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GEOTECHNICAL INVESTIGATION REPORT

EGSC COMPOST FACILITY, FORGE CREEK

Prepared for SMEC Australia (Docklands, VIC)

4 July 2023 GSSW1879 Reports GSSW1879-1

GROUND SCIENCE SOUTH WEST PTY LTD

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1.0 INTRODUCTION

Ground Science South West Pty Ltd (Ground Science) has prepared this report to present the results of a limited scope geotechnical investigation undertaken for the project identified as EGSC Compost Facility, located at 175 Johnstons Road, Forge Creek (the site). The scope of works herein was commissioned by SMEC Australia Pty Ltd (the Client).

2.0 PROJECT BACKGROUND & UNDERSTANDING

It is understood the project involves the construction of a new composting facility for the East Gippsland Shire Council, including a site processing shed, a weighbridge, a leachate treatment pond, composting facility and an internal access road with a driveway tie in to the existing Johnstons Road. A site map is provided in Appendix A of this report.

3.0 SCOPE OF WORK

Ground Science was commissioned to excavate a series of pavement dippings, shoulder dippings and test pits within the section defined by our client to establish the existing pavement and subsoil profile. Works were completed inside the private property at 175 Johnstons Road, Forge Creek and along the existing Johnstons Road, Forge Creek. In summary, the following scope of works were performed:

- Excavation of 2 pavement dippings (PD) within the existing Johnstons Road sealed pavement to a target depth of 1.0m or prior refusal;
- Excavation of 2 shoulder dippings (SD) within the existing Johnstons Road unsealed shoulders to a target depth
 of 1.0m or prior refusal;
- Excavation of 16 test pits (TP) along the proposed internal access road to a target depth of 1.5m below existing surface levels or prior refusal;
- The continuation of 5 of the above test pits to a target depth of 2.0m below existing surface levels or prior refusal, to determine founding conditions of manhole chambers;
- Excavation of 10 test pits (TP) within the proposed hard stand to a target depth of 1.5m below existing surface levels or prior refusal;
- Excavation of 4 test pits (LPTP) to within the proposed leachate treatment pond to a target depth of 3.0m below existing surface levels or prior refusal;
- Each pavement and shoulder dipping was cut by hand using concrete saws, jackhammers and hand augers to ensure an accurate pavement profile determination;
- Each test pit excavated with a 1.7T Yanmar ViO17 excavator using a 300mm wide toothed bucket or a 450mm toothed bucket and a 300mm power auger attachment to ensure a minimum site footprint;
- Logging of pavement/shoulder dippings and test pits and soil profiles in accordance with AS1726 (2017), including
 depth to bedrock and/or groundwater (where encountered);
- The performance of Dynamic Cone Penetrometer (DCP) tests from the top of subgrade to a depth of 1.5m below or refusal;

Granular fill material from the pavement and shoulder dippings was recovered for laboratory testing including Particle Size Distribution, Atterberg Limits tests, Soaked California Bearing Ratio (CBR) and Field Moisture Content tests.

In-situ subgrade materials from the test pits was recovered for laboratory testing including Particle Size Distribution, Atterberg Limits tests, Soaked California Bearing Ratio (CBR), Triaxial Permeability and Field Moisture Content tests.

A laboratory test summary is provided in Appendix B of this report.

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4.0 FIELD INVESTIGATION

A field investigation was undertaken between the 15th of May and the 19th of May 2023. The locations of the pavement dippings, shoulder dippings and test pits were in accordance with the scope of works.

The site along the existing Johnstons Road was observed to be generally undulating, with shrubs to large-sized vegetation present on both sides of the pavement. Drainage conditions were observed to be generally fair with fair surface runoff. At the time of our investigation, the pavement condition of the existing Johnstons Road was observed to be generally fair. Total fill depth observed in Johnstons Road road reserve varied between 200mm to 800mm below existing surface level.

The site inside of 175 Johnstons Road was observed to be generally undulating. Shrubs were located throughout the proposed test area inside 175 Johnstons Road, with medium to large trees on the fence line surrounding the property and two large trees inside the property boundary. Drainage conditions were observed to be generally poor with poor surface runoff. Total topsoil depth observed in 175 Johnstons Road varied between 200mm to 400mm below existing surface level.

Groundwater was not observed in the scope of the investigation.

An understanding of the regional geological conditions was obtained via review of the GeoVic online seamless geology (2014) map sheet. The results of the review show that the site consists of Pliocene to Quaternary aged alluvial trace deposits overlying the Pliocene to Pleistocene aged Haunted Hills Formation deposits. A boundary between these two units was noted to be located to the north and east of the site. Deposits from both units was observed at the site and have been included in soil classifications of the observed subsoils present in the engineering logs.

Engineering Logs of the pavement dippings, shoulder dippings and test pits are presented in Appendix C of this report.

5.0 DISCLOSURE

For and on behalf of

Ground Science South West Pty Ltd

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AUTHOR: REVIEWED: Michael Knez **Thomas Seitz Geotechnical Engineer Geotechnical Engineer** **GROUND SCIENCE SOUTH WEST PTY LTD** ABN: 51 612 825 313

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6.0 LIMITATIONS

This type of investigation (as per our commission) is not designed or capable of locating all soil conditions, (which can vary even over short distances). The advice given in this report is based on the assumption that the test results are representative of the overall soil conditions. However, it should be noted that actual conditions in some parts of the Site might differ from those found. If further sampling reveals soil conditions significantly different from those shown in our findings, Ground Science must be consulted.

The scope and the period of Ground Science services are described in the proposal and are subject to restrictions and limitations. Ground Science did not perform a complete assessment of all possible conditions or circumstances that may exist at the site. If a service is not expressly indicated, do not assume it has been provided. If a matter is not addressed, do not assume that any determination has been made by Ground Science South in regards to it.

Where data has been supplied by the client or a third party, it is assumed that the information is correct unless otherwise stated. No responsibility is accepted by Ground Science for incomplete or inaccurate data supplied by others.

It is recognised that the passage of time affects the information and assessment provided in this document. Ground Science's assessment is based on information that existed at the time of the preparation of this document. It is understood that the services provided allowed Ground Science to form no more than an opinion of the actual site conditions observed during sampling and observations of the site visit and cannot be used to assess the effects of any subsequent changes in the quality of the site, or its surroundings, or any laws or regulations.

Any drawings or figures presented in this report should be considered only as pictorial evidence of our work. Therefore, unless otherwise stated, any dimensions should not be used for accurate calculations or dimensioning.

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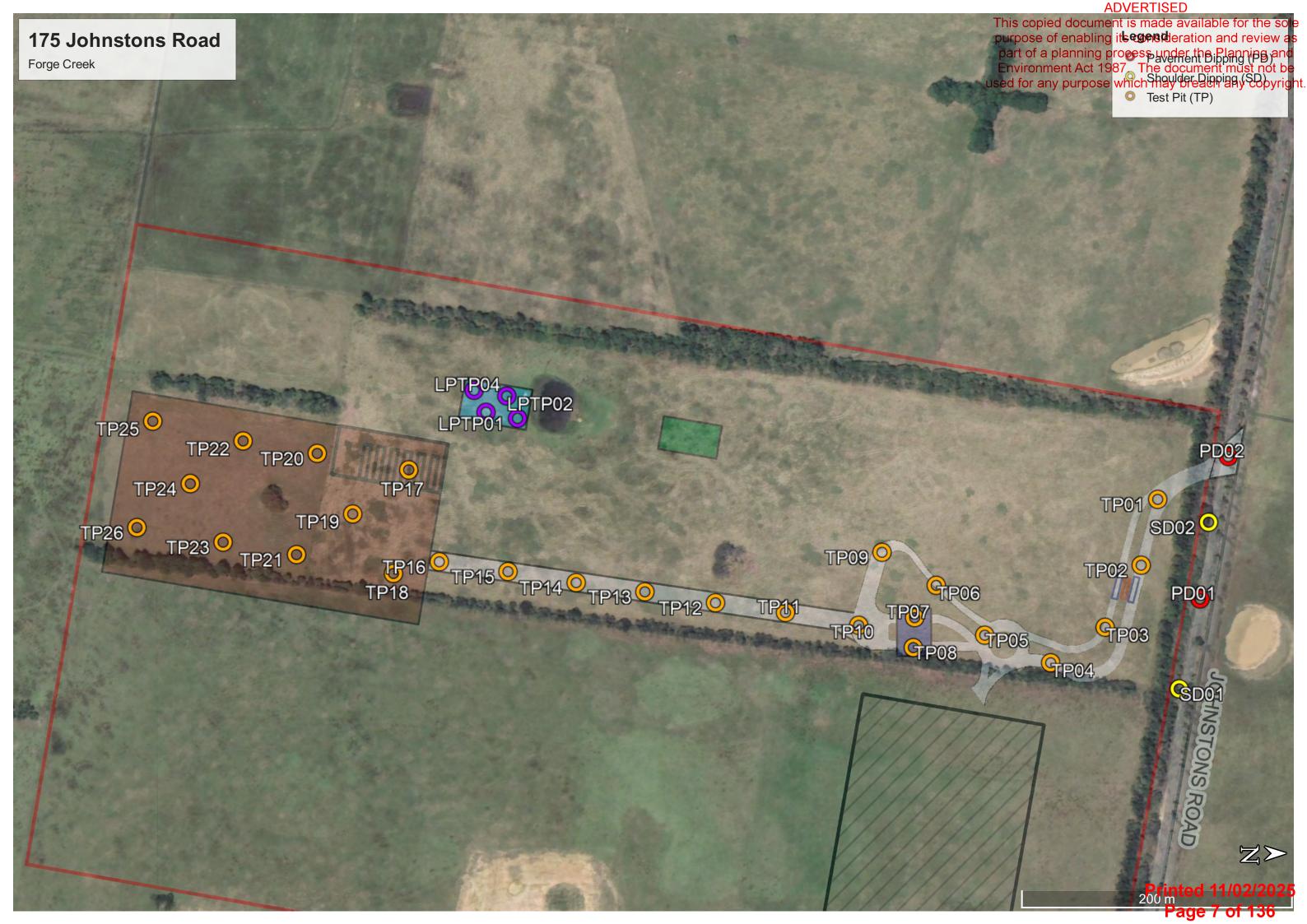
APPENDIX A

