

SOLID DENSITY OF SOIL PARTICLES
TEST REPORT



Project : Ground Investigation for Northland Corridor
Location : Section 2 Te Hana to Port Marsden Highway, Section 2B GI
Client : NZTA C/- Aurecon & WSP NZ Ltd
Contractor : N/A
Sampled by : NC_Site Team
Date sampled : 14/10/25
Sampling method : SPT
Sampling description : Clayey SILT with some sand
Sample condition : As Received

Project No : 1-C2466.16
Lab Ref No : WL4708/150-SD
Client Ref No : 1-C2466.16

Test Results

Sample Lab Ref No : WL4708/150-SD
Source : BH2B_1101
Sample Depth (m) : 3.50-3.95
Soil Fraction Tested : Whole Soil
Sample History : Unknown
Solid Density (t/m^3) : 2.71

Test Methods

Solid Density : NZS 4402 : 1986 Test 2.7.2

Notes

Date tested : 04/11/2025
Date reported : 12/11/25

Sampling is not covered by IANZ Accreditation. Results apply only to sample tested.
This report may only be reproduced in full
All information supplied by Client

Approved Signatory

Thirushen Pillay
Designation : Senior Civil Engineering Technician
Date : 17/11/25



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

SOLID DENSITY OF SOIL PARTICLES
TEST REPORT



Project : Ground Investigation for Northland Corridor
Location : Section 2 Te Hana to Port Marsden Highway, Section 2B GI
Client : NZTA C/- Aurecon & WSP NZ Ltd
Contractor : N/A
Sampled by : NC_Site Team
Date sampled : 20/08/25
Sampling method : SPT
Sampling description : Silty CLAY; Brown mottled orange; moist; plastic
Sample condition : As Received

Project No : 1-C2466.16
Lab Ref No : WL4708/2-SD
Client Ref No : 1-C2466.16

Test Results

Sample Lab Ref No : WL4708/2-SD
Source : BH2B_1104
Sample Depth (m) : 1.50-1.95
Soil Fraction Tested : Whole Soil
Sample History : Unknown
Solid Density (t/m^3) : 2.73

Test Methods

Solid Density : NZS 4402 : 1986 Test 2.7.2

Notes

Date tested : 05-06/11/2025
Date reported : 12/11/25

Sampling is not covered by IANZ Accreditation. Results apply only to sample tested.
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All information supplied by Client

Approved Signatory

Thirushen Pillay

Designation : Senior Civil Engineering Technician
Date : 14/11/25



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SOLID DENSITY OF SOIL PARTICLES
TEST REPORT



Project : Ground Investigation for Northland Corridor
Location : Section 2B Te Hana to Port Marsden Highway Section 2B GI
Client : NZTA C/- Aurecon & WSP NZ Ltd
Contractor : N/A
Sampled by : NC_Site Team
Date sampled : 3/09/25
Sampling method : Pushtube
Sampling description : Silty CLAY; grey; moist; plastic
Sample condition : As Received

Project No : 1-C2466.16
Lab Ref No : WL4708/28-SD
Client Ref No : -

Test Results

Sample Lab Ref No : WL4708/28-SD
Source : BH2B_1105
Sample Depth (m) : 6.00-6.50
Soil Fraction Tested : Whole Soil
Sample History : Unknown
Solid Density (t/m³) : 2.69

Test Methods

Solid Density : NZS 4402 : 1986 Test 2.7.2

Notes

Date tested : 14/10/25
Date reported : 15/10/25

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All information supplied by Client

Approved Signatory

Thirushen Pillay
Designation : Senior Civil Engineering Technician
Date : 18/10/25



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SOLID DENSITY OF SOIL PARTICLES TEST REPORT



Project : Ground Investigation for Northland Corridor
 Location : Section 2B Te Hana to Port Marsden Highway Section 2B GI
 Client : NZTA C/- Aurecon & WSP NZ Ltd
 Contractor : N/A
 Sampled by : NC_Site Team
 Date sampled : 20/08/25
 Sampling method : SPT
 Sampling description : Silty CLAY with traces of sand
 Sample condition : As Received

Project No : 1-C2466.16
 Lab Ref No : WL4708/5-SD
 Client Ref No : -

Test Results

Sample Lab Ref No : WL4708/5-SD
 Source : BH2B_1106
 Sample Depth (m) : 3.00-3.45
 Soil Fraction Tested : Whole Soil
 Sample History : Unknown
 Solid Density (t/m³) : 2.81

Test Methods

Solid Density : NZS 4402 : 1986 Test 2.7.2

Notes

Date tested : 08/10/25
 Date reported : 12/10/25

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 All information supplied by Client

Approved Signatory

Thirushen Pillay
 Designation : Senior Civil Engineering Technician
 Date : 13/10/25



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SOLID DENSITY OF SOIL PARTICLES
TEST REPORT



Project : Ground Investigation for Northland Corridor
Location : Section 2 Te Hana to Port Marsden Highway, Section 2B GI
Client : NZTA C/- Aurecon & WSP NZ Ltd
Contractor : N/A
Sampled by : NC_Site Team
Date sampled : 8/10/25
Sampling method : SPT
Sampling description : Sandy clayey SILT
Sample condition : As Received

Project No : 1-C2466.16
Lab Ref No : WL4708/154-SD
Client Ref No : 1-C2466.16

Test Results

Sample Lab Ref No : WL4708/154-SD
Source : BH2B_1107
Sample Depth (m) : 3.50-3.95
Soil Fraction Tested : Whole Soil
Sample History : Unknown
Solid Density (t/m³) : 2.80

