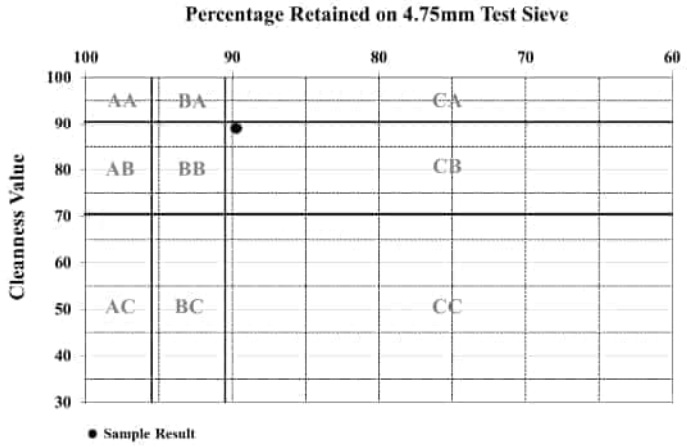
TEST REPORT – SANTANA MINERALS INVESTIGATIONS

Client Details:	**Santana Minerals Limited, P.O. Box 11, Hokitika**	**Attention:**	**R. Redden**
Job Description:	**Santana Minerals Investigations**		
Sample Description:	**GRAVEL with minor sand & trace of silt**	**Client Order No:**	**N/A**
Sample Source: (cs)	**TZ4 PQ Material**	**Sample Label No:**	**N/A**
Date & Time Sampled:	**Unknown**	**Sampled By:**	**Unknown**
Sample Method:	**Unknown**	**Date Received:**	**30-Aug-24**

CRUSHING RESISTANCE - NZS 4407:2015, Test 3.10	
Specified Load:	**130 kN**
% Passing 2.36 mm Test Sieve:	**5.2**
Crushing Resistance Compliance:	**Greater Than Specified Load**
Estimated Crushing Resistance:	**200 kN**

(1) The estimated crushing resistance is a derived result from NZS 3111:1986, Test 14. IANZ endorsement does not apply to this value.

WEATHERING RESISTANCE (NZS 4407:2015, Test 3.11)	
% Retained on 4.75 mm Test Sieve:	**90**
Cleanness Value:	**89**
Weathering Resistance Quality Index:	**CB**



Additional Notes:

- *Information contained in this report which is Not IANZ Accredited relates to the estimated crushing resistance, the sample description based on NZ Geotechnical Society Guidelines 2005, the client supplied information (cs) and sampling.*
- *This report may not be reproduced except in full.*

Tested By: **L.T. Smith** **Date:** **19-Sep-24 to 4-Oct-24** **Checked By:**

Approved Signatory

L.T. Smith
Key Technical Personnel

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Reference No: CTS24W1705-2

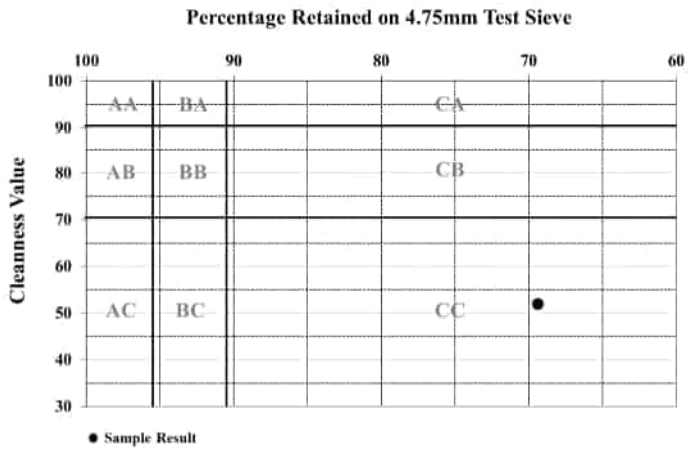
Date: 9 October 2024

TEST REPORT – SANTANA MINERALS INVESTIGATIONS

Client Details:	**Santana Minerals Limited, P.O. Box 11, Hokitika**	**Attention:**	**R. Redden**
Job Description:	**Santana Minerals Investigations**		
Sample Description: (cs)	**Scalp Cobbles / boulders from sample greater than 60mm diameter**		
Sample Source: (cs)	**Cherri Terrace**	**Sample Location: (cs)**	**5019008 (North) – 1314005 (East)**
Date & Time Sampled:	**Unknown**	**Sampled No: (cs)**	**MG 41762**
Sample Method:	**Unknown**	**Date Received:**	**30-Aug-24**

CRUSHING RESISTANCE - NZS 4407:2015, Test 3.10	
Specified Load:	**130 kN**
% Passing 2.36 mm Test Sieve:	**12.9**
Crushing Resistance Compliance:	**Less Than Specified Load**
Estimated Crushing Resistance:	**110 kN**
(1) The estimated crushing resistance is a derived result from NZS 3111:1986, Test 14. IANZ endorsement does not apply to this value.	

WEATHERING RESISTANCE (NZS 4407:2015, Test 3.11)	
% Retained on 4.75 mm Test Sieve:	**69**
Cleanness Value:	**52**
Weathering Resistance Quality Index:	**CC**



Additional Notes:

- *Information contained in this report which is Not IANZ Accredited relates to the estimated crushing resistance, the sample description based on NZ Geotechnical Society Guidelines 2005, the client supplied information (cs) and sampling.*
- *This report may not be reproduced except in full.*

Tested By: L.T. Smith, V. Fawcett & C. Julius **Date:** 25-Sep-24 to 9-Oct-24 **Checked By:**

Approved Signatory

C. Julius
Key Technical Personnel

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Reference No: CTS24W1705-3

Date: 11 November 2024

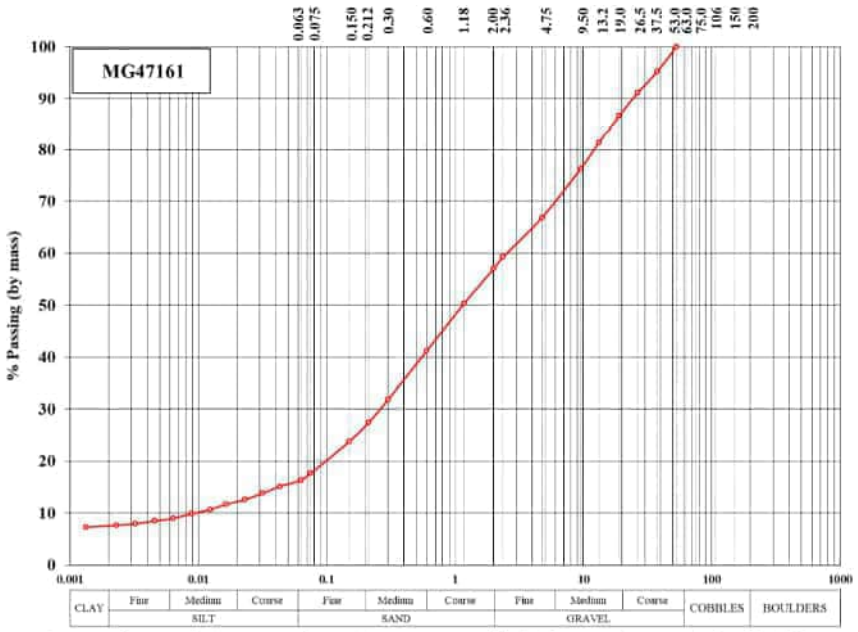
TEST REPORT – SANTANA MINERALS INVESTIGATIONS

Client Details:	**Santana Minerals Limited, P.O. Box 11, Hokitika**	**Attention:**	**R. Redden**
Job Description:	**Santana Minerals Investigations**		
Sample Description:	**Sandy GRAVEL with minor silt & minor clay (CL)**	**Sample No: (cs)**	**MG41761**
Sample Source: (cs)	**Cherri Terrace**	**Sample Location: (cs)**	**5019008 - 1314005**
Date & Time Sampled:	**Unknown**	**Sampled By:**	**Unknown**
Sample Method:	**Unknown**	**Date Received:**	**30-Aug-24**

PARTICLE SIZE ANALYSIS (NZS 4402:1986, Test 2.8.1 & 2.8.4)

Test Sieve (mm)	% Passing (by mass)
53.0	100
37.5	95
26.5	91
19.0	87
13.2	81
9.50	76
4.75	67
2.36	59
2.00	57
1.18	50
0.60	41
0.30	32
0.212	27
0.150	24
0.075	18
0.063	16

Fraction Size	Interpolated % Passing
60 µm	16
20 µm	13
6 µm	9
2 µm	8



The sample was received in a natural state. The percentage passing the 63µm test sieve was obtained by difference. The pH of the hydrometer suspension was 8.5. Sodium hexametaphosphate was used as a dispersant.

PARTICLE SIZE ANALYSIS & HYDROMETER ANALYSIS RESULTS - NZS 4402:1986, Test 2.8.1 & 2.8.4

Description	Fraction Range	% Within Range	Description	Fraction Range	% Within Range
Coarse Gravel	60.0 mm to 20.0 mm	13	Fine Sand	200 µm to 60 µm	11
Medium Gravel	20.0 mm to 6.0 mm	18	Coarse Silt	60 µm to 20 µm	3
Fine Gravel	6.0 mm to 2.00 mm	12	Medium Silt	20 µm to 6 µm	4
Coarse Sand	2.00 mm to 600 µm	16	Fine Silt	6 µm to 2 µm	1
Medium Sand	600 µm to 200 µm	14	Clay	< 2 µm	8

WATER CONTENT & PLASTICITY INDEX RESULTS - NZS 4402:1986, Test 2.1, 2.2, 2.3 &2.4

Water Content: ("All In" As Received)	**8.4 %**
Liquid Limit: (LL)	**30**
Plastic Limit: (PL)	**18**
Plasticity Index: (PI)	**12**

Note: The sample was received in a natural state. The plasticity index material tested was the fraction passing the 425 µm test sieve.

Notes:

- *USBR unified soil classification: figure 3-1*
- *Information contained in this report which is Not IANZ Accredited relates to the sample description based on NZ Geotechnical Society Guidelines 2005, the client supplied information (cs) and sampling.*
- *This report may not be reproduced except in full.*

Tested By: J. Smith & L.T. Smith **Date:** 3 to 9-Oct-24

Checked By:

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Reference No: CTS24W1705-4

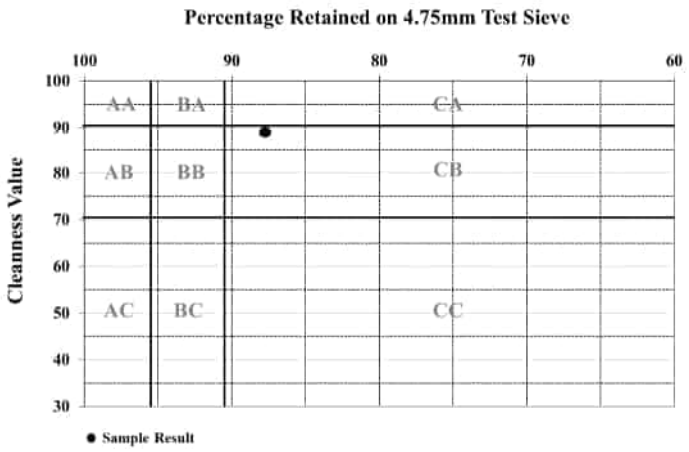
Date: 21 October 2024

TEST REPORT – SANTANA MINERALS INVESTIGATIONS

Client Details:	**Santana Minerals Limited, P.O. Box 11, Hokitika**	**Attention:**	**R. Redden**
Job Description:	**Santana Minerals Investigations**		
Sample Description:	**Scalp cobbles / boulders from sample greater than 60mm diameter**		
Sample Source: [cs]	**MG 41764 Material**	**Sample Label No:**	**N/A**
Date & Time Sampled:	**Unknown**	**Sampled By:**	**Unknown**
Sample Method:	**Unknown**	**Date Received:**	**30-Aug-24**

CRUSHING RESISTANCE - NZS 4407:2015, Test 3.10	
Specified Load:	**130 kN**
% Passing 2.36 mm Test Sieve:	**6.5**
Crushing Resistance Compliance:	**Greater Than Specified Load**
Estimated Crushing Resistance:	**170 kN**
[1] The estimated crushing resistance is a derived result from NZS 3111:1986, Test 14. IANZ endorsement does not apply to this value.	

WEATHERING RESISTANCE (NZS 4407:2015, Test 3.11)	
% Retained on 4.75 mm Test Sieve:	**88**
Cleanness Value:	**89**
Weathering Resistance Quality Index:	**CB**



Additional Notes:

- *Information contained in this report which is Not IANZ Accredited relates to the estimated crushing resistance, the sample description based on NZ Geotechnical Society Guidelines 2005, the client supplied information [cs] and sampling.*
- *This report may not be reproduced except in full.*

Tested By: L.T. Smith, V. Fawcett & C. Julius **Date:** 27-Sep to 14-Oct-24 **Checked By:**

Approved Signatory

L.T. Smith
Key Technical Personnel

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Reference No: CTS24W1705-3

Date: 11 November 2024

TEST REPORT – SANTANA MINERALS INVESTIGATIONS

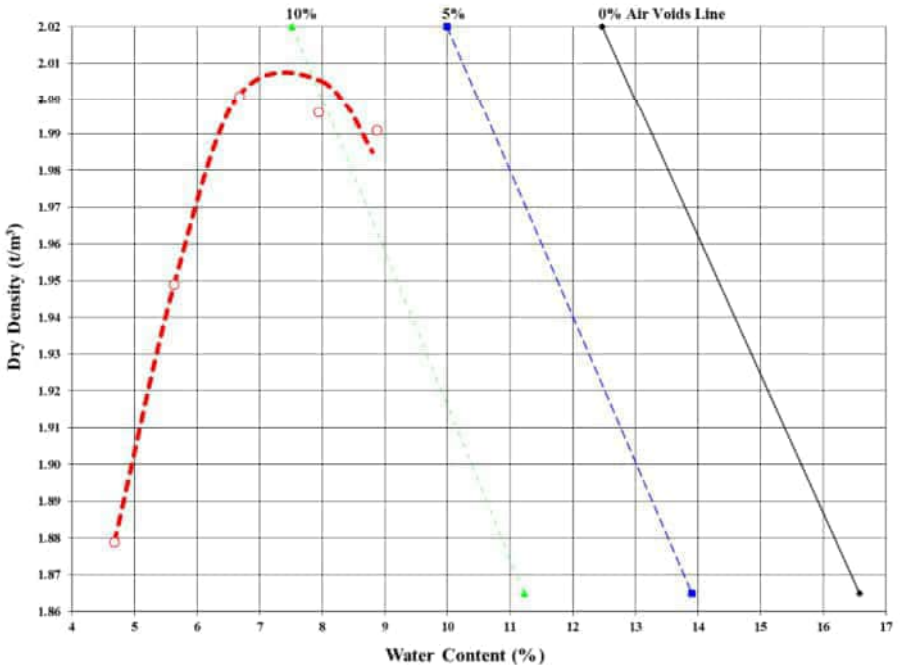
Client Details:	**Santana Minerals Limited, P.O. Box 11, Hokitika**	**Attention:**	**R. Redden**
Job Description:	**Santana Minerals Investigations**		
Sample Description:	**Sandy GRAVEL with minor silt & minor clay**	**Sample No: (cs)**	**MG41761**
Sample Source: (cs)	**Cherri Terrace**	**Sample Location: (cs)**	**5019008 - 1314005**
Date & Time Sampled:	**Unknown**	**Sampled By:**	**Unknown**
Sample Method:	**Unknown**	**Date Received:**	**30-Aug-24**

NZ STANDARD COMPACTION - NZS 4402:1986, Test 4.1.1
DRY DENSITY & ABSORPTION - NZS 3111:1986, Test 12

% Retained (+19.0mm Fraction)	**13.0 %**
Dry Density: (+19.0mm Fraction)	**2.53 t/m^3**
Absorption (+19.0mm Fraction)	**2.1 %**
Solid Density: (-19.0mm Fraction)	**2.70 t/m^3**
Maximum Dry Density: (-19.0mm Fraction)	**2.01 t/m^3**
Optimum Water Content: (-19.0mm Fraction)	**7.5 %**

Notes:

- *The sample was received in a natural state.*
- *The material tested in the NZ Standard Compaction test was the fraction passing a 19.0mm test sieve.*
- *The air voids lines were calculated from the tested solid density above.*



Notes:

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Tested By: J. Smith & L.T. Smith **Date:** 3 to 9-Oct-24

Checked By:

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Reference No: CTS24W1705-3

Date: 11 November 2024

TEST REPORT – SANTANA MINERALS INVESTIGATIONS

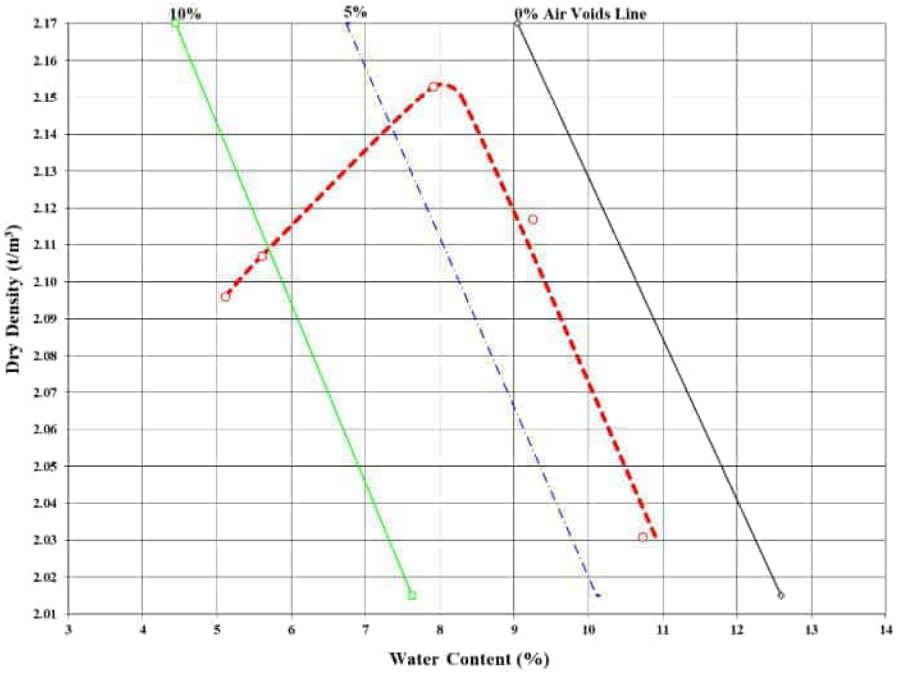
Client Details:	**Santana Minerals Limited, P.O. Box 11, Hokitika**	**Attention:**	**R. Redden**
Job Description:	**Santana Minerals Investigations**		
Sample Description:	**Sandy GRAVEL with minor silt & minor clay**	**Sample No: (cs)**	**MG41761**
Sample Source: (cs)	**Cherri Terrace**	**Sample Location: (cs)**	**5019008 - 1314005**
Date & Time Sampled:	**Unknown**	**Sampled By:**	**Unknown**
Sample Method:	**Unknown**	**Date Received:**	**30-Aug-24**

NZ HEAVY COMPACTION - NZS 4402:1986, Test 4.1.2
DRY DENSITY & ABSORPTION - NZS 3111:1986, Test 12

% Retained (+19.0mm Fraction)	**13.0 %**
Dry Density: (+19.0mm Fraction)	**2.53 t/m³**
Absorption (+19.0mm Fraction)	**2.1 %**
Solid Density: (-19.0mm Fraction)	**2.70 t/m³**
Maximum Dry Density: (-19.0mm Fraction)	**2.15 t/m³**
Optimum Water Content: (-19.0mm Fraction)	**8.0 %**

Notes:

- *The sample was received in a natural state.*
- *The material tested in the NZ Heavy Compaction test was the fraction passing a 19.0mm test sieve.*
- *The air voids lines were calculated from the tested solid density above.*



Notes:

- *Information contained in this report which is Not IANZ Accredited relates to the sample description based on NZ Geotechnical Society Guidelines 2005, the client supplied information (cs) and sampling.*
- *This report may not be reproduced except in full.*

Tested By: **J. Smith & L.T. Smith** **Date:** **3 to 9-Oct-24**

Checked By:

Approved Signatory

L.T. Smith
Key Technical Personnel

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Reference No: CTS24W1705-5

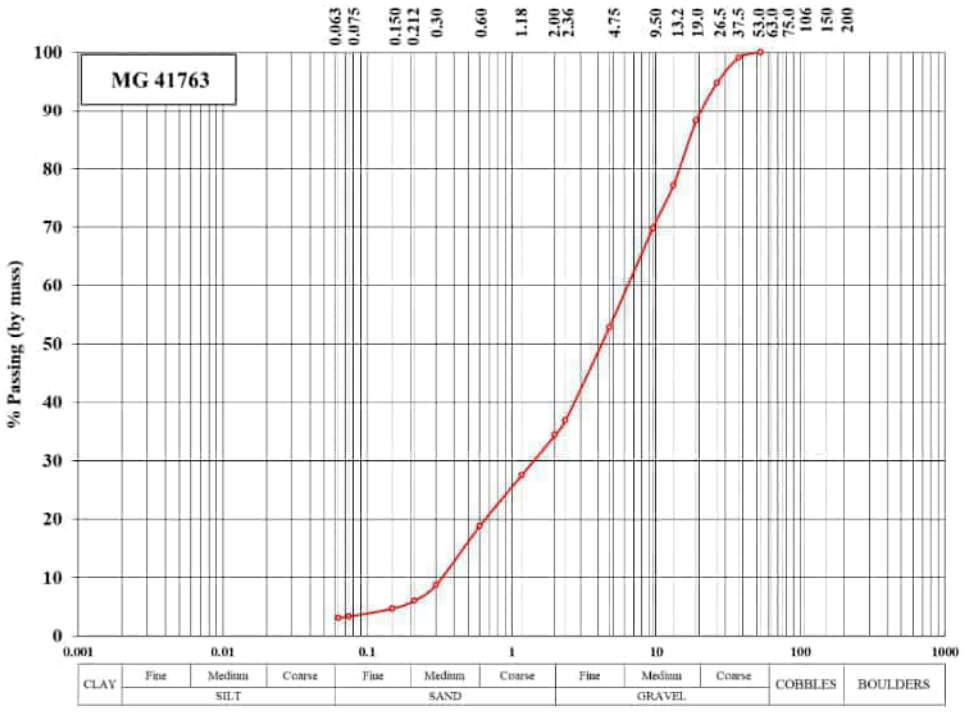
Date: 11 November 2024

TEST REPORT – SANTANA MINERALS INVESTIGATIONS

Client Details:	**Santana Minerals Limited, P.O. Box 11, Hokitika**	**Attention:**	**R. Redden**
Job Description:	**Santana Minerals Investigations**		
Sample Description:	**Sandy GRAVEL with trace of silt**	**Sample No: (cs)**	**MG41763**
Sample Source: (cs)	**Bendigo Borrow - Terrace Gravel Fines**	**Sample Location: (cs)**	**5019711 - 1310561**
Date & Time Sampled:	**Unknown**	**Sampled By:**	**Unknown**
Sample Method:	**Unknown**	**Date Received:**	**30-Aug-24**

PARTICLE SIZE ANALYSIS (NZS 4402:1986, Test 2.8.1)

Test Sieve (mm)	% Passing (by mass)
53.0	100
37.5	99
26.5	95
19.0	88
13.2	77
9.50	70
4.75	53
2.36	37
2.00	34
1.18	28
0.60	19
0.30	9
0.212	6
0.150	5
0.075	3
0.063	3



The sample was received in a natural state. The percentage passing the 63µm test sieve was obtained by difference. .

WATER CONTENT & PLASTICITY INDEX RESULTS - NZS 4402:1986, Test 2.1, 2.2, 2.3 & 2.4	
Water Content: ("All In" As Received)	**3.4 %**
Liquid Limit: (LL)	**Not Applicable (NA)**
Plastic Limit: (PL)	**Non - Plastic (NP)**
Plasticity Index: (PI)	**Non - Plastic (NP)**
Note: The sample was received in a natural state. The plasticity index material tested was the fraction passing the 425 µm test sieve.	

Notes:

- *Information contained in this report which is Not IANZ Accredited relates to the sample description based on NZ Geotechnical Society Guidelines 2005, the client supplied information (cs) and sampling.*
- *This report may not be reproduced except in full.*

Tested By: T. Shaw, K. Hedges & L.T. Smith **Date:** 24 to 31-Oct-24

Checked By:

Approved Signatory

L.T. Smith
Key Technical Personnel

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Reference No: CTS24W1705-6

Date: 15 November 2024

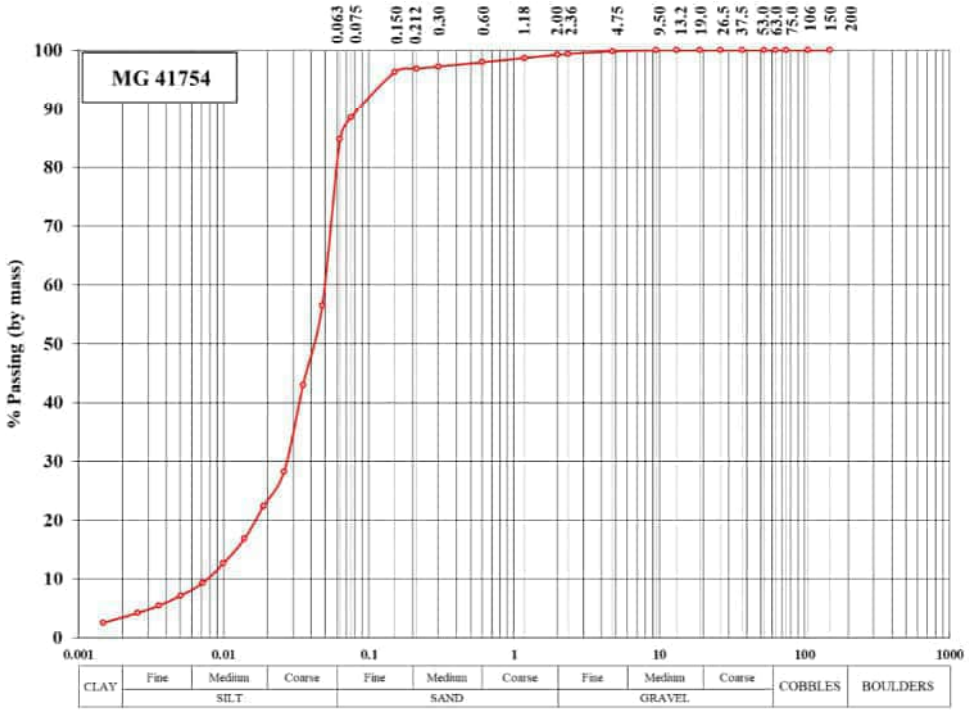
TEST REPORT – SANTANA MINERALS INVESTIGATIONS

Client Details:	**Santana Minerals Limited, P.O. Box 11, Hokitika**	**Attention:**	**R. Redden**
Job Description:	**Santana Minerals Investigations**		
Sample Description:	**SILT with some sand, trace of clay & trace of gravel**	**Sample No: (cs)**	**MG 41754**
Sample Source: (cs)	**Loess**	**Sample Location: (cs)**	**5016805 - 1317923**
Date & Time Sampled:	**Unknown**	**Sampled By:**	**Unknown**
Sample Method:	**Unknown**	**Date Received:**	**30-Aug-24**

PARTICLE SIZE ANALYSIS (NZS 4402:1986, Test 2.8.1 & 2.8.4)

Test Sieve (mm)	% Passing (by mass)
53.0	
37.5	
26.5	
19.0	
13.2	
9.50	
4.75	100
2.36	99
2.00	99
1.18	99
0.60	98
0.30	97
0.212	97
0.150	96
0.075	89
0.063	85

Fraction Size	Interpolated % Passing
60 µm	79
20 µm	23
6 µm	8
2 µm	3



The sample was received in a natural state. The percentage passing the 63µm test sieve was obtained by difference. The pH of the hydrometer suspension was 9.5. Sodium hexametaphosphate was used as a dispersant.

PARTICLE SIZE ANALYSIS & HYDROMETER ANALYSIS RESULTS - NZS 4402:1986, Test 2.8.1 & 2.8.4

Description	Fraction Range	% Within Range	Description	Fraction Range	% Within Range
Coarse Gravel	60.0 mm to 20.0 mm	-	Fine Sand	200 µm to 60 µm	18
Medium Gravel	20.0 mm to 6.0 mm	-	Coarse Silt	60 µm to 20 µm	56
Fine Gravel	6.0 mm to 2.00 mm	1	Medium Silt	20 µm to 6 µm	15
Coarse Sand	2.00 mm to 600 µm	1	Fine Silt	6 µm to 2 µm	5
Medium Sand	600 µm to 200 µm	1	Clay	< 2 µm	3

WATER CONTENT & PLASTICITY INDEX RESULTS - NZS 4402:1986, Test 2.1, 2.2, 2.3 &2.4

Water Content: ("All In" As Received)	**2.0 %**
Liquid Limit: (LL)	**Not Applicable (NA)**
Plastic Limit: (PL)	**Non - Plastic (NP)**
Plasticity Index: (PI)	**Non - Plastic (NP)**

Note: The sample was received in a natural state. The plasticity index material tested was the fraction passing the 425 µm test sieve.