Site Plan & Dipping Locations

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APPENDIX B

Laboratory Testing

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LABORATORY TESTING SUMMARY

Client:	SMEC AUSTRALIA PTY LTD (DOCKLANDS, VIC)	Job No	GSSW1879
Project:	GEOTECHNICAL INVESTIGATION EGSC COMPOST FACILITY	Sampled By	MK & GD
Location:	FORGE CREEK		

Site No.	Layer (m)	Lab Ref No.	Soil Class.	75mm	37.5mm	19mm	9.5mm	4.75mm	2.36mm	425um	75um	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Soaked CBR (%)	Swell (%)	Permeability
PD01	0.025m - 0.6m	1879-S1	GC	100	99	83	67	55	49	25	13	23	13	10	30	0.0	-
PD02	0.025m - 0.3m	1879-S2	GM-GC	100	94	78	63	52	47	28	15	20	12	8	45	0.0	-
SD01	0.1m - 0.8m	1879-S3	GM-GC	100	96	80	65	54	48	27	14	20	14	6	30	0.0	-
TP01	0.3m - 1.25m	1879-S4	СН	-	-	-	-	100	99	97	91	66	24	42	1.5	3.0	-
TP02	1.15m - 1.8m	1879-S5	CL	-	-	-	-	-	100	98	90	33	17	16	-	-	-
TP03	1.1m - 1.5m	1879-S6	CL	-	-	-	100	99	99	96	80	31	17	14	5	0.5	-
TP04	1.2m - 1.9m	1879-S7	CI	-	-	-	-	-	100	95	81	41	15	26	-	-	-
TP05	0.55m - 1.2m	1879-S8	CI	-	-	-	-	-	100	91	64	36	14	22	3.0	1.0	-
TP07	0.4m - 1.1m	1879-S9	СН	-	-	-	-	-	100	95	77	53	19	34	3.0	2.0	-
TP09	0.35m - 1.3m	1879-S10	СН	-	-	-	-	-	100	93	65	56	19	37	2.5	2.0	-

NO - Denotes Not Obtainable

NP - Denotes Non-Plastic

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Project:	GEOTECHNICAL INVESTIGATION EGSC COMPOST FACILITY	Sampled By	MK & GD
Location:	FORGE CREEK		

Site No.	Layer (m)	Lab Ref No.	Soil Class.	75mm	37.5mm	19mm	9.5mm	4.75mm	2.36mm	425um	75um	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Soaked CBR (%)	Swell (%)	Permeability
TP10	0.7m - 1.7m	1879-S11	CI	-	-	-	-	-	100	97	75	48	17	31	-	-	-
TP12	1.5m - 1.7m	1879-S12	СН	-	100	97	94	93	92	88	77	58	15	43	-	-	-
TP13	0.3m - 1.5m	1879-S13	CI	-	-	-	-	-	100	95	77	50	17	33	3.5	1.0	-
TP14	1.0m - 1.6m	1879-S14	CL	-	-	100	99	99	98	89	58	34	13	21	-	-	-
TP15	0.6m - 1.25m	1879-S15	CI	-	-	-	100	99	99	90	54	36	12	24	2.5	1.5	-
TP19	0.7m - 1.2m	1879-S16	CI	-	-	-	-	-	100	96	86	41	17	24	-	-	-
TP20	1.2m - 1.5m	1879-S17	СН	100	95	92	88	84	82	71	62	96	26	70	-	-	-
TP23	0.4m - 1.5m	1879-S18	СН	-	-	100	99	98	98	92	85	88	27	61	-	-	-
TP24	0.4m - 1.1m	1879-S19	СН	-	100	99	97	92	91	58	77	78	47	31	-	-	-
TP25	0.8m - 1.3m	1879-S20	СН	100	97	89	83	78	74	60	50	70	27	43	-	-	-

NO - Denotes Not Obtainable

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Location:	FORGE CREEK		

Site No.	Layer (m)	Lab Ref No.	Soil Class.	75mm	37.5mm	19mm	9.5mm	4.75mm	2.36mm	425um	75um	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Soaked CBR (%)	Swell (%)	Permeability (m/sec)
LPTP01	0.4m - 2.0m	1879-S21	CI	-	-	-	-	-	100	90	56	40	12	28	4.5	1.0	1x10 ⁻¹⁰
LPTP02	1.2m - 3.0m	1879-S22	СН	-	-	-	-	-	100	641	44	61	20	41	2.5	2.5	-
LPTP03	1.2m - 2.5m	1879-S23	СН	-	-	-	-	100	99	60	45	52	16	36	3.0	1.5	-
LPTP04	0.55m - 2.5m	1879-S24	СН	-	-	-	-	-	100	93	65	61	18	43	1.5	2.0	4x10 ⁻¹¹
LPTP01	0.4m - 2.0m	1879-S25	CI	-	-	-	-	-	100	90	56	40	12	28	4.5	1.0	9x10 ⁻¹¹
LPTP04	0.55m - 2.0m	1879-S26	СН	-	-	-	-	-	100	93	65	61	18	43	1.5	2.0	2x10 ⁻¹¹
TP19 + TP24 + TP25 + TP26	0.4m - 1.5m	1879-S27	СН	-	100	99	96	92	80	81	74	69	28	41	-	-	3x10 ⁻¹⁰
TP19 + TP24 + TP25 + TP26	0.4m - 1.5m	1879-S28	СН	-	100	99	96	92	80	81	74	69	28	41	-	-	2x10 ⁻¹⁰

NO – Denotes Not Obtainable

NP - Denotes Non-Plastic

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APPENDIX C

Engineering Logs

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Job	n	not	ma	tion	۱

Client	SMEC AUSTRALIA PTY LTD (DOCKI	_ANDS, VIC)	Job No	GSSW1879
Project	GEOTECHNICAL INVESTIGATION E	GSC COMPOST FACILITY	Site No	PD01 – Westbound Lane
Location	FORGE CREEK		Date Sampled	15/06/2023
GPS Coordinates	-37.878788°, 147.620237°	Offset – 1.2m South of Centre Line	Sampled By	MK & GD

Site Information

Site initorniation			
Topography	In General – Undulating	Trees	Shrubs, Small to Large
	Locally – Dip	Site Code	MS
Drainage	In General – Fair	Drainage Type	RHS: Spoon Drain
	Locally – Fair, Vegetation	•	LHS: Spoon Drain
Surface Condition	In General – Fair, Transverse Shape – Fair, Longitudinal Shape – Fair	Width of Seal	5.3m
	Faults – Rutting <10mm, Slick/Flushing & Edge Drop Off	Formation Width	7.2m

Field Pavement Profile Logs

Laye	r (mm)	Layer Description	Lab Reference No.	NMC (%)	Depth (mm)
From	То	Lager Description	Lao Reference No.	INIVIC (70)	Depth (illiii)
0	25	ASPHALT.	-	-	-
25	600	FILL: GC - sandy, clayey GRAVEL (River Gravel), orange mottled white, sub angular to rounded fine to coarse, low plasticity, sand 36% fine to coarse grained, dense, dry.	1879-S1, 1879-S29	3.5	220
600	750	silty SAND, with gravel, dark brown, fine to coarse grained, low plasticity, gravel rounded fine to coarse, medium dense, dry (inferred alluvial deposits).	-	-	-
750	850	sandy SILT/CLAY, pale grey, low plasticity, sand fine to coarse grained, hard, dry (inferred alluvial deposits).	-	-	-
850	1000	CLAY, trace sand & gravel, orange mottled brown, high plasticity, sand fine grained, gravel fine, very stiff to hard, dry to moist (inferred alluvial deposits).	1879-S30	18.5	950
1000	-	TERMINATED.	-	-	-

Laboratory Test Results

Lab Ref. No.	Soil Class	75mm	37.5mm	19mm	9.5mm	4.75mm	2.36mm	425µm	75µm	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Soaked CBR (%)	Swell (%)
1897-S1	GC	100	99	83	67	55	49	25	13	23	13	10	30	0.0

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DYNAMIC CONE PENETROMETER - AS1289 6.3.2

A C N 612 825 313

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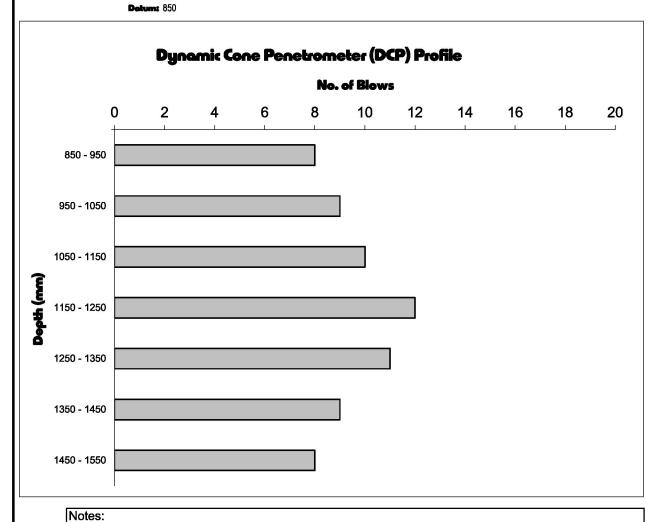
Client: SMEC AUSTRALIA PTY LTD (DOCKLANDS, VIC)

Project: GEOTECHNICAL INVESTIGATION EGSC COMPOST FACILITY

Locations FORGE CREEK

Test Number: Test Lecations PD01

Job No: GSSW1879
Report No: GSSW1879-1
Date Tested: 15/05/2023
Tested By: MK & GD





NATA Accredited Laboratory No. 20109
Accredited for compliance with ISO/IEC 17025 - Testing

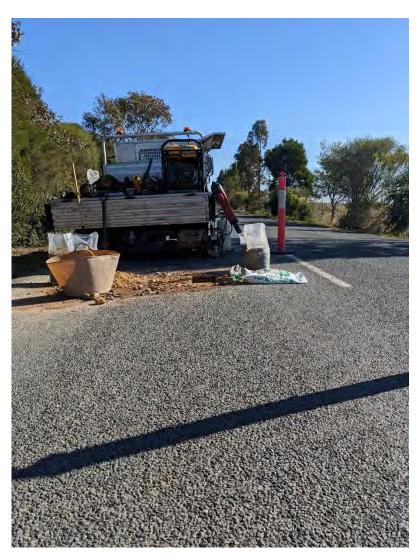
Chris Mamalis
Approved Signatory
Date 30-Jun-23