Test Methods

Solid Density : NZS 4402 : 1986 Test 2.7.2

Notes

Date tested : 07/11/2025
Date reported : 12/11/25

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Approved Signatory

Thirushen Pillay
Designation : Senior Civil Engineering Technician
Date : 17/11/25



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SOLID DENSITY OF SOIL PARTICLES
TEST REPORT



Project : Ground Investigation for Northland Corridor
Location : Section 2 Te Hana to Port Marsden Highway, Section 2B GI
Client : NZTA C/- Aurecon & WSP NZ Ltd
Contractor : N/A
Sampled by : NC_Site Team
Date sampled : 15/09/25
Sampling method : SPT
Sampling description : Silty CLAY with some sand
Sample condition : As Received

Project No : 1-C2466.16
Lab Ref No : WL4708/102-SD
Client Ref No : 1-C2466.16

Test Results

Sample Lab Ref No : WL4708/102-SD
Source : BH2B_1109
Sample Depth (m) : 6.00-6.45
Soil Fraction Tested : Whole Soil
Sample History : Unknown
Solid Density (t/m^3) : 2.81

Test Methods	Notes
Solid Density : NZS 4402 : 1986 Test 2.7.2	

Date tested : 09/10/25
Date reported : 13/10/25

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Approved Signatory

Thirushen Pillay
Designation : Senior Civil Engineering Technician
Date : 22/10/25



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SOLID DENSITY OF SOIL PARTICLES
TEST REPORT



Project : Ground Investigation for Northland Corridor
Location : Section 2 Te Hana to Port Marsden Highway, Section 2B GI
Client : NZTA C/- Aurecon & WSP NZ Ltd
Contractor : -
Sampled by : WSP
Date sampled : 23/09/25
Sampling method : SPT
Sampling description : Refer to BH2B_1111 log report
Sample condition : Natural; as received

Project No : 1-C2466.16
Lab Ref No : WL4708/117-SD
Client Ref No : -

Test Results

Sample Lab Ref No : WL4708/117-SD
Source : BH2B_1111
Sample Depth (m) : 6.00-6.45
Soil Fraction Tested : Whole Soil
Sample History : Natural
Solid Density (t/m³) : 2.76

Test Methods	Notes
Solid Density : NZS 4402 : 1986 Test 2.7.2	

Date tested : 16/10/25
Date reported : 17/10/25

Approved Signatory

Designation : *Laboratory Manager*
Date : 22/10/25

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SOLID DENSITY OF SOIL PARTICLES
TEST REPORT



Project : Ground Investigation for Northland Corridor
Location : Alternative to Brynderwyn Hills section: A new route close to SH1
Client : NZTA C/- Aurecon & WSP NZ Ltd
Contractor : -
Sampled by : NC Site Team
Date sampled : 23/09/25
Sampling method : SPT
Sampling description : Refer to BH2B_1111 log report
Sample condition : Natural; as received

Project No : 1-C2466.16
Lab Ref No : WL4708/118-SD
Client Ref No : -

Test Results

Sample Lab Ref No : WL4708/118-SD
Source : BH2B_1111
Sample Depth (m) : 9.00-9.45
Soil Fraction Tested : Whole Soil
Sample History : Natural
Solid Density (t/m³) : 2.76

Test Methods	Notes
Solid Density : NZS 4402 : 1986 Test 2.7.2	

Date tested : 17/10/25
Date reported : 20/10/25

Approved Signatory

Designation : Laboratory Manager
Date : 14/11/25

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SOLID DENSITY OF SOIL PARTICLES
TEST REPORT



Project : Ground Investigation for Northland Corridor
Location : Section 2 Te Hana to Port Marsden Highway, Section 2B GI
Client : NZTA C/- Aurecon & WSP NZ Ltd
Contractor : N/A
Sampled by : NC_Site Team
Date sampled : 30/10/25
Sampling method : SPT
Sampling description : Silty CLAY with traces of sand
Sample condition : As Received

Project No : 1-C2466.16
Lab Ref No : WL4708/168-SD
Client Ref No : 1-C2466.16

Test Results

Sample Lab Ref No : WL4708/168-SD
Source : BH2B_1113
Sample Depth (m) : 3.50-3.95
Soil Fraction Tested : Whole Soil
Sample History : Unknown
Solid Density (t/m³) : 2.81

Test Methods

Solid Density : NZS 4402 : 1986 Test 2.7.2

Notes

Date tested : 12/11/2025
Date reported : 19/11/25

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All information supplied by Client

Approved Signatory

Thirushen Pillay
Designation : Senior Civil Engineering Technician
Date : 23/11/25



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SOLID DENSITY OF SOIL PARTICLES
TEST REPORT



Project : Ground Investigation for Northland Corridor
Location : Alternative to Brynderwyn Hills section: A new route close to SH1
Client : NZTA C/- Aurecon & WSP NZ Ltd
Contractor : -
Sampled by : NC Site Team
Date sampled : 29/09/25
Sampling method : SPT
Sampling description : Refer to BH2B_1114 log report
Sample condition : Natural; as received

Project No : 1-C2466.16
Lab Ref No : WL4708/129-SD
Client Ref No : -

Test Results

Sample Lab Ref No : WL4708/129-SD
Source : BH2B_1114
Sample Depth (m) : 7.50-7.95
Soil Fraction Tested : Whole Soil
Sample History : Natural
Solid Density (t/m³) : 2.79

Test Methods

Solid Density : NZS 4402:1986 Test 2.7.2

Notes

Date tested : 17/10/25

Date reported : 11/11/25

Approved Signatory

Designation : Laboratory Manager

Date : 14/11/25

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SOLID DENSITY OF SOIL PARTICLES
TEST REPORT



Project : Ground Investigation for Northland Corridor
Location : Section 2 - Te Hana to Port Marsden Highway, Section 2B G1
Client : NZTA C/- Aurecon & WSP NZ Ltd
Contractor : -
Sampled by : NC Site Team
Date sampled : 19/08/25
Sampling method : SPT
Sampling description : Clayey SILT with minor sand
Sample condition : As Received