Notes:

- *Information contained in this report which is Not IANZ Accredited relates to the sample description based on NZ Geotechnical Society Guidelines 2005, the client supplied information (cs) and sampling.*
- *This report may not be reproduced except in full.*

Tested By: T. S, K.H, M.D, V.F & L.T.S **Date:** 24-Oct-24 to 14-Nov-24

Checked By:

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Reference No: CTS24W1705-6

Date: 15 November 2024

TEST REPORT – SANTANA MINERALS INVESTIGATIONS

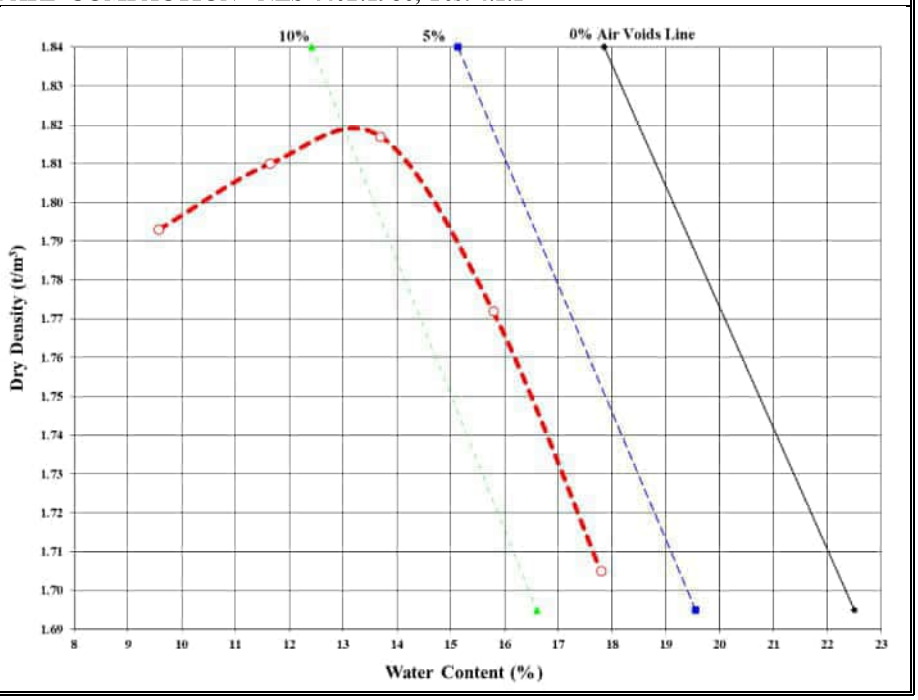
Client Details:	**Santana Minerals Limited, P.O. Box 11, Hokitika**	**Attention:**	**R. Redden**
Job Description:	**Santana Minerals Investigations**		
Sample Description:	**SILT with some sand, trace of clay & trace of gravel**	**Sample No: (cs)**	**MG 41754**
Sample Source: (cs)	**Loess**	**Sample Location: (cs)**	**5016805 - 1317923**
Date & Time Sampled:	**Unknown**	**Sampled By:**	**Unknown**
Sample Method:	**Unknown**	**Date Received:**	**30-Aug-24**

NZ STANDARD COMPACTION - NZS 4402:1986, Test 4.1.1

% Retained (+19.0mm Fraction)	**0.0 %**
Solid Density: (-19.0mm Fraction)	**2.74 t/m³**
Maximum Dry Density:	**1.82 t/m³**
Optimum Water Content:	**13.0 %**

Notes:

- *The sample was received in a natural state.*
- *The material tested in the NZ Standard Compaction test was whole soil.*
- *The air voids lines were calculated from the tested solid density above.*



Notes:

- *Information contained in this report which is Not IANZ Accredited relates to the sample description based on NZ Geotechnical Society Guidelines 2005, the client supplied information (cs) and sampling.*
- *This report may not be reproduced except in full.*

Tested By: T. S, K.H, M.D, V.F & L.T.S **Date:** 24-Oct-24 to 14-Nov-24

Checked By:

ACCREDITED IANZ TESTING LABORATORY №434

Test results indicated as not accredited are outside the scope of the laboratory's accreditation

Central Testing Services
18 Ngapara St, P.O. Box 397, Alexandra 9340, Central Otago, New Zealand
P: 03 4487644, W: www.centraltesting.co.nz, E: info@centraltesting.co.nz

Reference No: CTS24W1705-6

Date: 15 November 2024

TEST REPORT – SANTANA MINERALS INVESTIGATIONS

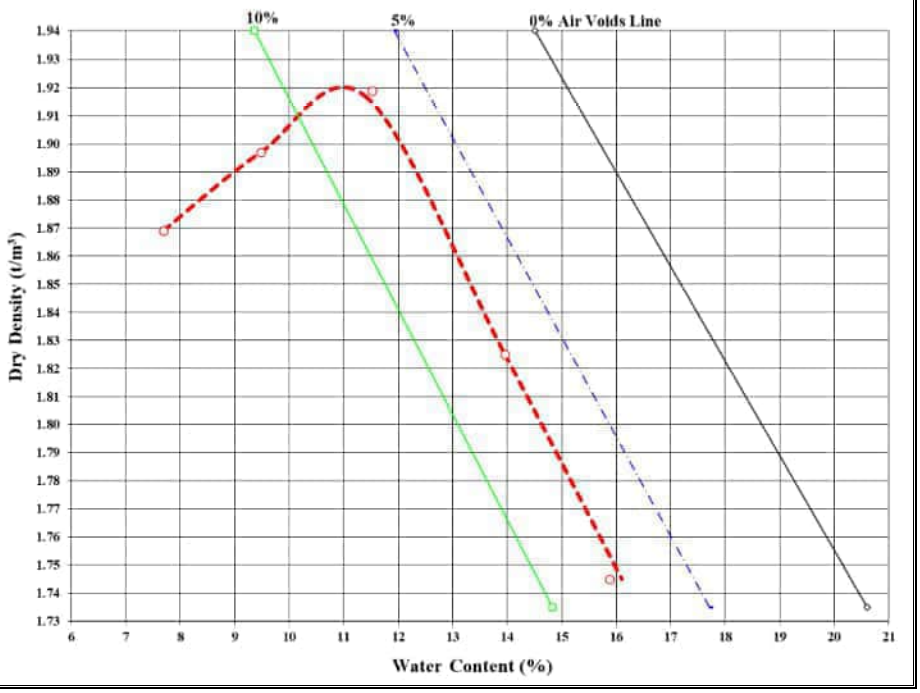
Client Details:	**Santana Minerals Limited, P.O. Box 11, Hokitika**	**Attention:**	**R. Redden**
Job Description:	**Santana Minerals Investigations**		
Sample Description:	**SILT with some sand, trace of clay & trace of gravel**	**Sample No: (cs)**	**MG 41754**
Sample Source: (cs)	**Loess**	**Sample Location: (cs)**	**5016805 - 1317923**
Date & Time Sampled:	**Unknown**	**Sampled By:**	**Unknown**
Sample Method:	**Unknown**	**Date Received:**	**30-Aug-24**

NZ HEAVY COMPACTION - NZS 4402:1986, Test 4.1.2

% Retained (+19.0mm Fraction)	**0.0 %**
Solid Density: (-19.0mm Fraction)	**2.74 t/m³**
Maximum Dry Density: (-19.0mm Fraction)	**1.92 t/m³**
Optimum Water Content: (-19.0mm Fraction)	**11.0 %**

Notes:

- *The sample was received in a natural state.*
- *The material tested in the NZ Heavy Compaction test was whole soil.*
- *The air voids lines were calculated from the tested solid density above.*



Notes:

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Tested By: T. S, K.H, M.D, V.F & L.T.S **Date:** 24-Oct-24 to 14-Nov-24

Checked By:

Approved Signatory

N.P. Danischewski
Key Technical Personnel

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Reference No: CTS24W1705-7

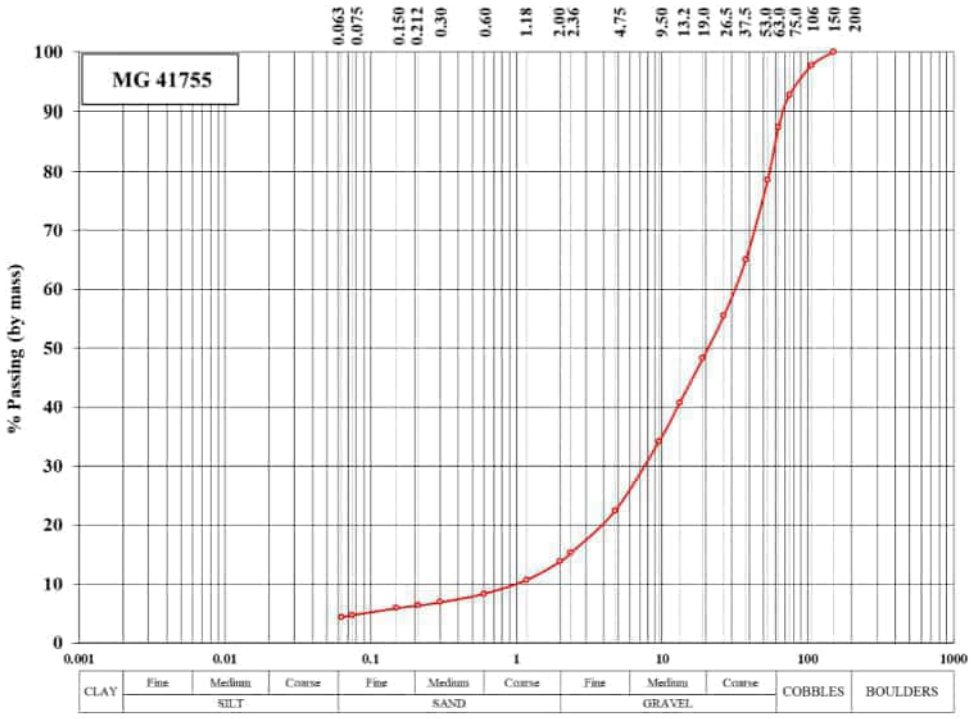
Date: 25 November 2024

TEST REPORT – SANTANA MINERALS INVESTIGATIONS

Client Details:	**Santana Minerals Limited, P.O. Box 11, Hokitika**	**Attention:**	**R. Redden**
Job Description:	**Santana Minerals Investigations**		
Sample Description:	**GRAVEL with some cobbles, minor sand & trace of silt**	**Sample No: (cs)**	**MG 41755**
Sample Source: (cs)	**Weathered brown schist x2**	**Sample Location: (cs)**	**5017377 - 1317920**
Date & Time Sampled:	**Unknown**	**Sampled By:**	**Unknown**
Sample Method:	**Unknown**	**Date Received:**	**30-Aug-24**

PARTICLE SIZE ANALYSIS (NZS 4402:1986, Test 2.8.1)

Test Sieve (mm)	% Passing (by mass)
150.0	100
106.0	98
75.0	93
63.0	88
53.0	79
37.5	65
26.5	56
19.0	48
13.2	41
9.50	34
4.75	22
2.36	15
2.00	14
1.18	11
0.60	8
0.30	7
0.212	6
0.150	6
0.075	5
0.063	4



The sample was received in a natural state. The percentage passing the 63µm test sieve was obtained by difference.

WATER CONTENT & PLASTICITY INDEX RESULTS - NZS 4402:1986, Test 2.1, 2.2, 2.3 &2.4	
Water Content: ("All In" As Received)	**1.2 %**
Liquid Limit: (LL)	**31**
Plastic Limit: (PL)	**27**
Plasticity Index: (PI)	**4**
Note: The sample was received in a natural state. The plasticity index material tested was the fraction passing the 425 µm test sieve.	

Notes:

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Tested By: T. Shaw, K. Hedges, L.T. Smith & V. Fawcett **Date:** 6 to 18-Nov-24

Checked By:

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Reference No: CTS24W1705-7

Date: 25 November 2024

TEST REPORT – SANTANA MINERALS INVESTIGATIONS

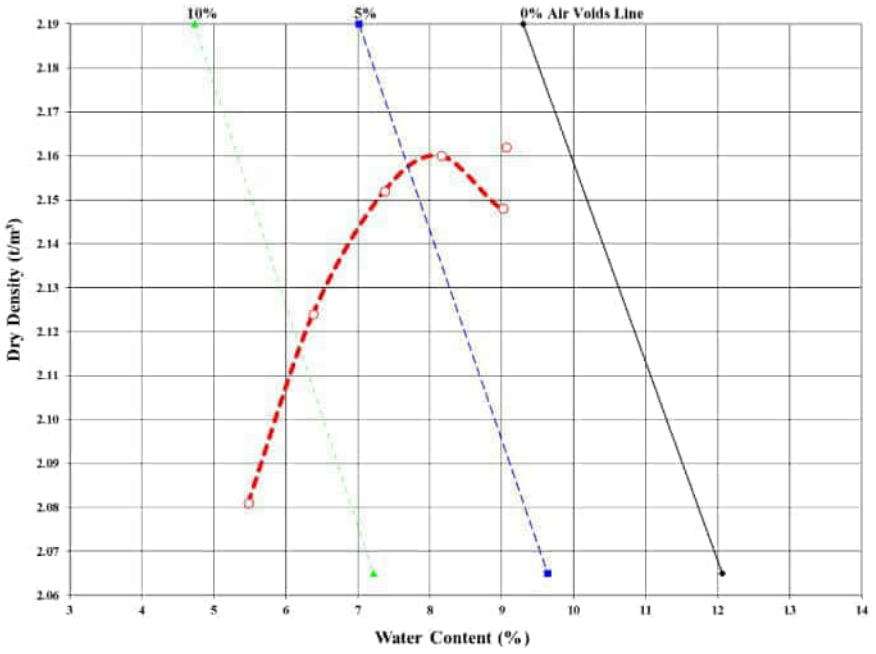
Client Details:	**Santana Minerals Limited, P.O. Box 11, Hokitika**	**Attention:**	**R. Redden**
Job Description:	**Santana Minerals Investigations**		
Sample Description:	**GRAVEL with some cobbles, minor sand & trace of silt**	**Sample No: (cs)**	**MG 41755**
Sample Source: (cs)	**Weathered brown schist x2**	**Sample Location: (cs)**	**5017377 - 1317920**
Date & Time Sampled:	**Unknown**	**Sampled By:**	**Unknown**
Sample Method:	**Unknown**	**Date Received:**	**30-Aug-24**

NZ STANDARD COMPACTION - NZS 4402:1986, Test 4.1.1
DRY DENSITY & ABSORPTION - NZS 3111:1986, Test 12

% Retained (+19.0mm Fraction)	**52.0 %**
Dry Density: (+19.0mm Fraction)	**2.60 t/m³**
Absorption (+19.0mm Fraction)	**2.3 %**
Solid Density: (-19.0mm Fraction)	**2.72 t/m³**
Maximum Dry Density: (-19.0mm Fraction)	**2.16 t/m³**
Optimum Water Content: (-19.0mm Fraction)	**8.0 %**

Notes:

- *The sample was received in a natural state.*
- *The material tested in the NZ Standard Compaction test was the fraction passing a 19.0mm test sieve.*
- *The air voids lines were calculated from the tested solid density above.*



Notes:

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Tested By: T. Shaw, K. Hedges, L.T. Smith & V. Fawcett **Date:** 6 to 18-Nov-24

Checked By:

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Reference No: CTS24W1705-7

Date: 25 November 2024

TEST REPORT – SANTANA MINERALS INVESTIGATIONS

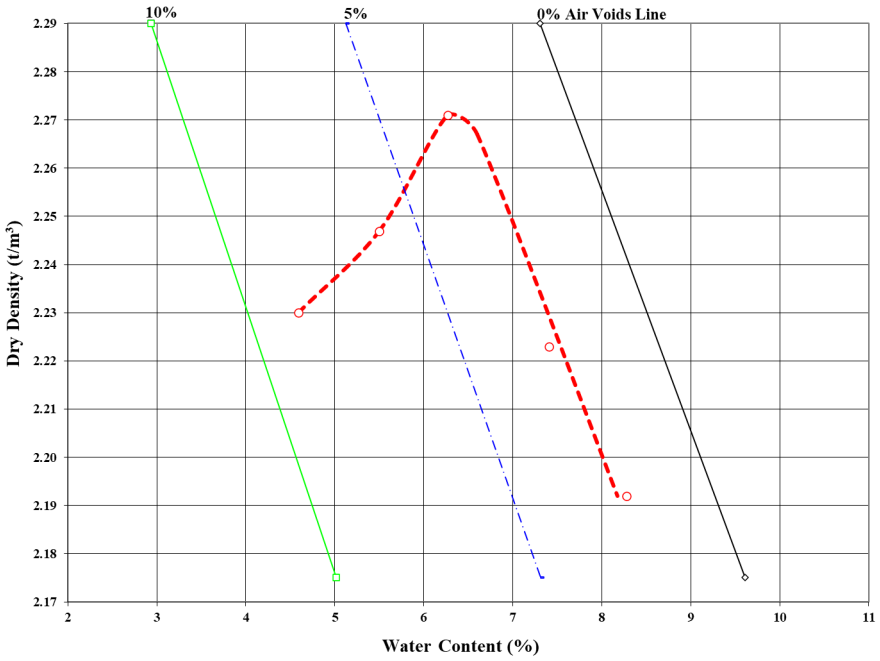
Client Details:	**Santana Minerals Limited, P.O. Box 11, Hokitika**	**Attention:**	**R. Redden**
Job Description:	**Santana Minerals Investigations**		
Sample Description:	**GRAVEL with some cobbles, minor sand & trace of silt**	**Sample No: (cs)**	**MG 41755**
Sample Source: (cs)	**Weathered brown schist x2**	**Sample Location: (cs)**	**5017377 - 1317920**
Date & Time Sampled:	**Unknown**	**Sampled By:**	**Unknown**
Sample Method:	**Unknown**	**Date Received:**	**30-Aug-24**

NZ HEAVY COMPACTION - NZS 4402:1986, Test 4.1.2
DRY DENSITY & ABSORPTION - NZS 3111:1986, Test 12

% Retained (+19.0mm Fraction)	**52.0 %**
Dry Density: (+19.0mm Fraction)	**2.60 t/m³**
Absorption (+19.0mm Fraction)	**2.3 %**
Solid Density: (-19.0mm Fraction)	**2.72 t/m³**
Maximum Dry Density: (-19.0mm Fraction)	**2.27 t/m³**
Optimum Water Content: (-19.0mm Fraction)	**6.5 %**

Notes:

- *The sample was received in a natural state.*
- *The material tested in the NZ Heavy Compaction test was the fraction passing a 19.0mm test sieve.*
- *The air voids lines were calculated from the tested solid density above.*



Notes:

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Tested By: T. Shaw, K. Hedges, L.T. Smith & V. Fawcett **Date:** 6 to 18-Nov-24

Checked By:

Approved Signatory

L.T. Smith
Key Technical Personnel

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P: 03 4487644, W: www.centraltesting.co.nz, E: info@centraltesting.co.nz

Reference No: CTS24W1705-8

Date: 25 November 2024

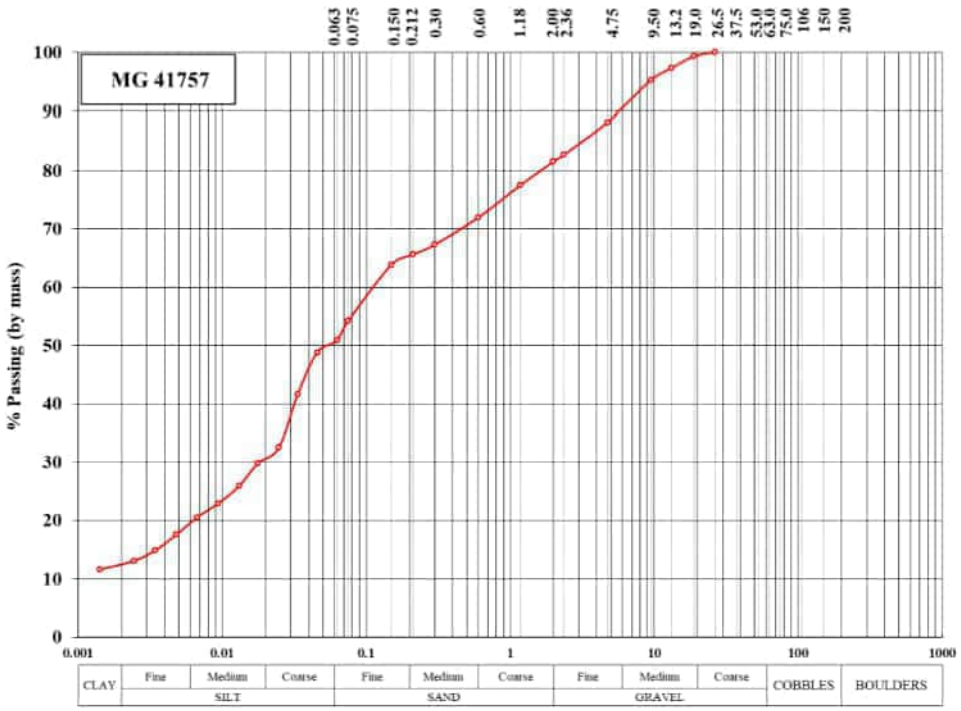
TEST REPORT – SANTANA MINERALS INVESTIGATIONS

Client Details:	**Santana Minerals Limited, P.O. Box 11, Hokitika**	**Attention:**	**R. Redden**
Job Description:	**Santana Minerals Investigations**		
Sample Description:	**Sandy SILT with some gravel & some clay, organics present**	**Sample No: (cs)**	**MG 41757**
Sample Source: (cs)	**Topsoil x3**	**Sample Location: (cs)**	**5017501 - 1317967**
Date & Time Sampled:	**Unknown**	**Sampled By:**	**Unknown**
Sample Method:	**Unknown**	**Date Received:**	**30-Aug-24**

PARTICLE SIZE ANALYSIS (NZS 4402:1986, Test 2.8.1 & 2.8.4)

Test Sieve (mm)	% Passing (by mass)
53.0	
37.5	
26.5	100
19.0	99
13.2	97
9.50	95
4.75	88
2.36	83
2.00	82
1.18	77
0.60	72
0.30	67
0.212	66
0.150	64
0.075	54
0.063	51

Fraction Size	Interpolated % Passing
60 µm	51
20 µm	31
6 µm	19
2 µm	12



The sample was received in a natural state. The percentage passing the 63µm test sieve was obtained by difference. The pH of the hydrometer suspension was 9.5. Sodium hexametaphosphate was used as a dispersant.

PARTICLE SIZE ANALYSIS & HYDROMETER ANALYSIS RESULTS - NZS 4402:1986, Test 2.8.1 & 2.8.4

Description	Fraction Range	% Within Range	Description	Fraction Range	% Within Range
Coarse Gravel	60.0 mm to 20.0 mm	1	Fine Sand	200 µm to 60 µm	14
Medium Gravel	20.0 mm to 6.0 mm	9	Coarse Silt	60 µm to 20 µm	20
Fine Gravel	6.0 mm to 2.00 mm	8	Medium Silt	20 µm to 6 µm	12
Coarse Sand	2.00 mm to 600 µm	10	Fine Silt	6 µm to 2 µm	7
Medium Sand	600 µm to 200 µm	7	Clay	< 2 µm	12

WATER CONTENT, SOLID DENSITY & ORGANIC CONTENT RESULTS - NZS 4402:1986, Test 2.1, 2.7.1 & 3.1.2

Water Content: ("All In" As Received)	**20.7 %**
Solid Density:	**2.61 t/m^3**
Organic Content:	**1.66 %**
Note: The sample was received in a natural state.	

Notes:

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- *This report may not be reproduced except in full.*

Tested By: K. Hedges, V. Fawcett, L.T. Smith & C. Henderson **Date:** 6 to 14-Nov-24

Checked By:
Approved Signatory

L.T. Smith
Key Technical Personnel

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Reference No: CTS24W1705-7

Date: 25 November 2024

TEST REPORT – SANTANA MINERALS INVESTIGATIONS

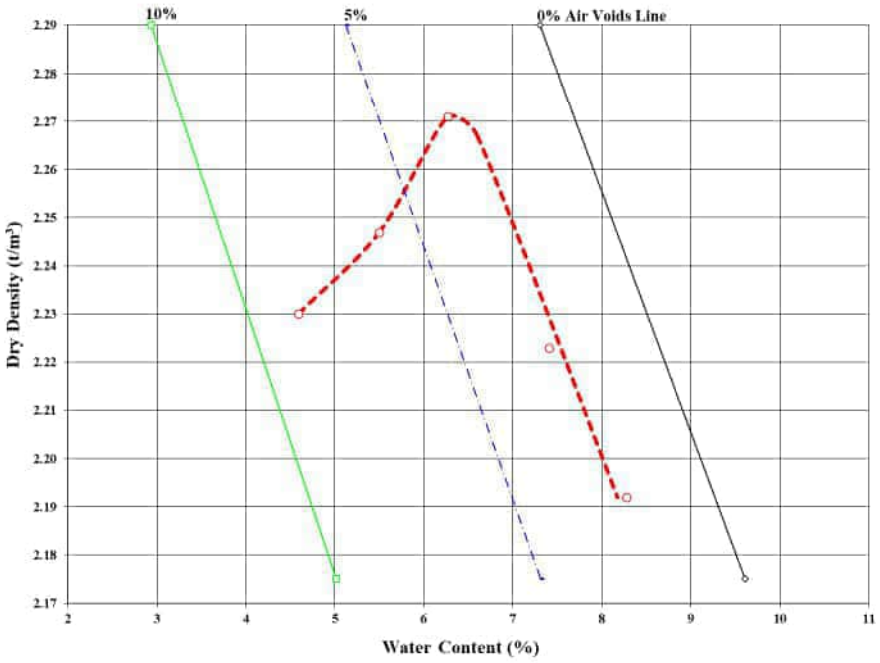
Client Details:	**Santana Minerals Limited, P.O. Box 11, Hokitika**	**Attention:**	**R. Redden**
Job Description:	**Santana Minerals Investigations**		
Sample Description:	**GRAVEL with some cobbles, minor sand & trace of silt**	**Sample No: (cs)**	**MG 41755**
Sample Source: (cs)	**Weathered brown schist x2**	**Sample Location: (cs)**	**5017377 - 1317920**
Date & Time Sampled:	**Unknown**	**Sampled By:**	**Unknown**
Sample Method:	**Unknown**	**Date Received:**	**30-Aug-24**

NZ HEAVY COMPACTION - NZS 4402:1986, Test 4.1.2
DRY DENSITY & ABSORPTION - NZS 3111:1986, Test 12

% Retained (+19.0mm Fraction)	**52.0 %**
Dry Density: (+19.0mm Fraction)	**2.60 t/m^3**
Absorption (+19.0mm Fraction)	**2.3 %**
Solid Density: (-19.0mm Fraction)	**2.72 t/m^3**
Maximum Dry Density: (-19.0mm Fraction)	**2.27 t/m^3**
Optimum Water Content: (-19.0mm Fraction)	**6.5 %**

Notes:

- *The sample was received in a natural state.*
- *The material tested in the NZ Heavy Compaction test was the fraction passing a 19.0mm test sieve.*
- *The air voids lines were calculated from the tested solid density above.*



Notes:

- *Information contained in this report which is Not IANZ Accredited relates to the sample description based on NZ Geotechnical Society Guidelines 2005, the client supplied information (cs) and sampling.*
- *This report may not be reproduced except in full.*

Tested By: T. Shaw, K. Hedges, L.T. Smith & V. Fawcett **Date:** 6 to 18-Nov-24

Checked By:

Approved Signatory

L.T. Smith
Key Technical Personnel

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Reference No: CTS24W1705-9

Date: 25 November 2024

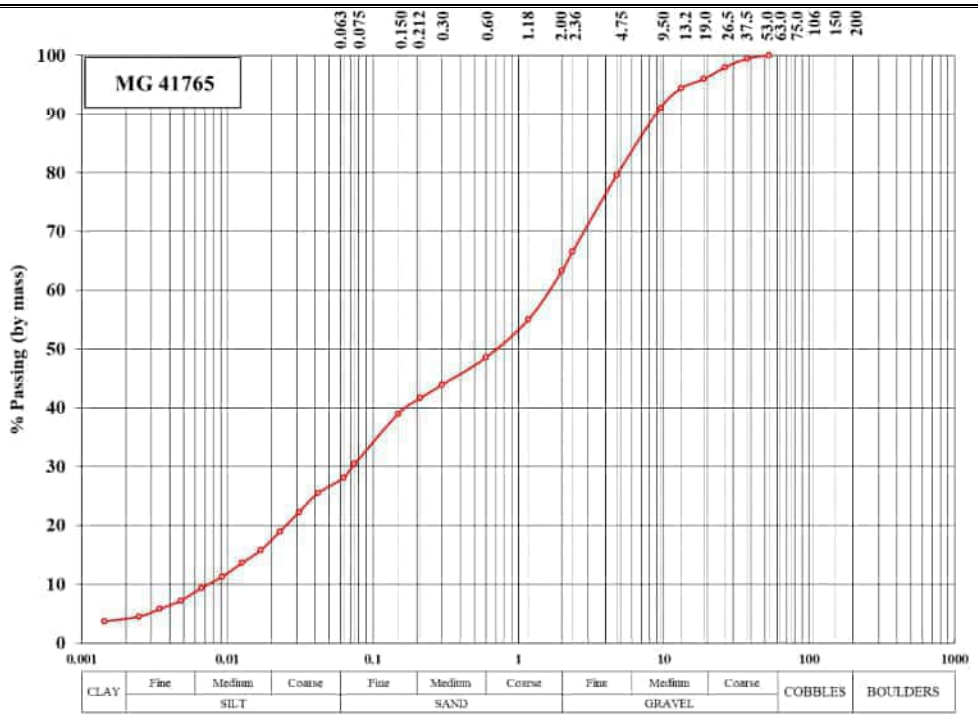
TEST REPORT – SANTANA MINERALS INVESTIGATIONS

Client Details:	**Santana Minerals Limited, P.O. Box 11, Hokitika**	**Attention:**	**R. Redden**
Job Description:	**Santana Minerals Investigations**		
Sample Description:	**Silty Sandy GRAVEL with trace of clay**	**Sample No: (cs)**	**MG 41765**
Sample Source: (cs)	**Alluvium / colluvium**	**Sample Location:**	**Not Stated**
Date & Time Sampled:	**Unknown**	**Sampled By:**	**Unknown**
Sample Method:	**Unknown**	**Date Received:**	**30-Aug-24**

PARTICLE SIZE ANALYSIS (NZS 4402:1986, Test 2.8.1 & 2.8.4)

Test Sieve (mm)	% Passing (by mass)
53.0	100
37.5	99
26.5	98
19.0	96
13.2	94
9.50	91
4.75	80
2.36	67
2.00	63
1.18	55
0.60	49
0.30	44
0.212	42
0.150	39
0.075	30
0.063	28

Fraction Size	Interpolated % Passing
60 µm	28
20 µm	17
6 µm	9
2 µm	4



The sample was received in a natural state. The percentage passing the 63µm test sieve was obtained by difference. The pH of the hydrometer suspension was 10.0. Sodium hexametaphosphate was used as a dispersant.

PARTICLE SIZE ANALYSIS & HYDROMETER ANALYSIS RESULTS - NZS 4402:1986, Test 2.8.1 & 2.8.4

Description	Fraction Range	% Within Range	Description	Fraction Range	% Within Range
Coarse Gravel	60.0 mm to 20.0 mm	4	Fine Sand	200 µm to 60 µm	13
Medium Gravel	20.0 mm to 6.0 mm	13	Coarse Silt	60 µm to 20 µm	11
Fine Gravel	6.0 mm to 2.00 mm	20	Medium Silt	20 µm to 6 µm	8
Coarse Sand	2.00 mm to 600 µm	14	Fine Silt	6 µm to 2 µm	5
Medium Sand	600 µm to 200 µm	8	Clay	< 2 µm	4

PLASTICITY INDEX RESULTS - NZS 4402:1986, Test 2.2, 2.3 &2.4

Liquid Limit: (LL)	**43**
Plastic Limit: (PL)	**34**
Plasticity Index: (PI)	**9**

Note: The sample was received in a natural state. The plasticity index material tested was the fraction passing the 425 µm test sieve.