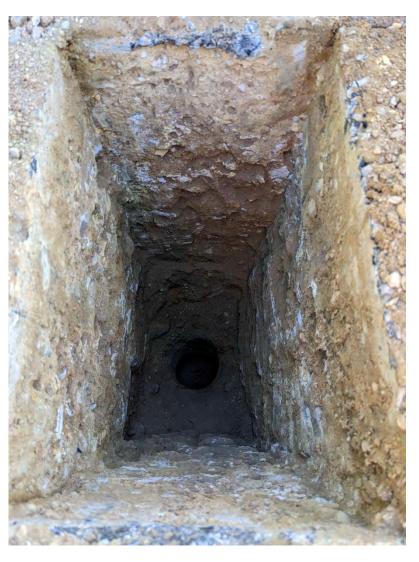


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Site Photographs











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Site Photographs



(P) 03 5282 1566

Material Test Report

GSSW1879-1 **Report Number:**

Issue Number:

Date Issued: 21/06/2023

Client: SMEC AUSTRALIA PTY LTD

4/727 Collins St, Docklands Victoria 3008 GSSW1879 **Project Number:**

Project Name: GEOTECHNICAL INVESTIGATION EGSC COMPOST FACILITY

Project Location: FORGE CREEK

Work Request: 15787 Sample Number: 1879-S1 Date Sampled: 15/05/2023

Dates Tested: 24/05/2023 - 07/06/2023

AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted Sampling Method:

Material classified as per AS 1726:2017 Remarks:

Sample Location: PD01, Depth: 0.025m - 0.6m

FILL: GC - sandy, clayey GRAVEL (River Gravel), orange mottled white, sub angular to rounded fine to coarse, low plasticity, sand 36% fine to coarse grained, dense, dry. Material:

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10 Dowsett Street South Geelong Vic 3220

Phone: (03) 5282 1566

Email: chrism@groundscience.com.au Accredited for compliance with ISO/IEC 17025 - Testing

NATA

Approved Signatory: Chris Mamalis

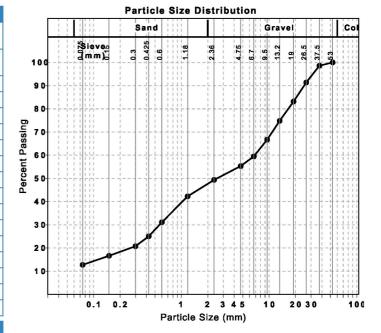
Laboratory Manager

NATA Accredited Laboratory Number: 20109

Particle Size Distribution (AS1141.11.1)								
Sample Washing	Sample was Washed							
Sieve	Passed %	Passing Limits				Retained %	Retain Limits	ed
53 mm	100			0				
37.5 mm	99			1				
26.5 mm	91			7				
19 mm	83			8				
13.2 mm	75			8				
9.5 mm	67			8				
6.7 mm	59			7				
4.75 mm	55			4				
2.36 mm	49			6				
1.18 mm	42			7				
0.6 mm	31			11				
0.425 mm	25			6				
0.3 mm	21			4				
0.15 mm	17			4				
0.075 mm	13			4				

Atterberg Limit (AS1289 3.1.2 & 3.2	Min	Max	
Sample History Oven Dried			
Preparation Method	Dry Sieve		
Liquid Limit (%)	23		
Plastic Limit (%)	13		
Plasticity Index (%)	10		

Linear Shrinkage (AS1289 3.4.1)		Min	Max
Moisture Condition Determined By	AS 1289.3.1.2		
Linear Shrinkage (%)	4.0		
Cracking Crumbling Curling	Crackir	ng	



Material Test Report

GSSW1879-1 **Report Number:**

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Client: SMEC AUSTRALIA PTY LTD

4/727 Collins St, Docklands Victoria 3008

Project Number: GSSW1879 **Project Name:** GEOTECHNICAL INVESTIGATION EGSC COMPOST FACILITY

Project Location: FORGE CREEK

Work Request: 15787 Sample Number: 1879-S1 Date Sampled: 15/05/2023

Dates Tested: 24/05/2023 - 09/06/2023

AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted Sampling Method:

Remarks: Material classified as per AS 1726:2017

Sample Location: PD01, Depth: 0.025m - 0.6m

FILL: GC - sandy, clayey GRAVEL (River Gravel), orange mottled white, sub angular to rounded fine to coarse, low plasticity, sand 36% fine to coarse grained, dense, dry. Material:

California Bearing Ratio (AS 1289 6.1.1 & 3	2.1.1)	Min	Max				
CBR taken at	2.5 mm						
CBR %	30						
Method of Compactive Effort	Mod	lified					
Method used to Determine MDD	AS 1289 5.	2.1 &	2.1.1				
Method used to Determine Plasticity	Visual As	sessm	ent				
Maximum Dry Density (t/m ³)	2.25						
Optimum Moisture Content (%)	6.0						
Laboratory Density Ratio (%)	98.0						
Laboratory Moisture Ratio (%)	97.5						
Dry Density after Soaking (t/m³)	2.21						
Field Moisture Content (%)							
Moisture Content at Placement (%)	5.9						
Moisture Content Top 30mm (%)	6.6						
Moisture Content Rest of Sample (%)	6.3						
Mass Surcharge (kg)	4.5						
Soaking Period (days)	4						
Curing Hours	153.2						
Swell (%)	0.0						
Oversize Material (mm)	19						
Oversize Material Included	Excluded						
Oversize Material (%)	16.2						
Sample remoulded as per Vic Roads Code of Practice RC 500.16							

Dry Density - Moisture Relationship (AS 1289 5.2	Min	Max	
Mould Type	1 LITRE MOULD A		
Compaction	Modified		
Maximum Dry Density (t/m ³)	2.25		
Optimum Moisture Content (%)	6.0		
Oversize Sieve (mm)	19.0		
Oversize Material Wet (%)	16		
Method used to Determine Plasticity	Visual As	sessme	nt
Curing Hours (h)	95.1		

Report Number: GSSW1879-1

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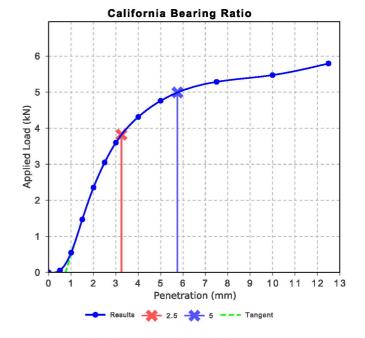
> > Phone: (03) 5282 1566 Email: chrism@groundscience.com.au

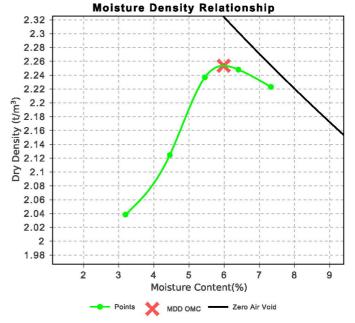
Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Chris Mamalis Laboratory Manager

NATA Accredited Laboratory Number: 20109









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Job Information

Client	SMEC AUSTRALIA PTY LTD (DOCKLA	ANDS, VIC)	Job No	GSSW1879
Project	GEOTECHNICAL INVESTIGATION EG	SSC COMPOST FACILITY	Site No	PD02 – Eastbound Lane
Location	FORGE CREEK		Date Sampled	15/06/2023
GPS Coordinates	-37.878596°, 147.619039°	Offset – 1.3m North of Centre Line	Sampled By	MK & GD

Site Information

Topography	In General – Undulating	Trees	Shrubs, Small to Large
	Locally – Steep Slope	Site Code	MS
Drainage	In General – Fair	Drainage Type	RHS: Spoon Drain
	Locally – Fair, Vegetation	5 U	LHS: Spoon Drain
Surface Condition	In General – Fair, Transverse Shape – Fair, Longitudinal Shape – Fair	Width of Seal	5.2m
	Faults – Rutting <10mm, Slick/Flushing & Edge Drop Off	Formation Width	7.4m

Field Pavement Profile Logs

Laye	r (mm)	Layer Description	Lab Reference No.	NMC (%)	Depth (mm)
From	То	Lager Description	Lao Reference No.	INIVIC (70)	Depth (IIIII)
0	25	SPRAY SEAL	-	-	-
25	300	FILL: GM-GC - sandy, silty/clayey GRAVEL (River Gravel), orange mottled white, sub angular to rounded fine to coarse, low plasticity, sand 32% fine to coarse grained, dense, dry.	1879-S2, 1879-S33	3.6	210
300	1000	CLAY, trace sand, orange mottled brown, low plasticity, sand fine grained, gravel fine, stiff to very stiff, moist (inferred alluvial deposits).	1879-S34	13.9	950
1000	-	TERMINATED.	-	-	-

Laboratory Test Results

Lab Ref. No.	Soil Class	75mm	37.5mm	19mm	9.5mm	4.75mm	2.36mm	425μm	75µm	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Soaked CBR (%)	Swell (%)
1897-S2	GM-GC	100	94	78	63	52	47	28	15	20	12	8	45	0.0

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DYNAMIC CONE PENETROMETER - AS1289 6.3.2

A C N 612 825 313

10 Dowsett Street, South Geeleng, VIC 3220

Clients SMEC AUSTRALIA PTY LTD (DOCKLANDS, VIC)