Project No : 1-C2466.16
Lab Ref No : WL4708/13 -SD
Client Ref No : 1-C2466.16

Test Results

Sample Lab Ref No : WL4708/13 -SD
Source : BH2B_1115
Sample Depth (m) : 4.50-4.95
Soil Fraction Tested : Whole Soil
Sample History : Unknown
Solid Density (t/m³) : 2.84

Test Methods

Solid Density : NZS 4402 : 1986 Test 2.7.2

Notes

Date tested : 13/10/25
Date reported : 16/10/25

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Approved Signatory

Thirushen Pillay
Designation : Senior Civil Engineering Technician
Date : 22/10/25



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SOLID DENSITY OF SOIL PARTICLES TEST REPORT



Project : Ground Investigation for Northland Corridor
 Location : Section 2B Te Hana to Port Marsden Highway Section 2B GI
 Client : NZTA C/- Aurecon & WSP NZ Ltd
 Contractor : N/A
 Sampled by : NC_Site Team
 Date sampled : 19/08/25
 Sampling method : SPT
 Sampling description : Clayey SILT with minor sand and traces of gravel
 Sample condition : As Received

Project No : 1-C2466.16
 Lab Ref No : WL4708/41-SD
 Client Ref No : 1-C2466.16

Test Results

Sample Lab Ref No : WL4708/41-SD
 Source : BH2B_1116
 Sample Depth (m) : 1.50-1.95
 Soil Fraction Tested : Whole Soil
 Sample History : Unknown
 Solid Density (t/m³) : 2.79

Test Methods

Solid Density : NZS 4402 : 1986 Test 2.7.2

Notes

Date tested : 08/10/25
 Date reported : 12/10/25

Sampling is not covered by IANZ Accreditation. Results apply only to sample tested.
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Approved Signatory

Thirushen Pillay
 Designation : Senior Civil Engineering Technician
 Date : 13/10/25



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SOLID DENSITY OF SOIL PARTICLES
TEST REPORT



Project : Ground Investigation for Northland Corridor
Location : Section 2 - Te Hana to Port Marsden Highway, Section 2B G1
Client : NZTA C/- Aurecon & WSP NZ Ltd
Contractor : -
Sampled by : NC Site Team
Date sampled : 28/08/25
Sampling method : SPT
Sampling description : Refer to BH2B_1117 log report
Sample condition : As Received

Project No : 1-C2466.16
Lab Ref No : WL4708/44 -SD
Client Ref No : 1-C2466.16

Test Results

Sample Lab Ref No : WL4708/44 -SD
Source : BH2B_1117
Sample Depth (m) : 1.50-1.95
Soil Fraction Tested : Whole Soil
Sample History : Natural
Solid Density (t/m^3) : 2.83

Test Methods

Solid Density : NZS 4402 : 1986 Test 2.7.2

Notes

Date tested : 13/10/25
Date reported : 16/10/25

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Approved Signatory

Thirushen Pillay

Designation : Senior Civil Engineering Technician

Date : 22/10/25



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SOLID DENSITY OF SOIL PARTICLES
TEST REPORT



Project : Ground Investigation for Northland Corridor
Location : Section 2 Te Hana to Port Marsden Highway, Section 2B GI
Client : NZTA C/- Aurecon & WSP NZ Ltd
Contractor : N/A
Sampled by : NC_Site Team
Date sampled : 22/09/25
Sampling method : Pushtube
Sampling description : Silty CLAY with traces of sand; grey; moist; plastic
Sample condition : As Received

Project No : 1-C2466.16
Lab Ref No : WL4708/119-SD
Client Ref No : 1-C2466.16

Test Results

Sample Lab Ref No : WL4708/119-SD
Source : BH2B_1122
Sample Depth (m) : 3.00-3.50
Soil Fraction Tested : Whole Soil
Sample History : Unknown
Solid Density (t/m^3) : 2.72

Test Methods

Solid Density : NZS 4402 : 1986 Test 2.7.2

Notes

Date tested : 05-06/11/2025
Date reported : 12/11/25

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Approved Signatory

Thirushen Pillay
Designation : Senior Civil Engineering Technician
Date : 17/11/25



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SOLID DENSITY OF SOIL PARTICLES
TEST REPORT



Project : Ground Investigation for Northland Corridor
Location : Section 2 Te Hana to Port Marsden Highway, Section 2B GI
Client : NZTA C/- Aurecon & WSP NZ Ltd
Contractor : -
Sampled by : WSP
Date sampled : 23/09/25
Sampling method : SPT
Sampling description : Refer to BH2B_1124 log report
Sample condition : Natural; as received

Project No : 1-C2466.16
Lab Ref No : WL4708/126-SD
Client Ref No : -

Test Results

Sample Lab Ref No : WL4708/126-SD
Source : BH2B_1124
Sample Depth (m) : 6.00-6.45
Soil Fraction Tested : Whole Soil
Sample History : Natural
Solid Density (t/m³) : 2.78

Test Methods

Solid Density : NZS 4402:1986 Test 2.7.2

Notes

Date tested : 16/10/25
Date reported : 17/10/25

Approved Signatory

Designation : Laboratory Manager
Date : 22/10/25

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SOLID DENSITY OF SOIL PARTICLES
TEST REPORT



Project : Ground Investigation for Northland Corridor
Location : Section 2 Te Hana to Port Marsden Highway, Section 2B GI
Client : NZTA C/- Aurecon & WSP NZ Ltd
Contractor : -
Sampled by : WSP
Date sampled : 18/09/25
Sampling method : SPT
Sampling description : Refer to BH2B_1125 log report
Sample condition : Natural; as received

