



TEST REPORT - AS 1289.5.2.1

Client:	LW & CA Dewar	Ticket No.	S13207
Client Address:	-	Report No.	WG24.7684_1_MMDD
Project:	Material Assessment	Sample No.	WG24.7684
Location:	CNR Gingin Brook Road and Indian Ocean Drive	Date Sampled:	15/05/2024
Sample Identification:	Fill Sand	Date Tested:	17/05/2024

TEST RESULTS - Modified Maximum Dry Density

Sampling Method:

Sampled by Client, Tested as Received

Sample Curing Time (Hours):

2

Method used to Determine Liquid Limit:

Visual / Tactile Assessment by Competent Technician

Material + 19.0mm (%):

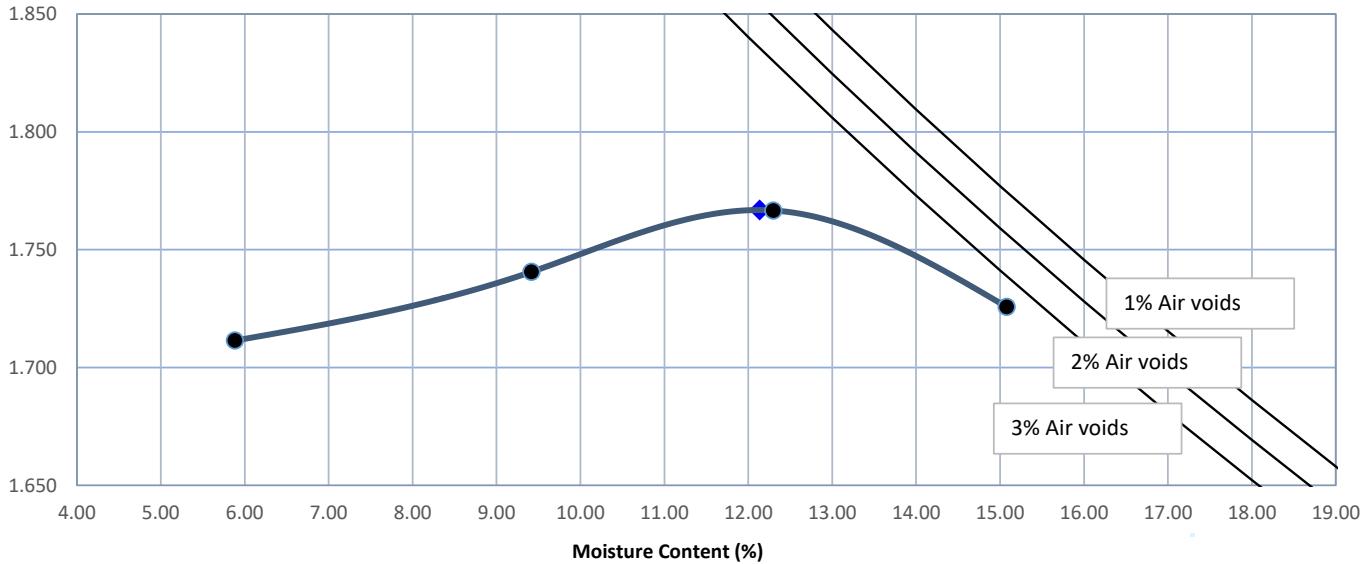
0

Material + 37.5mm (%)

-

Moisture Content (%)	5.9	9.4	12.3	15.1	
Dry Density (t/m³)	1.711	1.741	1.767	1.726	

Dry Density (t/m³)



Modified Maximum Dry Density (t/m³) **1.77**

Optimum Moisture Content (%) **12.0**

Comments: The above air void lines are derived from a calculated apparent particle density of 2.456 t/m³

Approved Signatory:

Name: Cody O'Neill

Date: 20/May/2024



Accreditation No. 20599

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with ISO/IEC 17025 - Testing

