



BLACKTOP MATERIALS ENGINEERING

PO Box 1018 Geraldton WA 6531

ACN: 098 257 071 / ABN: 52 098 257 071

PHONE: (08) 9921 1878

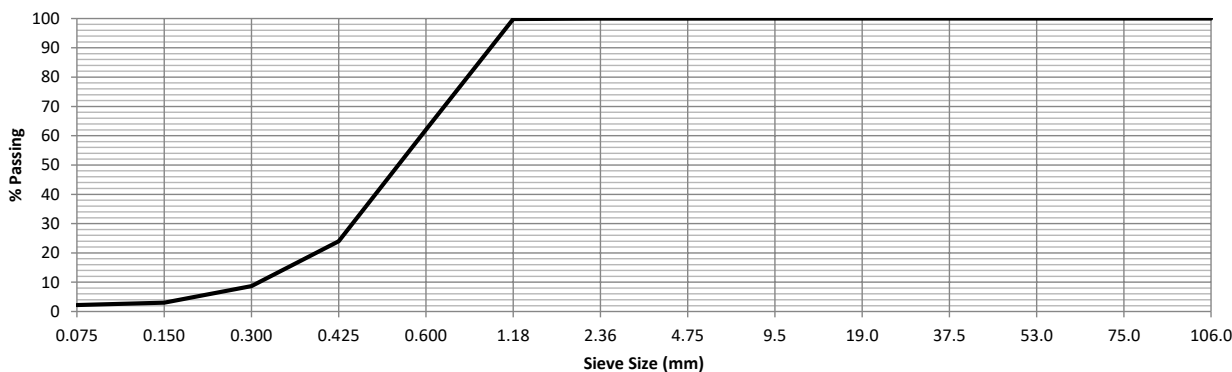
email: laboratory@blacktopengineering.com.au

TEST CERTIFICATE

CLIENT: In-Situ Construction & Maintenance
ADDRESS: 49 Bailey Street, Dongara Western Australia 6525
PROJECT: NGE Cataby Solar Farm
PROJECT: Desert Run Sands
LOCATION: Sample 1
DESCRIPTION: Sand minor Silt
PROPOSED USE: Backfill

CERTIFICATE No.: 24BME2716
SAMPLE No.: 24BME2716
DATE SAMPLED: 20/05/2024
DATE TESTED: 20-23/05/2024
PROJECT No.: Not Supplied
CONTRACT No.: Not Supplied
CLIENT LOT No: Not Supplied
PURCHASE ORDER No: PO-14051
TEST REQUEST No: Not Supplied

SOIL CLASSIFICATION TESTS



PARTICLE SIZE DISTRIBUTION

in accordance with Test Method AS 1289 3.6.1

Sieve Size (mm)	% Passing
106.0	100
75.0	100
53.0	100
37.5	100
19.0	100
9.5	100
4.75	100
2.36	100
1.18	100
0.600	62
0.425	24
0.300	9
0.150	3
0.075	2

ATTERBERG LIMITS

in accordance with Test Method AS 1289*

Liquid Limit	22	%
(*3.9.1)		
Plastic Limit	Non Plastic	%
(*3.2.1)		
Plasticity Index	Non Plastic	%
(*3.3.2)		
Linear Shrinkage	0.0	%
(*3.4.1)		

Note:

Testing performed at Blacktop Materials Engineering Geraldton Laboratory 111 Anderson St Geraldton WA 6530.

Moisture contents determined by method AS 1289 2.1.1.

Tested as received. Sample supplied by client.

Particle Size Distribution

No upper and lower grading curve guides provided by client.

Atterberg Limits

Cone penetrometer method. Sample air dried. Preparation dry sieved.

No cracking, crumbling or curling with Linear Shrinkage.

Approved Signatory :

D. Sherman (Senior Materials Technician)



Accredited for compliance with ISO/IEC 17025 - Testing.
Accreditation No 14505.

Date : 23/05/2024

This Test Certificate must not be reproduced except in full.
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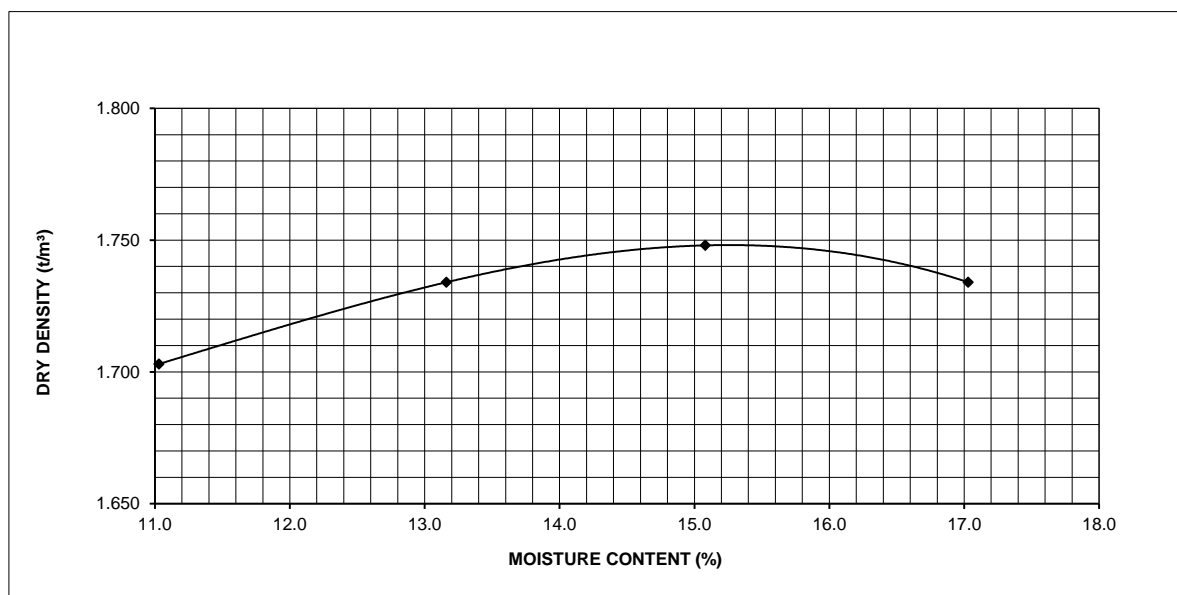
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TEST CERTIFICATE