Project No : 1-C2466.16
Lab Ref No : WL4708/123-SD
Client Ref No : -

Test Results

Sample Lab Ref No : WL4708/123-SD
Source : BH2B_1125
Sample Depth (m) : 9.00-9.45
Soil Fraction Tested : Whole Soil
Sample History : Natural
Solid Density (t/m³) : 2.75

Test Methods

Solid Density : NZS 4402:1986 Test 2.7.2

Notes

Date tested : 16/10/25
Date reported : 17/10/25

Approved Signatory

Designation : Laboratory Manager
Date : 22/10/25

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SOLID DENSITY OF SOIL PARTICLES
TEST REPORT



Project : Ground Investigation for Northland Corridor
Location : Section 2 Te Hana to Port Marsden Highway, Section 2B GI
Client : NZTA C/- Aurecon & WSP NZ Ltd
Contractor : -
Sampled by : NC Site Team
Date sampled : 2/10/25
Sampling method : SPT
Sampling description : Refer to BH2B_1126 log report
Sample condition : Natural; as received

Project No : 1-C2466.16
Lab Ref No : WL4708/131-SD
Client Ref No : -

Test Results

Sample Lab Ref No : WL4708/131-SD
Source : BH2B_1126
Sample Depth (m) : 9.00-9.45
Soil Fraction Tested : Whole Soil
Sample History : Natural
Solid Density (t/m³) : 2.60

Test Methods

Solid Density : NZS 4402 : 1986 Test 2.7.2

Notes

Date tested : 17/10/25
Date reported : 20/10/25

Approved Signatory

Designation : Laboratory Manager
Date : 22/10/25

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**SOLID DENSITY OF SOIL PARTICLES
TEST REPORT**



Project : Ground Investigation for Northland Corridor
Location : Alternative to Brynderwyn Hills Section
Client : NZTA C/- Aurecon & WSP NZ Ltd
Contractor : N/A
Sampled by : NC_Site Team
Date sampled : 30/10/25
Sampling method : SPT
Sampling description : Clayey SILT with some sand and traces of gravel
Sample condition : As Received

Project No : 1-C2466.16
Lab Ref No : WL4708/192-SD
Client Ref No : 1-C2466.16

Test Results

Sample Lab Ref No : WL4708/192-SD
Source : BH2B_T128
Sample Depth (m) : 3.50-3.95
Soil Fraction Tested : Whole Soil
Sample History : Unknown
Solid Density (t/m³) : 2.79

Test Methods

Solid Density : NZS 4402 : 1986 Test 2.7.2

Notes

Date tested : 26-27/11/25
Date reported : 01/12/25

Sampling is not covered by IANZ Accreditation. Results apply only to sample tested.
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All information supplied by Client

Approved Signatory

Thirushen Pillay
Designation : Senior Civil Engineering Technician
Date : 18/12/25



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SOLID DENSITY OF SOIL PARTICLES
TEST REPORT



Project : Ground Investigation for Northland Corridor
Location : Section 2B - Bryderwyn to Marsden Point
Client : NZTA C/- Aurecon & WSP NZ Ltd
Contractor : -
Sampled by : WSP
Date sampled : 29/09/25
Sampling method : Digger
Sampling description : Refer to BH2B_1130 log report
Sample condition : Natural; as received

Project No : 1-C2466.16
Lab Ref No : WL4708/108-SD
Client Ref No : -

Test Results

Sample Lab Ref No : WL4708/108-SD
Source : BH2B_1130
Sample Depth (m) : 9.00-9.45
Soil Fraction Tested : Whole Soil
Sample History : Natural
Solid Density (t/m³) : 2.74

Test Methods	Notes
Solid Density : NZS 4402:1986 Test 2.7.2	

Date tested : 16/10/25

Date reported : 17/10/25

Approved Signatory

Designation : Laboratory Manager

Date : 20/10/25

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SOLID DENSITY OF SOIL PARTICLES
TEST REPORT



Project : Ground Investigation for Northland Corridor
Location : Section 2 Te Hana to Port Marsden Highway, Section 2B GI
Client : NZTA C/- Aurecon & WSP NZ Ltd
Contractor : -
Sampled by : NC Site Team
Date sampled : 26/08/25
Sampling method : SPT
Sampling description : Refer to BH2B_1132 log report
Sample condition : Natural; as received

Project No : 1-C2466.16
Lab Ref No : WL4708/50-SD
Client Ref No : -

Test Results

Sample Lab Ref No : WL4708/50-SD
Source : BH2B_1132
Sample Depth (m) : 7.50-7.95
Soil Fraction Tested : Whole Soil
Sample History : Natural
Solid Density (t/m³) : 2.76

Test Methods

Solid Density : NZS 4402 : 1986 Test 2.7.2

Notes

Date tested : 17/10/25
Date reported : 20/10/25

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Approved Signatory

Designation : Laboratory Manager
Date : 22/10/25



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SOLID DENSITY OF SOIL PARTICLES
TEST REPORT



Project : Ground Investigation for Northland Corridor
Location : Section 2 Te Hana to Port Marsden Highway, Section 2B GI
Client : NZTA C/- Aurecon & WSP NZ Ltd
Contractor : N/A
Sampled by : NC_Site Team
Date sampled : 7/10/25
Sampling method : SPT
Sampling description : Clayey SILT with minor sand and traces of gravel
Sample condition : As Received