Project: GEOTECHNICAL INVESTIGATION EGSC COMPOST FACILITY

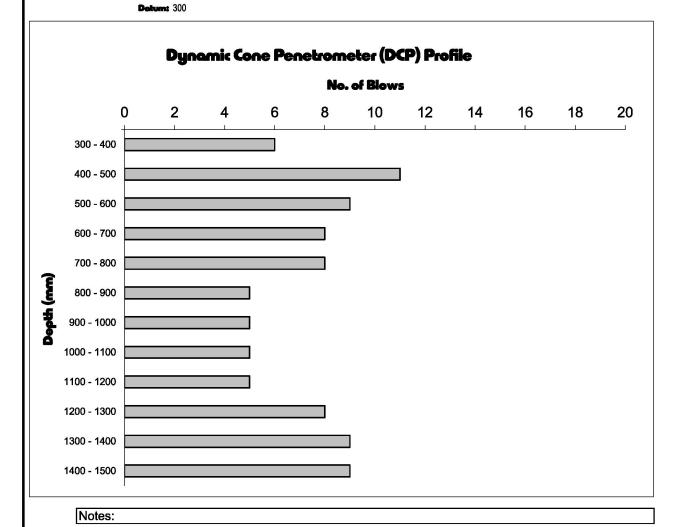
Locations FORGE CREEK

Test Number: -Test Location: PD02 Report No: GSSW1879-1

Date Tested: 15/05/2023

Tested By: MK & GD

Job Not GSSW1879





NATA Accredited Laboratory No. 20109
Accredited for compliance with ISO/IEC 17025 - Testing

Chris Mamalis
Approved Signatory
Date 30-Jun-23

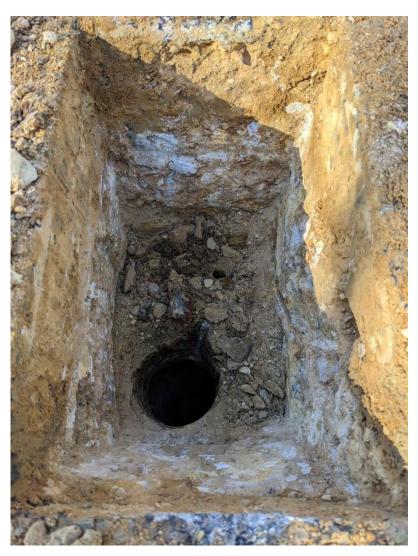


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Site Photographs



(P) 03 5282 1566

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Material Test Report

GSSW1879-1 **Report Number:**

Issue Number:

Date Issued: 21/06/2023

Client: SMEC AUSTRALIA PTY LTD

4/727 Collins St, Docklands Victoria 3008

GSSW1879 **Project Number:**

Project Name: GEOTECHNICAL INVESTIGATION EGSC COMPOST FACILITY

Project Location: FORGE CREEK

Work Request: 15787 Sample Number: 1879-S2 Date Sampled: 15/05/2023

Dates Tested: 24/05/2023 - 07/06/2023

AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted Sampling Method:

Material classified as per AS 1726:2017 Remarks:

Sample Location: PD02, Depth: 0.025m - 0.3m

FILL: GM-GC - sandy, silty/clayey GRAVEL (River Gravel), orange mottled white, sub angular to rounded fine to coarse, low plasticity, sand 32% fine to coarse grained, dense, dry. Material:

1	A
NATA	
WORLD RECOGNISED	A
ACCREDITATION	N

Ground Science South West Pty Ltd 10 Dowsett Street South Geelong Vic 3220

Phone: (03) 5282 1566

Email: chrism@groundscience.com.au

Accredited for compliance with ISO/IEC 17025 - Testing

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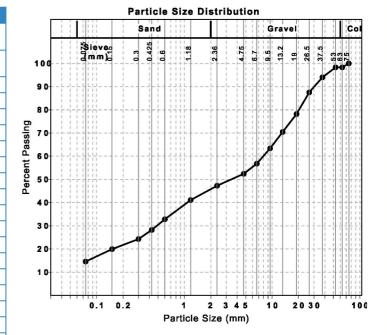
Approved Signatory: Chris Mamalis Laboratory Manager NATA Accredited Laboratory Number: 20109

Particle Size I	Distribution (AS	S1141.1	1.1)				
Sample Washing	Sample was Washed						
Sieve	Passed %	Passing Limits				ed	
75 mm	100			0			
63 mm	98			2			
53 mm	98			0			
37.5 mm	94			4			
26.5 mm	88			6			
19 mm	78			9			
13.2 mm	70			8			
9.5 mm	63			7			
6.7 mm	57			7			
4.75 mm	52			4			
2.36 mm	47			5			
1.18 mm	41			6			
0.6 mm	33			8			
0.425 mm	28			5			
0.3 mm	24			4			
0.15 mm	20			4			
0.075 mm	15			5			

Atterberg Limit (AS1289 3.1.2 & 3.2	Min	Max	
Sample History Oven Dried			
Preparation Method	Dry Sieve		
Liquid Limit (%)	20		
Plastic Limit (%)	12		
Plasticity Index (%)	8		

Linear Shrinkage (AS1289 3.4.1)		Min	Max
Moisture Condition Determined By	AS 1289.3.1.2		
Linear Shrinkage (%)	3.0		
Cracking Crumbling Curling	Cracking		

Report Number: GSSW1879-1



Material Test Report

GSSW1879-1 **Report Number:**

Issue Number:

Date Issued: 21/06/2023

SMEC AUSTRALIA PTY LTD Client:

4/727 Collins St, Docklands Victoria 3008

Project Number: GSSW1879

Project Name: GEOTECHNICAL INVESTIGATION EGSC COMPOST FACILITY

Project Location: FORGE CREEK

Work Request: 15787 Sample Number: 1879-S2 Date Sampled: 15/05/2023

Dates Tested: 24/05/2023 - 09/06/2023

AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted Sampling Method:

Material classified as per AS 1726:2017 Remarks:

Sample Location: PD02, Depth: 0.025m - 0.3m

FILL: GM-GC - sandy, silty/clayey GRAVEL (River Gravel), orange mottled white, sub angular to rounded fine to coarse, low plasticity, sand 32% fine to coarse grained, dense, dry. Material:

California Bearing Ratio (AS 1289 6.1.1 &	2.1.1)	Min	Max
CBR taken at	5 mm		
CBR %	45		
Method of Compactive Effort	Mod	lified	
Method used to Determine MDD	AS 1289 5	2.1 & 2	2.1.1
Method used to Determine Plasticity	Visual As	sessm	ent
Maximum Dry Density (t/m³)	2.22		
Optimum Moisture Content (%)	6.0		
Laboratory Density Ratio (%)	98.5		
Laboratory Moisture Ratio (%)	96.5		
Dry Density after Soaking (t/m ³)	2.18		
Field Moisture Content (%)			
Moisture Content at Placement (%)	5.7		
Moisture Content Top 30mm (%)	6.4		
Moisture Content Rest of Sample (%)	6.9		
Mass Surcharge (kg)	4.5		
Soaking Period (days)	4		
Curing Hours	56.7		
Swell (%)	0.0		
Oversize Material (mm)	19		
Oversize Material Included	Excluded		
Oversize Material (%)	21.1		

Dry Density - Moisture Relationship (AS 1289 5.2	2.1 & 2.1.1)	Min	Max	
Mould Type	1 LITRE MOULD A			
Compaction	Modified			
Maximum Dry Density (t/m ³)	2.22			
Optimum Moisture Content (%)	6.0			
Oversize Sieve (mm)	19.0			
Oversize Material Wet (%)	21			
Method used to Determine Plasticity	Visual As	Visual Assessment		
Curing Hours (h)	94.9			

Sample remoulded as per Vic Roads Code of Practice RC 500.16

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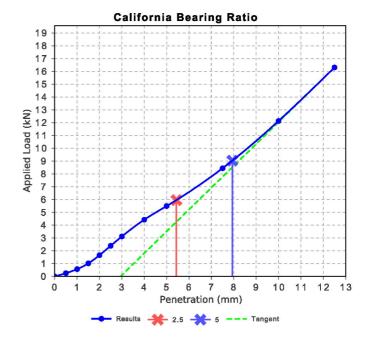
Email: chrism@groundscience.com.au

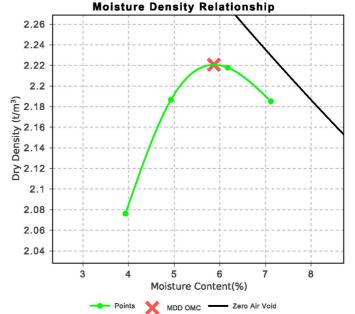
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Approved Signatory: Chris Mamalis

Laboratory Manager

NATA Accredited Laboratory Number: 20109









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Job Information

Client	SMEC AUSTRALIA PTY LTD (DOCKL	ANDS, VIC)	Job No	GSSW1879
Project	GEOTECHNICAL INVESTIGATION EC	GSC COMPOST FACILITY	Site No	SD01 – Westbound Shoulder
Location	FORGE CREEK		Date Sampled	15/06/2023
GPS Coordinates	-37.878930°, 147.620995°	Offset – 0.8m South of Edge Line	Sampled By	MK & GD

Site Information

Sito IIII Olili Gilloli			
Topography	In General – Undulating	Trees	Shrubs, Small to Large
	Locally – Dip	Site Code	SH
Drainage	In General – Fair	Drainage Type	RHS: Spoon Drain
	Locally – Fair, Vegetation	G 5.	LHS: Spoon Drain
Surface Condition	In General – Fair, Transverse Shape – Fair, Longitudinal Shape – Fair	Width of Seal	5.3m
	Faults – Rutting <10mm, Slick/Flushing & Edge Drop Off	Formation Width	7.3m

Field Pavement Profile Logs

Layer (mm)		Layer Description	Lab Reference No.	NMC (%)	Depth (mm)
From	То	Lager Description	Lao Reference No.	INIVIC (70)	Depth (IIIII)
0	100	TOPSOIL: gravelly, sandy, silty CLAY, brown, low plasticity, sand fine to coarse grained, gravel sub angular to sub rounded fine, soft to firm, moist, organics.	-	-	-
100	800	FILL: GM-GC - sandy, silty/clayey GRAVEL (River Gravel), orange mottled white, sub angular to rounded fine to coarse, low plasticity, sand 34% fine to coarse grained, dense, dry.	1879-S3 1879-S31,1798-S32	5.2, 5.7	200, 780
800	-	REFUSAL.	-	-	-

Laboratory Test Results

Lab Ref. No.	Soil Class	75mm	37.5mm	19mm	9.5mm	4.75mm	2.36mm	425µm	75µm	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Soaked CBR (%)	Swell (%)
1897-S3	GM-GC	100	96	80	65	54	48	27	14	20	14	6	30	0.0