Notes:

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Tested By: K. Hedges, V. Fawcett & L.T. Smith **Date:** 8 to 14-Nov-24

Checked By:

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Reference No: CTS24W1705-9

Date: 25 November 2024

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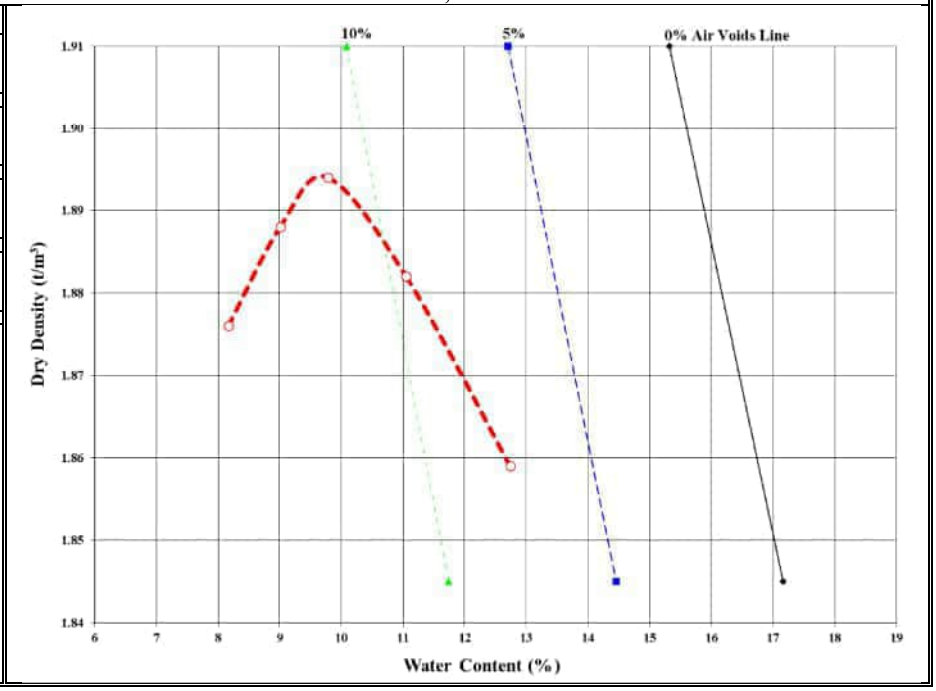
Client Details:	**Santana Minerals Limited, P.O. Box 11, Hokitika**	**Attention:**	**R. Redden**
Job Description:	**Santana Minerals Investigations**		
Sample Description:	**Silty Sandy GRAVEL with trace of clay**	**Sample No: (cs)**	**MG 41765**
Sample Source: (cs)	**Alluvium / colluvium**	**Sample Location:**	**Not Stated**
Date & Time Sampled:	**Unknown**	**Sampled By:**	**Unknown**
Sample Method:	**Unknown**	**Date Received:**	**30-Aug-24**

NZ STANDARD COMPACTION - NZS 4402:1986, Test 4.1.1
DRY DENSITY & ABSORPTION - NZS 3111:1986, Test 12

% Retained (+19.0mm Fraction)	**4.0 %**
Solid Density: (-19.0mm Fraction)	**2.70 t/m^3**
Maximum Dry Density: (-19.0mm Fraction)	**1.89 t/m^3**
Optimum Water Content: (-19.0mm Fraction)	**10.0 %**

Notes:

- *The sample was received in a natural state.*
- *The material tested in the NZ Standard Compaction test was the fraction passing a 19.0mm test sieve.*
- *The air voids lines were calculated from the tested solid density above.*



Notes:

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Tested By: K. Hedges, V. Fawcett & L.T. Smith **Date:** 8 to 14-Nov-24

Checked By:

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Reference No: CTS24W1705-9

Date: 25 November 2024

TEST REPORT – SANTANA MINERALS INVESTIGATIONS

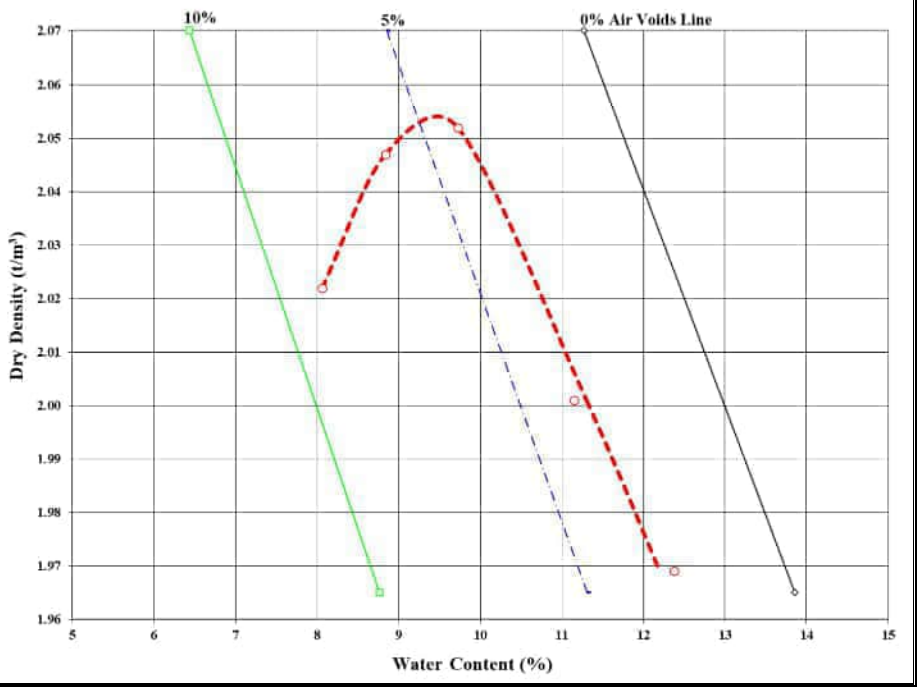
Client Details:	**Santana Minerals Limited, P.O. Box 11, Hokitika**	**Attention:**	**R. Redden**
Job Description:	**Santana Minerals Investigations**		
Sample Description:	**Silty Sandy GRAVEL with trace of clay**	**Sample No: (cs)**	**MG 41765**
Sample Source: (cs)	**Alluvium / colluvium**	**Sample Location:**	**Not Stated**
Date & Time Sampled:	**Unknown**	**Sampled By:**	**Unknown**
Sample Method:	**Unknown**	**Date Received:**	**30-Aug-24**

SOLID DENSITY & NZ HEAVY COMPACTION - NZS 4402:1986, Test 2.7.1 & 4.1.2

% Retained (+19.0mm Fraction)	**4.0 %**
Solid Density: (-19.0mm Fraction)	**2.70 t/m^3**
Maximum Dry Density: (-19.0mm Fraction)	**2.05 t/m^3**
Optimum Water Content: (-19.0mm Fraction)	**9.5 %**

Notes:

- *The sample was received in a natural state.*
- *The material tested in the NZ Heavy Compaction test was the fraction passing a 19.0mm test sieve.*
- *The air voids lines were calculated from the tested solid density above.*



Notes:

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- *This report may not be reproduced except in full.*

Tested By: K. Hedges, V. Fawcett & L.T. Smith **Date:** 8 to 14-Nov-24

Checked By:

Approved Signatory

L.T. Smith
Key Technical Personnel

ACCREDITED IANZ TESTING LABORATORY №434

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2026 EGL Laboratory Test Reuslts

Fine Content Test

GEOTECHNICS

Geotechnics Christchurch

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Wigram
Christchurch 8042
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christchurch@geotechnics.co.nz

Report Number	**1101330.0001.0.0/Rep 5**	**23-04-2026**
Test Schedule Reference	**NZG512_91**	

Customer Details

Customer	Matakanui Gold Limited
Address	PO Box 316, Cromwell, 9310
Project Name	MGL Process Plant SPT Samples
Project ID	N/A

Laboratory Test Report

Water content and Fines content - GEO190 (In-house method)

Customer Sample Details

Location	**ID**	PlantSPT1				
	Description	N/A				
	Data	E°: N/A	N°: N/A	Level: N/A	Chainage: N/A	Offset: N/A
Sample	**Geotechnics ID**	A3223	**Date Sampled**	09-04-2026		
	Reference	MDD498	**Depth From**	0.5 m	**to**	1.0 m
	Description	N/A				
Customer Instructions	N/A					

Test Results

Natural Water Content	2.8 %
Fines Content <75 µm Sieve	20.5 %
Fines Content <63 µm Sieve	N/A
Date Tested	24-04-2026

Test Remarks

- Condition of the sample as received: Natural.
- The sample used for testing: Whole Sample.
- Laboratory Description: Silty gravelly SAND, brown. Dry.

General Remarks

- Samples have been tested as received and according to your instructions. Results apply only to the sample(s) tested.
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Approved by KTP	Authorised by Project Director
	
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Report Number	**1101330.0001.0.0/Rep 4**	**23-04-2026**
Test Schedule Reference	**NZG512_91**	

Customer Details

Customer	Matakanui Gold Limited
Address	PO Box 316, Cromwell, 9310
Project Name	MGL Process Plant SPT Samples
Project ID	N/A

Laboratory Test Report

Water content and Fines content - GEO190 (In-house method)

Customer Sample Details

Location	**ID**	PlantSPT1				
	Description	N/A				
	Data	E°: N/A	N°: N/A	Level: N/A	Chainage: N/A	Offset: N/A
Sample	**Geotechnics ID**	A3224	**Date Sampled**	09-04-2026		
	Reference	MDD498	**Depth From**	1.5 m	**to**	2.0 m
	Description	N/A				
Customer Instructions	N/A					

Test Results

Natural Water Content	12.1 %
Fines Content <75 µm Sieve	28.6 %
Fines Content <63 µm Sieve	N/A
Date Tested	24-04-2026

Test Remarks

- Condition of the sample as received: Natural.
- The sample used for testing: Whole Sample.
- Laboratory Description: Silty gravelly SAND, greenish grey. Moist.

General Remarks

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Report Number	**1101330.0001.0.0/Rep 2**	**23-04-2026**
Test Schedule Reference	**NZG512_91**	

Customer Details

Customer	Matakanui Gold Limited
Address	PO Box 316, Cromwell, 9310
Project Name	MGL Process Plant SPT Samples
Project ID	N/A

Laboratory Test Report

Water content and Fines content - GEO190 (In-house method)

Customer Sample Details

Location	**ID**	PlantSPT1				
	Description	N/A				
	Data	E°: N/A	N°: N/A	Level: N/A	Chainage: N/A	Offset: N/A
Sample	**Geotechnics ID**	A3225	**Date Sampled**	09-04-2026		
	Reference	MDD498	**Depth From**	2.0 m	**to**	2.5 m
	Description	N/A				
Customer Instructions	N/A					

Test Results

Natural Water Content	5.9 %
Fines Content <75 µm Sieve	10.2 %
Fines Content <63 µm Sieve	N/A
Date Tested	24-04-2026

Test Remarks

- Condition of the sample as received: Natural.
- The sample used for testing: Whole Sample.
- Gravelly SAND with minor silt, grey. Moist.

General Remarks

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Report Number	**1101330.0001.0.0/Rep 34**	**27-04-2026**
Test Schedule Reference	**NZG512_91**	

Customer Details

Customer	Matakanui Gold Limited
Address	PO Box 316, Cromwell, 9310
Project Name	MGL Process Plant SPT Samples
Project ID	N/A

Laboratory Test Report

Water content and Fines content - GEO190 (In-house method)

Customer Sample Details

Location	**ID**	PlantSPT1				
	Description	N/A				
	Data	E°: N/A	N°: N/A	Level: N/A	Chainage: N/A	Offset: N/A
Sample	**Geotechnics ID**	A3226	**Date Sampled**	09-04-2026		
	Reference	MDD498	**Depth From**	3.0 m	**to**	3.5 m
	Description	N/A				
Customer Instructions	N/A					

Test Results

Natural Water Content	8.9 %
Fines Content <75 µm Sieve	18.2 %
Fines Content <63 µm Sieve	N/A
Date Tested	24-04-2026

Test Remarks

- Condition of the sample as received: Natural.
- The sample used for testing: Whole Sample.
- laboratory Description: Gravelly SAND with some silt, grey. Moist.

General Remarks

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Report Number	**1101330.0001.0.0/Rep 3**	**23-04-2026**
Test Schedule Reference	**NZG512_91**	

Customer Details

Customer	Matakanui Gold Limited
Address	PO Box 316, Cromwell, 9310
Project Name	MGL Process Plant SPT Samples
Project ID	N/A

Laboratory Test Report

Water content and Fines content - GEO190 (In-house method)

Customer Sample Details

Location	**ID**	PlantSPT1				
	Description	N/A				
	Data	E°: N/A	N°: N/A	Level: N/A	Chainage: N/A	Offset: N/A
Sample	**Geotechnics ID**	A3227	**Date Sampled**	09-04-2026		
	Reference	MDD498	**Depth From**	4.0 m	**to**	4.5 m
	Description	N/A				
Customer Instructions	N/A					

Test Results

Natural Water Content	6.6 %
Fines Content <75 µm Sieve	16.7 %
Fines Content <63 µm Sieve	N/A
Date Tested	24-04-2026

Test Remarks

- Condition of the sample as received: Natural.
- The sample used for testing: Whole Sample.
- laboratory Description: Gravelly SAND with some silt, grey. Moist.

General Remarks

- Samples have been tested as received and according to your instructions. Results apply only to the sample(s) tested.
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Report Number	**1101330.0001.0.0/Rep 1**	**23-04-2026**
Test Schedule Reference	**NZG512_91**	

Customer Details

Customer	Matakanui Gold Limited
Address	PO Box 316, Cromwell, 9310
Project Name	MGL Process Plant SPT Samples
Project ID	N/A

Laboratory Test Report

Water content and Fines content - GEO190 (In-house method)

Customer Sample Details

Location	**ID**	PlantSPT1				
	Description	N/A				
	Data	E°: N/A	N°: N/A	Level: N/A	Chainage: N/A	Offset: N/A
Sample	**Geotechnics ID**	A3228	**Date Sampled**	09-04-2026		
	Reference	MDD498	**Depth From**	5.0 m	**to**	5.5 m
	Description	N/A				
Customer Instructions	N/A					

Test Results

Natural Water Content	10.7 %
Fines Content <75 µm Sieve	15.4 %
Fines Content <63 µm Sieve	N/A
Date Tested	24-04-2026

Test Remarks

- Condition of the sample as received: Natural.
- The sample used for testing: Whole Sample.
- Gravelly SAND with some silt, brown. Moist.

General Remarks

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Report Number	**1101330.0001.0.0/Rep 6**	**24-04-2026**
Test Schedule Reference	**NZG512_91**	

Customer Details

Customer	Matakanui Gold Limited
Address	PO Box 316, Cromwell, 9310
Project Name	MGL Process Plant SPT Samples
Project ID	N/A

Laboratory Test Report

Water content and Fines content - GEO190 (In-house method)

Customer Sample Details

Location	**ID**	PlantSPT1				
	Description	N/A				
	Data	E°: N/A	N°: N/A	Level: N/A	Chainage: N/A	Offset: N/A
Sample	**Geotechnics ID**	A3229	**Date Sampled**	09-04-2026		
	Reference	MDD499	**Depth From**	0.5 m	**to**	1.0 m
	Description	N/A				
Customer Instructions	N/A					

Test Results

Natural Water Content	8.9 %
Fines Content <75 µm Sieve	26.5 %
Fines Content <63 µm Sieve	N/A
Date Tested	24-04-2026

Test Remarks

- Condition of the sample as received: Natural.
- The sample used for testing: Whole Sample.
- Silty gravelly SAND, grey. Moist.

General Remarks

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Report Number	**1101330.0001.0.0/Rep 7**	**24-04-2026**
Test Schedule Reference	**NZG512_91**	

Customer Details

Customer	Matakanui Gold Limited
Address	PO Box 316, Cromwell, 9310
Project Name	MGL Process Plant SPT Samples
Project ID	N/A

Laboratory Test Report

Water content and Fines content - GEO190 (In-house method)

Customer Sample Details

Location	**ID**	PlantSPT1				
	Description	N/A				
	Data	E°: N/A	N°: N/A	Level: N/A	Chainage: N/A	Offset: N/A
Sample	**Geotechnics ID**	A3230	**Date Sampled**	09-04-2026		
	Reference	MDD499	**Depth From**	1.5 m	**to**	2.0 m
	Description	N/A				
Customer Instructions	N/A					

Test Results

Natural Water Content	20.6 %
Fines Content <75 µm Sieve	30.5 %
Fines Content <63 µm Sieve	N/A
Date Tested	24-04-2026

Test Remarks

- Condition of the sample as received: Natural.
- The sample used for testing: Whole Sample.
- Silty SAND with some gravel, grey. Moist.

General Remarks

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Report Number	**1101330.0001.0.0/Rep 9**	**24-04-2026**
Test Schedule Reference	**NZG512_91**	

Customer Details

Customer	Matakanui Gold Limited
Address	PO Box 316, Cromwell, 9310
Project Name	MGL Process Plant SPT Samples
Project ID	N/A

Laboratory Test Report

Water content and Fines content - GEO190 (In-house method)

Customer Sample Details

Location	**ID**	PlantSPT1				
	Description	N/A				
	Data	E°: N/A	N°: N/A	Level: N/A	Chainage: N/A	Offset: N/A
Sample	**Geotechnics ID**	A3231	**Date Sampled**	09-04-2026		
	Reference	MDD499	**Depth From**	2.0 m	**to**	2.5 m
	Description	N/A				
Customer Instructions	N/A					

Test Results

Natural Water Content	10.1 %
Fines Content <75 µm Sieve	13.3 %
Fines Content <63 µm Sieve	N/A
Date Tested	24-04-2026

Test Remarks

- Condition of the sample as received: Natural.
- The sample used for testing: Whole Sample.
- Gravelly SAND with some silt, grey. Moist.

General Remarks

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Report Number	**1101330.0001.0.0/Rep 8**	**24-04-2026**
Test Schedule Reference	**NZG512_91**	

Customer Details

Customer	Matakanui Gold Limited
Address	PO Box 316, Cromwell, 9310
Project Name	MGL Process Plant SPT Samples
Project ID	N/A

Laboratory Test Report

Water content and Fines content - GEO190 (In-house method)

Customer Sample Details

Location	**ID**	PlantSPT1				
	Description	N/A				
	Data	E°: N/A	N°: N/A	Level: N/A	Chainage: N/A	Offset: N/A
Sample	**Geotechnics ID**	A3232	**Date Sampled**	09-04-2026		
	Reference	MDD499	**Depth From**	3.0 m	**to**	3.5 m
	Description	N/A				
Customer Instructions	N/A					

Test Results

Natural Water Content	8.5 %
Fines Content <75 µm Sieve	19.1 %
Fines Content <63 µm Sieve	N/A
Date Tested	24-04-2026

Test Remarks

- Condition of the sample as received: Natural.
- The sample used for testing: Whole Sample.
- Gravelly SAND with some silt, grey. Moist.

General Remarks

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Report Number	**1101330.0001.0.0/Rep 10**	**24-04-2026**
Test Schedule Reference	**NZG512_91**	

Customer Details

Customer	Matakanui Gold Limited
Address	PO Box 316, Cromwell, 9310
Project Name	MGL Process Plant SPT Samples
Project ID	N/A

Laboratory Test Report

Water content and Fines content - GEO190 (In-house method)

Customer Sample Details

Location	**ID**	PlantSPT1				
	Description	N/A				
	Data	E°: N/A	N°: N/A	Level: N/A	Chainage: N/A	Offset: N/A
Sample	**Geotechnics ID**	A3233	**Date Sampled**	09-04-2026		
	Reference	MDD499	**Depth From**	4.5 m	**to**	5.0 m
	Description	N/A				
Customer Instructions	N/A					

Test Results

Natural Water Content	13.6 %
Fines Content <75 µm Sieve	21.6 %
Fines Content <63 µm Sieve	N/A
Date Tested	24-04-2026

Test Remarks

- Condition of the sample as received: Natural.
- The sample used for testing: Whole Sample.
- Silty gravelly SAND, brown mixed with orange. Moist.

General Remarks

- Samples have been tested as received and according to your instructions. Results apply only to the sample(s) tested.
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Report Number	**1101330.0001.0.0/Rep 13**	**24-04-2026**
Test Schedule Reference	**NZG512_91**	

Customer Details

Customer	Matakanui Gold Limited
Address	PO Box 316, Cromwell, 9310
Project Name	MGL Process Plant SPT Samples
Project ID	N/A

Laboratory Test Report

Water content and Fines content - GEO190 (In-house method)

Customer Sample Details

Location	**ID**	PlantSPT1				
	Description	N/A				
	Data	E°: N/A	N°: N/A	Level: N/A	Chainage: N/A	Offset: N/A
Sample	**Geotechnics ID**	A3234	**Date Sampled**	09-04-2026		
	Reference	MDD500	**Depth From**	0.5 m	**to**	1.0 m
	Description	N/A				
Customer Instructions	N/A					

Test Results

Natural Water Content	6.2 %
Fines Content <75 µm Sieve	63.6 %
Fines Content <63 µm Sieve	N/A
Date Tested	24-04-2026

Test Remarks

- Condition of the sample as received: Natural.
- The sample used for testing: Whole Sample.
- Sandy SILT with minor gravel, brown. Dry.

General Remarks

- Samples have been tested as received and according to your instructions. Results apply only to the sample(s) tested.
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Report Number	**1101330.0001.0.0/Rep 11**	**24-04-2026**
Test Schedule Reference	**NZG512_91**	

Customer Details

Customer	Matakanui Gold Limited
Address	PO Box 316, Cromwell, 9310
Project Name	MGL Process Plant SPT Samples
Project ID	N/A

Laboratory Test Report

Water content and Fines content - GEO190 (In-house method)

Customer Sample Details

Location	**ID**	PlantSPT1				
	Description	N/A				
	Data	E°: N/A	N°: N/A	Level: N/A	Chainage: N/A	Offset: N/A
Sample	**Geotechnics ID**	A3235	**Date Sampled**	09-04-2026		
	Reference	MDD500	**Depth From**	1.5 m	**to**	2.0 m
	Description	N/A				
Customer Instructions	N/A					

Test Results

Natural Water Content	12.2 %
Fines Content <75 µm Sieve	31.7 %
Fines Content <63 µm Sieve	N/A
Date Tested	24-04-2026

Test Remarks

- Condition of the sample as received: Natural.
- The sample used for testing: Whole Sample.
- Silty gravelly SAND, grey. Dry.

General Remarks

- Samples have been tested as received and according to your instructions. Results apply only to the sample(s) tested.
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Report Number	**1101330.0001.0.0/Rep 12**	**24-04-2026**
Test Schedule Reference	**NZG512_91**	

Customer Details

Customer	Matakanui Gold Limited
Address	PO Box 316, Cromwell, 9310
Project Name	MGL Process Plant SPT Samples
Project ID	N/A

Laboratory Test Report

Water content and Fines content - GEO190 (In-house method)

Customer Sample Details

Location	**ID**	PlantSPT1				
	Description	N/A				
	Data	E°: N/A	N°: N/A	Level: N/A	Chainage: N/A	Offset: N/A
Sample	**Geotechnics ID**	A3236	**Date Sampled**	09-04-2026		
	Reference	MDD500	**Depth From**	3.5 m	**to**	4.0 m
	Description	N/A				
Customer Instructions	N/A					

Test Results

Natural Water Content	10.5 %
Fines Content <75 µm Sieve	23.7 %
Fines Content <63 µm Sieve	N/A
Date Tested	24-04-2026

Test Remarks

- Condition of the sample as received: Natural.
- The sample used for testing: Whole Sample.
- Silty gravelly SAND, grey. Moist.

General Remarks

- Samples have been tested as received and according to your instructions. Results apply only to the sample(s) tested.
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Approved by KTP	Authorised by Project Director
Jack Singh	Steven Anderson

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Report Number	**1101330.0001.0.0/Rep 14**	**24-04-2026**
Test Schedule Reference	**NZG512_91**	

Customer Details

Customer	Matakanui Gold Limited
Address	PO Box 316, Cromwell, 9310
Project Name	MGL Process Plant SPT Samples
Project ID	N/A

Laboratory Test Report

Water content and Fines content - GEO190 (In-house method)

Customer Sample Details

Location	**ID**	PlantSPT1				
	Description	N/A				
	Data	E°: N/A	N°: N/A	Level: N/A	Chainage: N/A	Offset: N/A
Sample	**Geotechnics ID**	A3237	**Date Sampled**	09-04-2026		
	Reference	MDD500	**Depth From**	5.0 m	**to**	5.5 m
	Description	N/A				
Customer Instructions	N/A					

Test Results

Natural Water Content	8.6 %
Fines Content <75 µm Sieve	19.7 %
Fines Content <63 µm Sieve	N/A
Date Tested	24-04-2026

Test Remarks

- Condition of the sample as received: Natural.
- The sample used for testing: Whole Sample.
- Silty gravelly SAND, grey. Moist.

General Remarks

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Report Number	**1101330.0001.0.0/Rep 28**	**24-04-2026**
Test Schedule Reference	**NZG512_91**	

Customer Details

Customer	Matakanui Gold Limited
Address	PO Box 316, Cromwell, 9310
Project Name	MGL Process Plant SPT Samples
Project ID	N/A

Laboratory Test Report

Water content and Fines content - GEO190 (In-house method)

Customer Sample Details

Location	**ID**	PlantSPT1				
	Description	N/A				
	Data	E°: N/A	N°: N/A	Level: N/A	Chainage: N/A	Offset: N/A
Sample	**Geotechnics ID**	A3238	**Date Sampled**	09-04-2026		
	Reference	MDD511	**Depth From**	1.0 m	**to**	1.5 m
	Description	N/A				
Customer Instructions	N/A					

Test Results

Natural Water Content	9 %
Fines Content <75 µm Sieve	12.4 %
Fines Content <63 µm Sieve	N/A
Date Tested	24-04-2026

Test Remarks

- Condition of the sample as received: Natural.
- The sample used for testing: Whole Sample.
- Gravelly SAND with minor silt, brown. Moist.

General Remarks

- Samples have been tested as received and according to your instructions. Results apply only to the sample(s) tested.
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Report Number	**1101330.0001.0.0/Rep 27**	**24-04-2026**
Test Schedule Reference	**NZG512_91**	

Customer Details

Customer	Matakanui Gold Limited
Address	PO Box 316, Cromwell, 9310
Project Name	MGL Process Plant SPT Samples
Project ID	N/A

Laboratory Test Report

Water content and Fines content - GEO190 (In-house method)

Customer Sample Details

Location	**ID**	PlantSPT1				
	Description	N/A				
	Data	E°: N/A	N°: N/A	Level: N/A	Chainage: N/A	Offset: N/A
Sample	**Geotechnics ID**	A3239	**Date Sampled**	09-04-2026		
	Reference	MDD511	**Depth From**	2.5 m	**to**	3.0 m
	Description	N/A				
Customer Instructions	N/A					

Test Results

Natural Water Content	13.2 %
Fines Content <75 µm Sieve	16.6 %
Fines Content <63 µm Sieve	N/A
Date Tested	24-04-2026

Test Remarks

- Condition of the sample as received: Natural.
- The sample used for testing: Whole Sample.
- Gravelly SAND with some silt, greyish brown. Moist.

General Remarks

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Report Number	**1101330.0001.0.0/Rep 35**	**27-04-2026**
Test Schedule Reference	**NZG512_91**	

Customer Details

Customer	Matakanui Gold Limited
Address	PO Box 316, Cromwell, 9310
Project Name	MGL Process Plant SPT Samples
Project ID	N/A

Laboratory Test Report

Water content and Fines content - GEO190 (In-house method)

Customer Sample Details

Location	**ID**	PlantSPT1				
	Description	N/A				
	Data	E°: N/A	N°: N/A	Level: N/A	Chainage: N/A	Offset: N/A
Sample	**Geotechnics ID**	A3240	**Date Sampled**	09-04-2026		
	Reference	MDD511	**Depth From**	3.5 m	**to**	4.0 m
	Description	N/A				
Customer Instructions	N/A					

Test Results

Natural Water Content	10.3 %
Fines Content <75 µm Sieve	13.2 %
Fines Content <63 µm Sieve	N/A
Date Tested	24-04-2026

Test Remarks

- Condition of the sample as received: Natural.
- The sample used for testing: Whole Sample.
- Silty gravelly SAND, grey. Moist.

General Remarks

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Report Number	**1101330.0001.0.0/Rep 26**	**24-04-2026**
Test Schedule Reference	**NZG512_91**	

Customer Details

Customer	Matakanui Gold Limited
Address	PO Box 316, Cromwell, 9310
Project Name	MGL Process Plant SPT Samples
Project ID	N/A

Laboratory Test Report

Water content and Fines content - GEO190 (In-house method)

Customer Sample Details

Location	**ID**	PlantSPT1				
	Description	N/A				
	Data	E°: N/A	N°: N/A	Level: N/A	Chainage: N/A	Offset: N/A
Sample	**Geotechnics ID**	A3241	**Date Sampled**	09-04-2026		
	Reference	MDD511	**Depth From**	5.0 m	**to**	5.5 m
	Description	N/A				
Customer Instructions	N/A					

Test Results

Natural Water Content	9.6 %
Fines Content <75 µm Sieve	18.2 %
Fines Content <63 µm Sieve	N/A
Date Tested	24-04-2026

Test Remarks

- Condition of the sample as received: Natural.
- The sample used for testing: Whole Sample.
- Gravelly SAND with some silt, brownish grey. Moist.

General Remarks

- Samples have been tested as received and according to your instructions. Results apply only to the sample(s) tested.
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Report Number	**1101330.0001.0.0/Rep 36**	**27-04-2026**
Test Schedule Reference	**NZG512_91**	

Customer Details

Customer	Matakanui Gold Limited
Address	PO Box 316, Cromwell, 9310
Project Name	MGL Process Plant SPT Samples
Project ID	N/A

Laboratory Test Report

Water content and Fines content - GEO190 (In-house method)

Customer Sample Details

Location	**ID**	PlantSPT1				
	Description	N/A				
	Data	E°: N/A	N°: N/A	Level: N/A	Chainage: N/A	Offset: N/A
Sample	**Geotechnics ID**	A3242	**Date Sampled**	09-04-2026		
	Reference	MDD512	**Depth From**	1.5 m	**to**	2.0 m
	Description	N/A				
Customer Instructions	N/A					

Test Results

Natural Water Content	10 %
Fines Content <75 µm Sieve	14.8 %
Fines Content <63 µm Sieve	N/A
Date Tested	24-04-2026

Test Remarks

- Condition of the sample as received: Natural.
- The sample used for testing: Whole Sample.
- Gravelly SAND with some silt, brown. Moist.

General Remarks

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Report Number	**1101330.0001.0.0/Rep 29**	**24-04-2026**
Test Schedule Reference	**NZG512_91**	

Customer Details

Customer	Matakanui Gold Limited
Address	PO Box 316, Cromwell, 9310
Project Name	MGL Process Plant SPT Samples
Project ID	N/A

Laboratory Test Report

Water content and Fines content - GEO190 (In-house method)

Customer Sample Details

Location	**ID**	PlantSPT1				
	Description	N/A				
	Data	E°: N/A	N°: N/A	Level: N/A	Chainage: N/A	Offset: N/A
Sample	**Geotechnics ID**	A3243	**Date Sampled**	09-04-2026		
	Reference	MDD512	**Depth From**	2.5 m	**to**	3.0 m
	Description	N/A				
Customer Instructions	N/A					

Test Results

Natural Water Content	9.5 %
Fines Content <75 µm Sieve	15.1 %
Fines Content <63 µm Sieve	N/A
Date Tested	24-04-2026

Test Remarks

- Condition of the sample as received: Natural.
- The sample used for testing: Whole Sample.
- Gravelly SAND with some silt, brown. Moist.

General Remarks

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Report Number	**1101330.0001.0.0/Rep 30**	**24-04-2026**
Test Schedule Reference	**NZG512_91**	

Customer Details

Customer	Matakanui Gold Limited
Address	PO Box 316, Cromwell, 9310
Project Name	MGL Process Plant SPT Samples
Project ID	N/A

Laboratory Test Report

Water content and Fines content - GEO190 (In-house method)

Customer Sample Details

Location	**ID**	PlantSPT1				
	Description	N/A				
	Data	E°: N/A	N°: N/A	Level: N/A	Chainage: N/A	Offset: N/A
Sample	**Geotechnics ID**	A3244	**Date Sampled**	09-04-2026		
	Reference	MDD512	**Depth From**	5.0 m	**to**	5.5 m
	Description	N/A				
Customer Instructions	N/A					

Test Results

Natural Water Content	2.3 %
Fines Content <75 µm Sieve	16.3 %
Fines Content <63 µm Sieve	N/A
Date Tested	24-04-2026

Test Remarks

- Condition of the sample as received: Natural.
- The sample used for testing: Whole Sample.
- Gravelly SAND with some silt, light brown. Moist.