Project No : 1-C2466.16
Lab Ref No : WL4708/144-SD
Client Ref No : 1-C2466.16

Test Results

Sample Lab Ref No : WL4708/144-SD
Source : BH2B_1134
Sample Depth (m) : 1.50-1.95
Soil Fraction Tested : Whole Soil
Sample History : Unknown
Solid Density (t/m³) : 2.76

Test Methods

Solid Density : NZS 4402 : 1986 Test 2.7.2

Notes

Date tested : 04/11/2025
Date reported : 12/11/25

Sampling is not covered by IANZ Accreditation. Results apply only to sample tested.
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Approved Signatory

Thirushen Pillay
Designation : Senior Civil Engineering Technician
Date : 17/11/25



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**SOLID DENSITY OF SOIL PARTICLES
TEST REPORT**



Project : Ground Investigation for Northland Corridor
Location : Alternative to Brynderwyn Hills Section
Client : NZTA C/- Aurecon & WSP NZ Ltd
Contractor : N/A
Sampled by : NC_Site Team
Date sampled : 12/11/25
Sampling method : SPT
Sampling description : Clayey SILT with some sand
Sample condition : As Received

Project No : 1-C2466.16
Lab Ref No : WL4708/196-SD
Client Ref No : 1-C2466.16

Test Results

Sample Lab Ref No : WL4708/196-SD
Source : BH2B_1136
Sample Depth (m) : 4.50-4.95
Soil Fraction Tested : Whole Soil
Sample History : Unknown
Solid Density (t/m³) : 2.78

Test Methods

Solid Density : NZS 4402 : 1986 Test 2.7.2

Notes

Date tested : 28/11/25
Date reported : 01/12/25

Sampling is not covered by IANZ Accreditation. Results apply only to sample tested.
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All information supplied by Client

Approved Signatory

Thirushen Pillay
Designation : Senior Civil Engineering Technician
Date : 18/12/25



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

SOLID DENSITY OF SOIL PARTICLES TEST REPORT



Project : Ground Investigation for Northland Corridor
 Location : Section 2 Te Hana to Port Marsden Highway, Section 2B GI
 Client : NZTA C/- Aurecon & WSP NZ Ltd
 Contractor : N/A
 Sampled by : NC_Site Team
 Date sampled : 11/09/25
 Sampling method : Pushtube
 Sampling description : Clayey SILT; brownish orange mottled red; moist; plastic
 Sample condition : As Received

Project No : 1-C2466.16
 Lab Ref No : WL4708/109-SD
 Client Ref No : 1-C2466.16

Test Results

Sample Lab Ref No : WL4708/109-SD
 Source : BH2B_1139
 Sample Depth (m) : 2.50-3.00
 Soil Fraction Tested : Whole Soil
 Sample History : Unknown
 Solid Density (t/m³) : 2.79

Test Methods

Solid Density : NZS 4402 : 1986 Test 2.7.2

Notes

Date tested : 23/10/25
 Date reported : 29/10/25

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Approved Signatory

Thirushen Pillay
 Designation : Senior Civil Engineering Technician
 Date : 04/11/25



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SOLID DENSITY OF SOIL PARTICLES
TEST REPORT



Project : Ground Investigation for Northland Corridor
Location : Section 2B Te Hana to Port Marsden Highway Section 2B GI
Client : NZTA C/- Aurecon & WSP NZ Ltd
Contractor : N/A
Sampled by : NC_Site Team
Date sampled : 10/09/25
Sampling method : Pushtube
Sampling description : Clayey SILT; grey mottled brown; moist; plastic
Sample condition : As Received

Project No : 1-C2466.16
Lab Ref No : WL4708/75-SD
Client Ref No : 1-C2466.16

Test Results

Sample Lab Ref No : WL4708/75-SD
Source : BH2B_1140
Sample Depth (m) : 3.00-3.50
Soil Fraction Tested : Whole Soil
Sample History : Unknown
Solid Density (t/m³) : 2.72

Test Methods

Solid Density : NZS 4402 : 1986 Test 2.7.2

Notes

Date tested : 15/10/25
Date reported : 17/10/25

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Approved Signatory

Thirushen Pillay
Designation : Senior Civil Engineering Technician
Date : 21/10/25



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SOLID DENSITY OF SOIL PARTICLES
TEST REPORT



Project : Ground Investigation for Northland Corridor
Location : Section 2 Te Hana to Port Marsden Highway, Section 2B GI
Client : NZTA C/- Aurecon & WSP NZ Ltd
Contractor : N/A
Sampled by : NC_Site Team
Date sampled : 3/10/25
Sampling method : SPT
Sampling description : Clayey SILT; dark brown mottled grey; saturated; plastic
Sample condition : As Received

Project No : 1-C2466.16
Lab Ref No : WL4708/148-SD
Client Ref No : 1-C2466.16

Test Results

Sample Lab Ref No : WL4708/148-SD
Source : BH2B_1142
Sample Depth (m) : 3.50-3.95
Soil Fraction Tested : Whole Soil
Sample History : Unknown
Solid Density (t/m^3) : 2.43

Test Methods

Solid Density : NZS 4402 : 1986 Test 2.7.2

Notes

Date tested : 07-10/11/2025

Date reported : 19/11/25

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Approved Signatory

Thirushen Pillay

Designation : Senior Civil Engineering Technician

Date : 20/11/25



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

SOLID DENSITY OF SOIL PARTICLES
TEST REPORT



Project : Ground Investigation for Northland Corridor
Location : Section 2 Te Hana to Port Marsden Highway, Section 2B GI
Client : NZTA C/- Aurecon & WSP NZ Ltd
Contractor : N/A
Sampled by : NC_Site Team
Date sampled : 19/08/25
Sampling method : SPT
Sampling description : SILT with some clay and sand, minor gravel
Sample condition : As Received