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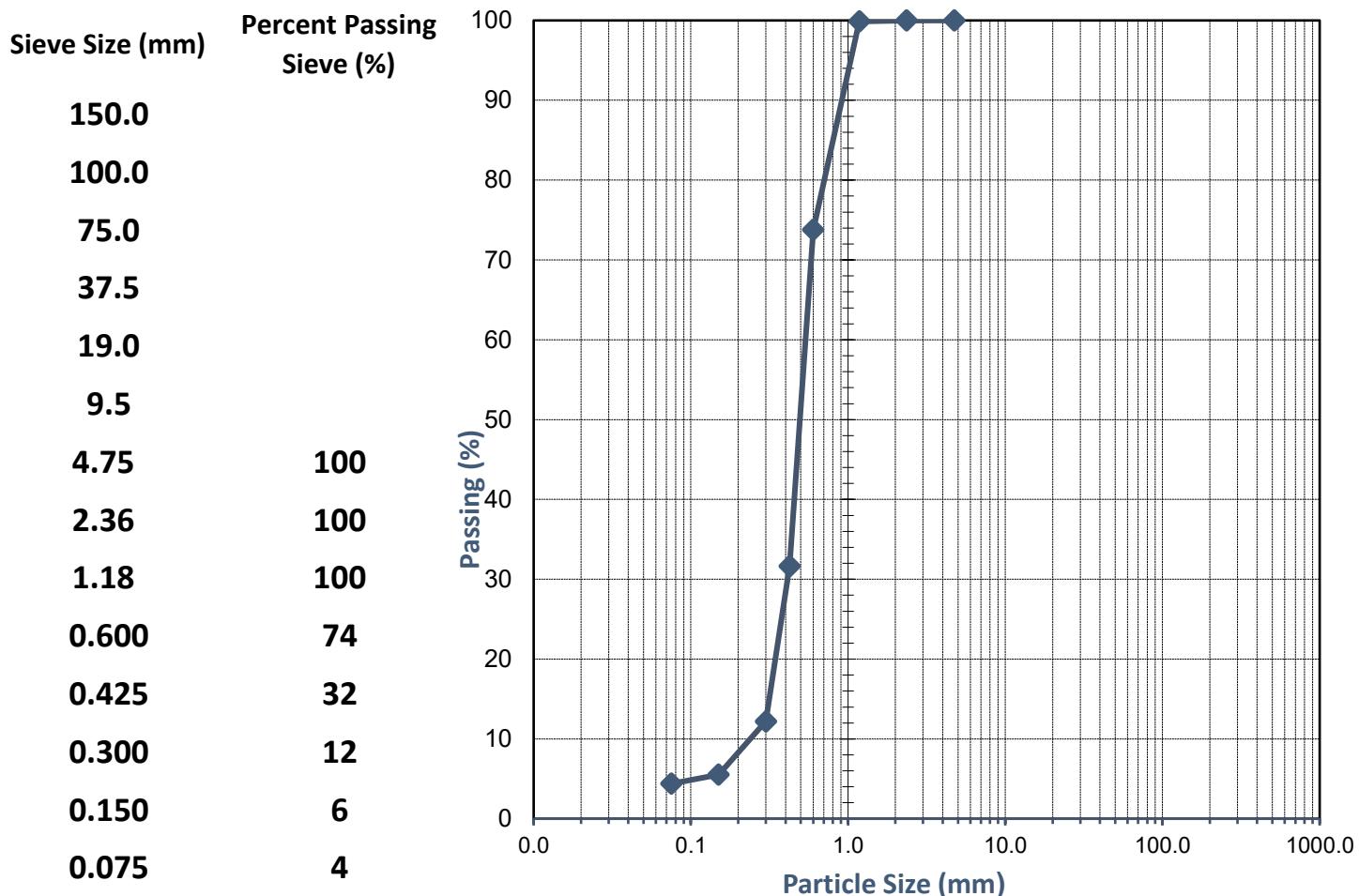
TEST REPORT - AS 1289.3.6.1