General Remarks

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Report Number	**1101330.0001.0.0/Rep 37**	**27-04-2026**
Test Schedule Reference	**NZG512_91**	

Customer Details

Customer	Matakanui Gold Limited
Address	PO Box 316, Cromwell, 9310
Project Name	MGL Process Plant SPT Samples
Project ID	N/A

Laboratory Test Report

Water content and Fines content - GEO190 (In-house method)

Customer Sample Details

Location	**ID**	PlantSPT1				
	Description	N/A				
	Data	E°: N/A	N°: N/A	Level: N/A	Chainage: N/A	Offset: N/A
Sample	**Geotechnics ID**	A3245	**Date Sampled**	09-04-2026		
	Reference	MDD512	**Depth From**	8.0 m	**to**	8.5 m
	Description	N/A				
Customer Instructions	N/A					

Test Results

Natural Water Content	13.9 %
Fines Content <75 µm Sieve	30.9 %
Fines Content <63 µm Sieve	N/A
Date Tested	24-04-2026

Test Remarks

- Condition of the sample as received: Natural.
- The sample used for testing: Whole Sample.
- Silty gravelly SAND, bluish grey. Moist.

General Remarks

- Samples have been tested as received and according to your instructions. Results apply only to the sample(s) tested.
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Report Number	**1101330.0001.0.0/Rep 19**	**24-04-2026**
Test Schedule Reference	**NZG512_91**	

Customer Details

Customer	Matakanui Gold Limited
Address	PO Box 316, Cromwell, 9310
Project Name	MGL Process Plant SPT Samples
Project ID	N/A

Laboratory Test Report

Water content and Fines content - GEO190 (In-house method)

Customer Sample Details

Location	**ID**	PlantSPT1				
	Description	N/A				
	Data	E°: N/A	N°: N/A	Level: N/A	Chainage: N/A	Offset: N/A
Sample	**Geotechnics ID**	A3246	**Date Sampled**	09-04-2026		
	Reference	MDD505	**Depth From**	0.5 m	**to**	1.0 m
	Description	N/A				
Customer Instructions	N/A					

Test Results

Natural Water Content	2.9 %
Fines Content <75 µm Sieve	6.5 %
Fines Content <63 µm Sieve	N/A
Date Tested	24-04-2026

Test Remarks

- Condition of the sample as received: Natural.
- The sample used for testing: Whole Sample.
- Sandy GRAVEL with minor silt, grey. Dry.

General Remarks

- Samples have been tested as received and according to your instructions. Results apply only to the sample(s) tested.
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Report Number	**1101330.0001.0.0/Rep 18**	**24-04-2026**
Test Schedule Reference	**NZG512_91**	

Customer Details

Customer	Matakanui Gold Limited
Address	PO Box 316, Cromwell, 9310
Project Name	MGL Process Plant SPT Samples
Project ID	N/A

Laboratory Test Report

Water content and Fines content - GEO190 (In-house method)

Customer Sample Details

Location	**ID**	PlantSPT1				
	Description	N/A				
	Data	E°: N/A	N°: N/A	Level: N/A	Chainage: N/A	Offset: N/A
Sample	**Geotechnics ID**	A3247	**Date Sampled**	09-04-2026		
	Reference	MDD505	**Depth From**	1.0 m	**to**	1.5 m
	Description	N/A				
Customer Instructions	N/A					

Test Results

Natural Water Content	3.5 %
Fines Content <75 µm Sieve	15.4 %
Fines Content <63 µm Sieve	N/A
Date Tested	24-04-2026

Test Remarks

- Condition of the sample as received: Natural.
- The sample used for testing: Whole Sample.
- Gravelly SAND with some silt, light brown. Dry.

General Remarks

- Samples have been tested as received and according to your instructions. Results apply only to the sample(s) tested.
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Report Number	**1101330.0001.0.0/Rep 38**	**27-04-2026**
Test Schedule Reference	**NZG512_91**	

Customer Details

Customer	Matakanui Gold Limited
Address	PO Box 316, Cromwell, 9310
Project Name	MGL Process Plant SPT Samples
Project ID	N/A

Laboratory Test Report

Water content and Fines content - GEO190 (In-house method)

Customer Sample Details

Location	**ID**	PlantSPT1				
	Description	N/A				
	Data	E°: N/A	N°: N/A	Level: N/A	Chainage: N/A	Offset: N/A
Sample	**Geotechnics ID**	A3248	**Date Sampled**	09-04-2026		
	Reference	MDD505	**Depth From**	2.5 m	**to**	3.0 m
	Description	N/A				
Customer Instructions	N/A					

Test Results

Natural Water Content	1.3 %
Fines Content <75 µm Sieve	15.3 %
Fines Content <63 µm Sieve	N/A
Date Tested	24-04-2026

Test Remarks

- Condition of the sample as received: Natural.
- The sample used for testing: Whole Sample.
- Gravelly SAND with some silt, light greyish brown. Moist.

General Remarks

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Report Number	**1101330.0001.0.0/Rep 20**	**24-04-2026**
Test Schedule Reference	**NZG512_91**	

Customer Details

Customer	Matakanui Gold Limited
Address	PO Box 316, Cromwell, 9310
Project Name	MGL Process Plant SPT Samples
Project ID	N/A

Laboratory Test Report

Water content and Fines content - GEO190 (In-house method)

Customer Sample Details

Location	**ID**	PlantSPT1				
	Description	N/A				
	Data	E°: N/A	N°: N/A	Level: N/A	Chainage: N/A	Offset: N/A
Sample	**Geotechnics ID**	A3249	**Date Sampled**	09-04-2026		
	Reference	MDD505	**Depth From**	4.0 m	**to**	4.5 m
	Description	N/A				
Customer Instructions	N/A					

Test Results

Natural Water Content	2.6 %
Fines Content <75 µm Sieve	18.5 %
Fines Content <63 µm Sieve	N/A
Date Tested	24-04-2026

Test Remarks

- Condition of the sample as received: Natural.
- The sample used for testing: Whole Sample.
- SAND with some silt and trace gravel, light brown. Moist.

General Remarks

- Samples have been tested as received and according to your instructions. Results apply only to the sample(s) tested.
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Approved by KTP	Authorised by Project Director
Jack Singh	Steven Anderson

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Report Number	**1101330.0001.0.0/Rep 21**	**24-04-2026**
Test Schedule Reference	**NZG512_91**	

Customer Details

Customer	Matakanui Gold Limited
Address	PO Box 316, Cromwell, 9310
Project Name	MGL Process Plant SPT Samples
Project ID	N/A

Laboratory Test Report

Water content and Fines content - GEO190 (In-house method)

Customer Sample Details

Location	**ID**	PlantSPT1				
	Description	N/A				
	Data	E°: N/A	N°: N/A	Level: N/A	Chainage: N/A	Offset: N/A
Sample	**Geotechnics ID**	A3250	**Date Sampled**	09-04-2026		
	Reference	MDD505	**Depth From**	5.0 m	**to**	5.5 m
	Description	N/A				
Customer Instructions	N/A					

Test Results

Natural Water Content	3 %
Fines Content <75 µm Sieve	20.4 %
Fines Content <63 µm Sieve	N/A
Date Tested	24-04-2026

Test Remarks

- Condition of the sample as received: Natural.
- The sample used for testing: Whole Sample.
- Silty gravelly SAND, grey. Dry.

General Remarks

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Jack Singh	Steven Anderson	ACCREDITED IANZ TESTING LABORATORY — All tests reported herein have been performed in accordance with the laboratory's scope of accreditation

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Report Number	**1101330.0001.0.0/Rep 16**	**24-04-2026**
Test Schedule Reference	**NZG512_91**	

Customer Details

Customer	Matakanui Gold Limited
Address	PO Box 316, Cromwell, 9310
Project Name	MGL Process Plant SPT Samples
Project ID	N/A

Laboratory Test Report

Water content and Fines content - GEO190 (In-house method)

Customer Sample Details

Location	**ID**	PlantSPT1				
	Description	N/A				
	Data	E°: N/A	N°: N/A	Level: N/A	Chainage: N/A	Offset: N/A
Sample	**Geotechnics ID**	A3251	**Date Sampled**	09-04-2026		
	Reference	MDD503	**Depth From**	1.0 m	**to**	1.5 m
	Description	N/A				
Customer Instructions	N/A					

Test Results

Natural Water Content	5.2 %
Fines Content <75 µm Sieve	67.6 %
Fines Content <63 µm Sieve	N/A
Date Tested	24-04-2026

Test Remarks

- Condition of the sample as received: Natural.
- The sample used for testing: Whole Sample.
- Sandy SILT with some gravel, light brown. Dry.

General Remarks

- Samples have been tested as received and according to your instructions. Results apply only to the sample(s) tested.
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Report Number	**1101330.0001.0.0/Rep 15**	**24-04-2026**
Test Schedule Reference	**NZG512_91**	

Customer Details

Customer	Matakanui Gold Limited
Address	PO Box 316, Cromwell, 9310
Project Name	MGL Process Plant SPT Samples
Project ID	N/A

Laboratory Test Report

Water content and Fines content - GEO190 (In-house method)

Customer Sample Details

Location	**ID**	PlantSPT1				
	Description	N/A				
	Data	E°: N/A	N°: N/A	Level: N/A	Chainage: N/A	Offset: N/A
Sample	**Geotechnics ID**	A3252	**Date Sampled**	09-04-2026		
	Reference	MDD503	**Depth From**	4.0 m	**to**	4.45 m
	Description	N/A				
Customer Instructions	N/A					

Test Results

Natural Water Content	3.1 %
Fines Content <75 µm Sieve	20 %
Fines Content <63 µm Sieve	N/A
Date Tested	24-04-2026

Test Remarks

- Condition of the sample as received: Natural.
- The sample used for testing: Whole Sample.
- Silty gravelly SAND, brown. Moist.

General Remarks

- Samples have been tested as received and according to your instructions. Results apply only to the sample(s) tested.
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Report Number	**1101330.0001.0.0/Rep 39**	**27-04-2026**
Test Schedule Reference	**NZG512_91**	

Customer Details

Customer	Matakanui Gold Limited
Address	PO Box 316, Cromwell, 9310
Project Name	MGL Process Plant SPT Samples
Project ID	N/A

Laboratory Test Report

Water content and Fines content - GEO190 (In-house method)

Customer Sample Details

Location	**ID**	PlantSPT1				
	Description	N/A				
	Data	E°: N/A	N°: N/A	Level: N/A	Chainage: N/A	Offset: N/A
Sample	**Geotechnics ID**	A3253	**Date Sampled**	09-04-2026		
	Reference	MDD503	**Depth From**	4.5 m	**to**	4.95 m
	Description	N/A				
Customer Instructions	N/A					

Test Results

Natural Water Content	3.8 %
Fines Content <75 µm Sieve	13.9 %
Fines Content <63 µm Sieve	N/A
Date Tested	24-04-2026

Test Remarks

- Condition of the sample as received: Natural.
- The sample used for testing: Whole Sample.
- Laboratory Description: Sandy GRAVEL with some silt, grey. Moist.

General Remarks

- Samples have been tested as received and according to your instructions. Results apply only to the sample(s) tested.
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Report Number	**1101330.0001.0.0/Rep 17**	**24-04-2026**
Test Schedule Reference	**NZG512_91**	

Customer Details

Customer	Matakanui Gold Limited
Address	PO Box 316, Cromwell, 9310
Project Name	MGL Process Plant SPT Samples
Project ID	N/A

Laboratory Test Report

Water content and Fines content - GEO190 (In-house method)

Customer Sample Details

Location	**ID**	PlantSPT1				
	Description	N/A				
	Data	E°: N/A	N°: N/A	Level: N/A	Chainage: N/A	Offset: N/A
Sample	**Geotechnics ID**	A3254	**Date Sampled**	09-04-2026		
	Reference	MDD503	**Depth From**	5.0 m	**to**	5.5 m
	Description	N/A				
Customer Instructions	N/A					

Test Results

Natural Water Content	2 %
Fines Content <75 µm Sieve	16.7 %
Fines Content <63 µm Sieve	N/A
Date Tested	24-04-2026

Test Remarks

- Condition of the sample as received: Natural.
- The sample used for testing: Whole Sample.
- Gravelly SAND with some silt, grey. Dry.

General Remarks

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Report Number	**1101330.0001.0.0/Rep 22**	**24-04-2026**
Test Schedule Reference	**NZG512_91**	

Customer Details

Customer	Matakanui Gold Limited
Address	PO Box 316, Cromwell, 9310
Project Name	MGL Process Plant SPT Samples
Project ID	N/A

Laboratory Test Report

Water content and Fines content - GEO190 (In-house method)

Customer Sample Details

Location	**ID**	PlantSPT1				
	Description	N/A				
	Data	E°: N/A	N°: N/A	Level: N/A	Chainage: N/A	Offset: N/A
Sample	**Geotechnics ID**	A3255	**Date Sampled**	09-04-2026		
	Reference	MDD510	**Depth From**	1.0 m	**to**	1.5 m
	Description	N/A				
Customer Instructions	N/A					

Test Results

Natural Water Content	6.7 %
Fines Content <75 µm Sieve	13.7 %
Fines Content <63 µm Sieve	N/A
Date Tested	24-04-2026

Test Remarks

- Condition of the sample as received: Natural.
- The sample used for testing: Whole Sample.
- Gravelly SAND with some sand, grey. Moist.

General Remarks

- Samples have been tested as received and according to your instructions. Results apply only to the sample(s) tested.
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Report Number	**1101330.0001.0.0/Rep 24**	**24-04-2026**
Test Schedule Reference	**NZG512_91**	

Customer Details

Customer	Matakanui Gold Limited
Address	PO Box 316, Cromwell, 9310
Project Name	MGL Process Plant SPT Samples
Project ID	N/A

Laboratory Test Report

Water content and Fines content - GEO190 (In-house method)

Customer Sample Details

Location	**ID**	PlantSPT1				
	Description	N/A				
	Data	E°: N/A	N°: N/A	Level: N/A	Chainage: N/A	Offset: N/A
Sample	**Geotechnics ID**	A3256	**Date Sampled**	09-04-2026		
	Reference	MDD510	**Depth From**	2.0 m	**to**	2.45 m
	Description	N/A				
Customer Instructions	N/A					

Test Results

Natural Water Content	11.4 %
Fines Content <75 µm Sieve	14.9 %
Fines Content <63 µm Sieve	N/A
Date Tested	24-04-2026

Test Remarks

- Condition of the sample as received: Natural.
- The sample used for testing: Whole Sample.
- Gravelly SAND with some silt, brown. Moist.

General Remarks

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Report Number	**1101330.0001.0.0/Rep 23**	**24-04-2026**
Test Schedule Reference	**NZG512_91**	

Customer Details

Customer	Matakanui Gold Limited
Address	PO Box 316, Cromwell, 9310
Project Name	MGL Process Plant SPT Samples
Project ID	N/A

Laboratory Test Report

Water content and Fines content - GEO190 (In-house method)

Customer Sample Details

Location	**ID**	PlantSPT1				
	Description	N/A				
	Data	E°: N/A	N°: N/A	Level: N/A	Chainage: N/A	Offset: N/A
Sample	**Geotechnics ID**	A3257	**Date Sampled**	09-04-2026		
	Reference	MDD510	**Depth From**	2.5 m	**to**	3.0 m
	Description	N/A				
Customer Instructions	N/A					

Test Results

Natural Water Content	10.6 %
Fines Content <75 µm Sieve	14.9 %
Fines Content <63 µm Sieve	N/A
Date Tested	24-04-2026

Test Remarks

- Condition of the sample as received: Natural.
- The sample used for testing: Whole Sample.
- Gravelly SAND with some silt, brown. Moist.

General Remarks

- Samples have been tested as received and according to your instructions. Results apply only to the sample(s) tested.
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Report Number	**1101330.0001.0.0/Rep 25**	**24-04-2026**
Test Schedule Reference	**NZG512_91**	

Customer Details

Customer	Matakanui Gold Limited
Address	PO Box 316, Cromwell, 9310
Project Name	MGL Process Plant SPT Samples
Project ID	N/A

Laboratory Test Report

Water content and Fines content - GEO190 (In-house method)

Customer Sample Details

Location	**ID**	PlantSPT1				
	Description	N/A				
	Data	E°: N/A	N°: N/A	Level: N/A	Chainage: N/A	Offset: N/A
Sample	**Geotechnics ID**	A3258	**Date Sampled**	09-04-2026		
	Reference	MDD510	**Depth From**	3.5 m	**to**	4.0 m
	Description	N/A				
Customer Instructions	N/A					

Test Results

Natural Water Content	11.9 %
Fines Content <75 µm Sieve	27.1 %
Fines Content <63 µm Sieve	N/A
Date Tested	24-04-2026

Test Remarks

- Condition of the sample as received: Natural.
- The sample used for testing: Whole Sample.
- Silty SAND with some gravel, brown. Moist.

General Remarks

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Report Number	**1101330.0001.0.0/Rep 31**	**24-04-2026**
Test Schedule Reference	**NZG512_91**	

Customer Details

Customer	Matakanui Gold Limited
Address	PO Box 316, Cromwell, 9310
Project Name	MGL Process Plant SPT Samples
Project ID	N/A

Laboratory Test Report

Water content and Fines content - GEO190 (In-house method)

Customer Sample Details

Location	**ID**	PlantSPT1				
	Description	N/A				
	Data	E°: N/A	N°: N/A	Level: N/A	Chainage: N/A	Offset: N/A
Sample	**Geotechnics ID**	A3259	**Date Sampled**	09-04-2026		
	Reference	MDD508	**Depth From**	1.0 m	**to**	1.5 m
	Description	N/A				
Customer Instructions	N/A					

Test Results

Natural Water Content	7.2 %
Fines Content <75 µm Sieve	29.9 %
Fines Content <63 µm Sieve	N/A
Date Tested	24-04-2026

Test Remarks

- Condition of the sample as received: Natural.
- The sample used for testing: Whole Sample.
- Gravelly silty SAND, grey. Moist.

General Remarks

- Samples have been tested as received and according to your instructions. Results apply only to the sample(s) tested.
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Report Number	**1101330.0001.0.0/Rep 32**	**24-04-2026**
Test Schedule Reference	**NZG512_91**	

Customer Details

Customer	Matakanui Gold Limited
Address	PO Box 316, Cromwell, 9310
Project Name	MGL Process Plant SPT Samples
Project ID	N/A

Laboratory Test Report

Water content and Fines content - GEO190 (In-house method)

Customer Sample Details

Location	**ID**	PlantSPT1				
	Description	N/A				
	Data	E°: N/A	N°: N/A	Level: N/A	Chainage: N/A	Offset: N/A
Sample	**Geotechnics ID**	A3260	**Date Sampled**	09-04-2026		
	Reference	MDD508	**Depth From**	1.5 m	**to**	2.0 m
	Description	N/A				
Customer Instructions	N/A					

Test Results

Natural Water Content	7.3 %
Fines Content <75 µm Sieve	21.5 %
Fines Content <63 µm Sieve	N/A
Date Tested	24-04-2026

Test Remarks

- Condition of the sample as received: Natural.
- The sample used for testing: Whole Sample.
- Silty gravelly SAND, brown. Moist.

General Remarks

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Report Number	**1101330.0001.0.0/Rep 33**	**24-04-2026**
Test Schedule Reference	**NZG512_91**	

Customer Details

Customer	Matakanui Gold Limited
Address	PO Box 316, Cromwell, 9310
Project Name	MGL Process Plant SPT Samples
Project ID	N/A

Laboratory Test Report

Water content and Fines content - GEO190 (In-house method)

Customer Sample Details

Location	**ID**	PlantSPT1				
	Description	N/A				
	Data	E°: N/A	N°: N/A	Level: N/A	Chainage: N/A	Offset: N/A
Sample	**Geotechnics ID**	A3261	**Date Sampled**	09-04-2026		
	Reference	MDD508	**Depth From**	3.5 m	**to**	4.0 m
	Description	N/A				
Customer Instructions	N/A					

Test Results

Natural Water Content	8.6 %
Fines Content <75 µm Sieve	15.2 %
Fines Content <63 µm Sieve	N/A
Date Tested	24-04-2026

Test Remarks

- Condition of the sample as received: Natural.
- The sample used for testing: Whole Sample.
- Gravelly SAND with some silt, grey. Moist.

General Remarks

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Triaxial Test

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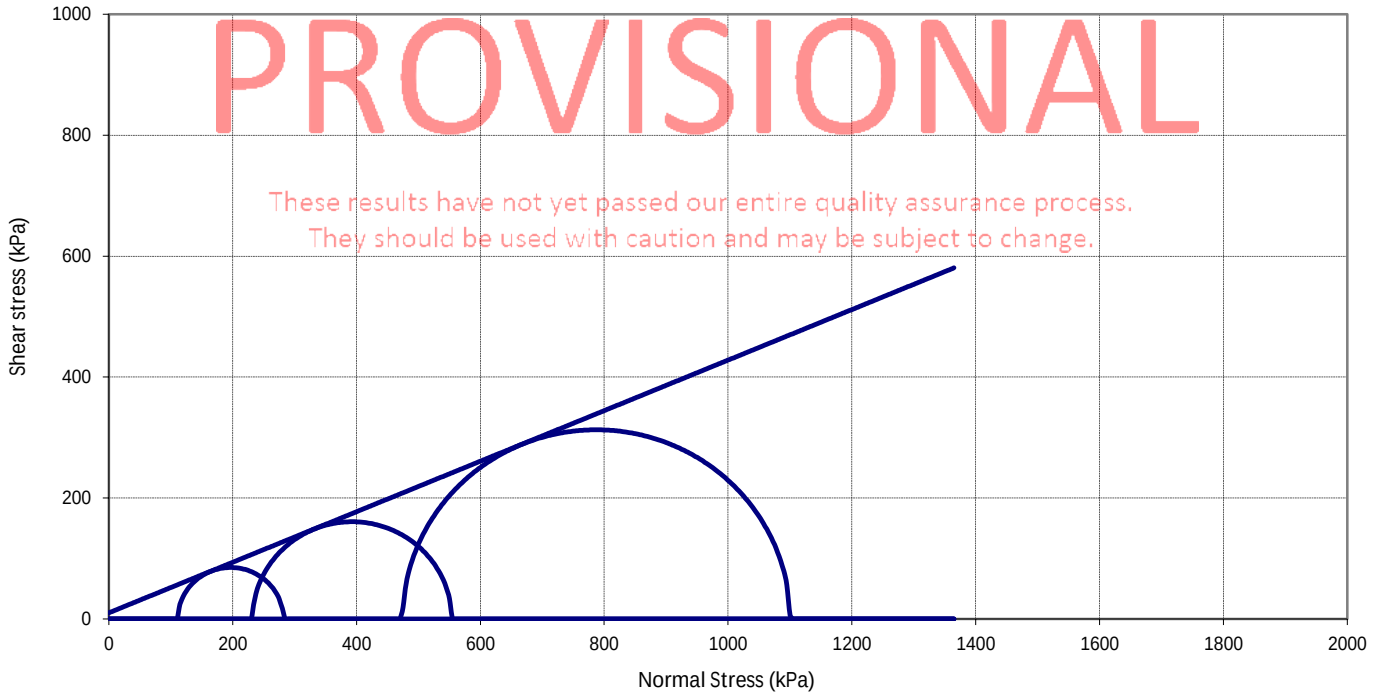
Geotechnics Project ID: 1102503.0000.0.0
Customer Project ID: --
Test Schedule Reference: --

Site: Bendigo-Ophir Gold Project, Otago Location ID: MDD491
Sample Ref.: -- Geotechnics ID: -- Depth: 22.80 - 22.95 (m)
Test method used: ISO 17892-9:2018 Part 9 Isotropic consolidated-undrained triaxial compression test on water saturated soils (CIU)
NZS 4402:1986 Test 2.1 Determination of Water Content

CONSOLIDATED-UNDRAINED TRIAXIAL COMPRESSION TEST (MULTI-STAGE)

MOHR CIRCLES OF EFFECTIVE STRESSES

PROVISIONAL
These results have not yet passed our entire quality assurance process.
They should be used with caution and may be subject to change.



General Sample Parameters

Initial Sample Height:	153.59	mm	Initial Water Content:	2.8	%
Initial Sample Diameter:	81.03	mm	Initial Bulk Density:	2.25	t/m³
Initial B Value:	--	%	Initial Dry Density:	2.19	t/m³
B Value before Consolidation:	92	%	Final Water Content:	9.9	%

Test Results

	At the End of Consolidation Stage					Failure Values						Failure Mode & Photo
	Effective Stress		Back	Volumetric		Deviator Stress	Vertical	Effective Stress		Corrections (kPa)		Planar / Plastic
	Horizontal σ_h'(kPa)	Vertical σ_v'(kPa)	Pressure (kPa)	Strain (%)	Rate (%/hr)	$(\sigma_v' - \sigma_h')$ (kPa)	Strain ε (%)	Vertical σ_v' (kPa)	Horizontal σ_h'(kPa)	Membrane $(\Delta\sigma_v)_m$	Filter P $(\Delta\sigma_v)_{fp}$	
Stage 1	150	152	350	3.77	0.00	170.28	3.17	281.78	111.50	1.87	2.85	
Stage 2	300	302	350	1.30	0.00	321.63	2.88	553.63	232.00	1.70	2.84	
Stage 3	600	602	350	1.36	0.00	625.67	4.00	1100.07	474.40	2.36	2.83	



Effective Strength

Angle of Frictional Resistance:	ϕ' =	23	°
Cohesion:	c' =	10	kPa
Linear Regression Coefficient:	r =	1.000	

Sample History: Undisturbed core trimmed at natural water content.

Soil description:

Test Speed: 0.018 - 0.019 (mm/min)

Test Remarks: The sample was saturated by increments of cell pressure and back pressure.
It was drained from radial boundary and both ends in the consolidation stages.
Failure for each stage was determined by the maximum effective stress ratio. Strength parameters have been derived by using a linear regression fitting method.

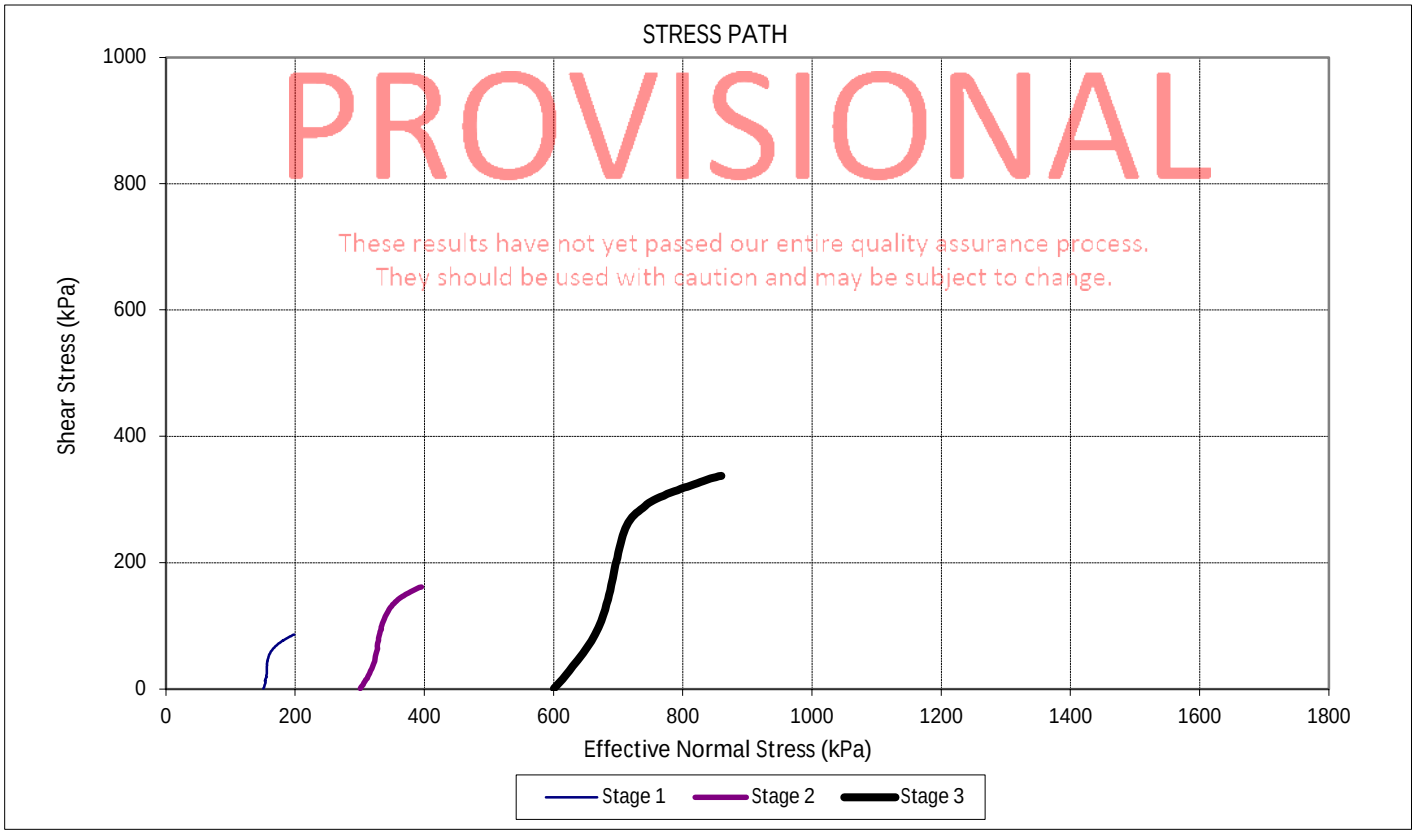
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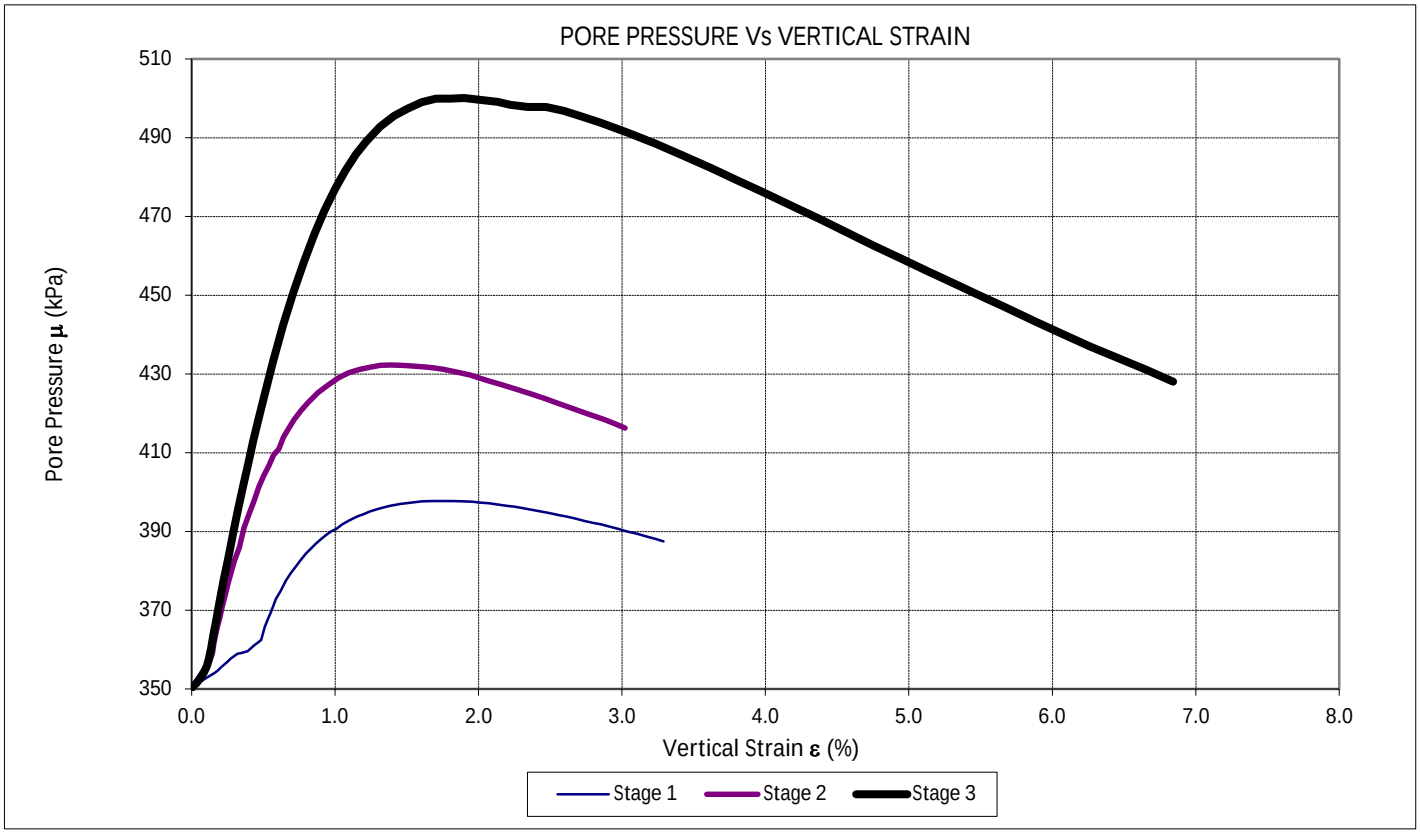
GEOTECHNICS
1 Hill Street
Onehunga
Auckland
New Zealand
p. +64 9 356 3510