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DYNAMIC CONE PENETROMETER - AS1289 6.3.2

A C N 612 825 313

10 Dowsett Street, South Geelong, VIC 3220

Clients SMEC AUSTRALIA PTY LTD (DOCKLANDS, VIC)

Project: GEOTECHNICAL INVESTIGATION EGSC COMPOST FACILITY

Locations FORGE CREEK

Test Number: -Test Location: SD01

Datum: 800

Job No: GSSW1879

Report No: GSSW1879-1

Date Tested: 15/05/2023

Tested By: MK & GD

Dynamic Cone Penetrometer (DCP) Profile

No. of Blows

0

F) Hook

800 - 900

REFUSAL

Notes: Immediate Refusal on GRAVEL



NATA Accredited Laboratory No. 20109
Accredited for compliance with ISO/IEC 17025 - Testing

Chris Mamalis
Approved Signatory
Date 30-Jun-23

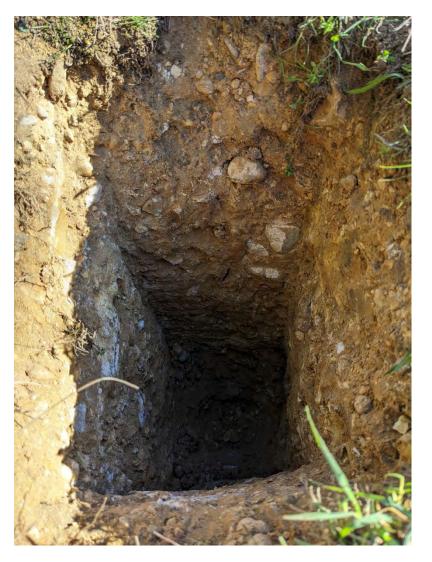


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Material Test Report

GSSW1879-1 **Report Number:**

Issue Number:

Date Issued: 21/06/2023

Client: SMEC AUSTRALIA PTY LTD

4/727 Collins St, Docklands Victoria 3008 GSSW1879 **Project Number:**

Project Name: GEOTECHNICAL INVESTIGATION EGSC COMPOST FACILITY

Project Location: FORGE CREEK

Work Request: 15787 Sample Number: 1879-S3 Date Sampled: 15/05/2023

Dates Tested: 24/05/2023 - 08/06/2023

AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted Sampling Method:

Material classified as per AS 1726:2017 Remarks:

Sample Location: SD01, Depth: 0.1m - 0.8m

FILL: GM-GC - sandy, silty/clayey GRAVEL (River Gravel), orange mottled white, sub angular to rounded fine to coarse, low plasticity, sand 34% fine to coarse grained, dense, dry. Material:

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Phone: (03) 5282 1566

Email: chrism@groundscience.com.au Accredited for compliance with ISO/IEC 17025 - Testing

NATA

Approved Signatory: Chris Mamalis Laboratory Manager

NATA Accredited Laboratory Number: 20109

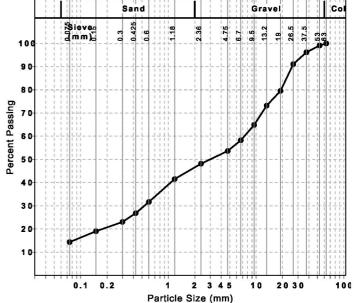
	Carra	0170111101000	aroo gramou, aone	, u. y.		
Particle Size	Distribution (A	S1141.11.1)			_	_
Sample Washing		_				
Sieve	Passed %	Passing	Retained %	Retained	106	1

Washing				
Sieve	Passed %	Passing Limits	Retained %	Retained Limits
63 mm	100		0	
53 mm	99		1	
37.5 mm	96		3	
26.5 mm	91		5	
19 mm	80		12	
13.2 mm	73		6	
9.5 mm	65		8	
6.7 mm	58		7	
4.75 mm	54		5	
2.36 mm	48		6	
1.18 mm	42		7	
0.6 mm	32		10	
0.425 mm	27		5	
0.3 mm	23		4	
0.15 mm	19		4	
0.075 mm	14		5	

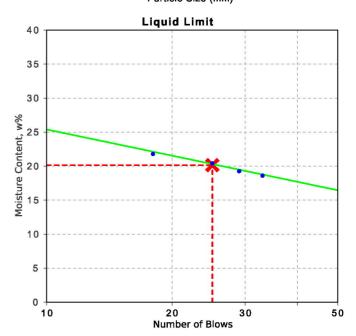
Atterberg Limit (AS1289 3.1.1 & 3.2	Min	Max	
Sample History	Oven Dried		
Preparation Method	Dry Sieve		
Liquid Limit (%)	20		
Plastic Limit (%)	14		
Plasticity Index (%)	6		

Linear Shrinkage (AS1289 3.4.1)		Min	Max
Moisture Condition Determined By	AS 1289.3.1.1		
Linear Shrinkage (%)	3.0		
Cracking Crumbling Curling	Cracking		

Report Number: GSSW1879-1



Particle Size Distribution



Material Test Report

GSSW1879-1 **Report Number:**

Issue Number:

Date Issued: 21/06/2023

Client: SMEC AUSTRALIA PTY LTD

4/727 Collins St, Docklands Victoria 3008

Project Number: GSSW1879

Project Name: GEOTECHNICAL INVESTIGATION EGSC COMPOST FACILITY

Project Location: FORGE CREEK

Work Request: 15787 Sample Number: 1879-S3 Date Sampled: 15/05/2023

Dates Tested: 24/05/2023 - 09/06/2023

AS 1289.1.2.1 6.4 (b) - Sampling from layers in earthworks or pavement - compacted Sampling Method:

Remarks: Material classified as per AS 1726:2017

Sample Location: SD01, Depth: 0.1m - 0.8m

FILL: GM-GC - sandy, silty/clayey GRAVEL (River Gravel), orange mottled white, sub angular to rounded fine to coarse, low plasticity, sand 34% fine to coarse grained, dense, dry. Material:

California Bearing Ratio (AS 1289 6.1.1 & :	2.1.1)	Min	Max				
CBR taken at	5 mm						
CBR %	30						
Method of Compactive Effort	Mod	lified					
Method used to Determine MDD	AS 1289 5	.2.1 & 2	2.1.1				
Method used to Determine Plasticity	Visual As	sessm	ent				
Maximum Dry Density (t/m ³)	2.19						
Optimum Moisture Content (%)	6.5						
Laboratory Density Ratio (%)	98.0						
Laboratory Moisture Ratio (%)	103.0						
Dry Density after Soaking (t/m³)	2.14						
Field Moisture Content (%)							
Moisture Content at Placement (%)	6.6						
Moisture Content Top 30mm (%)	7.2						
Moisture Content Rest of Sample (%)	6.9						
Mass Surcharge (kg)	4.5						
Soaking Period (days)	4						
Curing Hours	152.4						
Swell (%)	0.0						
Oversize Material (mm)	19						
Oversize Material Included	Excluded						
Oversize Material (%)	19.5						
Sample remoulded as per Vic Roads Code of Practice RC 500.16							

Dry Density - Moisture Relationship (AS 1289 5.2	Min	Max	
Mould Type	1 LITRE MOULD A		
Compaction	Modified		
Maximum Dry Density (t/m ³)	2.19		
Optimum Moisture Content (%)	6.5		
Oversize Sieve (mm)	19.0		
Oversize Material Wet (%)	20		
Method used to Determine Plasticity	Visual As	sessme	nt
Curing Hours (h)	94.7		

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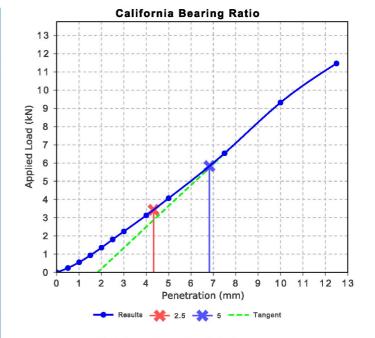
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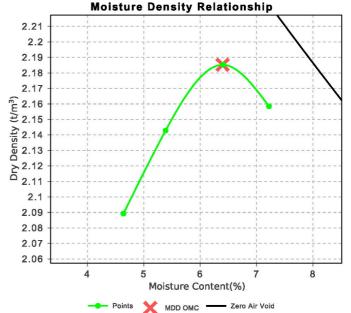
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NATA

Approved Signatory: Chris Mamalis Laboratory Manager

NATA Accredited Laboratory Number: 20109









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Job Information

Client	SMEC AUSTRALIA PTY LTD (DOCK	LANDS, VIC)	Job No	GSSW1879
Project	GEOTECHNICAL INVESTIGATION E	EGSC COMPOST FACILITY	Site No	SD02 – Westbound Shoulder
Location	FORGE CREEK		Date Sampled	15/06/2023
GPS Coordinates	-37.878729°, 147.619590°	Offset – 1.4m South of Edge Line	Sampled By	MK & GD

Site Information

Topography	In General – Undulating	Trees	Shrubs, Small to Large
	Locally – Steep Slope	Site Code	SH
Drainage	In General – Fair	Drainage Type	RHS: Spoon Drain
	Locally – Fair, Vegetation	.	LHS: Spoon Drain
Surface Condition	In General – Fair, Transverse Shape – Fair, Longitudinal Shape – Fair	Width of Seal	5.3m
	Faults – Rutting <10mm, Slick/Flushing & Edge Drop Off	Formation Width	7.3m

Field Pavement Profile Logs

Laye	r (mm)	Layer Description	Lab Reference No.	NMC (%)	Depth (mm)	
From	То	Lager Description	Lao Reference No.	INIVIC (70)	Deptii (iiiii)	
0	100	TOPSOIL: gravelly, sandy, silty CLAY, brown, low plasticity, sand fine to coarse grained, gravel sub angular to sub rounded fine, soft to firm, moist, organics.	-	1	-	
100	200	sandy, silty/clayey GRAVEL (River Gravel), orange mottled white, sub angular to rounded fine to coarse, low plasticity, sand fine to coarse grained, dense, dry.	1879-S35	7.3	150	
200	1000	CLAY, trace sand & gravel, orange mottled brown, high plasticity, sand fine grained, gravel fine, stiff to very stiff, dry to moist (inferred alluvial deposits).	1879-S36	17.2	900	
1000	-	TERMINATED.	-	-	-	