Project No : 1-C2466.16
Lab Ref No : WL4708/15-SD
Client Ref No : 1-C2466.16

Test Results

Sample Lab Ref No : WL4708/15-SD
Source : BH2B_1144
Sample Depth (m) : 9.00-9.45m
Soil Fraction Tested : Whole Soil
Sample History : Unknown
Solid Density (t/m^3) : 2.76

Test Methods

Solid Density : NZS 4402 : 1986 Test 2.7.2

Notes

Date tested : 23/10/25
Date reported : 29/10/25

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Approved Signatory

Thirushen Pillay
Designation : Senior Civil Engineering Technician
Date : 04/11/25



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

SOLID DENSITY OF SOIL PARTICLES
TEST REPORT



Project : Ground Investigation for Northland Corridor
Location : Section 2 Te Hana to Port Marsden Highway Section 2B GI
Client : NZTA C/- Aurecon & WSP NZ Ltd
Contractor : N/A
Sampled by : NC_Site Team
Date sampled : 10/09/25
Sampling method : SPT
Sampling description : Sandy SILT/CLAY with minor gravel
Sample condition : As Received

Project No : 1-C2466.16
Lab Ref No : WL4708/91-SD
Client Ref No : 1-C2466.16

Test Results

Sample Lab Ref No : WL4708/91-SD
Source : BH2B_1148
Sample Depth (m) : 9.00-9.45
Soil Fraction Tested : Whole Soil
Sample History : Unknown
Solid Density (t/m^3) : 2.77

Test Methods

Solid Density : NZS 4402 : 1986 Test 2.7.2

Notes

Date tested : 28/10/25
Date reported : 29/10/25

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Approved Signatory

Thirushen Pillay
Designation : Senior Civil Engineering Technician
Date : 04/11/25



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SOLID DENSITY OF SOIL PARTICLES
TEST REPORT



Project : Ground Investigation for Northland Corridor
Location : Section 2 Te Hana to Port Marsden Highway, Section 2B GI
Client : NZTA C/- Aurecon & WSP NZ Ltd
Contractor : N/A
Sampled by : NC_Site Team
Date sampled : 18/08/25
Sampling method : SPT
Sampling description : Clayey sandy SILT with minor gravel
Sample condition : As Received

Project No : 1-C2466.16
Lab Ref No : WL4708/20-SD
Client Ref No : 1-C2466.16

Test Results

Sample Lab Ref No : WL4708/20-SD
Source : BH2B_1150
Sample Depth (m) : 3.50-3.95
Soil Fraction Tested : Whole Soil
Sample History : Unknown
Solid Density (t/m³) : 2.70

Test Methods

Solid Density : NZS 4402 : 1986 Test 2.7.2

Notes

Date tested : 07/11/2025
Date reported : 12/11/25

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Approved Signatory

Thirushen Pillay
Designation : Senior Civil Engineering Technician
Date : 17/11/25



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SOLID DENSITY OF SOIL PARTICLES
TEST REPORT



Project : Ground Investigation for Northland Corridor
Location : Section 2 Te Hana to Port Marsden Highway, Section 2B GI
Client : NZTA C/- Aurecon & WSP NZ Ltd
Contractor : -
Sampled by : NC Site Team
Date sampled : 11/09/25
Sampling method : SPT
Sampling description : Refer to BH2B_1152 log report
Sample condition : Natural; as received

Project No : 1-C2466.16
Lab Ref No : WL4708/99-SD
Client Ref No : -

Test Results

Sample Lab Ref No : WL4708/99-SD
Source : BH2B_1152
Sample Depth (m) : 4.50-4.95
Soil Fraction Tested : Whole Soil
Sample History : Natural
Solid Density (t/m³) : 2.80

Test Methods

Solid Density : NZS 4402 : 1986 Test 2.7.2

Notes

Date tested : 17/10/25
Date reported : 20/10/25

Approved Signatory

Designation : Laboratory Manager
Date : 22/10/25

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SOLID DENSITY OF SOIL PARTICLES
TEST REPORT



Project : Ground Investigation for Northland Corridor
Location : Section 2 Te Hana to Port Marsden Highway, Section 2B GI
Client : NZTA C/- Aurecon & WSP NZ Ltd
Contractor : N/A
Sampled by : NC_Site Team
Date sampled : 23/10/25
Sampling method : SPT
Sampling description : Clayey SILT with some sand and minor gravel
Sample condition : As Received

Project No : 1-C2466.16
Lab Ref No : WL4708/175-SD
Client Ref No : 1-C2466.16

Test Results

Sample Lab Ref No : WL4708/175-SD
Source : BH2B_1154
Sample Depth (m) : 3.00-3.45
Soil Fraction Tested : Whole Soil
Sample History : Unknown
Solid Density (t/m³) : 2.70

Test Methods

Solid Density : NZS 4402 : 1986 Test 2.7.2

Notes

Date tested : 12/11/2025
Date reported : 19/11/25

Sampling is not covered by IANZ Accreditation. Results apply only to sample tested.
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Approved Signatory

Thirushen Pillay
Designation : Senior Civil Engineering Technician
Date : 23/11/25



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SOLID DENSITY OF SOIL PARTICLES
TEST REPORT



Project : Ground Investigation for Northland Corridor
Location : Section 2 Te Hana to Port Marsden Highway, Section 2B GI
Client : NZTA C/- Aurecon & WSP NZ Ltd
Contractor : N/A
Sampled by : NC_Site Team
Date sampled : 23/10/25
Sampling method : SPT
Sampling description : SILT with some clay and sand
Sample condition : As Received