Geotechnics Project ID: 1102503.0000.0.0
Customer Project ID: --
Test Schedule Reference: --

Site: Bendigo-Ophir Gold Project, Otago
Location ID: MDD491
Sample Ref.: --
Geotechnics ID: --
Depth: 22.80 - 22.95 (m)
Test method used: ISO 17892-9:2018 Part 9 Isotropic consolidated-undrained triaxial compression test on water saturated soils (CIU)
NZS 4402:1986 Test 2.1 Determination of Water Content

GRAPHS





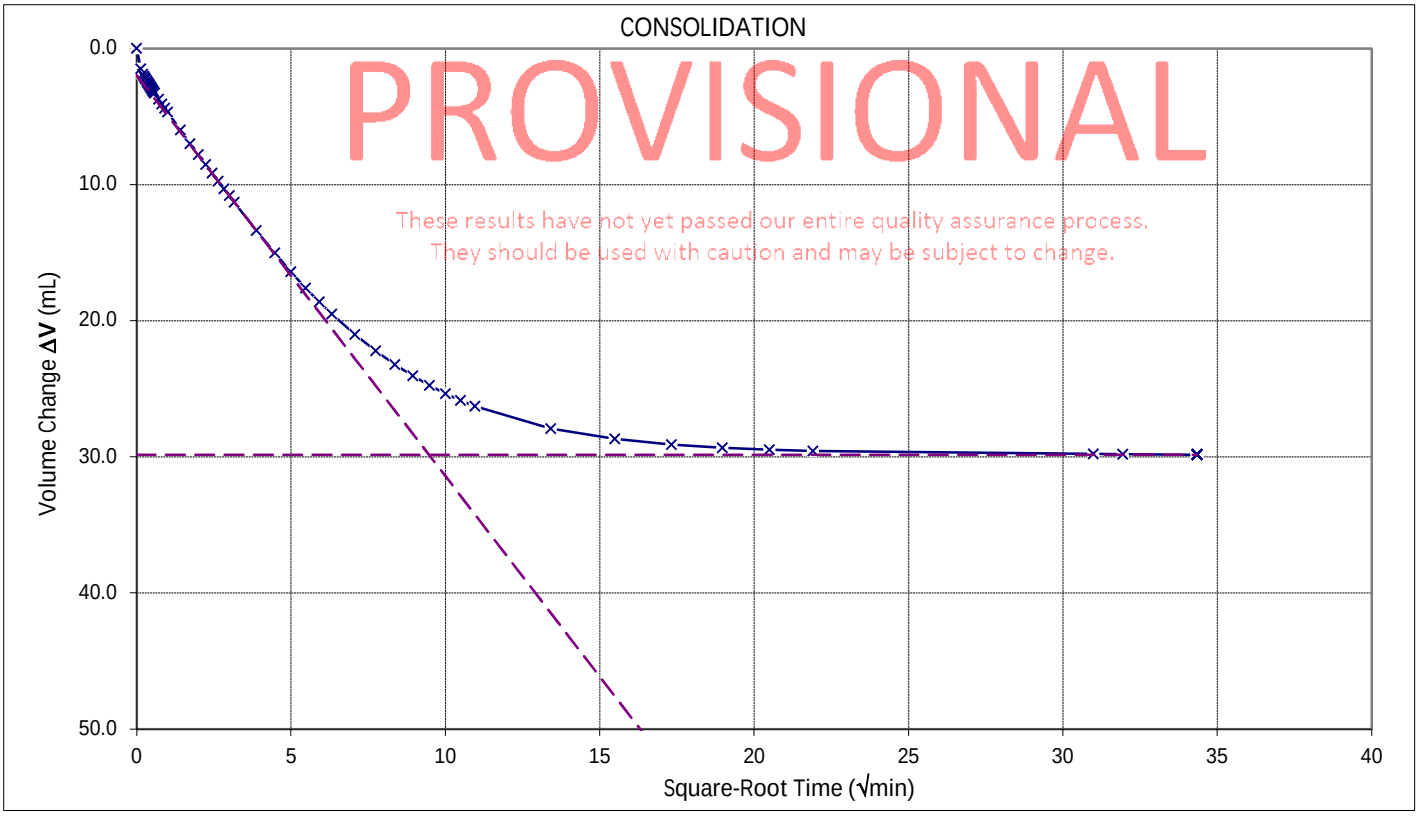
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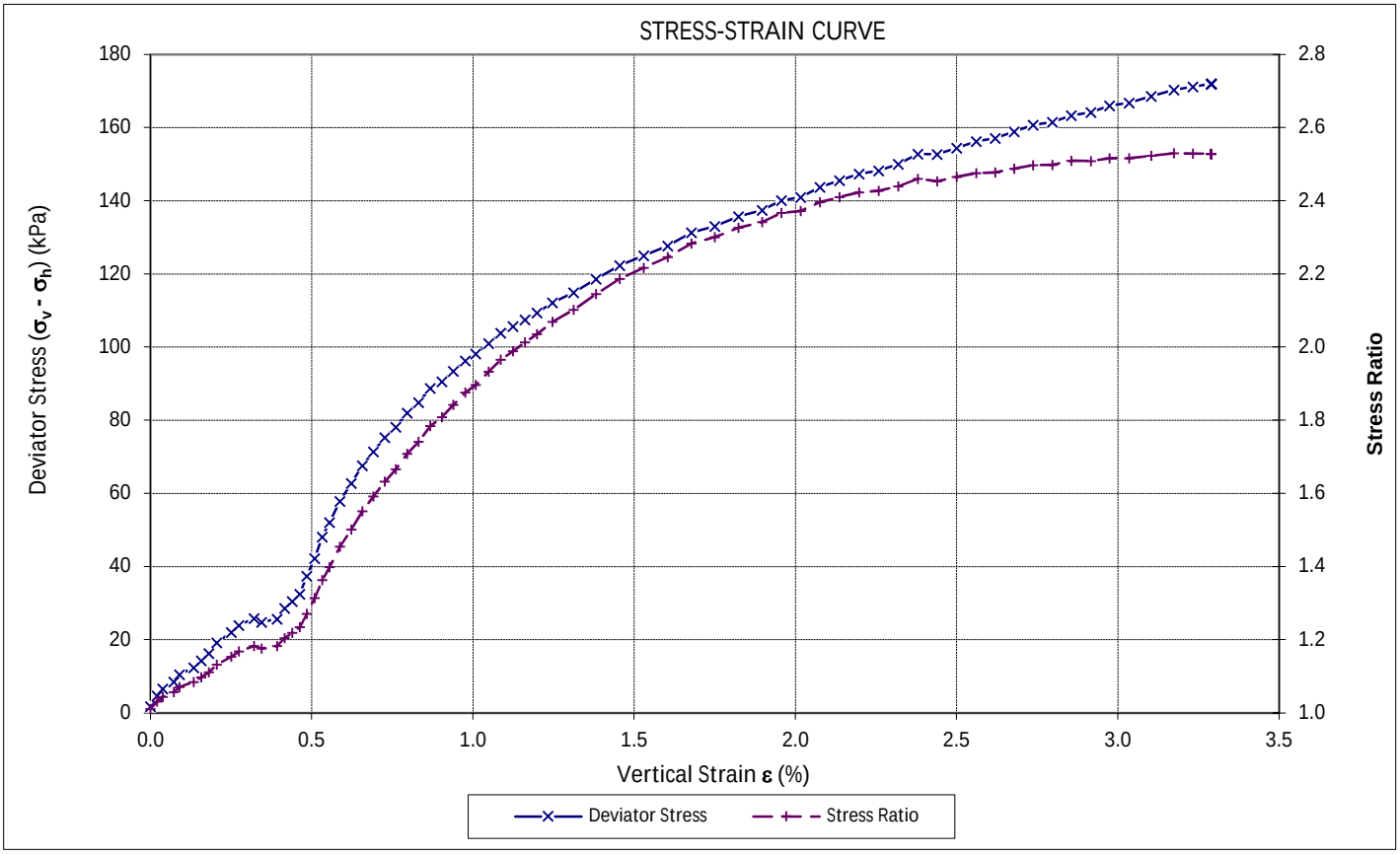
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Geotechnics Project ID: 1102503.0000.0.0
Customer Project ID: --
Test Schedule Reference: --

Site: Bendigo-Ophir Gold Project, Otago Location ID: MDD491
Sample Ref.: -- Geotechnics ID: -- Depth: 22.80 - 22.95 (m)
Test method used: ISO 17892-9:2018 Part 9 Isotropic consolidated-undrained triaxial compression test on water saturated soils (CIU)
NZS 4402:1986 Test 2.1 Determination of Water Content

STAGE 1 GRAPHS





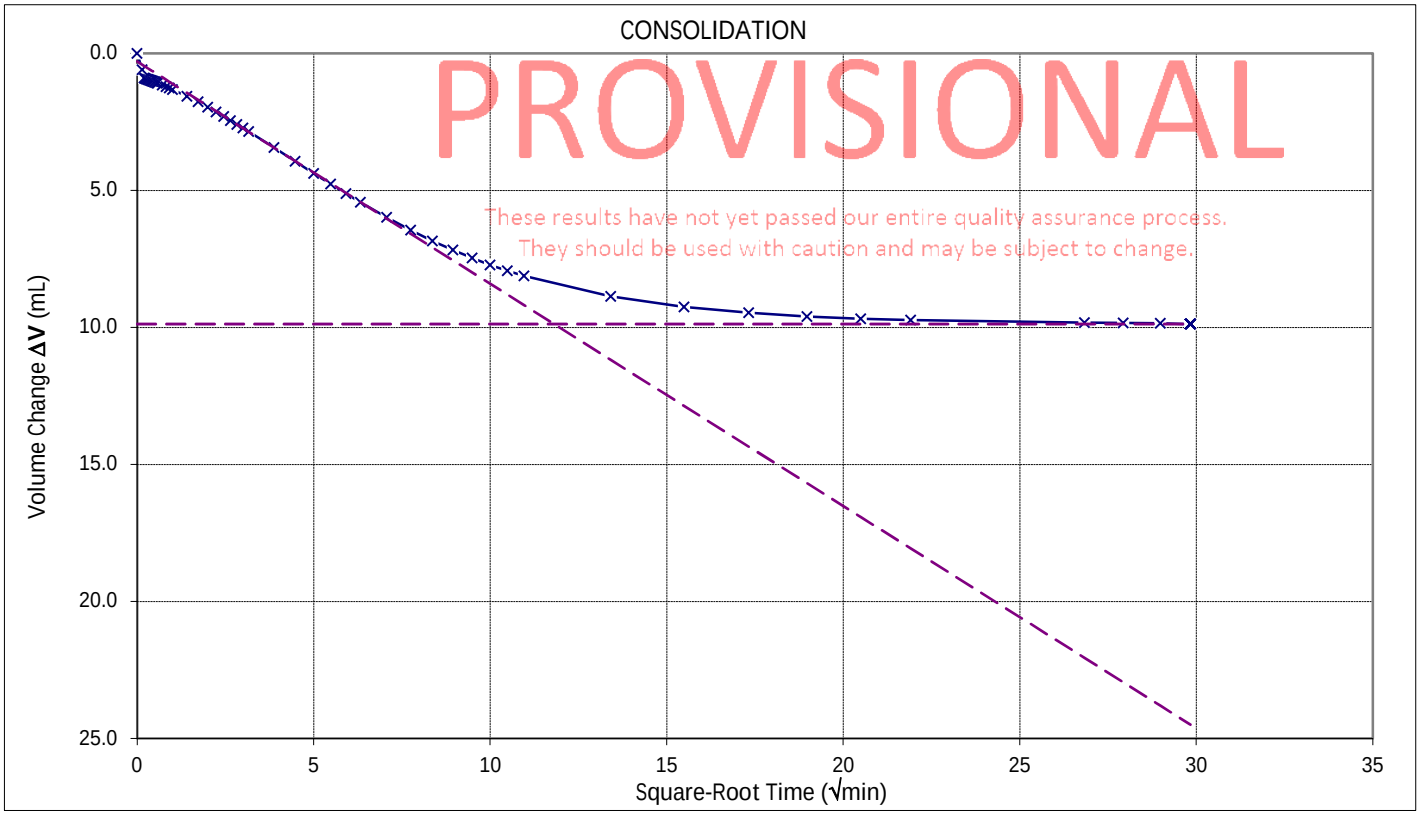
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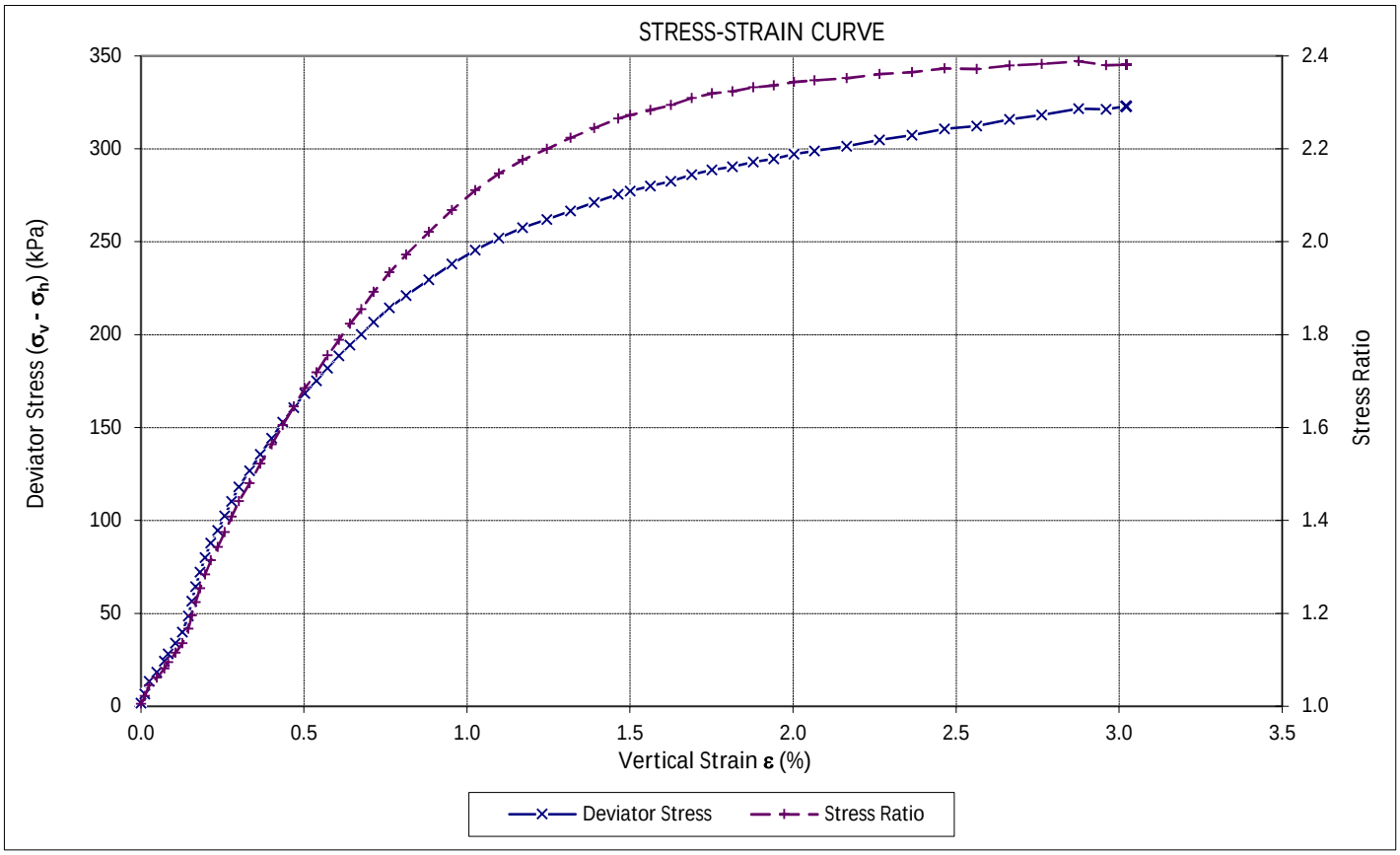
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Geotechnics Project ID: 1102503.0000.0.0
Customer Project ID: --
Test Schedule Reference: --

Site: Bendigo-Ophir Gold Project, Otago Location ID: MDD491
Sample Ref.: -- Geotechnics ID: -- Depth: 22.80 - 22.95 (m)
Test method used: ISO 17892-9:2018 Part 9 Isotropic consolidated-undrained triaxial compression test on water saturated soils (CIU)
NZS 4402:1986 Test 2.1 Determination of Water Content

STAGE 2 GRAPHS





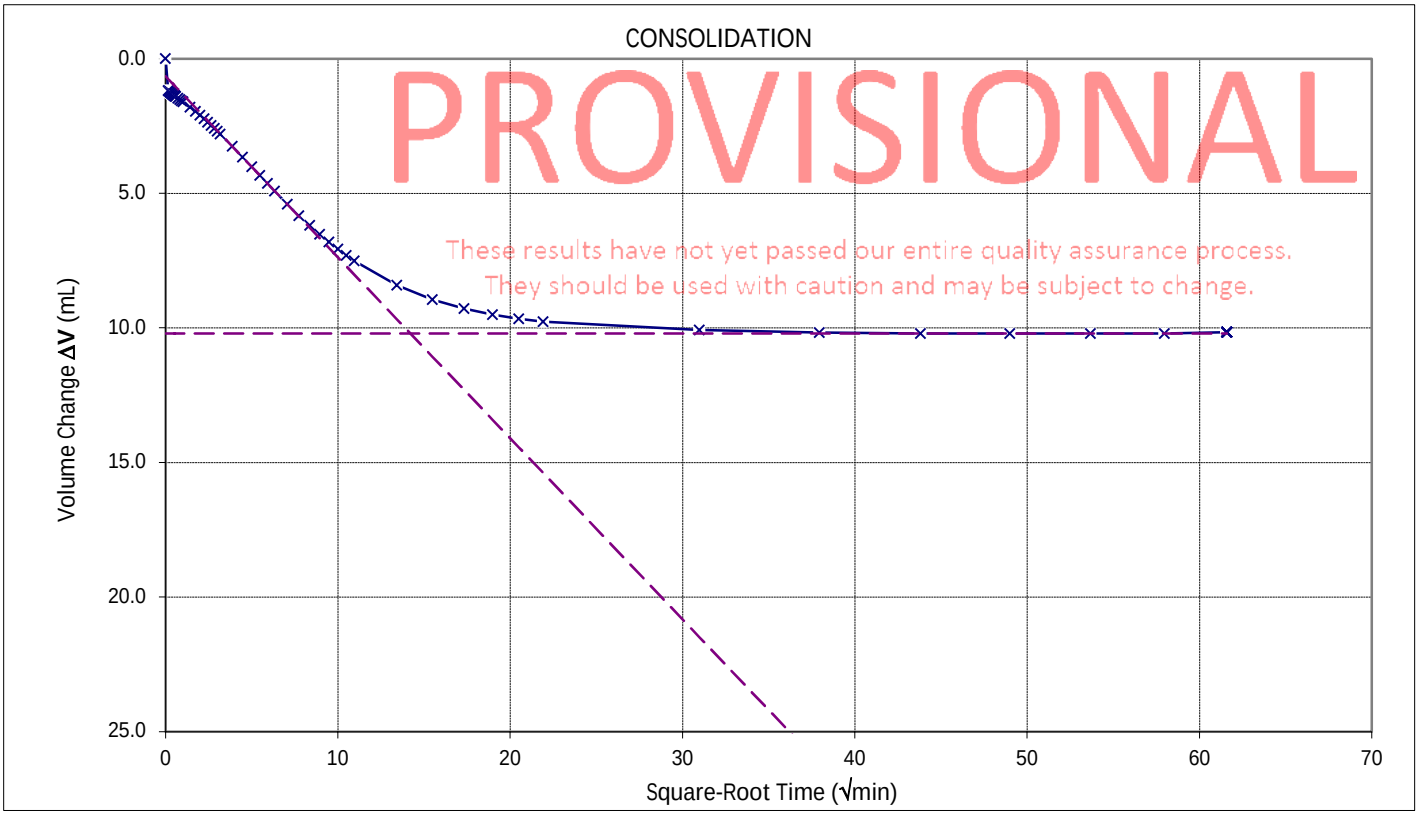
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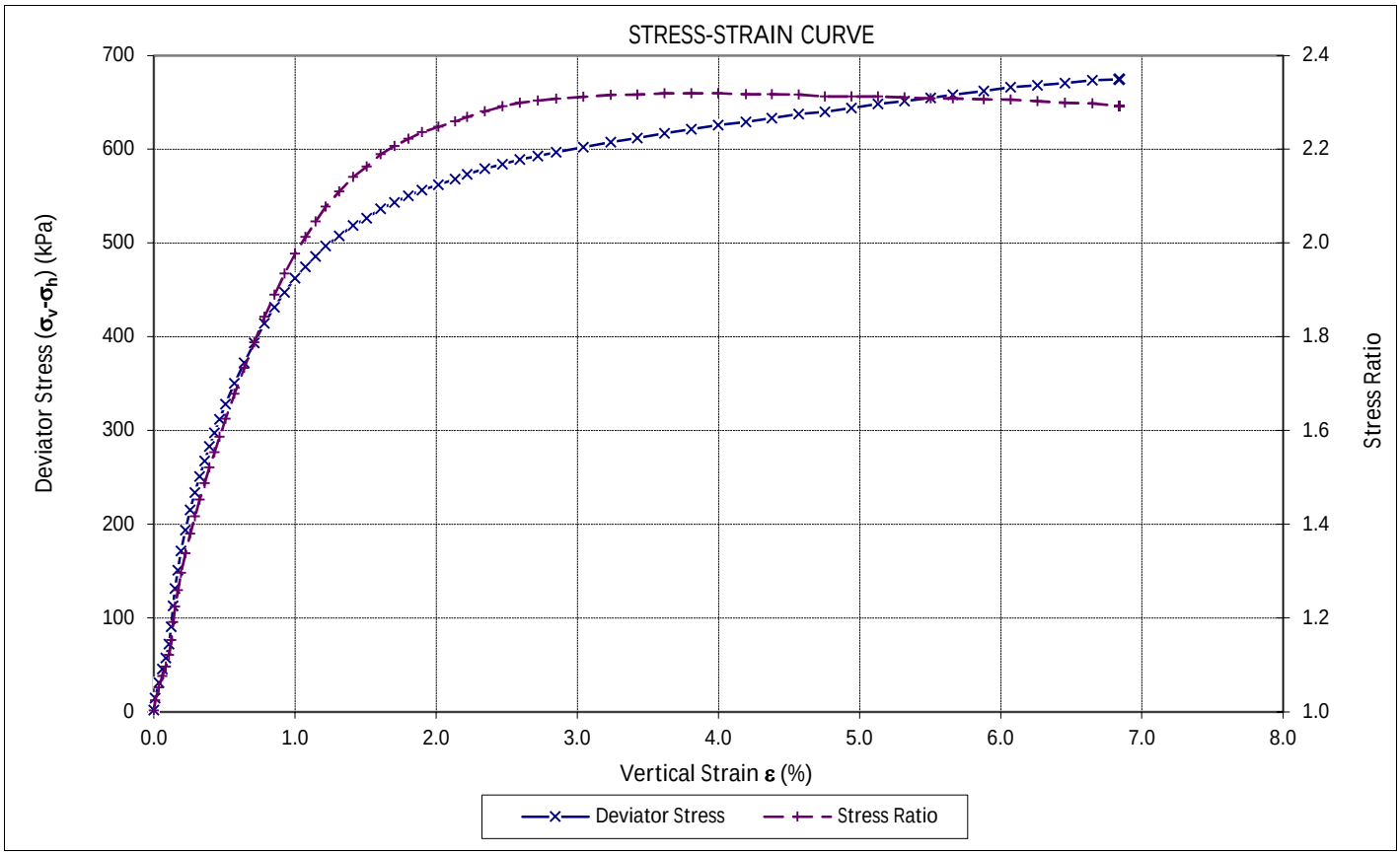
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Geotechnics Project ID: 1102503.0000.0.0
Customer Project ID: --
Test Schedule Reference: --

Site: Bendigo-Ophir Gold Project, Otago Location ID: MDD491
Sample Ref.: -- Geotechnics ID: -- Depth: 22.80 - 22.95 (m)
Test method used: ISO 17892-9:2018 Part 9 Isotropic consolidated-undrained triaxial compression test on water saturated soils (CIU)
NZS 4402:1986 Test 2.1 Determination of Water Content

STAGE 3 GRAPHS





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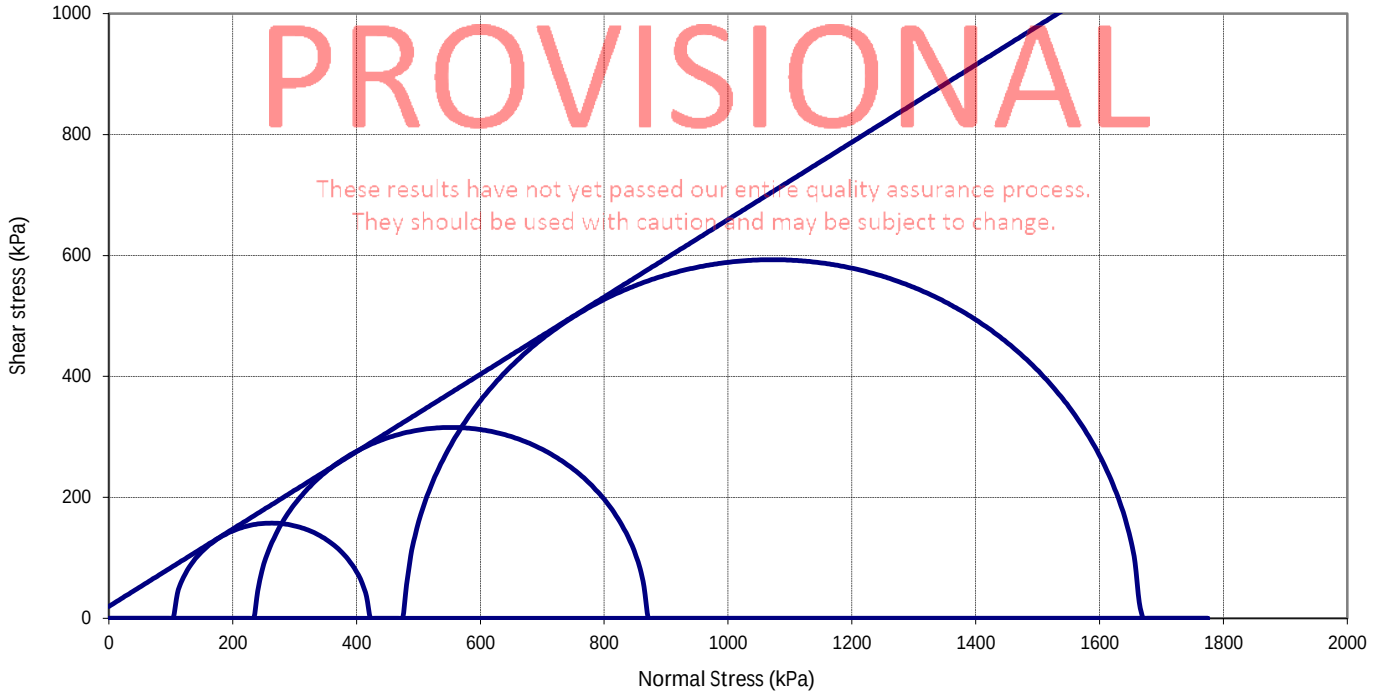
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Customer Project ID: --
Test Schedule Reference: --

Site: Bendigo-Ophir Gold Project, Otago
Location ID: MDD 493
Sample Ref.: --
Geotechnics ID: --
Depth: 28.87 - 29.03 (m)
Test method used: ISO 17892-9:2018 Part 9 Isotropic consolidated-undrained triaxial compression test on water saturated soils (CIU)
NZS 4402:1986 Test 2.1 Determination of Water Content

CONSOLIDATED-UNDRAINED TRIAXIAL COMPRESSION TEST (MULTI-STAGE)

MOHR CIRCLES OF EFFECTIVE STRESSES

PROVISIONAL
These results have not yet passed our entire quality assurance process.
They should be used with caution and may be subject to change.