Laboratory Test Results

Lab Ref. No.	Soil Class	75mm	37.5mm	19mm	9.5mm	4.75mm	2.36mm	425µm	75µm	Liquid Limit (%)	Plastic Limit (%)	Plasticity Index (%)	Soaked CBR (%)	Swell (%)
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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DYNAMIC CONE PENETROMETER - AS1289 6.3.2

A C N 612 825 313

10 Dowsett Street, South Geelong, VIC 3220

Clients SMEC AUSTRALIA PTY LTD (DOCKLANDS, VIC)

Project: GEOTECHNICAL INVESTIGATION EGSC COMPOST FACILITY

Locations FORGE CREEK

Test Number: Test Location: SD02
Datum: 250

Job No: GSSW1879
Report No: GSSW1879-1
Date Tested: 15/05/2023
Tested By: MK & GD

Dynamic Cone Penetrometer (DCP) Profile No. of Blows 2 12 6 10 14 16 18 20 250 - 350 350 - 450 450 - 550 550 - 650 650 - 750 750 - 850 850 - 950 950 - 1050 1050 - 1150 1150 - 1250 1250 - 1350 1350 - 1450 1450 - 1550



Notes:

NATA Accredited Laboratory No. 20109
Accredited for compliance with ISO/IEC 17025 - Testing

Chris Mamalis
Approved Signatory
Date 30-Jun-23



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Ground Science

Latitude : -37.879078

Longitude : 147.619412

Ground Science South West

10 Dowsett St, South Geelong, Victoria 3220

Phone: (03) 5282 1566

 Excavator
 : Yanmar VIO17
 Job Number
 : GSSW1879

 Excavator Supplier : Ground Science South West
 Client
 : SMEC AUSTRALIA PTY LTD

 Logged By
 : MK
 Project
 : EGSC COMPOST FACILITY

Elevation	n Not S pth: 1.5m	urveyed		Reviewed By : Location : FORGE CREEK Date : 16/05/2023 Loc Comment :			
10tal De	pui . 1.9M			Date . 10/09/2023 LOC COMMENT:			Samples
DCP graph	Depth (m)	Graphic Log	Classification Code	Material	Consistency	Moisture	Bulk Sample
2			CL	TOPSOIL: gravelly, sandy, silty CLAY, brown, low plasticity, sand fine to coarse grained, gravel sub angular to sub rounded fine, soft to firm, moist, organics.	S-F	М	
2	0. <u>3</u>						
3	- 0. <u>3</u>		СН	CLAY, trace sand & gravel, orange mottled brown, high plasticity, sand 8% fine grained, gravel 1%, stiff to very stiff, moist (inferred alluvial deposits).	St-VSt	М	
5	- 0.5						
5	_						
5	_						
6							
6	- 1						
12	1. <u>25</u>						
15	_		CI	CLAY, trace sand, orange mottled grey, medium plasticity, sand fine to medium grained, very stiff to hard, moist (inferred alluvial deposits).	VSt-H	М	1879-S4
20 R	- 1.5			TD04 Townsin shoul at 4 Fee			
	<u> </u>			TP01 Terminated at 1.5m			
	_						
	-						
	- 2						
	_						
	_						
	-						
	- 2.5 -						
	-						
	_						

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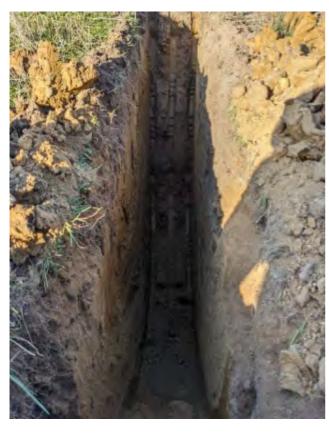








Photo description	Test Pit Photos					
Client	SMEC AUSTRALIA PTY LTD					
Location	FORGE CREEK					
Project name	EGSC COMPOST FACILITY					
Project No	GSSW1879 Scale Not to Sc					
TP No	TP01	TP Depth	Not Applicable			

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Material Test Report

GSSW1879-1 **Report Number:**

Issue Number:

Date Issued: 21/06/2023

Client: SMEC AUSTRALIA PTY LTD

4/727 Collins St, Docklands Victoria 3008

Project Number: GSSW1879 **Project Name:** GEOTECHNICAL INVESTIGATION EGSC COMPOST FACILITY

Project Location: FORGE CREEK

Work Request: 15787 Sample Number: 1879-S4 Date Sampled: 16/05/2023

Dates Tested: 24/05/2023 - 13/06/2023

Sampling Method: AS 1289.1.2.1 6.5.4 - Machine excavated pit or trench

Remarks: Material classified as per AS 1726:2017

TP01, Depth: 0.3m - 1.25m Sample Location:

Material:

CH - CLAY, trace sand & gravel, orange mottled brown, high plasticity, sand 8% fine grained, gravel 1%, stiff to very stiff, moist (inferred alluvial deposits).



Phone: (03) 5282 1566

Email: chrism@groundscience.com.au Accredited for compliance with ISO/IEC 17025 - Testing

10 Dowsett Street South Geelong Vic 3220

Ground Science South West Pty Ltd

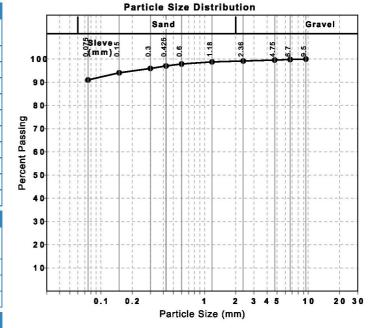
Approved Signatory: Chris Mamalis Laboratory Manager

NATA Accredited Laboratory Number: 20109

Particle Size	Particle Size Distribution (AS1289 3.6.1)					
Sieve	Passed %	Passir Limits	ıg	Retained %	Retain Limits	ed
9.5 mm	100			0		
6.7 mm	100			0		
4.75 mm	100			0		
2.36 mm	99			0		
1.18 mm	99			0		
0.6 mm	98			1		
0.425 mm	97			1		
0.3 mm	96			1		
0.15 mm	94			2		
0.075 mm	91			3		

Atterberg Limit (AS1289 3.1.2 & 3.2	Min	Max	
Sample History	Oven Dried		
Preparation Method	Dry Sieve		
Liquid Limit (%)	66		
Plastic Limit (%)	24		
Plasticity Index (%)	42		

Linear Shrinkage (AS1289 3.4.1)		Min	Max
Moisture Condition Determined By	AS 1289.3.1.1		
Linear Shrinkage (%)	14.0		
Cracking Crumbling Curling	Cracking & C	urling	



Material Test Report

GSSW1879-1 **Report Number:**

Issue Number:

Date Issued: 21/06/2023

Client: SMEC AUSTRALIA PTY LTD

4/727 Collins St, Docklands Victoria 3008

GSSW1879 **Project Number:** GEOTECHNICAL INVESTIGATION EGSC COMPOST FACILITY **Project Name:**

Project Location: FORGE CREEK

Work Request: 15787 1879-S4 Sample Number: 16/05/2023 Date Sampled:

Dates Tested: 24/05/2023 - 19/06/2023

Sampling Method: AS 1289.1.2.1 6.5.4 - Machine excavated pit or trench

Material classified as per AS 1726:2017 Remarks:

TP01, Depth: 0.3m - 1.25m Sample Location:

Material:

CH - CLAY, trace sand & gravel, orange mottled brown, high plasticity, sand 8% fine grained, gravel 1%, stiff to very stiff, moist (inferred alluvial deposits).

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Email: chrism@groundscience.com.au Accredited for compliance with ISO/IEC 17025 - Testing

NATA

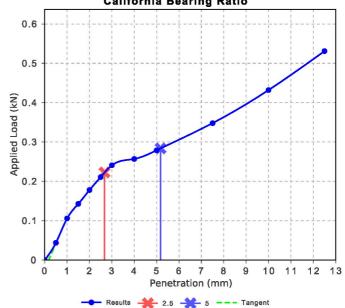
Approved Signatory: Chris Mamalis Laboratory Manager lumber: 20109

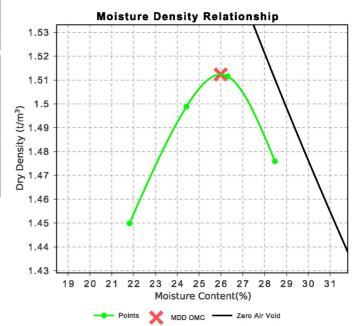
NATA Acc	credited Lab	oratory Nu
California	Bearing	Ratio

California Bearing Ratio (AS 1289 6.1.1 &	Min	Max	
CBR taken at	2.5 mm		
CBR %	1.5		
Method of Compactive Effort	Stan	dard	
Method used to Determine MDD	AS 1289 5	.1.1 & :	2.1.1
Method used to Determine Plasticity	Visual As	sessm	ent
Maximum Dry Density (t/m³)	1.51		
Optimum Moisture Content (%)	26.0		
Laboratory Density Ratio (%)	98.5		
Laboratory Moisture Ratio (%)	101.5		
Dry Density after Soaking (t/m ³)	1.45		
Field Moisture Content (%)			
Moisture Content at Placement (%)	26.4		
Moisture Content Top 30mm (%)	33.8		
Moisture Content Rest of Sample (%)	26.5		
Mass Surcharge (kg)	4.5		
Soaking Period (days)	4		
Curing Hours	381.8		
Swell (%)	3.0		
Oversize Material (mm)	19		
Oversize Material Included	Excluded		
Oversize Material (%)	0.0		
Sample remoulded as per Vic Roads Code	of Practice R	C 500.	16

Dry Density - Moisture Relationship (AS 1289 5.	Min	Max	
Mould Type	1 LITRE MOULD A		
Compaction	Standard		
Maximum Dry Density (t/m ³)	1.51		
Optimum Moisture Content (%)	26.0		
Oversize Sieve (mm)	19.0		
Oversize Material Wet (%)	0		
Method used to Determine Plasticity	Visual As	sessme	nt
Curing Hours (h)	197.2		