Client:	LW & CA Dewar	Ticket No.	S13207
Client Address:	-	Report No.	WG24.7684_1_PSD
Project:	Material Assessment	Sample No.	WG24.7684
Location:	CNR Gingin Brook Road and Indian Ocean Drive	Date Sampled:	15/05/2024
Sample Identification:	Fill Sand	Date Tested:	17/05 - 20/05/2024

TEST RESULTS - Particle Size Distribution of Soil

Sampling Method:

Sampled by Client, Tested as Received



Comments:

Approved Signatory:

Name: Matt van Herk

Date: 22/May/2024



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SOIL | AGGREGATE | CONCRETE | CRUSHING

TEST REPORT - IEEE Standard 442, ASTM D5334, AS 1289.2.1.1 & AS 1289.5.2.1

Client:	LW & CA Dewar	Ticket No.	S13207
Client Address:	-	Report No.	WG24.7684_1_TR
Project:	Material Assessment	Sample No.	WG24.7684
Location:	CNR Gingin Brook Road and Indian Ocean Drive	Date Sampled:	15/05/2024
Sample Identification:	Fill Sand	Date Tested:	21/05/2024

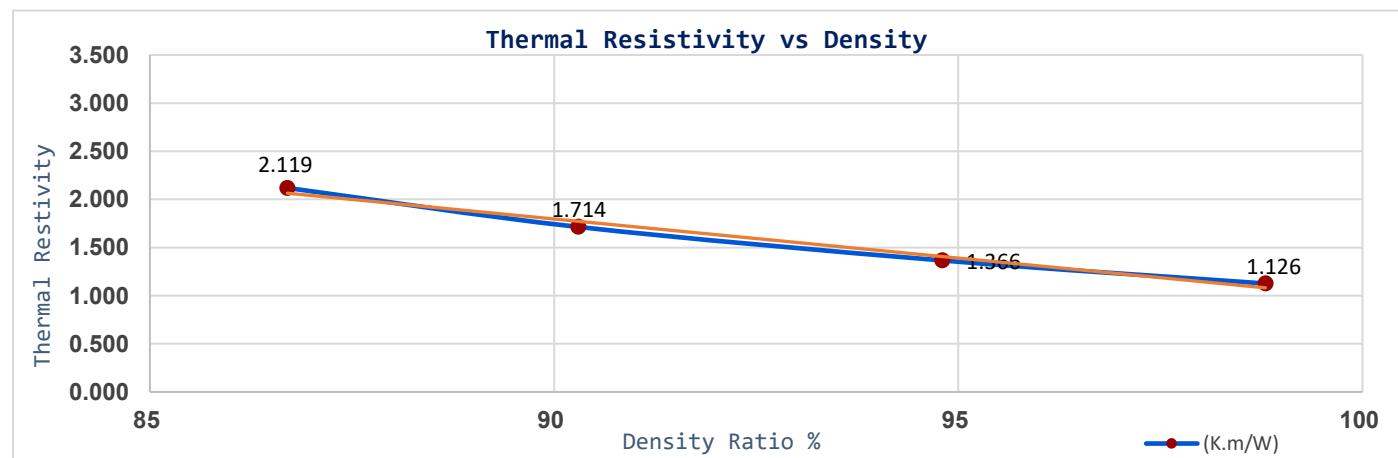
TEST RESULTS - THERMAL RESISTIVITY

Sampling Method: Sampled by Client, Tested as Received

Compaction Details		Reference MDD Details	
Maximum Dry Density (t/m ³)	1.770	Compaction Type	Modified
Optimum Moisture Content (%)	12.0	Compactive Effort (kJ/m ³)	2703
Target Dry Density Ratio (%)	Various	Mass of Rammer (kg)	4.5
Target Moisture Ratio (%)	0	Number of Layers	5
% Retained on the 19.0mm Sieve	0	Blows per Layer	Variable

Specimen Conditions At Test and After Compaction

Specimen No.	1	2	3	4
Target Density Ratio (%)	85.0	90.0	95.0	100.0
Moisture Content (%)	0.2	0.2	0.2	0.3
Density Ratio (%)	86.7	90.3	94.8	98.8
Thermal Resistivity (K.m/W)	2.119	1.714	1.366	1.126