General Sample Parameters

Initial Sample Height:	164.77	mm	Initial Water Content:		%
Initial Sample Diameter:	83.44	mm	Initial Bulk Density:	2.32	t/m³
Initial B Value:	38	%	Initial Dry Density:		t/m³
B Value before Consolidation:	94	%	Final Water Content:		%

Test Results

	At the End of Consolidation Stage					Failure Values						Failure Mode & Photo
	Effective Stress		Back Pressure (kPa)	Volumetric		Deviator Stress ($\sigma_v' - \sigma_h'$) (kPa)	Vertical Strain ε (%)	Effective Stress		Corrections (kPa)		
	Horizontal σ_h'(kPa)	Vertical σ_v'(kPa)		Strain (%)	Rate (%/hr)			Vertical σ_v' (kPa)	Horizontal σ_h'(kPa)	Membrane $(\Delta\sigma_v)_m$	Filter P $(\Delta\sigma_v)_{fp}$	
Stage 1	163	165	300	2.08	0.00	315.07	2.06	420.17	105.10	0.89	2.75	
Stage 2	325	327	300	1.01	0.03	631.48	2.02	868.78	237.30	0.87	2.74	
Stage 3	650	652	300	1.14	0.00	1186.18	2.95	1664.58	478.40	1.27	2.74	



Effective Strength

Angle of Frictional Resistance:	ϕ' =	33	°
Cohesion:	c' =	20	kPa
Linear Regression Coefficient:	r =	1.000	

Sample History: Undisturbed core trimmed at natural water content.

Soil description:

Test Speed: 0.017 - 0.018 (mm/min)

Test Remarks: The sample was saturated by increments of cell pressure and back pressure.
It was drained from radial boundary and both ends in the consolidation stages.
Failure for each stage was determined by the maximum effective stress ratio. Strength parameters have been derived by using a linear regression fitting method.

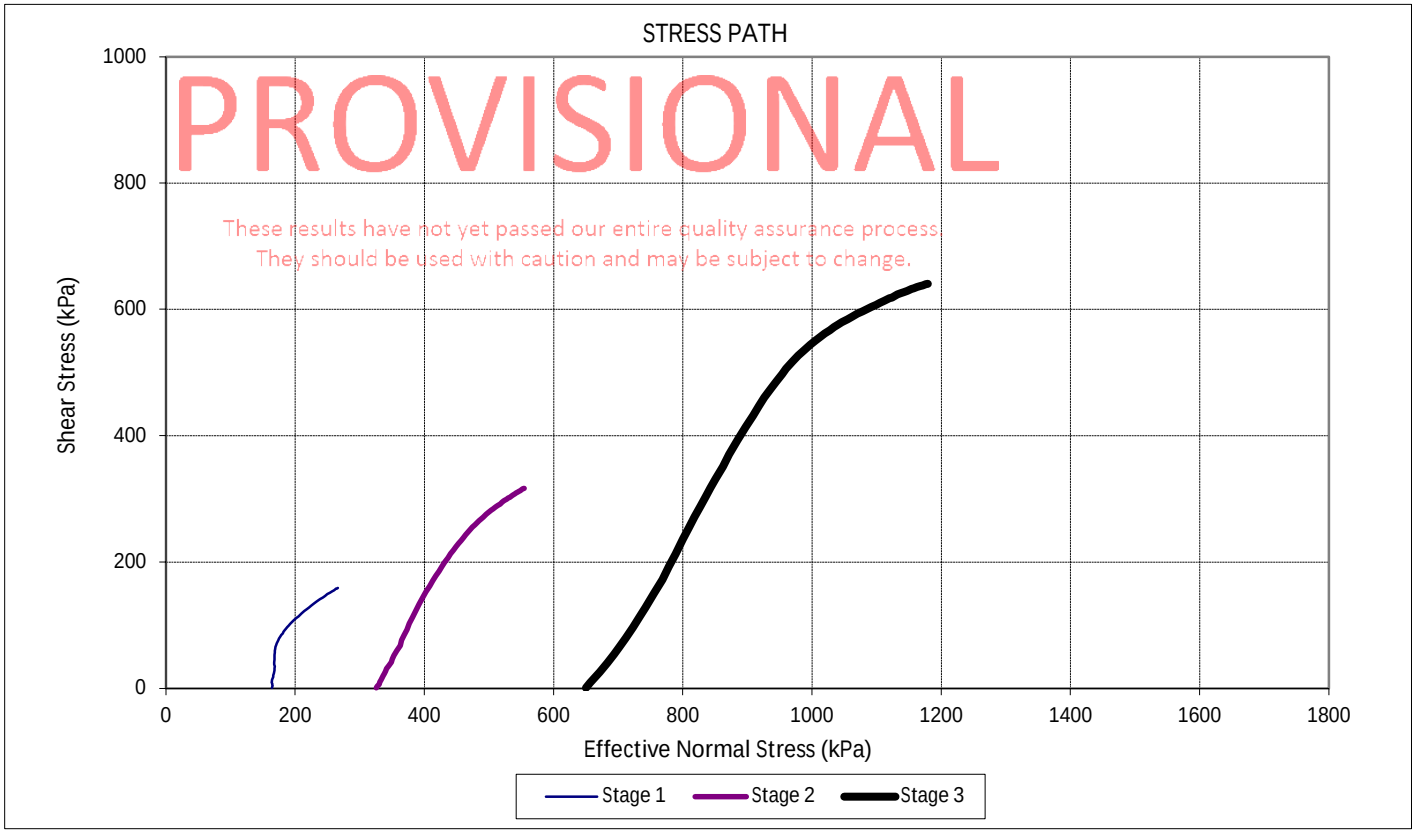
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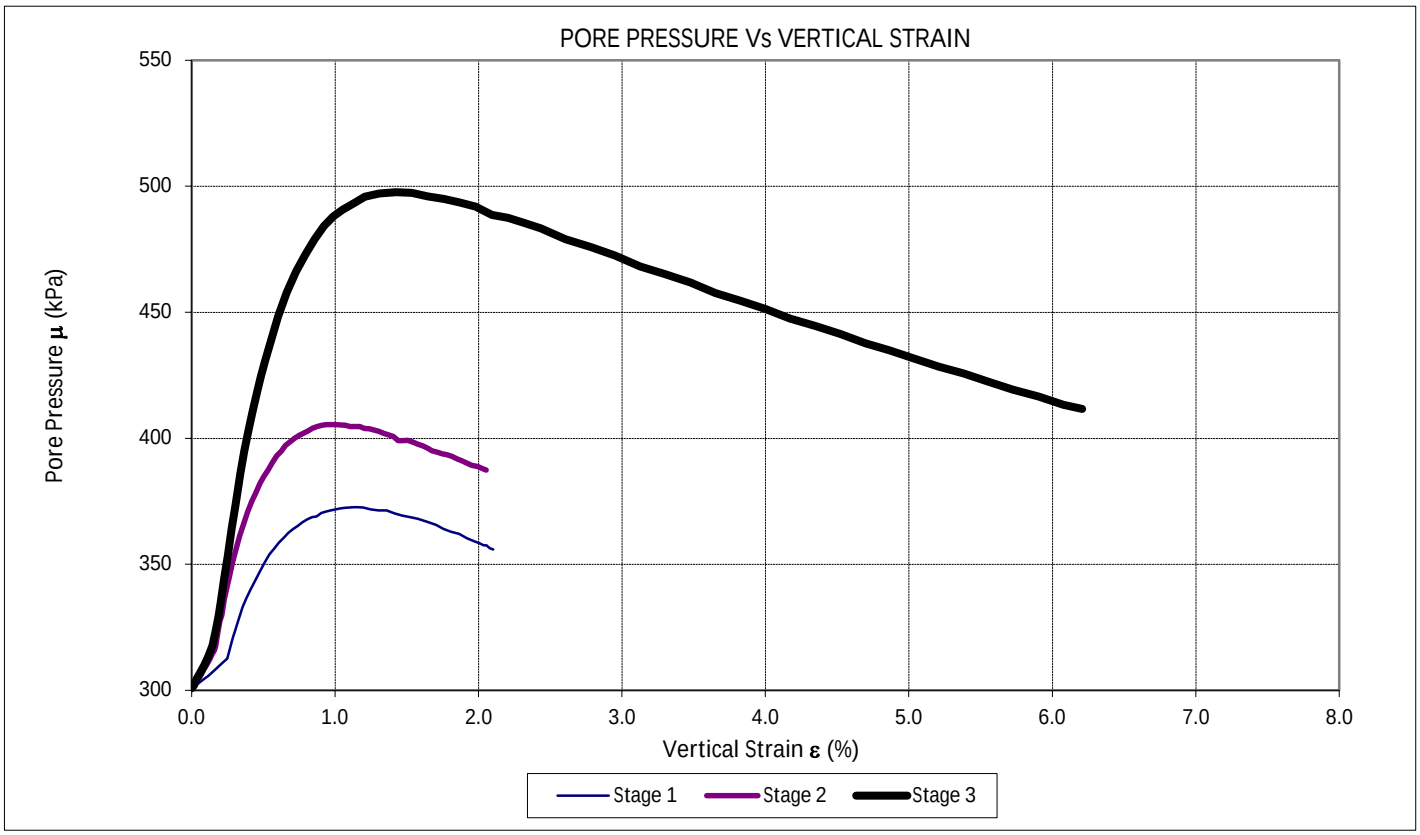
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1 Hill Street
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New Zealand
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Geotechnics Project ID: 1102503.0000.0.0
Customer Project ID: --
Test Schedule Reference: --

Site: Bendigo-Ophir Gold Project, Otago Location ID: MDD 493
Sample Ref.: -- Geotechnics ID: -- Depth: 28.87 - 29.03 (m)
Test method used: ISO 17892-9:2018 Part 9 Isotropic consolidated-undrained triaxial compression test on water saturated soils (CIU)
NZS 4402:1986 Test 2.1 Determination of Water Content

GRAPHS





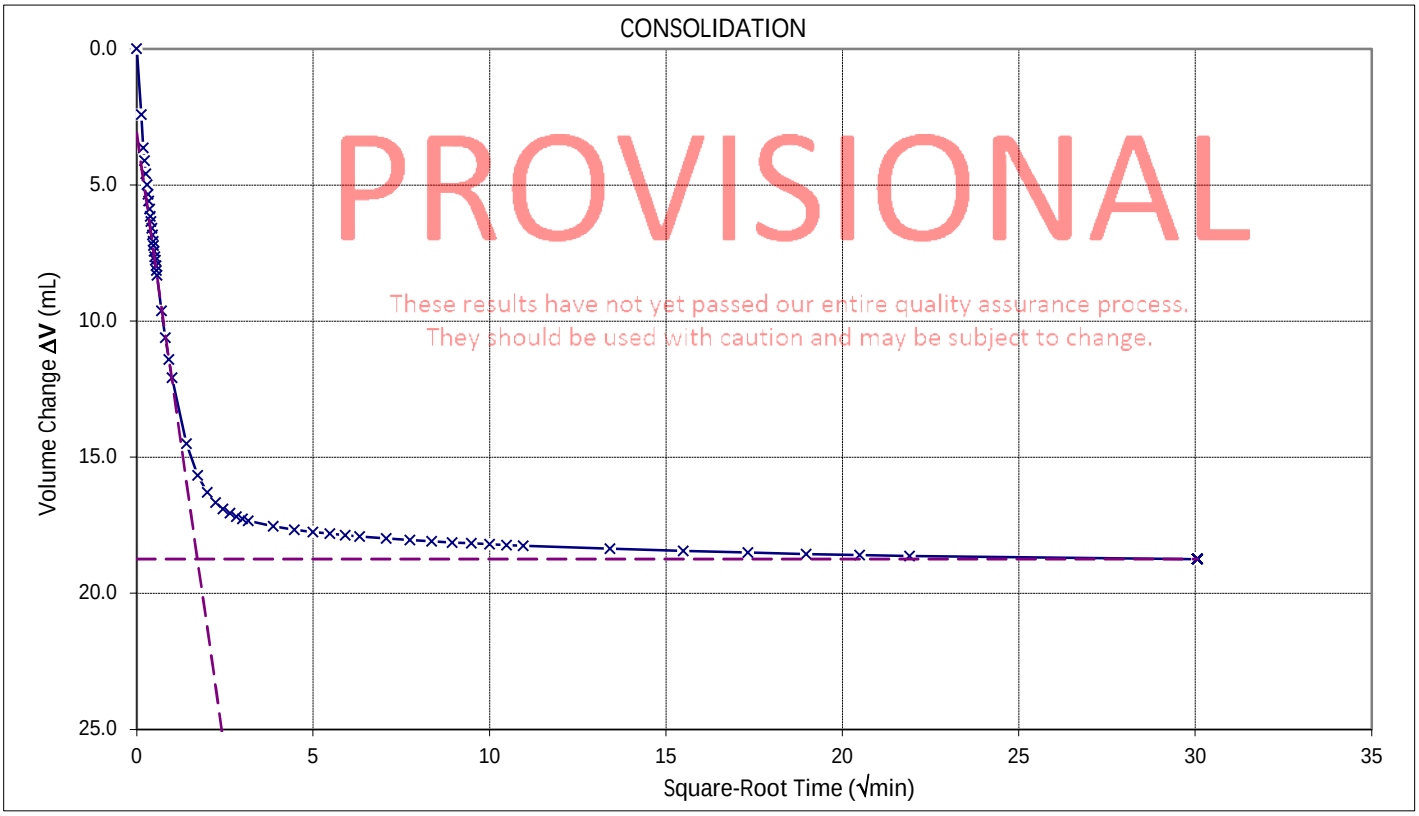
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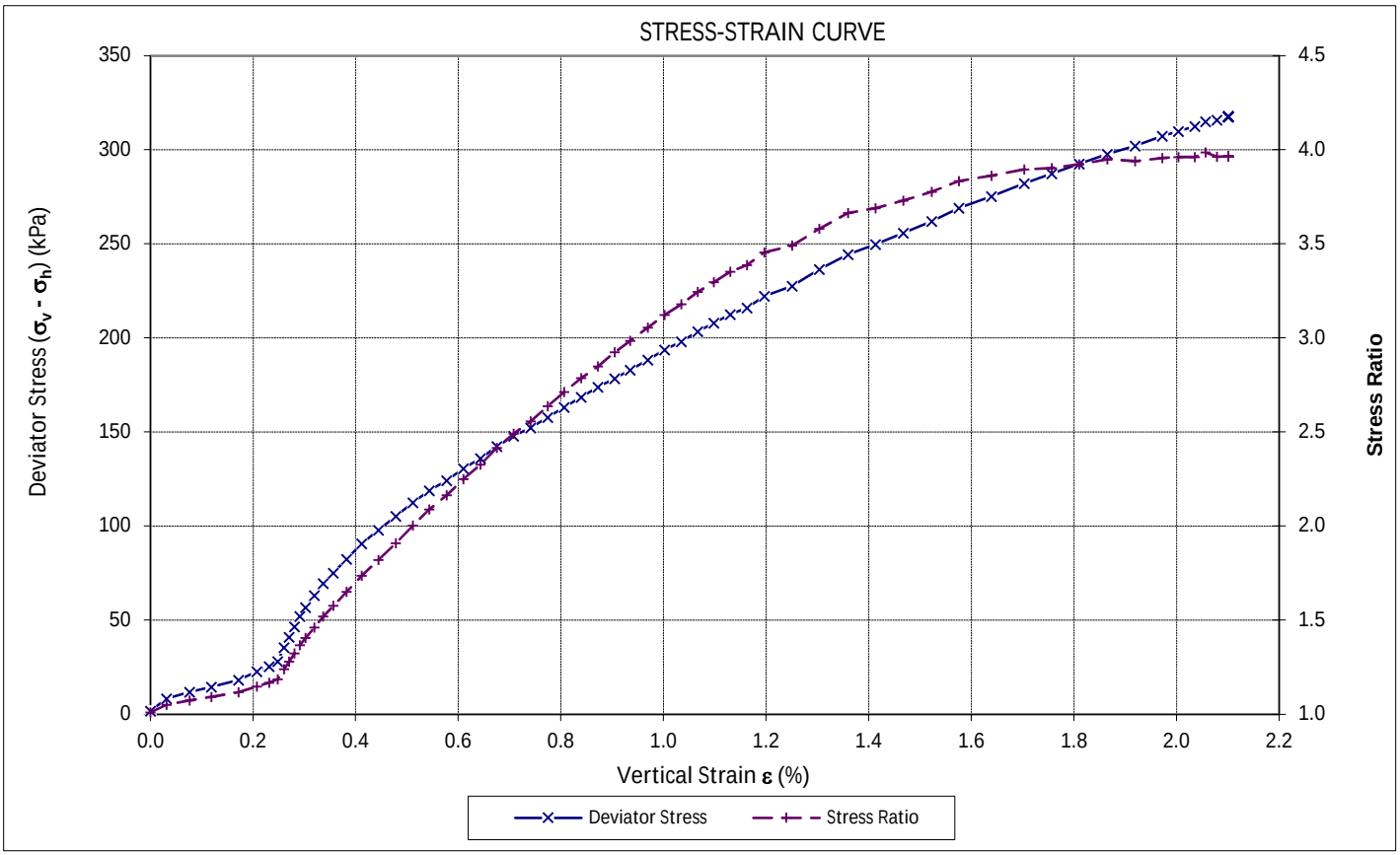
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Geotechnics Project ID: 1102503.0000.0.0
Customer Project ID: --
Test Schedule Reference: --

Site: Bendigo-Ophir Gold Project, Otago
Location ID: MDD 493
Sample Ref.: --
Geotechnics ID: --
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Test method used: ISO 17892-9:2018 Part 9 Isotropic consolidated-undrained triaxial compression test on water saturated soils (CIU)
NZS 4402:1986 Test 2.1 Determination of Water Content

STAGE 1 GRAPHS





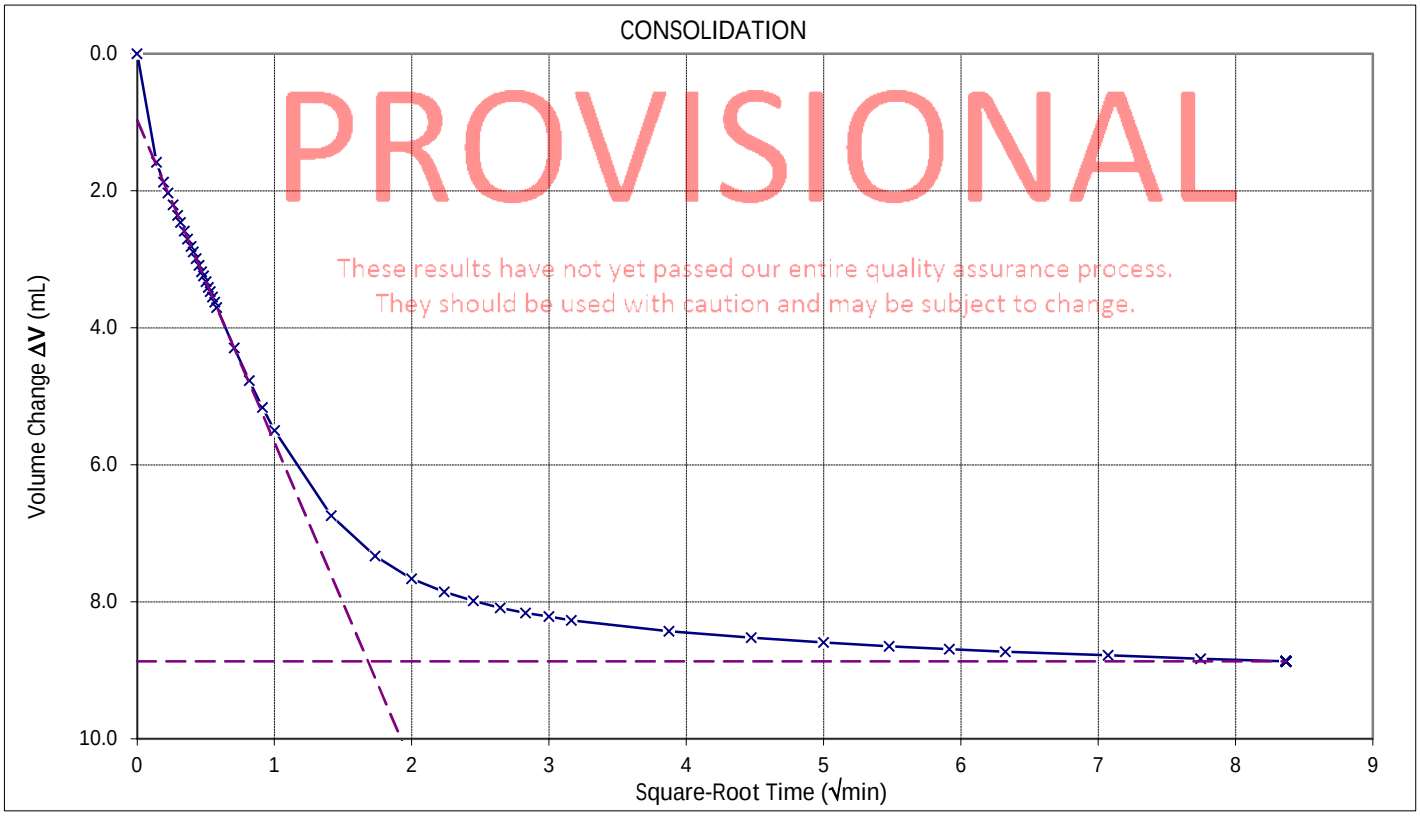
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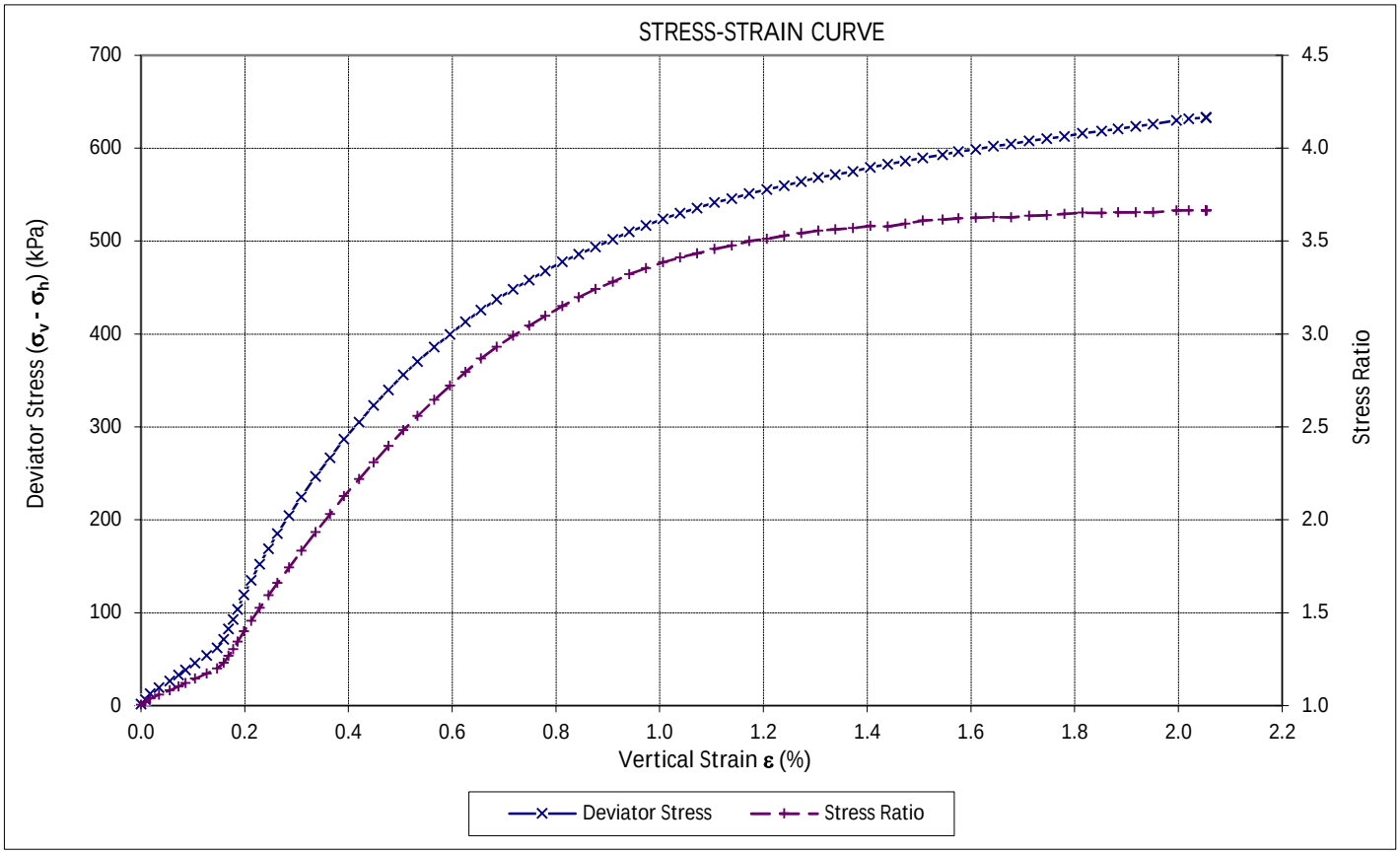
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Geotechnics Project ID: 1102503.0000.0.0
Customer Project ID: --
Test Schedule Reference: --

Site: Bendigo-Ophir Gold Project, Otago Location ID: MDD 493
Sample Ref.: -- Geotechnics ID: -- Depth: 28.87 - 29.03 (m)
Test method used: ISO 17892-9:2018 Part 9 Isotropic consolidated-undrained triaxial compression test on water saturated soils (CIU)
NZS 4402:1986 Test 2.1 Determination of Water Content

STAGE 2 GRAPHS





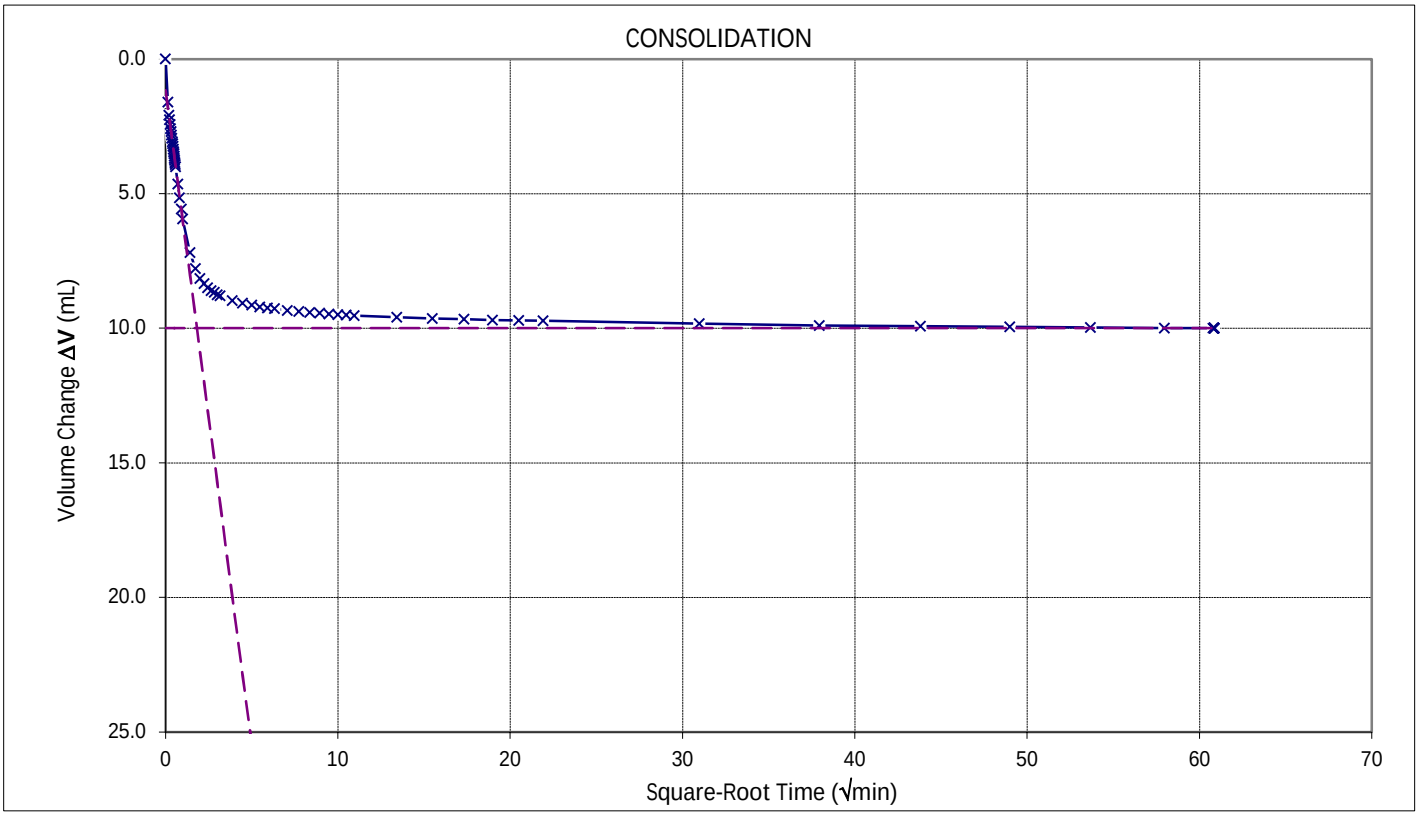
Tested by: Date: Approved by KTP: Date:

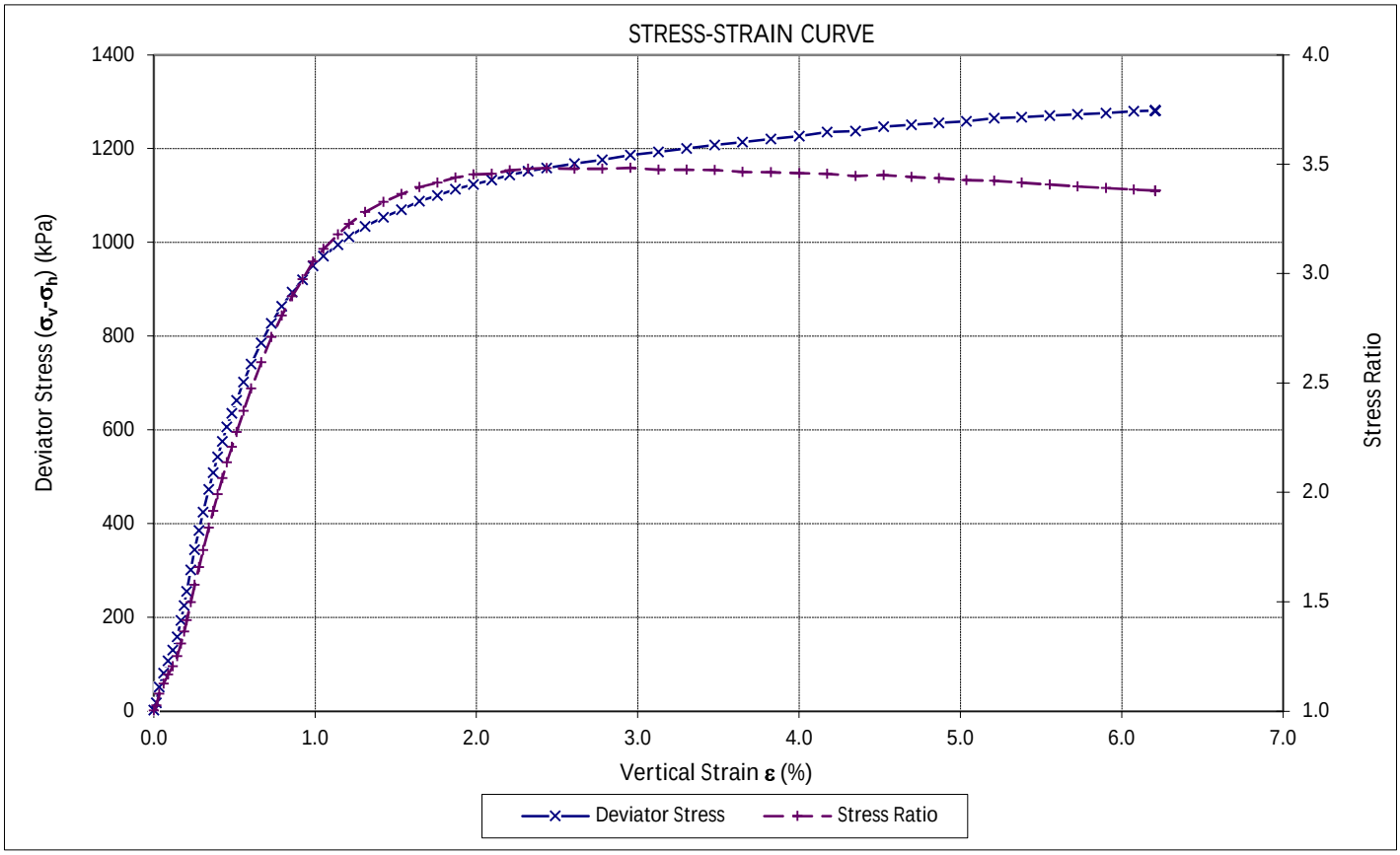
GEOTECHNICS
1 Hill Street
Onehunga
Auckland
New Zealand
p. +64 9 356 3510