Report Number: GSSW1879-1





Latitude : -37.879798

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Ground Science South West

10 Dowsett St, South Geelong, Victoria 3220

: Yanmar VIO17

Phone: (03) 5282 1566

Excavator Supplier : Ground Science South West

Excavator

Job Number : GSSW1879 Client : SMEC AUSTRALIA PTY LTD

	le : 147.			Logged By : MK	Project	: EGSC COMPOST FACILITY			
Elevation	n Not S pth : 1.8m	urveyed		Reviewed By : Date : 16/05/2023	Location Loc Comme	: FORGE CREEK			
Total De	Jui . 1.0iii			. 10/03/2023	Loc Comme				Samples
DCP graph	Depth (m)	Graphic Log	Classification Code		Material Description		Consistency	Moisture	Bulk Sample
1			CL	TOPSOIL: gravelly, sandy, silty CLAY, brown, low plastic to firm	city, sand fine to coarse grained, gravel in, dry to moist, organics.	sub angular to sub rounded fine, soft	S-F	D-M	
2	- 0. <u>25</u>								
2	-		СН	CLAY, trace sand & gravel, orange mottled brown, high (infe	plasticity, sand fine to medium grained arred alluvial deposits).	, gravel fine, stiff to very stiff, moist	St-VSt	М	
4 5	- 0.5								
4	-								
4	_								
5	_								
6	- 1								
8	1. <u>15</u>		CL	CLAY, trace sand, orange mottled grey, low plasticity, s	sand 10% fine to medium grained, very	stiff to hard, moist (inferred alluvial	VSt-H	М	
10	_				deposits).				
19	-								
	- 1.5 -								
	-								
				TD	02 refusal at 1.8m				1879-S5
	- 2 								
	_								

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(03) 5282 1566



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admin@groundscience.com.au

Photo description	Test Pit Photos				
Client	SMEC AUSTRALIA PTY LTD				
Location	FORGE CREEK				
Project name	EGSC CO	MPOST FACIL	ITY		
Project No	GSSW1879 Scale Not to Sca				
TP No	TP02	TP Depth	Not Applicable		

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Material Test Report

GSSW1879-1 **Report Number:**

Issue Number:

Date Issued: 21/06/2023

Client: SMEC AUSTRALIA PTY LTD

4/727 Collins St, Docklands Victoria 3008 GSSW1879 **Project Number:**

Project Name: GEOTECHNICAL INVESTIGATION EGSC COMPOST FACILITY

Project Location: FORGE CREEK

Work Request: 15787 Sample Number: 1879-S5 Date Sampled: 16/05/2023

Dates Tested: 24/05/2023 - 08/06/2023

Sampling Method: AS 1289.1.2.1 6.5.4 - Machine excavated pit or trench

Remarks: Material classified as per AS 1726:2017

Sample Location: TP02, Depth: 1.15m - 1.8m

Material:

CL - CLAY, trace sand, orange mottled grey, low plasticity, sand 10% fine to medium grained, very stiff to hard, moist (inferred alluvial

deposits).

1	Accredited for compli	ance with ISO/IEC 17025 - Testing
NATA		
V	Approved Signatory:	Chris Mamalis
Vice for the Property Land of	Approved digitatory.	Office Marrians
ACCREDITATION		Laboratory Manager

Ground Science South West Pty Ltd

Email: chrism@groundscience.com.au

Phone: (03) 5282 1566

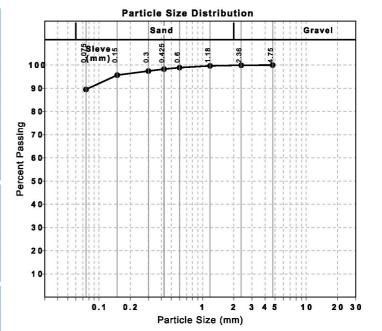
10 Dowsett Street South Geelong Vic 3220

NATA Accredited Laboratory Number: 20109

Particle Size	Particle Size Distribution (AS1289 3.6.1)					
Sieve	Passed %	Passing I Limits		Passing Retained % Retai		ed
4.75 mm	100			0		
2.36 mm	100			0		
1.18 mm	100			0		
0.6 mm	99			1		
0.425 mm	98			1		
0.3 mm	97			1		
0.15 mm	96			2		
0.075 mm	90			6		

Atterberg Limit (AS1289 3.1.2 & 3.2	Min	Max	
Sample History	History Oven Dried		
Preparation Method	Dry Sieve		
Liquid Limit (%)	33		
Plastic Limit (%)	17		
Plasticity Index (%)	16		

Linear Shrinkage (AS1289 3.4.1)		Min	Max
Moisture Condition Determined By	AS 1289.3.1.2		
Linear Shrinkage (%)	6.0		
Cracking Crumbling Curling	Cracking		



Latitude : -37.879415

Ground Science

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Ground Science South West

10 Dowsett St, South Geelong, Victoria 3220

Phone: (03) 5282 1566

Excavator : Yanmar VIO17 Job Number : GSSW1879

Excavator Supplier : Ground Science South West Client : SMEC AUSTRALIA PTY LTD

Logged By : MK Project : EGSC COMPOST FACILITY

Longitud				Logged By	: MK		Project	: EGSC COMPOST FACILITY			
Elevation Total Dep				Reviewed By Date	: : 16/05/2023		Location Loc Commen	: FORGE CREEK t :			
											Samples
DCP graph	Depth (m)	Graphic Log	Classification Code			Material Description			Consistency	Moisture	Bulk Sample
2	_		CL	TOPSOIL: gravelly, sa	andy, silty CLAY, brown, low	plasticity, sand fine to coars moist, organics.	se grained, gravel su	b angular to sub rounded fine, firm,	F	М	
2	-										
2	0.3	////	СН	CLAY, trace sand &	gravel, orange mottled brow	vn, high plasticity, sand fine t	o medium grained, g	gravel fine, stiff to very stiff, dry to	St-VSt	D-M	
2	-					moist (interred alluvial depo	sits).				
2	- 0.5										
3	-										
3	-										
4	-										
10	1. <u>1</u>		CL	CLAV with cond t	trace gravel erange mettled	brown low placticity, and 1	0% fine to modium o	urning group 10% bard day to	н	D-M	
13	-		CL	CLAY, With sand, t	trace gravel, orange mottled	moist (inferred alluvial depos	9% fine to mealum g sits).	grained, gravel 1%, hard, dry to	Н	D-IVI	
16	-										
19	- - 1.5										
	-				•	TP03 Terminated at 1	.5m				1879-S6
	-										
	-										
	- 2										
	-										
	-										
	-										
	- 2.5										
	-										
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	-										
	2										

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(03) 5282 1566



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admin@groundscience.com.au

Photo description	Test Pit Photos					
Client	SMEC AUSTRALIA PTY LTD					
Location	FORGE CREEK					
Project name	EGSC COMPOST FACILITY					
Project No	GSSW1879	Scale	Not to Scale			
TP No	TP03	TP Depth	Not Applicable			

Material Test Report

Report Number: GSSW1879-1

Issue Number:

Date Issued: 21/06/2023

Client: SMEC AUSTRALIA PTY LTD

4/727 Collins St, Docklands Victoria 3008

Project Number: GSSW1879

Project Name: GEOTECHNICAL INVESTIGATION EGSC COMPOST FACILITY

Project Location: FORGE CREEK

 Work Request:
 15787

 Sample Number:
 1879-S6

 Date Sampled:
 16/05/2023

Dates Tested: 24/05/2023 - 08/06/2023

Sampling Method: AS 1289.1.2.1 6.5.4 - Machine excavated pit or trench

Material classified as per AS 1726:2017

Remarks: Material classified as per AS 1726:2017

TP03, Depth: 1.1m - 1.5m

Sample Location: TP03, Depth: 1.1m - 1.5m

CL - CLAY, with sand, trace gravel, orange mottled brown, low

plasticity, sand 19% fine to medium grained, gravel 1%, hard, dry to

moist (inferred alluvial deposits).

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Ground Science South West Pty Ltd 10 Dowsett Street South Geelong Vic 3220

Phone: (03) 5282 1566

Email: chrism@groundscience.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Chris Mamalis

Laboratory Manager

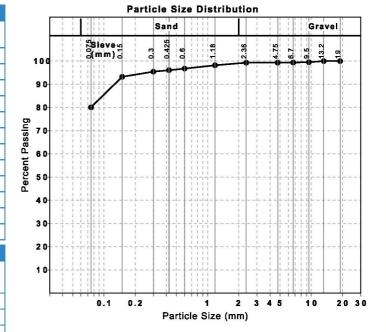
Laboratory Mariager

NATA Accredited Laboratory Number: 20109

Particle Size Distribution (AS1289 3.6.1)							
Sieve	Passed %	Passin Limits	g	Retained %	Retain Limits	ed	
19 mm	100			0			
13.2 mm	100			0			
9.5 mm	100			0			
6.7 mm	99			0			
4.75 mm	99			0			
2.36 mm	99			0			
1.18 mm	98			1			
0.6 mm	97			1			
0.425 mm	96			1			
0.3 mm	95			1			
0.15 mm	93			2			
0.075 mm	80			13			

Atterberg Limit (AS1289 3.1.2 & 3.2	Min	Max	
Sample History	Oven Dried		
Preparation Method	Dry Sieve		
Liquid Limit (%)	31		
Plastic Limit (%)	17		
Plasticity Index (%)	14		

Linear Shrinkage (AS1289 3.4.1)		Min	Max
Moisture Condition Determined By	AS 1289.3.1.2		
Linear Shrinkage (%)	5.5		
Cracking Crumbling Curling	Cracking		



Material Test Report

GSSW1879-1 **Report Number:**

Issue Number:

21/06/2023 Date Issued:

SMEC AUSTRALIA PTY LTD Client:

4/727 Collins St, Docklands Victoria 3008

GSSW1879 **Project Number:**

GEOTECHNICAL INVESTIGATION EGSC COMPOST FACILITY **Project Name:**

FORGE CREEK **Project Location:**

15787 Work Request: 1879-S6 Sample Number: 16/05/2023 Date Sampled:

24/05/2023 - 19/06/2023 **Dates Tested:**

AS 1289.1.2.1 6.5.4 - Machine excavated pit or trench Sampling Method:

Material classified as per AS 1726:2017 Remarks:

TP03, Depth: 1.1m - 1.5m Sample Location:

CL - CLAY, with sand, trace gravel, orange mottled brown, low Material:

plasticity, sand 19% fine to medium grained, gravel 1%, hard, dry to

0.0

moist (inferred alluvial deposits).