Comments:

Approved Signatory:

Name: Matt van Herk

Date: 22/May/2024

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SOIL | AGGREGATE | CONCRETE | CRUSHING

TEST REPORT - ‡IEEE Standard 442, ‡ ASTM D5334, AS 1289.2.1.1 & AS 1289.5.2.1

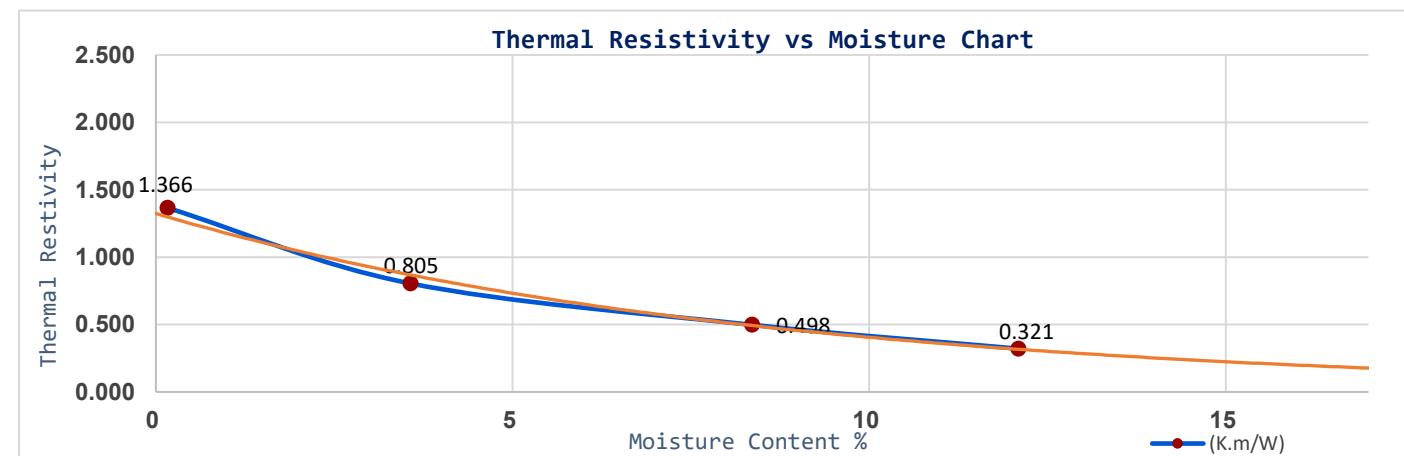
Client:	LW & CA Dewar	Ticket No.	S13207
Client Address:	-	Report No.	WG24.7684_1_TR
Project:	Material Assessment	Sample No.	WG24.7684
Location:	CNR Gingin Brook Road and Indian Ocean Drive	Date Sampled:	15/05/2024
Sample Identification:	Fill Sand	Date Tested:	21/05/2024

TEST RESULTS - THERMAL RESISTIVITY & CONDUCTIVITY

Sampling Method: Sampled by Client, Tested as Received

Compaction Details		Reference MDD Details	
Maximum Dry Density (t/m ³)	1.770	Compaction Type	Modified
Optimum Moisture Content (%)	12.0	Compactive Effort (kJ/m ³)	2703
Target Dry Density Ratio (%)	95	Mass of Rammer (kg)	4.5
Target Moisture Ratio (%)	See Below	Number of Layers	5
% Retained on the 19.0mm Sieve	0	Blows per Layer	14

Specimen Conditions At Test and After Compaction				
Specimen No.	1	2	3	4
Dry Density Ratio (%)	94.8	95.2	94.6	94.8
Target Moisture Ratio (%)	0.0	4.0	8.0	12.0
Moisture Content (%)	0.2	3.6	8.4	12.1
‡ - Thermal Resistivity (K.m/	1.366	0.805	0.498	0.321



Comments: ‡ - NATA Accreditation does not cover the performance of this service . Tested as per clients request.

Approved Signatory:

Name: Matt van Herk

Date: 22/May/2024



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