Geotechnics Project ID: 1102503.0000.0.0
Customer Project ID: --
Test Schedule Reference: --

Site: Bendigo-Ophir Gold Project, Otago Location ID: MDD 493
Sample Ref.: -- Geotechnics ID: -- Depth: 28.87 - 29.03 (m)
Test method used: ISO 17892-9:2018 Part 9 Isotropic consolidated-undrained triaxial compression test on water saturated soils (CIU)
NZS 4402:1986 Test 2.1 Determination of Water Content

STAGE 3 GRAPHS





Tested by: Date: Approved by KTP: Date:

UCS Test

Central Testing Services
18 Ngapara St, P.O. Box 397, Alexandra 9340, Central Otago, New Zealand
P: 03 4487644, W: www.centraltesting.co.nz, E: info@centraltesting.co.nz

Reference No: CTS26W0395

Date: 17 February 2026

TEST REPORT – SANTANA MINERALS INVESTIGATIONS

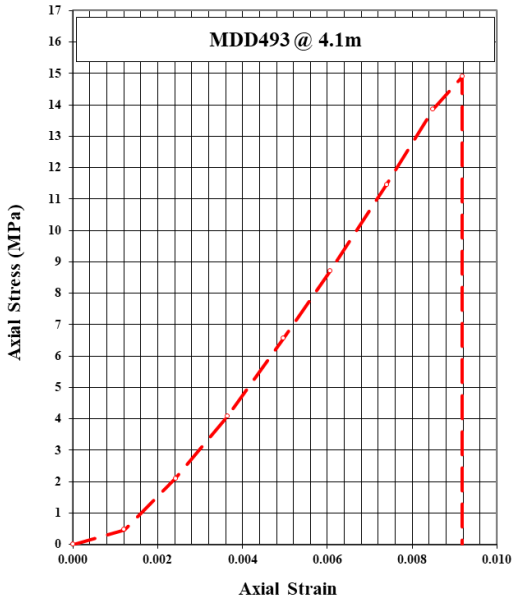
Client Details:	**Engineering Geology Ltd, P.O. Box 301054, Albany, Auckland**	**Attention:**	**S. Cook**
Job Description:	**Santana Minerals Investigations**		
Sample Description:	**Rock Core**	**Client Order No:**	**N/A**
Sample Source: (cs)	**MDD493**	**Sample Depth: (cs)**	**4.1m**
Date & Time Sampled:	**Unknown**	**Sampled By:**	**Unknown**
Sample Method: (cs)	**Core**	**Date Received:**	**5-Feb-26**

UNCONFINED COMPRESSIVE STRENGTH - AS 4133.4.2.2-2013; NZS 4402:1986, Test 6.3.1
WATER CONTENT - NZS 4402:1986, Test 2.1

Sample Diameter: (mm)	**82.9**
Sample Length: (mm)	**164.9**
Length / Diameter Ratio:	**1.99**
Bulk Density: (t/m³)	**2.68**
Water Content: (%)	**0.6**
Dry Density (t/m³)	**2.66**
Strain @ Failure:	**0.92 %**
Load @ Failure:	**81.136 kN**
Unconfined Compressive Strength:	**14.9 MPa**

Notes:

- *Dry density rounded to the nearest 0.01 t/m³.*
- *The rate of axial compression was 0.10 mm/min.*





General Note:

- *This report may not be reproduced except in full.*
- *Information contained in this report which is Not IANZ Accredited relates to the client supplied information (cs) and sampling.*
- *The samples received were in a natural state.*

Tested By: L.T. Smith **Date:** 11-Feb-26

Checked By: L.T. Smith

ACCREDITED IANZ TESTING LABORATORY №434

Test results indicated as not accredited are outside the scope of the laboratory's accreditation

Central Testing Services
18 Ngapara St, P.O. Box 397, Alexandra 9340, Central Otago, New Zealand
P: 03 4487644, W: www.centraltesting.co.nz, E: info@centraltesting.co.nz

Reference No: CTS26W0395

Date: 17 February 2026

TEST REPORT – SANTANA MINERALS INVESTIGATIONS

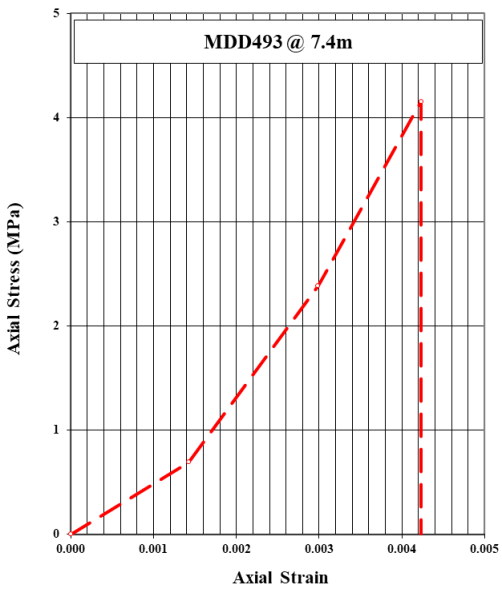
Client Details:	**Engineering Geology Ltd, P.O. Box 301054, Albany, Auckland**	**Attention:**	**S. Cook**
Job Description:	**Santana Minerals Investigations**		
Sample Description:	**Rock Core**	**Client Order No:**	**N/A**
Sample Source: (cs)	**MDD493**	**Sample Depth: (cs)**	**7.4m**
Date & Time Sampled:	**Unknown**	**Sampled By:**	**Unknown**
Sample Method: (cs)	**Core**	**Date Received:**	**5-Feb-26**

UNCONFINED COMPRESSIVE STRENGTH - AS 4133.4.2.2-2013; NZS 4402:1986, Test 6.3.1
WATER CONTENT - NZS 4402:1986, Test 2.1 & Length / Diameter Corrected Compressive Strength - ASTM C42 / C42M

Sample Diameter: (mm)	**82.2**
Sample Length: (mm)	**140.6**
Length / Diameter Ratio:	**1.71**
Bulk Density: (t/m^3)	**2.70**
Water Content: (%)	**0.6**
Dry Density (t/m^3)	**2.68**
Strain @ Failure:	**0.42 %**
Load @ Failure:	**22.148 kN**
Unconfined Compressive Strength:	**4.2 MPa**

Notes:

- *Dry density rounded to the nearest 0.01 t/m^3.*
- *The rate of axial compression was 0.10 mm/min.*
- *Length / Diameter Correction of 0.9768 = 4.1MPa*





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Tested By: L.T. Smith **Date: 11-Feb-26**

Checked By: L.T Smith

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Reference No: CTS26W0395

Date: 17 February 2026

TEST REPORT – SANTANA MINERALS INVESTIGATIONS

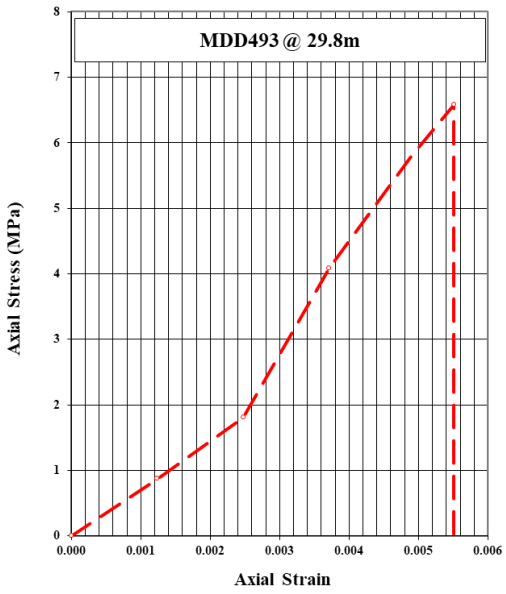
Client Details:	**Engineering Geology Ltd, P.O. Box 301054, Albany, Auckland**	**Attention:**	**S. Cook**
Job Description:	**Santana Minerals Investigations**		
Sample Description:	**Rock Core**	**Client Order No:**	**N/A**
Sample Source: (cs)	**MDD493**	**Sample Depth: (cs)**	**29.8m**
Date & Time Sampled:	**Unknown**	**Sampled By:**	**Unknown**
Sample Method: (cs)	**Core**	**Date Received:**	**5-Feb-26**

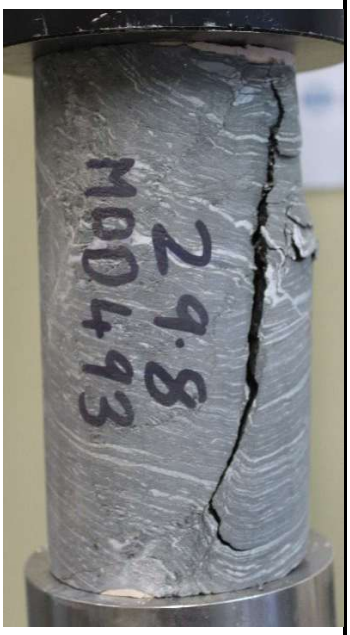
UNCONFINED COMPRESSIVE STRENGTH - AS 4133.4.2.2-2013; NZS 4402:1986, Test 6.3.1
WATER CONTENT - NZS 4402:1986, Test 2.1

Sample Diameter: (mm)	**83.0**
Sample Length: (mm)	**161.5**
Length / Diameter Ratio:	**1.95**
Bulk Density: (t/m³)	**2.66**
Water Content: (%)	**0.8**
Dry Density (t/m³)	**2.63**
Strain @ Failure:	**0.55 %**
Load @ Failure:	**35.187 kN**
Unconfined Compressive Strength:	**6.5 MPa**

Notes:

- *Dry density rounded to the nearest 0.01 t/m³.*
- *The rate of axial compression was 0.10 mm/min.*





General Note:

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- *The samples received were in a natural state.*

Tested By: L.T. Smith **Date:** 11-Feb-26

Checked By: L.T Smith

Approved Signatory

L.T Smith

L.T. Smith
Key Technical Personnel

ACCREDITED IANZ TESTING LABORATORY №434

Test results indicated as not accredited are outside the scope of the laboratory's accreditation

PSD and CompactionTest

Central Testing Services
18 Ngapara St, P.O. Box 397, Alexandra 9340, Central Otago, New Zealand
P: 03 4487644, W: www.centraltesting.co.nz, E: info@centraltesting.co.nz

Reference No: CTS25W4645-2A

Date: 13 April 2026

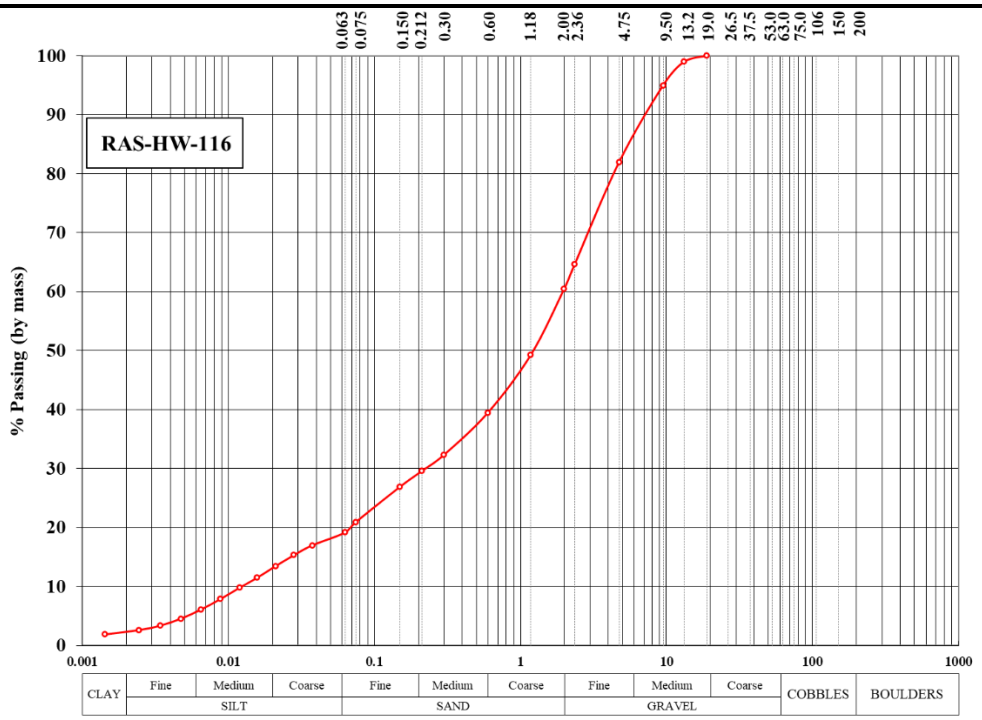
TEST REPORT – SANTANA MINERALS INVESTIGATIONS

Client Details:	**Engineering Geology Ltd, P.O. Box 301054, Albany, Auckland**	**Attention:**	**S. Cook**
Job Description:	**Santana Minerals Investigations**		
Sample Description:	**GRAVEL & SAND with some silt & trace of clay**	**Client Order No:**	**Unknown**
Sample Source: (cs)	**RAS-HW-116**	**Sample Label No:**	**N/A**
Date & Time Sampled:	**Unknown**	**Sampled By:**	**Unknown**
Sample Method:	**Unknown**	**Date Received:**	**16-Dec-25**

PARTICLE SIZE ANALYSIS (NZS 4402:1986, Test 2.8.1 & 2.8.4)

Test Sieve (mm)	% Passing (by mass)
37.5	
26.5	
19.0	100
13.2	99
9.50	95
4.75	82
2.36	65
2.00	60
1.18	49
0.60	39
0.30	32
0.212	30
0.150	27
0.075	21
0.063	19

Fraction Size	Interpolated % Passing
60 µm	19
20 µm	13
6 µm	6
2 µm	2



The sample was received in a natural state. The percentage passing the 63µm test sieve was obtained by difference. The pH of the hydrometer suspension was 9.5. Sodium hexametaphosphate was used as a dispersant.

PARTICLE SIZE ANALYSIS & HYDROMETER ANALYSIS RESULTS - NZS 4402:1986, Test 2.8.1 & 2.8.4

Description	Fraction Range	% Within Range	Description	Fraction Range	% Within Range
Coarse Gravel	60.0 mm to 20.0 mm	-	Fine Sand	200 µm to 60 µm	10
Medium Gravel	20.0 mm to 6.0 mm	15	Coarse Silt	60 µm to 20 µm	6
Fine Gravel	6.0 mm to 2.00 mm	25	Medium Silt	20 µm to 6 µm	7
Coarse Sand	2.00 mm to 600 µm	21	Fine Silt	6 µm to 2 µm	4
Medium Sand	600 µm to 200 µm	10	Clay	< 2 µm	2

Notes:

- *This is an amended report which replaces CTS25W4645-1, dated 6-Mar-26 and CTS25W4645-2, dated 11-Mar-26. Changes have been made to page 4 & page 12 – test methods, methodology and % oversize. Fraction size of test for page 3 & page 11. The original reports should be deleted.*
- *Note: Post compaction grading on -19mm material.*
- *Information contained in this report which is Not IANZ Accredited relates to the sample description based on NZ Geotechnical Society Guidelines 2005, the client supplied information (cs) and sampling.*
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Tested By: M.D, H.C, L.T.S & C.J **Date:** 23-Jan-26 to 11-Mar-26

Checked By: L.T.S

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Central Testing Services
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Reference No: CTS25W4645-2A

Date: 13 April 2026

TEST REPORT – SANTANA MINERALS INVESTIGATIONS

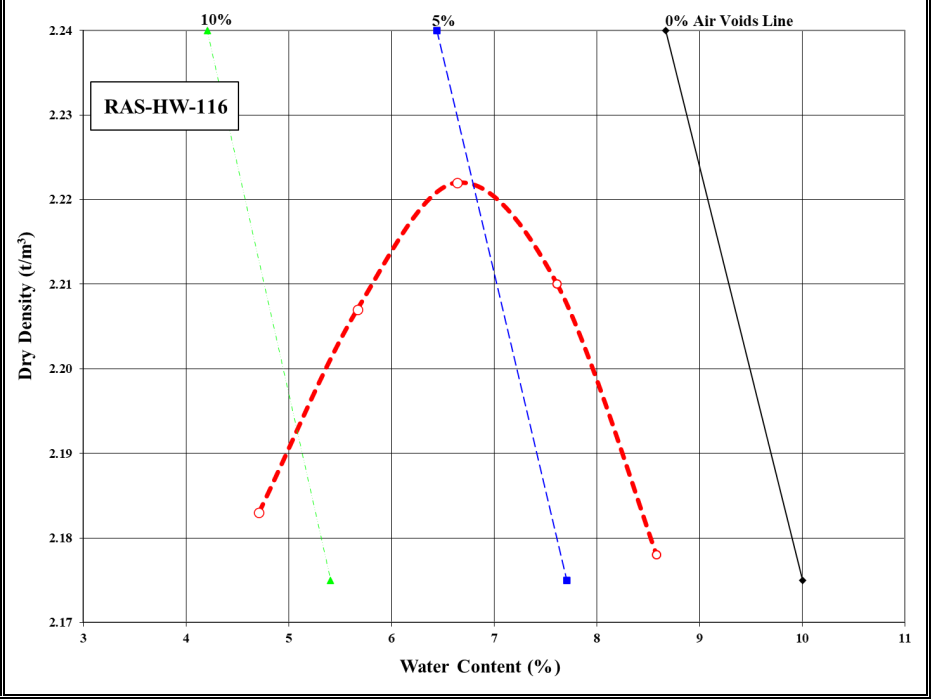
Client Details:	**Engineering Geology Ltd, P.O. Box 301054, Albany, Auckland**	**Attention:**	**S. Cook**
Job Description:	**Santana Minerals Investigations**		
Sample Description:	**GRAVEL & SAND with some silt & trace of clay**	**Client Order No:**	**Unknown**
Sample Source: (cs)	**RAS-HW-116**	**Sample Label No:**	**Unknown**
Date & Time Sampled:	**Unknown**	**Sampled By:**	**Unknown**
Sample Method:	**Unknown**	**Date Received:**	**16-Dec-25**

WATER CONTENT & NZ HEAVY COMPACTION - NZS 4402:1986, Test 2.1 & 4.1.2
DRY DENSITY & ABSORPTION - NZS 3111:1986, Test 12

% Retained (+19.0mm Fraction)	**24.0 %**
Water Content: ("All In" As Received)	**2.4 %**
Dry Density: (+19.0mm Fraction)	**2.51 t/m^3**
Absorption (+19.0mm Fraction)	**3.5 %**
Maximum Dry Density: (-19.0mm Fraction)	**2.22 t/m^3**
Optimum Water Content: (-19.0mm Fraction)	**7.0 %**

Notes:

- *The sample was received in a natural state.*
- *The material tested in the NZ Heavy Compaction test was the fraction passing a 19.0mm test sieve.*
- *The air voids lines were calculated from an assumed solid density of 2.70 t/m^3.*



Notes:

- *This is an amended report which replaces CTS25W4645-1, dated 6-Mar-26 and CTS25W4645-2, dated 11-Mar-26. Changes have been made to page 4 & page 12 – test methods, methodology and % oversize. Fraction size of test for page 3 & page 11. The original reports should be deleted.*
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Tested By: M.D, H.C, L.T.S & C.J **Date:** 23-Jan-26 to 11-Mar-26

Checked By: L.T.S

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Reference No: CTS25W4645-2A

Date: 13 April 2026

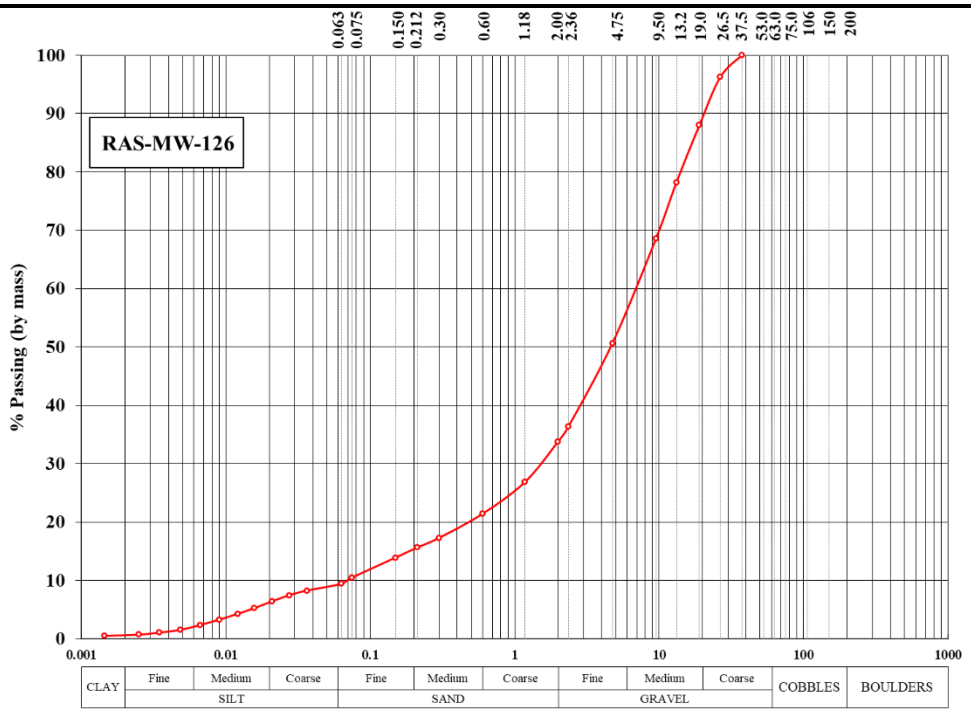
TEST REPORT – SANTANA MINERALS INVESTIGATIONS

Client Details:	**Engineering Geology Ltd, P.O. Box 301054, Albany, Auckland**	**Attention:**	**S. Cook**
Job Description:	**Santana Minerals Investigations**		
Sample Description:	**Sandy GRAVEL with minor silt & trace of clay**	**Client Order No:**	**Unknown**
Sample Source: (cs)	**RAS-MW-126**	**Sample Label No:**	**N/A**
Date & Time Sampled:	**Unknown**	**Sampled By:**	**Unknown**
Sample Method:	**Unknown**	**Date Received:**	**16-Dec-25**

PARTICLE SIZE ANALYSIS (NZS 4402:1986, Test 2.8.1 & 2.8.4)

Test Sieve (mm)	% Passing (by mass)
37.5	100
26.5	96
19.0	88
13.2	78
9.50	69
4.75	51
2.36	36
2.00	34
1.18	27
0.60	21
0.30	17
0.212	16
0.150	14
0.075	10
0.063	9

Fraction Size	Interpolated % Passing
60 µm	9
20 µm	6
6 µm	2
2 µm	1



The sample was received in a natural state. The percentage passing the 63µm test sieve was obtained by difference. The pH of the hydrometer suspension was 9.0. Sodium hexametaphosphate was used as a dispersant.

PARTICLE SIZE ANALYSIS & HYDROMETER ANALYSIS RESULTS - NZS 4402:1986, Test 2.8.1 & 2.8.4

Description	Fraction Range	% Within Range	Description	Fraction Range	% Within Range
Coarse Gravel	60.0 mm to 20.0 mm	11	Fine Sand	200 µm to 60 µm	6
Medium Gravel	20.0 mm to 6.0 mm	34	Coarse Silt	60 µm to 20 µm	3
Fine Gravel	6.0 mm to 2.00 mm	21	Medium Silt	20 µm to 6 µm	4
Coarse Sand	2.00 mm to 600 µm	13	Fine Silt	6 µm to 2 µm	1
Medium Sand	600 µm to 200 µm	6	Clay	< 2 µm	1

Notes:

- *This is an amended report which replaces CTS25W4645-1, dated 6-Mar-26 and CTS25W4645-2, dated 11-Mar-26. Changes have been made to page 4 & page 12 – test methods, methodology and % oversize. Fraction size of test for page 3 & page 11. The original reports should be deleted.*
- *Note: Post compaction grading on -37.5mm material.*
- *Information contained in this report which is Not IANZ Accredited relates to the sample description based on NZ Geotechnical Society Guidelines 2005, the client supplied information (cs) and sampling.*
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Tested By: M.D, H.C, L.T.S, C.J **Date:** 23-Jan-26 to 11-Mar-26

Checked By:

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Reference No: CTS25W4645-2A

Date: 13 April 2026

TEST REPORT – SANTANA MINERALS INVESTIGATIONS

Client Details:	**Engineering Geology Ltd, P.O. Box 301054, Albany, Auckland**	**Attention:**	**S. Cook**
Job Description:	**Santana Minerals Investigations**		
Sample Description:	**Sandy GRAVEL with minor silt & trace of clay**	**Client Order No:**	**Unknown**
Sample Source: (cs)	**RAS-MW-126**	**Sample Label No:**	**N/A**
Date & Time Sampled:	**Unknown**	**Sampled By:**	**Unknown**
Sample Method:	**Unknown**	**Date Received:**	**16-Dec-25**

NZ HEAVY COMPACTION, OPTIMUM WATER CONTENT & SOLID DENSITY RESULTS

% Retained: (+37.5mm Fraction)	**0.0 %**
Solid Density: (-37.5mm Fraction)	**2.79 t/m^3**
Water Content: (As Received)	**0.7 %**
Maximum Dry Density: (-37.5mm Fraction)	**2.29 t/m^3**
Optimum Water Content: (-37.5mm Fraction)	**5.0 %**

Test Methods:

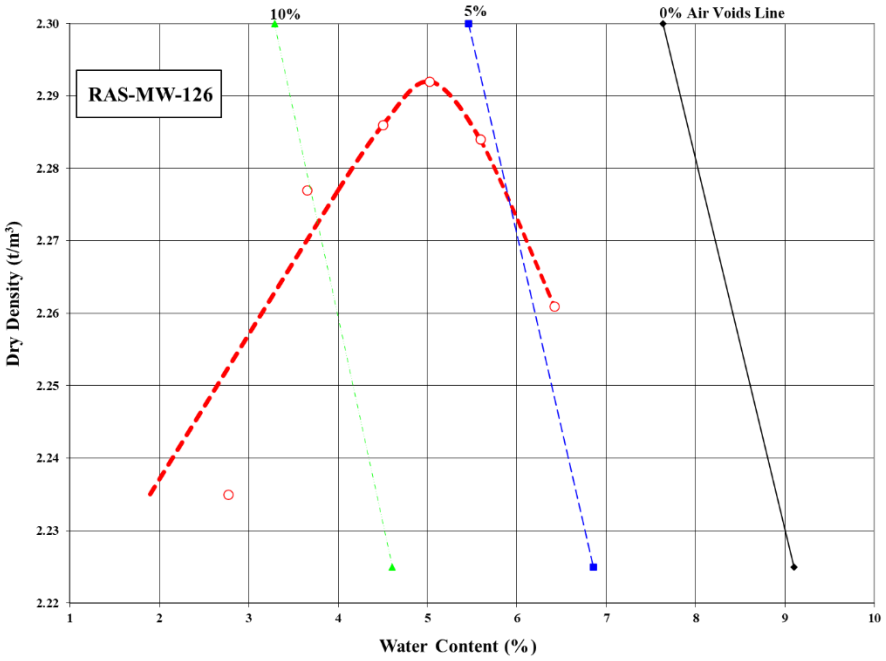
Water Content: NZS 4402:1986, Test 2.1

Solid Density: NZS 4402:1986, Test 2.7.1

NZ Heavy Compaction: NZS 4402:1986, Test 4.1.2

Notes:

- *The material was received in a natural state.*
- *The material tested in the NZ Heavy Compaction test was the fraction passing a 37.5mm test sieve. The sample was compacted in a laboratory CBR mould in accordance with Note 1b.*
- *The air voids lines were calculated from the tested solid density above.*



Notes:

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Tested By: M.D, H.C, L.T.S, C.J **Date:** 23-Jan-26 to 11-Mar-26

Checked By:

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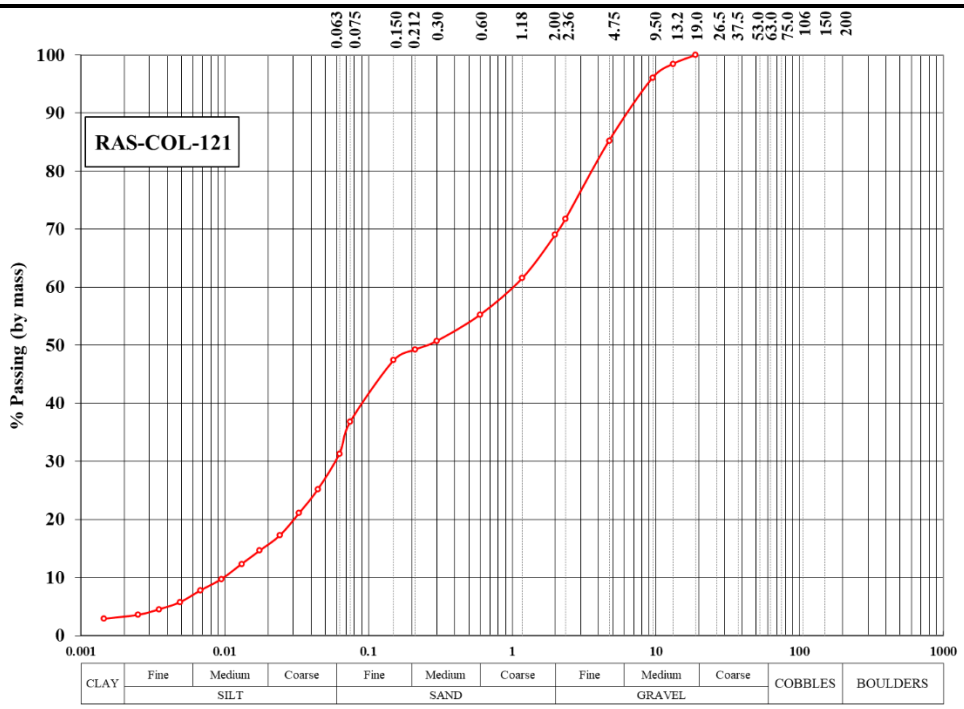
TEST REPORT – SANTANA MINERALS INVESTIGATIONS

Client Details:	**Engineering Geology Ltd, P.O. Box 301054, Albany, Auckland**	**Attention:**	**S. Cook**
Job Description:	**Santana Minerals Investigations**		
Sample Description:	**Silty GRAVEL & SAND with trace of clay**	**Client Order No:**	**Unknown**
Sample Source: (cs)	**RAS-COL-121**	**Sample Label No:**	**N/A**
Date & Time Sampled:	**Unknown**	**Sampled By:**	**Unknown**
Sample Method:	**Unknown**	**Date Received:**	**16-Dec-25**

PARTICLE SIZE ANALYSIS (NZS 4402:1986, Test 2.8.1 & 2.8.4)

Test Sieve (mm)	% Passing (by mass)
37.5	
26.5	
19.0	100
13.2	98
9.50	96
4.75	85
2.36	72
2.00	69
1.18	62
0.60	55
0.30	51
0.212	49
0.150	47
0.075	37
0.063	31

Fraction Size	Interpolated % Passing
60 µm	30
20 µm	16
6 µm	7
2 µm	3



The sample was received in a natural state. The percentage passing the 63µm test sieve was obtained by difference. The pH of the hydrometer suspension was 9.5. Sodium hexametaphosphate was used as a dispersant.