Project No : 1-C2466.16
Lab Ref No : WL4708/181-SD
Client Ref No : 1-C2466.16

Test Results

Sample Lab Ref No : WL4708/181-SD
Source : BH2B_1157
Sample Depth (m) : 4.50-4.95
Soil Fraction Tested : Whole Soil
Sample History : Unknown
Solid Density (t/m³) : 2.74

Test Methods

Solid Density : NZS 4402 : 1986 Test 2.7.2

Notes

Date tested : 13/11/2025
Date reported : 19/11/25

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Approved Signatory

Thirushen Pillay
Designation : Senior Civil Engineering Technician
Date : 23/11/25



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SOLID DENSITY OF SOIL PARTICLES
TEST REPORT



Project : Ground Investigation for Northland Corridor
Location : Alternative to Brynderwyn Hills Section
Client : NZTA C/- Aurecon & WSP NZ Ltd
Contractor : N/A
Sampled by : NC_Site Team
Date sampled : 11/11/25
Sampling method : SPT
Sampling description : Silty SAND with minor clay
Sample condition : As Received

Project No : 1-C2466.16
Lab Ref No : WL4708/212-SD
Client Ref No : 1-C2466.16

Test Results

Sample Lab Ref No : WL4708/212-SD
Source : BH2B_1159
Sample Depth (m) : 3.00-3.45
Soil Fraction Tested : Whole Soil
Sample History : Unknown
Solid Density (t/m^3) : 2.70

Test Methods

Solid Density : NZS 4402 : 1986 Test 2.7.2

Notes

Date tested : 16/12/2025
Date reported : 19/12/25

Sampling is not covered by IANZ Accreditation. Results apply only to sample tested.
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All information supplied by Client

Approved Signatory

Thirushen Pillay
Designation : Senior Civil Engineering Technician
Date : 07/01/26



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**SOLID DENSITY OF SOIL PARTICLES
TEST REPORT**



Project : Ground Investigation for Northland Corridor
Location : Alternative to Brynderwyn Hills Section
Client : NZTA C/- Aurecon & WSP NZ Ltd
Contractor : N/A
Sampled by : NC_Site Team
Date sampled : 29/10/2025
Sampling method : SPT
Sampling description : SILT with some clay and sand
Sample condition : As Received

Project No : 1-C2466.16
Lab Ref No : WL4708/188-SD
Client Ref No : 1-C2466.16

Test Results

Sample Lab Ref No : WL4708/188-SD
Source : BH2B_T162
Sample Depth (m) : 3.50-3.95
Soil Fraction Tested : Whole Soil
Sample History : Unknown
Solid Density (t/m³) : 2.73

Test Methods

Solid Density : NZS 4402 : 1986 Test 2.7.2

Notes

Date tested : 12/12/25
Date reported : 13/12/25

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All information supplied by Client

Approved Signatory

Thirushen Pillay
Designation : Senior Civil Engineering Technician
Date : 18/12/25



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SOLID DENSITY OF SOIL PARTICLES
TEST REPORT



Project : Ground Investigation for Northland Corridor
Location : Alternative to Brynderwyn Hills section: A new route close to SH1
Client : NZTA C/- Aurecon & WSP NZ Ltd
Contractor : -
Sampled by : WSP
Date sampled : 27/09/25
Sampling method : Digger
Sampling description : Refer to TP2B_1102 log report
Sample condition : Natural; as received

Project No : 1-C2466.16
Lab Ref No : WL4709/8-SD
Client Ref No : -

Test Results

Sample Lab Ref No : WL4709/8-SD
Source : TP2B_1102
Sample Depth (m) : 4.50-5.00
Soil Fraction Tested : Whole Soil
Sample History : Natural
Solid Density (t/m^3) : 2.74

Test Methods

Solid Density : NZS 4402 : 1986 Test 2.7.2

Notes

Date tested : 08/12/25
Date reported : 09/12/25

Approved Signatory

Designation : *Laboratory Manager*
Date : 10/12/25

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SOLID DENSITY OF SOIL PARTICLES
TEST REPORT



Project : Ground Investigation for Northland Corridor
Location : Section 2B - Bryderwyn to Marsden Point
Client : NZTA C/- Aurecon & WSP NZ Ltd
Contractor : -
Sampled by : NC Site Team
Date sampled : 25/09/25
Sampling method : Digger
Sampling description : Refer to TP2B_1104 log report
Sample condition : Natural; as received

Project No : 1-C2466.16
Lab Ref No : WL4709/11-SD
Client Ref No : -

Test Results

Sample Lab Ref No : WL4709/11-SD
Source : TP2B_1104
Sample Depth (m) : 2.00-3.00
Soil Fraction Tested : Whole Soil
Sample History : Natural
Solid Density (t/m³) : 2.77

Test Methods	Notes
Solid Density : NZS 4402 : 1986 Test 2.7.2	

Date tested : 13/10/25
Date reported : 14/10/25

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Approved Signatory

Designation : *Laboratory Manager*
Date : 17/10/25



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SOLID DENSITY OF SOIL PARTICLES
TEST REPORT



Project : Ground Investigation for Northland Corridor
Location : Alternative to Brynderwyn Hills section: A new route close to SH1
Client : NZTA C/- Aurecon & WSP NZ Ltd
Contractor : -
Sampled by : WSP
Date sampled : 27/09/25
Sampling method : Digger
Sampling description : Refer to TP2B_1108 log report
Sample condition : Natural; as received

Project No : 1-C2466.16
Lab Ref No : WL4709/14-SD
Client Ref No : -

Test Results	
Sample Lab Ref No :	WL4709/14-SD
Source :	TP2B_1108
Sample Depth (m) :	1.50-1.80
Soil Fraction Tested :	Whole Soil
Sample History :	Natural
Solid Density (t/m ³) :	2.64
Test Methods	
Solid Density : NZS 4402:1986 Test 2.7.2	Notes