CLIENT:	In-Situ Construction & Maintenance	CERTIFICATE No.:	24BME2716
ADDRESS:	49 Bailey Street, Dongara Western Australia 6525	SAMPLE No.:	24BME2716
PROJECT:	NGE Cataby Solar Farm	DATE SAMPLED:	20/05/2024
PROJECT:	Desert Run Sands	DATE TESTED:	20-23/05/2024
LOCATION:	Sample 1	PROJECT No.:	Not Supplied
DESCRIPTION:	Sand minor Silt	CONTRACT No.:	Not Supplied
PROPOSED USE:	Backfill	CLIENT LOT No.:	Not Supplied
		PURCHASE ORDER No.:	PO-14051
		TEST REQUEST No.:	Not Supplied

DRY DENSITY/MOISTURE CONTENT RELATIONSHIP

-in accordance with Test Method AS 1289.5.2.1 (Modified Compaction)



MAXIMUM DRY DENSITY (t/m³) = 1.75

OPTIMUM MOISTURE CONTENT (%) = 15.5

Note:

Testing performed at Blacktop Materials Engineering Laboratory 111 Anderson St Geraldton WA 6530.
Tested as received. Sample supplied by client.
Liquid limit estimate has been based on a visual/tactile assessment by a competent person.
Minimum period of sample curing time - 2 hours.
0% retained on 19.0 mm sieve.

Approved Signatory :

D. Sherman (Senior Materials Technician)

Date : 23/05/2024



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TEST CERTIFICATE

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CLIENT: In-Situ Construction & Maintenance
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PROPOSED USE: Backfill

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TEST REQUEST No.: Not Supplied

PERTH SAND PENETROMETER BLOWS PER 300 mm PENETRATION VERSES DRY DENSITY RATIO

TEST PERFORMED UNDER LABORATORY CONDITIONS IN ACCORDANCE WITH IN HOUSE METHOD BME-TP01

LABORATORY COMPACTION DATA (AS 1289 5.2.1)

Sample No.: BME 24BME2716
Max. Dry Density: (t/m³) 1.749
Optimum Moisture: (%) 15.3

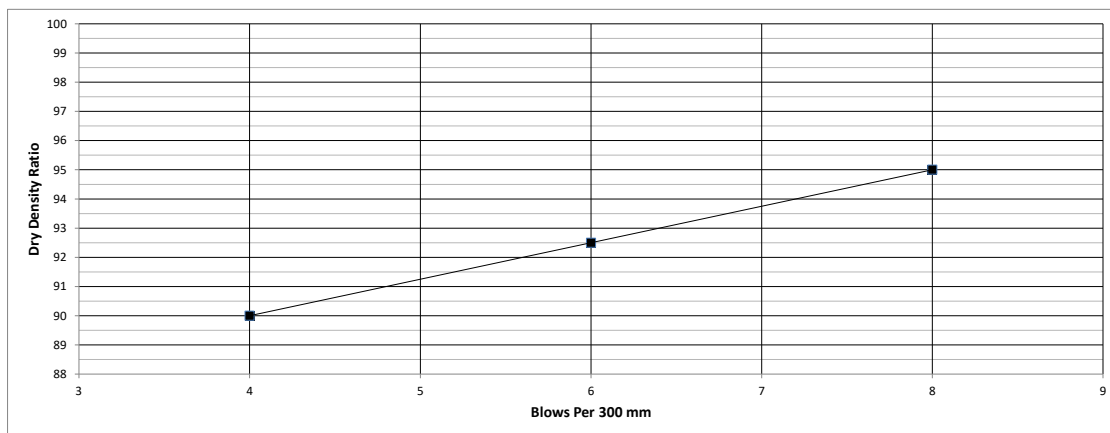
DESIRED MOISTURE RATIO: 75 %

COMPACTION CONDITIONS:

Specimen	Dry Density Ratio (%)
1	90
2	92.5
3	95

CONDITIONS AT TEST:

Specimen	Blow Count
1	4
2	6
3	8



Notes:

- Laboratory testing performed by Blacktop Materials Engineering at 111 Anderson St Geraldton WA 6530.
- Tested as received. Sample supplied by client.
- Tested at density / moisture conditions as instructed by client.
- Blacktop Materials Engineering stress that this test is performed under laboratory conditions for a particular material (Ref No. 24BME2716) at given moisture content and density ratios. The results are only valid for testing in the field when similar material and moisture conditions exist.
- Perth Sand Penetrometer test conducted in accordance with AS 1289.6.3.3
- Particle Size Distribution of 100% passing 2.36 mm sieve.

Approved Signatory :

D. Sherman (Senior Materials Technician)

Date : 23/05/2024