PARTICLE SIZE ANALYSIS & HYDROMETER ANALYSIS RESULTS - NZS 4402:1986, Test 2.8.1 & 2.8.4

Description	Fraction Range	% Within Range	Description	Fraction Range	% Within Range
Coarse Gravel	60.0 mm to 20.0 mm	-	Fine Sand	200 µm to 60 µm	19
Medium Gravel	20.0 mm to 6.0 mm	12	Coarse Silt	60 µm to 20 µm	14
Fine Gravel	6.0 mm to 2.00 mm	19	Medium Silt	20 µm to 6 µm	9
Coarse Sand	2.00 mm to 600 µm	14	Fine Silt	6 µm to 2 µm	4
Medium Sand	600 µm to 200 µm	6	Clay	< 2 µm	3

Notes:

- *This is an amended report which replaces CTS25W4645-1, dated 6-Mar-26 and CTS25W4645-2, dated 11-Mar-26. Changes have been made to page 4 & page 12 – test methods, methodology and % oversize. Fraction size of test for page 3 & page 11. The original reports should be deleted.*
- *Note: Post compaction grading on -19mm material.*
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Tested By: M.D, H.C, L.T.S, C.J **Date:** 23-Jan-26 to 11-Mar-26

Checked By: L.T.S

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Reference No: CTS25W4645-2A

Date: 13 April 2026

TEST REPORT – SANTANA MINERALS INVESTIGATIONS

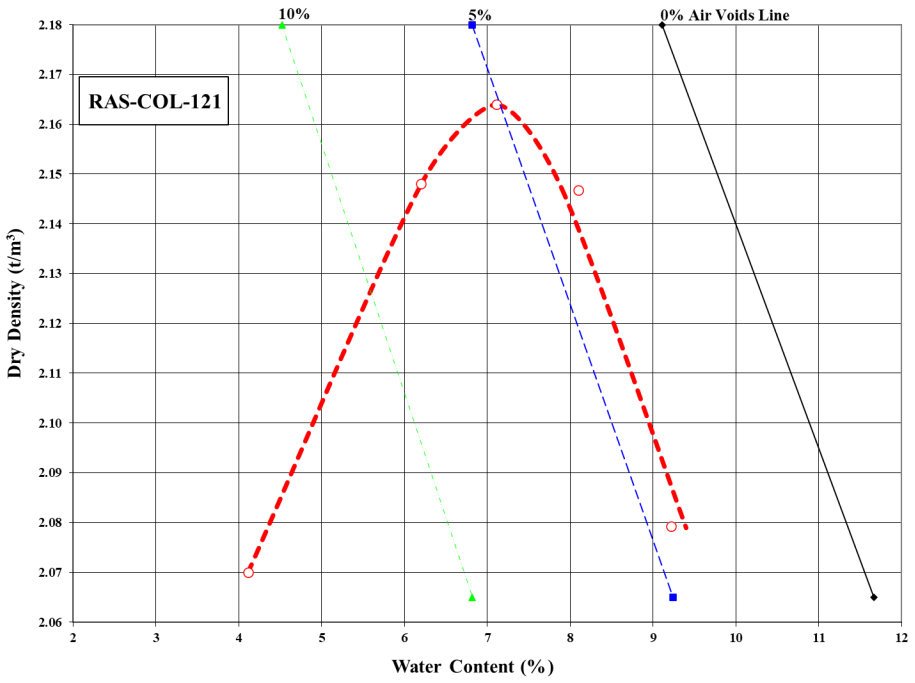
Client Details:	**Engineering Geology Ltd, P.O. Box 301054, Albany, Auckland**	**Attention:**	**S. Cook**
Job Description:	**Santana Minerals Investigations**		
Sample Description:	**Silty GRAVEL & SAND with trace of clay**	**Client Order No:**	**Unknown**
Sample Source: (cs)	**RAS-COL-121**	**Sample Label No:**	**N/A**
Date & Time Sampled:	**Unknown**	**Sampled By:**	**Unknown**
Sample Method:	**Unknown**	**Date Received:**	**16-Dec-25**

WATER CONTENT & NZ HEAVY COMPACTION - NZS 4402:1986, Test 2.1 & 4.1.2
DRY DENSITY & ABSORPTION - NZS 3111:1986, Test 12

% Retained (+19.0mm Fraction)	**5.0 %**
Water Content: ("All In" As Received)	**2.4 %**
Dry Density: (+19.0mm Fraction)	**2.57 t/m^3**
Absorption (+19.0mm Fraction)	**1.5 %**
Maximum Dry Density: (-19.0mm Fraction)	**2.16 t/m^3**
Optimum Water Content: (-19.0mm Fraction)	**7.0 %**

Notes:

- *The sample was received in a natural state.*
- *The material tested in the NZ Heavy Compaction test was the fraction passing a 19.0mm test sieve.*
- *The air voids lines were calculated from an assumed solid density of 2.70 t/m^3.*



Notes:

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Tested By: M.D, H.C, L.T.S, C.J **Date:** 23-Jan-26 to 11-Mar-26

Checked By: L.T.S

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Reference No: CTS25W4645-2A

Date: 13 April 2026

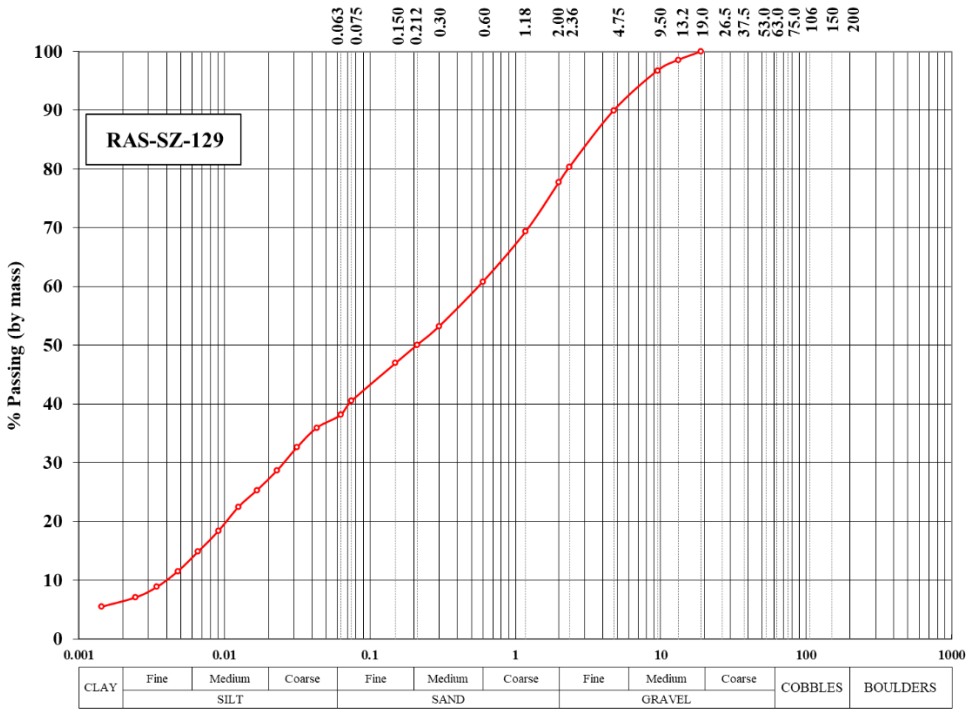
TEST REPORT – SANTANA MINERALS INVESTIGATIONS

Client Details:	**Engineering Geology Ltd, P.O. Box 301054, Albany, Auckland**	**Attention:**	**S. Cook**
Job Description:	**Santana Minerals Investigations**		
Sample Description:	**GRAVEL, SAND & SILT with minor clay**	**Client Order No:**	**Unknown**
Sample Source: (cs)	**RAS-SZ-129**	**Sample Label No:**	**N/A**
Date & Time Sampled:	**Unknown**	**Sampled By:**	**Unknown**
Sample Method:	**Unknown**	**Date Received:**	**16-Dec-25**

PARTICLE SIZE ANALYSIS (NZS 4402:1986, Test 2.8.1 & 2.8.4)

Test Sieve (mm)	% Passing (by mass)
37.5	
26.5	
19.0	100
13.2	99
9.50	97
4.75	90
2.36	80
2.00	78
1.18	69
0.60	61
0.30	53
0.212	50
0.150	47
0.075	41
0.063	38

Fraction Size	Interpolated % Passing
60 µm	38
20 µm	27
6 µm	14
2 µm	6



The sample was received in a natural state. The percentage passing the 63µm test sieve was obtained by difference. The pH of the hydrometer suspension was 9.5. Sodium hexametaphosphate was used as a dispersant.

PARTICLE SIZE ANALYSIS & HYDROMETER ANALYSIS RESULTS - NZS 4402:1986, Test 2.8.1 & 2.8.4

Description	Fraction Range	% Within Range	Description	Fraction Range	% Within Range
Coarse Gravel	60.0 mm to 20.0 mm	-	Fine Sand	200 µm to 60 µm	11
Medium Gravel	20.0 mm to 6.0 mm	8	Coarse Silt	60 µm to 20 µm	11
Fine Gravel	6.0 mm to 2.00 mm	14	Medium Silt	20 µm to 6 µm	13
Coarse Sand	2.00 mm to 600 µm	17	Fine Silt	6 µm to 2 µm	8
Medium Sand	600 µm to 200 µm	12	Clay	< 2 µm	6

Notes:

- *This is an amended report which replaces CTS25W4645-1, dated 6-Mar-26 and CTS25W4645-2, dated 11-Mar-26. Changes have been made to page 4 & page 12 – test methods, methodology and % oversize. Fraction size of test for page 3 & page 11. The original reports should be deleted.*
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Tested By: M.D, H.C, L.T.S, C.J **Date:** 23-Jan-26 to 11-Mar-26

Checked By: L.T.S

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TEST REPORT – SANTANA MINERALS INVESTIGATIONS

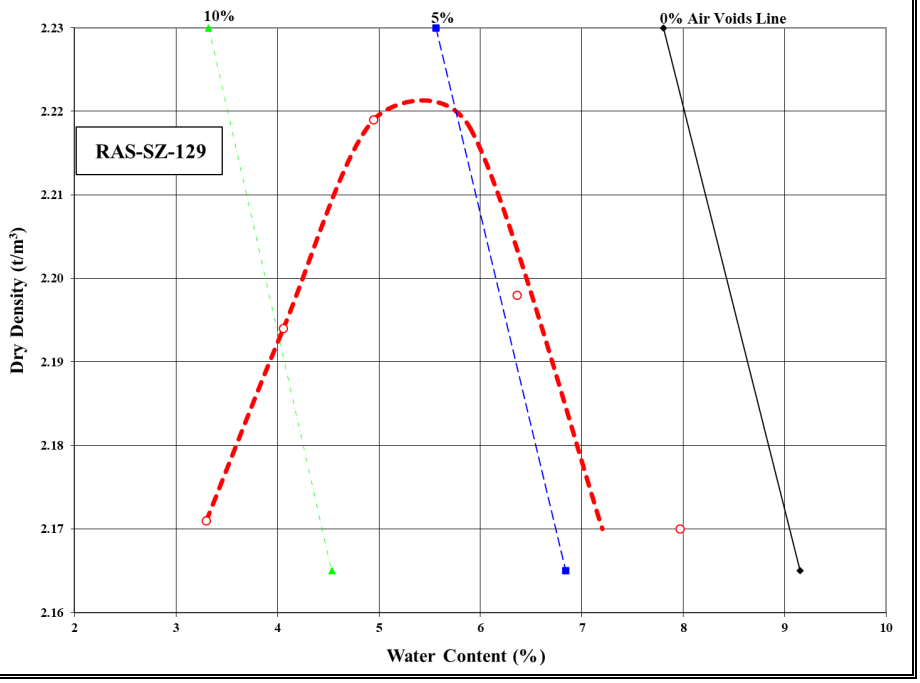
Client Details:	**Engineering Geology Ltd, P.O. Box 301054, Albany, Auckland**	**Attention:**	**S. Cook**
Job Description:	**Santana Minerals Investigations**		
Sample Description:	**GRAVEL, SAND & SILT with minor clay**	**Client Order No:**	**Unknown**
Sample Source: (cs)	**RAS-SZ-129**	**Sample Label No:**	**N/A**
Date & Time Sampled:	**Unknown**	**Sampled By:**	**Unknown**
Sample Method:	**Unknown**	**Date Received:**	**16-Dec-25**

WATER CONTENT & NZ HEAVY COMPACTION - NZS 4402:1986, Test 2.1 & 4.1.2

% Retained (+19.0mm Fraction)	**4.0 %**
Water Content: ("All In" As Received)	**5.4 %**
Maximum Dry Density: (-19.0mm Fraction)	**2.22 t/m^3**
Optimum Water Content: (-19.0mm Fraction)	**5.0 %**

Notes:

- *The sample was received in a natural state.*
- *The material tested in the NZ Heavy Compaction test was the fraction passing a 19.0mm test sieve.*
- *The air voids lines were calculated from an assumed solid density of 2.70 t/m^3.*



Notes:

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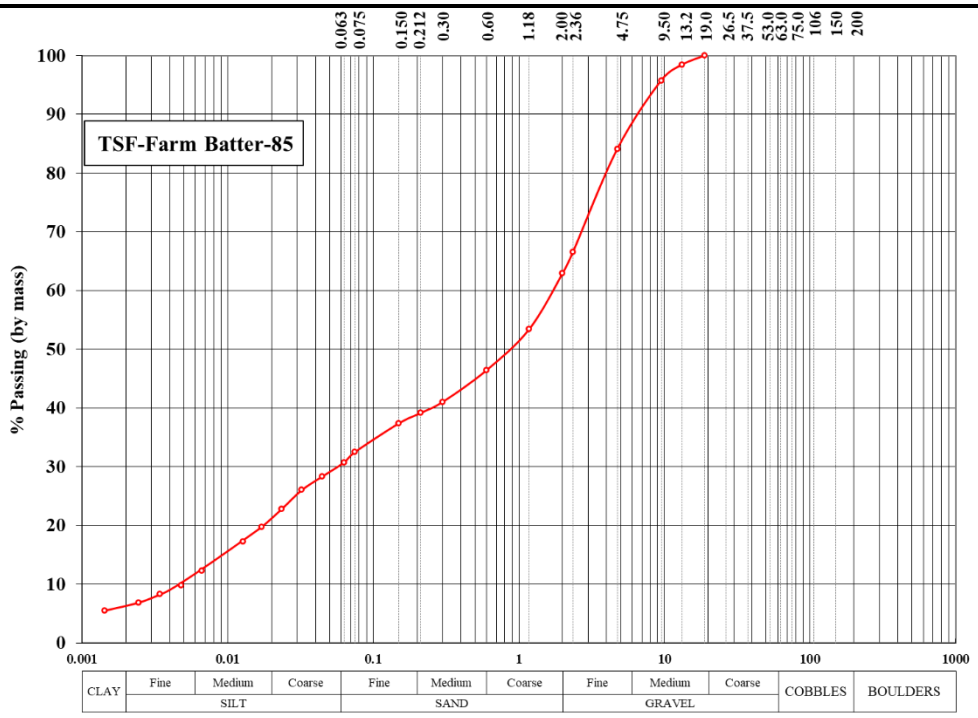
TEST REPORT – SANTANA MINERALS INVESTIGATIONS

Client Details:	**Engineering Geology Ltd, P.O. Box 301054, Albany, Auckland**	**Attention:**	**S. Cook**
Job Description:	**Santana Minerals Investigations**		
Sample Description:	**Silty GRAVEL & SAND with minor clay**	**Client Order No:**	**Unknown**
Sample Source: (cs)	**TSF-Farm batter-85**	**Sample Label No:**	**N/A**
Date & Time Sampled:	**Unknown**	**Sampled By:**	**Unknown**
Sample Method:	**Unknown**	**Date Received:**	**16-Dec-25**

PARTICLE SIZE ANALYSIS (NZS 4402:1986, Test 2.8.1 & 2.8.4)

Test Sieve (mm)	% Passing (by mass)
37.5	
26.5	
19.0	100
13.2	98
9.50	96
4.75	84
2.36	67
2.00	63
1.18	53
0.60	46
0.30	41
0.212	39
0.150	37
0.075	33
0.063	31

Fraction Size	Interpolated % Passing
60 µm	30
20 µm	21
6 µm	11
2 µm	6



The sample was received in a natural state. The percentage passing the 63µm test sieve was obtained by difference. The pH of the hydrometer suspension was 9.5. Sodium hexametaphosphate was used as a dispersant.

PARTICLE SIZE ANALYSIS & HYDROMETER ANALYSIS RESULTS - NZS 4402:1986, Test 2.8.1 & 2.8.4

Description	Fraction Range	% Within Range	Description	Fraction Range	% Within Range
Coarse Gravel	60.0 mm to 20.0 mm	0	Fine Sand	200 µm to 60 µm	9
Medium Gravel	20.0 mm to 6.0 mm	13	Coarse Silt	60 µm to 20 µm	9
Fine Gravel	6.0 mm to 2.00 mm	24	Medium Silt	20 µm to 6 µm	10
Coarse Sand	2.00 mm to 600 µm	17	Fine Silt	6 µm to 2 µm	5
Medium Sand	600 µm to 200 µm	7	Clay	< 2 µm	6

Notes:

- *This is an amended report which replaces CTS25W4645-1, dated 6-Mar-26 and CTS25W4645-2, dated 11-Mar-26. Changes have been made to page 4 & page 12 – test methods, methodology and % oversize. Fraction size of test for page 3 & page 11. The original reports should be deleted.*
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Tested By: M.D, H.C, L.T.S, C.J **Date:** 23-Jan-26 to 11-Mar-26

Checked By: L T S

ACCREDITED IANZ TESTING LABORATORY № 434

Test results indicated as not accredited are outside the scope of the laboratory's accreditation

Central Testing Services
18 Ngapara St, P.O. Box 397, Alexandra 9340, Central Otago, New Zealand
P: 03 4487644, W: www.centraltesting.co.nz, E: info@centraltesting.co.nz

Reference No: CTS25W4645-2A

Date: 13 April 2026

TEST REPORT – SANTANA MINERALS INVESTIGATIONS

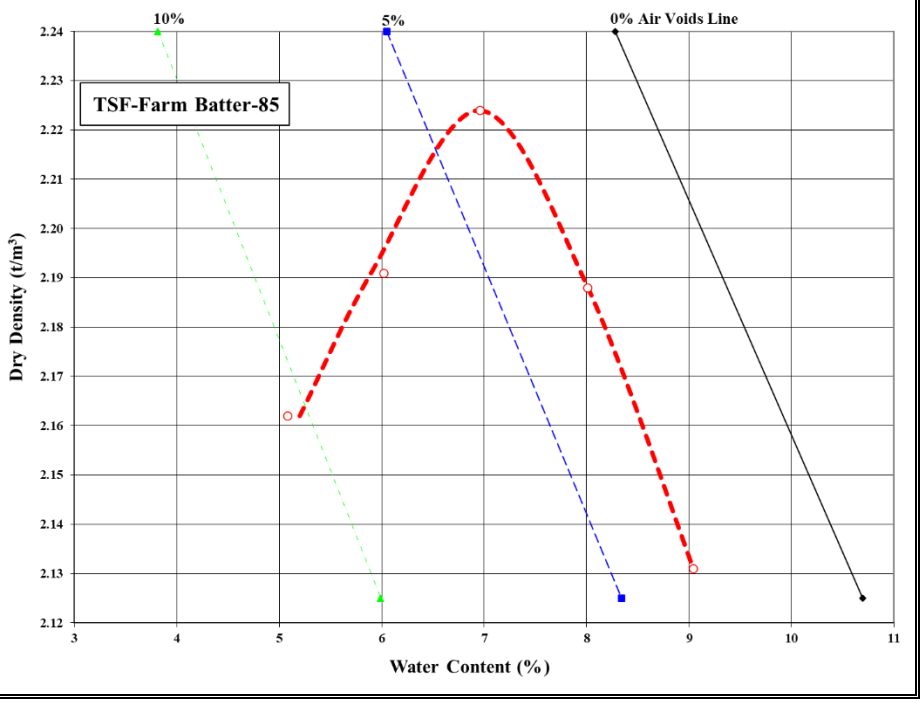
Client Details:	**Engineering Geology Ltd, P.O. Box 301054, Albany, Auckland**	**Attention:**	**S. Cook**
Job Description:	**Santana Minerals Investigations**		
Sample Description:	**Silty GRAVEL & SAND with minor clay**	**Client Order No:**	**Unknown**
Sample Source: (cs)	**TSF-Farm batter-85**	**Sample Label No:**	**N/A**
Date & Time Sampled:	**Unknown**	**Sampled By:**	**Unknown**
Sample Method:	**Unknown**	**Date Received:**	**16-Dec-25**

WATER CONTENT & NZ HEAVY COMPACTION - NZS 4402:1986, Test 2.1 & 4.1.2
DRY DENSITY & ABSORPTION - NZS 3111:1986, Test 12

% Retained (+19.0mm Fraction)	**3.0 %**
Water Content: ("All In" As Received)	**3.6 %**
Dry Density: (+19.0mm Fraction)	**2.58 t/m^3**
Absorption (+19.0mm Fraction)	**1.5 %**
Maximum Dry Density: (-19.0mm Fraction)	**2.22 t/m^3**
Optimum Water Content: (-19.0mm Fraction)	**7.0 %**

Notes:

- *The sample was received in a natural state.*
- *The material tested in the NZ Heavy Compaction test was the fraction passing a 19.0mm test sieve.*
- *The air voids lines were calculated from an assumed solid density of 2.70 t/m^3.*



Notes:

- *This is an amended report which replaces CTS25W4645-1, dated 6-Mar-26 and CTS25W4645-2, dated 11-Mar-26. Changes have been made to page 4 & page 12 – test methods, methodology and % oversize. Fraction size of test for page 3 & page 11. The original reports should be deleted.*
- *Information contained in this report which is Not IANZ Accredited relates to the sample description based on NZ Geotechnical Society Guidelines 2005, the client supplied information (cs) and sampling.*
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Tested By: M.D, H.C, L.T.S, C.J **Date:** 23-Jan-26 to 11-Mar-26

Checked By: L T S

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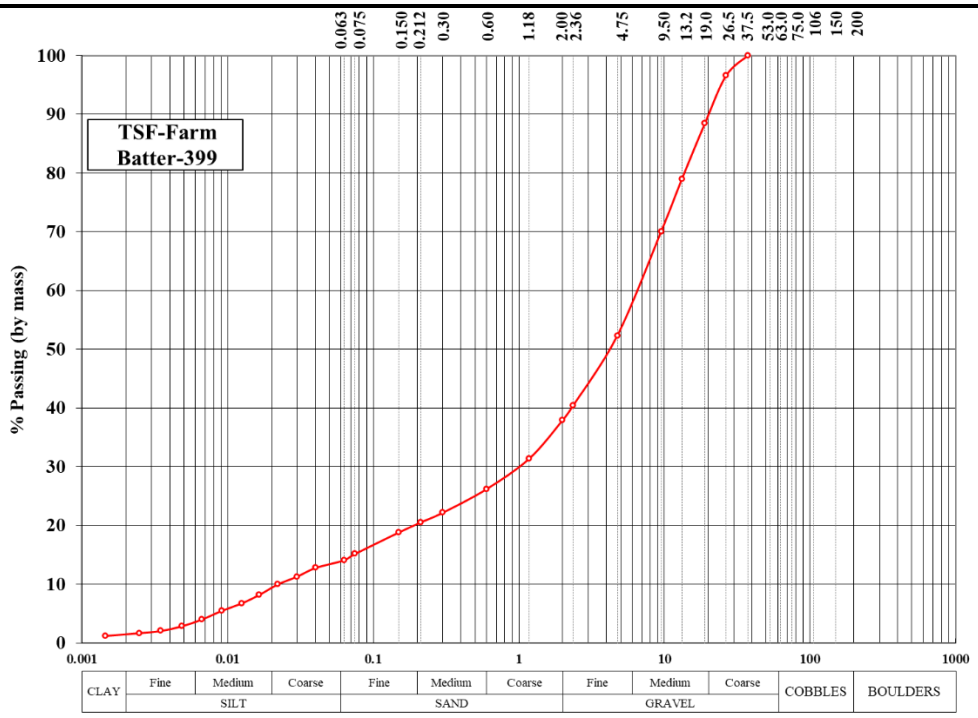
TEST REPORT – SANTANA MINERALS INVESTIGATIONS

Client Details:	**Engineering Geology Ltd, P.O. Box 301054, Albany, Auckland**	**Attention:**	**S. Cook**
Job Description:	**Santana Minerals Investigations**		
Sample Description:	**Sandy GRAVEL with some silt & trace of clay**	**Client Order No:**	**Unknown**
Sample Source: (cs)	**TSF-Batter MDD-399**	**Sample Label No:**	**N/A**
Date & Time Sampled:	**Unknown**	**Sampled By:**	**Unknown**
Sample Method:	**Unknown**	**Date Received:**	**16-Dec-25**

PARTICLE SIZE ANALYSIS (NZS 4402:1986, Test 2.8.1 & 2.8.4)

Test Sieve (mm)	% Passing (by mass)
37.5	100
26.5	97
19.0	88
13.2	79
9.50	70
4.75	52
2.36	40
2.00	38
1.18	31
0.60	26
0.30	22
0.212	21
0.150	19
0.075	15
0.063	14

Fraction Size	Interpolated % Passing
60 µm	14
20 µm	9
6 µm	4
2 µm	1



The sample was received in a natural state. The percentage passing the 63µm test sieve was obtained by difference. The pH of the hydrometer suspension was 9.0. Sodium hexametaphosphate was used as a dispersant.

PARTICLE SIZE ANALYSIS & HYDROMETER ANALYSIS RESULTS - NZS 4402:1986, Test 2.8.1 & 2.8.4

Description	Fraction Range	% Within Range	Description	Fraction Range	% Within Range
Coarse Gravel	60.0 mm to 20.0 mm	10	Fine Sand	200 µm to 60 µm	6
Medium Gravel	20.0 mm to 6.0 mm	33	Coarse Silt	60 µm to 20 µm	5
Fine Gravel	6.0 mm to 2.00 mm	19	Medium Silt	20 µm to 6 µm	5
Coarse Sand	2.00 mm to 600 µm	12	Fine Silt	6 µm to 2 µm	3
Medium Sand	600 µm to 200 µm	6	Clay	< 2 µm	1

Notes:

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- *Note: Post compaction grading on -37.5mm material.*
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Tested By: M.D, H.C, L.T.S, C.J **Date:** 23-Jan-26 to 11-Mar-26

Checked By: L.T.S

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Reference No: CTS25W4645-2A

Date: 13 April 2026

TEST REPORT – SANTANA MINERALS INVESTIGATIONS

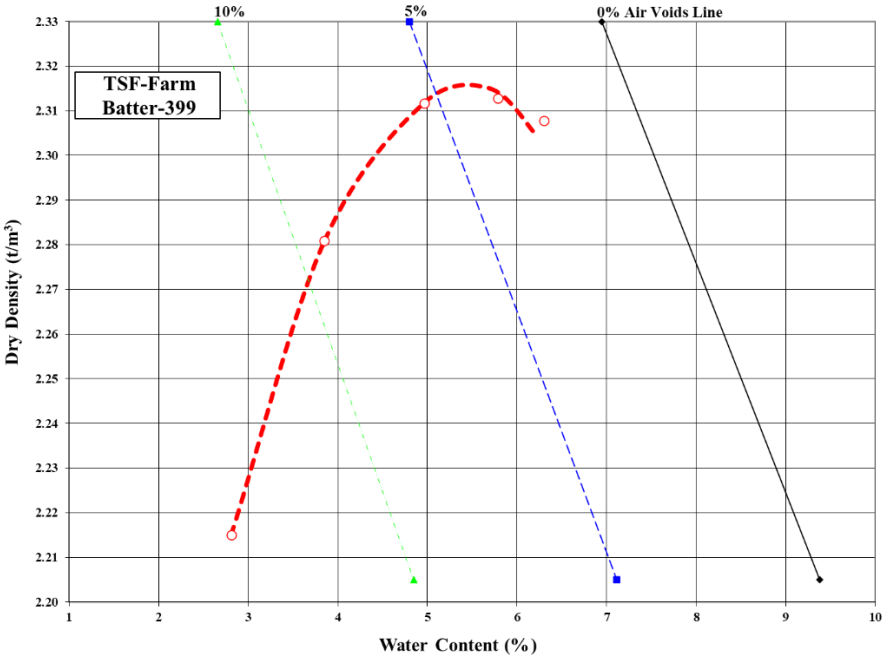
Client Details:	**Engineering Geology Ltd, P.O. Box 301054, Albany, Auckland**	**Attention:**	**S. Cook**
Job Description:	**Santana Minerals Investigations**		
Sample Description:	**Sandy GRAVEL with some silt & trace of clay**	**Client Order No:**	**Unknown**
Sample Source: (cs)	**TSF-Batter MDD-399**	**Sample Label No:**	**N/A**
Date & Time Sampled:	**Unknown**	**Sampled By:**	**Unknown**
Sample Method:	**Unknown**	**Date Received:**	**16-Dec-25**

WATER CONTENT & NZ HEAVY COMPACTION - NZS 4402:1986, Test 2.1 & 4.1.2
DRY DENSITY & ABSORPTION - NZS 3111:1986, Test 12

% Retained (+37.5mm Fraction)	**2.0 %**
Water Content: ("All In" As Received)	**2.8 %**
Dry Density: (+37.5mm Fraction)	**2.69 t/m³**
Absorption (+37.5mm Fraction)	**1.1 %**
Maximum Dry Density: (-37.5mm Fraction)	**2.32 t/m³**
Optimum Water Content: (-37.5mm Fraction)	**5.5 %**

Notes:

- *The sample was received in a natural state.*
- *The material tested in the NZ Heavy Compaction test was the fraction passing a 37.5mm test sieve. The sample was compacted in a laboratory CBR mould in accordance with Note 1b.*
- *The air voids lines were calculated from an assumed solid density of 2.78 t/m³.*



Notes:

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Tested By: M.D, H.C, L.T.S, C.J **Date:** 23-Jan-26 to 11-Mar-26

Checked By:

Approved Signatory

N.P. Danischewski
Key Technical Personnel

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