Date tested : 07/11/25
Date reported : 11/11/25

Approved Signatory

Designation : *Laboratory Manager*
Date : 14/11/25

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SOLID DENSITY OF SOIL PARTICLES
TEST REPORT



Project : Ground Investigation for Northland Corridor
Location : Alternative to Brynderwyn Hills section: A new route close to SH1
Client : NZTA C/- Aurecon & WSP NZ Ltd
Contractor : -
Sampled by : WSP
Date sampled : 27/09/25
Sampling method : Digger
Sampling description : Refer to TP2B_1110 log report
Sample condition : Natural; as received

Project No : 1-C2466.16
Lab Ref No : WL4709/17-SD
Client Ref No : -

Test Results

Sample Lab Ref No : WL4709/17-SD
Source : TP2B_1110
Sample Depth (m) : 1.50-2.00
Soil Fraction Tested : Whole Soil
Sample History : Natural
Solid Density (t/m³) : 2.75

Test Methods	Notes
Solid Density : NZS 4402:1986 Test 2.7.2	

Date tested : 21/11/25
Date reported : 24/11/25

Approved Signatory

Designation : *Laboratory Manager*
Date : 25/11/25

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SOLID DENSITY OF SOIL PARTICLES
TEST REPORT



Project : Ground Investigation for Northland Corridor
Location : Section 2 - Te Hana to Port Marsden Highway, Section 2B GI
Client : NZTA C/- Aurecon & WSP NZ Ltd
Contractor : -
Sampled by : NC Site Team
Date sampled : 15/09/25
Sampling method : Digger
Sampling description : Clayey SILT with minor sand and traces of gravel
Sample condition : As Received

Project No : 1-C2466.16
Lab Ref No : WL4709/2-SD
Client Ref No : 1-C2466.16

Test Results

Sample Lab Ref No : WL4709/2-SD
Source : TP2B_1114
Sample Depth (m) : 1.90-2.60
Soil Fraction Tested : Whole Soil
Sample History : Unknown
Solid Density (t/m^3) : 2.76

Test Methods

Solid Density : NZS 4402 : 1986 Test 2.7.2

Notes

Date tested : 17/10/25
Date reported : 23/10/25

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Approved Signatory

Thirushen Pillay

Designation : Senior Civil Engineering Technician

Date : 26/10/25



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SOLID DENSITY OF SOIL PARTICLES
TEST REPORT



Project : Ground Investigation for Northland Corridor
Location : Alternative to Brynderwyn Hills section: A new route close to SH1
Client : NZTA C/- Aurecon & WSP NZ Ltd
Contractor : -
Sampled by : WSP
Date sampled : 25/09/25
Sampling method : Digger
Sampling description : Refer to TP2B_1119 log report
Sample condition : Natural; as received

Project No : 1-C2466.16
Lab Ref No : WL4709/21-SD
Client Ref No : -

Test Results	
Sample Lab Ref No :	WL4709/21-SD
Source :	TP2B_1119
Sample Depth (m) :	4.00-4.50
Soil Fraction Tested :	Whole Soil
Sample History :	Natural
Solid Density (t/m ³) :	2.81
Test Methods	Notes
Solid Density : NZS 4402:1986 Test 2.7.2	

Date tested : 07/11/25
Date reported : 11/11/25

Approved Signatory

Designation : *Laboratory Manager*
Date : 14/11/25

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

SOLID DENSITY OF SOIL PARTICLES
TEST REPORT



Project : Ground Investigation for Northland Corridor
Location : Alternative to Brynderwyn Hills section: A new route close to SH1
Client : NZTA C/- Aurecon & WSP NZ Ltd
Contractor : -
Sampled by : WSP
Date sampled : 25/09/25
Sampling method : Digger
Sampling description : Refer to TP2B_1120 log report
Sample condition : Natural; as received

Project No : 1-C2466.16
Lab Ref No : WL4709/23-SD
Client Ref No : -

Test Results

Sample Lab Ref No : WL4709/23-SD
Source : TP2B_1120
Sample Depth (m) : 4.50-5.00
Soil Fraction Tested : Whole Soil
Sample History : Natural
Solid Density (t/m³) : 2.83

Test Methods	Notes
Solid Density : NZS 4402 : 1986 Test 2.7.2	

Date tested : 21/11/25
Date reported : 24/11/25

Approved Signatory

Designation : *Laboratory Manager*
Date : 25/11/25

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accreditation

SOLID DENSITY OF SOIL PARTICLES
TEST REPORT



Project : Ground Investigation for Northland Corridor
Location : Section 2 - Te Hana to Port Marsden Highway, Section 2B GI
Client : NZTA C/- Aurecon & WSP NZ Ltd
Contractor : -
Sampled by : NC Site Team
Date sampled : 15/09/25
Sampling method : Digger
Sampling description : Clayey SILT with some sand and traces of gravel
Sample condition : As Received

Project No : 1-C2466.16
Lab Ref No : WL4709/4-SD
Client Ref No : 1-C2466.16

Test Results

Sample Lab Ref No : WL4709/4-SD
Source : TP2B_1121
Sample Depth (m) : 1.90-2.50
Soil Fraction Tested : Whole Soil
Sample History : Unknown
Solid Density (t/m^3) : 2.76

Test Methods

Solid Density : NZS 4402 : 1986 Test 2.7.2

Notes

Date tested : 17/10/25
Date reported : 23/10/25

Sampling is not covered by IANZ Accreditation. Results apply only to sample tested.
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All information supplied by Client

Approved Signatory

Thirushen Pillay
Designation : Senior Civil Engineering Technician
Date : 28/10/25



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