California Bearing Ratio (AS 1289 6.1.1 &	2.1.1)	Min	Max
CBR taken at	5 mm		
CBR %	5		
Method of Compactive Effort	Stan	dard	
Method used to Determine MDD	AS 1289 5	1.1 &	2.1.1
Method used to Determine Plasticity	Visual As	sessm	ent
Maximum Dry Density (t/m ³)	1.71		
Optimum Moisture Content (%)	18.0		
Laboratory Density Ratio (%)	98.0		
Laboratory Moisture Ratio (%)	101.5		
Dry Density after Soaking (t/m³)	1.67		
Field Moisture Content (%)			
Moisture Content at Placement (%)	18.2		
Moisture Content Top 30mm (%)	21.8		
Moisture Content Rest of Sample (%)	18.5		
Mass Surcharge (kg)	4.5		
Soaking Period (days)	4		
Curing Hours	380.6		
Swell (%)	0.5		
Oversize Material (mm)	19		
Oversize Material Included	Excluded		
		1	

Dry Density - Moisture Relationship (AS 1289 5.	Min	Max	
Mould Type	1 LITRE MOULD A		
Compaction	Standard		
Maximum Dry Density (t/m ³)	1.71		
Optimum Moisture Content (%)	18.0		
Oversize Sieve (mm)	19.0		
Oversize Material Wet (%)	0		
Method used to Determine Plasticity	Visual Assessment		
Curing Hours (h)	260.2		

Sample remoulded as per Vic Roads Code of Practice RC 500.16

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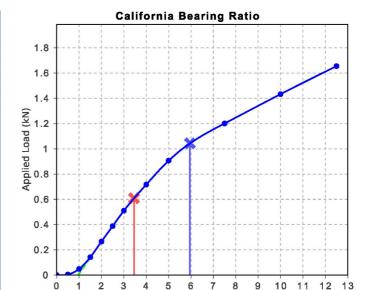
> Ground Science South West Pty Ltd 10 Dowsett Street South Geelong Vic 3220

> > Phone: (03) 5282 1566

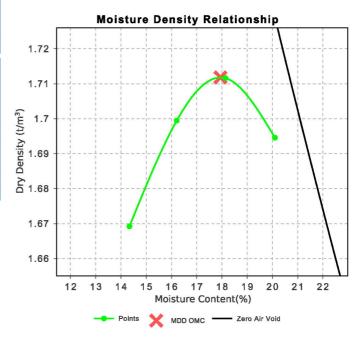
Email: chrism@groundscience.com.au

Accredited for compliance with ISO/IEC 17025 - Testing NATA

Approved Signatory: Chris Mamalis Laboratory Manager NATA Accredited Laboratory Number: 20109



Penetration (mm) - Results 🌟 2.5 🜟 5 --- Tangent



Oversize Material (%)

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Ground Science

: -37.879784

Longitude : 147.620746

Latitude

Ground Science South West

10 Dowsett St, South Geelong, Victoria 3220

Phone: (03) 5282 1566

Excavator : Yanmar VIO17 Job Number : GSSW1879

Excavator Supplier : Ground Science South West Client : SMEC AUSTRALIA PTY LTD

Logged By : MK Project : EGSC COMPOST FACILITY

	n Not S oth : 1.9m			Reviewed By : Location : FORGE CREEK Date : 16/05/2023 Loc Comment :			
							Samples
DCP graph	Depth (m)	Graphic Log	Classification Code	Material Description	Consistency	Moisture	Bulk Sample
2	-		CL	TOPSOIL: gravelly, sandy, silty CLAY, brown, low plasticity, sand fine to coarse grained, gravel sub angular to sub rounded fine, firm, moist, organics.	F	М	
2	0.3						
12	-		СН	CLAY, trace sand & gravel, orange mottled brown, high plasticity, sand fine to medium grained, gravel fine, stiff to very stiff, moist (inferred alluvial deposits).	VSt-H	D	
9	- 0.5 -						
9	- 0.8						
6	- <u></u>		CI	CLAY, with sand, orange mottled grey, medium plasticity, sand 19% fine to medium grained, stiff to very stiff, dry to moist (inferred alluvial deposits).	St-VSt	D-M	
7	- 1						
7 8 13	- 1. <u>2</u> 1.5		CI	CLAY, with sand, orange mottled grey, medium plasticity, sand 19% fine to medium grained, very stiff to hard, moist (inferred alluvial deposits).	VSt-H	М	
	- 2 - - - - 2.5 -			TP04 refusal at 1.9m			1879-S7

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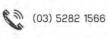












10 Dowsett St. South Geelong, Victoria 3220



Photo description	Test Pit Photos				
Client	SMEC AUSTRALIA PTY LTD				
Location	FORGE CREEK				
Project name	EGSC COMPOST FACILITY				
Project No	GSSW1879	Scale	Not to Scale		
TP No	TP04	TP Depth	Not Applicable		

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Material Test Report

Report Number: GSSW1879-1

Issue Number:

Date Issued: 21/06/2023

Client: SMEC AUSTRALIA PTY LTD

4/727 Collins St, Docklands Victoria 3008

Project Number: GSSW1879

Project Name: GEOTECHNICAL INVESTIGATION EGSC COMPOST FACILITY

Project Location: FORGE CREEK

Work Request: 15787
Sample Number: 1879-S7
Date Sampled: 16/05/2023

0.15 mm

0.075 mm

Dates Tested: 24/05/2023 - 07/06/2023

Sampling Method: AS 1289.1.2.1 6.5.4 - Machine excavated pit or trench

Remarks: Material classified as per AS 1726:2017

Sample Location: TP04, Depth: 1.2m - 1.9m

89

81

Report Number: GSSW1879-1

Material: CI - CLAY, with sand, orange mottled grey, medium plasticity, sand

19% fine to medium grained, very stiff to hard, moist (inferred

4

alluvial deposits).

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WARI D DECACNISED	1	V	
	WOF	LD REG	OGNISED

Ground Science South West Pty Ltd 10 Dowsett Street South Geelong Vic 3220

Phone: (03) 5282 1566

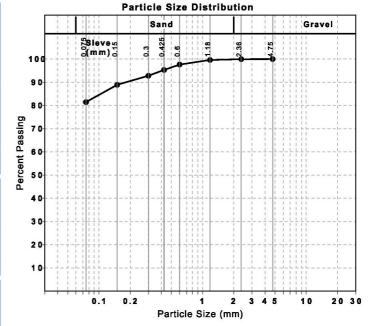
Email: chrism@groundscience.com.au

Accredited for compliance with ISO/IEC 17025 - Testing

Particle Size Distribution (AS1289 3.6.1)							
Sieve	Passed %	Passing Limits		Retained %	Retain Limits	ed	
4.75 mm	100			0			
2.36 mm	100			0			
1.18 mm	100			0			
0.6 mm	98			2			
0.425 mm	95			2			
0.3 mm	93			3			

Atterberg Limit (AS1289 3.1.2 & 3.2	2.1 & 3.3.1)	Min	Max
Sample History	Oven Dried		
Preparation Method	Dry Sieve		
Liquid Limit (%)	41		
Plastic Limit (%)	15		
Plasticity Index (%)	26		

Linear Shrinkage (AS1289 3.4.1)		Min	Max
Moisture Condition Determined By	AS 1289.3.1.2		
Linear Shrinkage (%)	8.5		
Cracking Crumbling Curling	Curling		



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Ground Science

Latitude : -37.880239

Longitude : 147.620563

Ground Science South West

10 Dowsett St, South Geelong, Victoria 3220

Phone: (03) 5282 1566

Excavator : Yanmar VIO17 Job Number : GSSW1879

Excavator Supplier : Ground Science South West Client : SMEC AUSTRALIA PTY LTD

Logged By : MK Project : EGSC COMPOST FACILITY

Elevation	Not St			Reviewed By : Location : FORGE CREEK			
Total Dept	n : 1.5m			Date : 16/05/2023			Samples
DCP graph	Depth (m)	Graphic Log	Classification Code	Material Description	Consistency	Moisture	Bulk Sample
2			CL	TOPSOIL: gravelly, sandy, silty CLAY, brown, low plasticity, sand fine to coarse grained, gravel sub angular to sub rounded fine, soft to firm, moist, organics.	S-F	М	
3	0. <u>3</u> 0.5		СН	CLAY, trace sand & gravel, orange mottled brown, high plasticity, sand fine to medium grained, gravel fine, stiff, moist (inferred alluvial deposits).	St	М	
6 6 6	0 <u>.55</u>		CI	sandy CLAY, orange mottled brown, medium plasticity, sand 36% fine to coarse grained, stiff, dry to moist (inferred alluvial deposits).	St	D-M	
9	1.2		CI	As above, orange grey, moist.	VSt-H	M	1879-S8
	2			TP05 Terminated at 1.5m			

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Photo description	Tes	t Pit Photos		
Client	SMEC AUSTRALIA PTY LTD			
Location	FORGE CREEK			
Project name	EGSC COMPOST FACILITY			
Project No	GSSW1879	Scale	Not to Scale	
TP No	TP05	TP Depth	Not Applicable	

Material Test Report

GSSW1879-1 **Report Number:**

Issue Number:

Date Issued: 21/06/2023

Client: SMEC AUSTRALIA PTY LTD

4/727 Collins St, Docklands Victoria 3008

GSSW1879 **Project Number:**

Project Name: GEOTECHNICAL INVESTIGATION EGSC COMPOST FACILITY

Project Location: FORGE CREEK

Work Request: 15787 Sample Number: 1879-S8 Date Sampled: 16/05/2023

Report Number: GSSW1879-1

Dates Tested: 24/05/2023 - 08/06/2023

Sampling Method: AS 1289.1.2.1 6.5.4 - Machine excavated pit or trench

Remarks: Material classified as per AS 1726:2017

TP05, Depth: 0.55m - 1.2m Sample Location:

CI - sandy CLAY, orange mottled brown, medium plasticity, sand 36% fine to coarse grained, stiff, dry to moist (inferred alluvial deposits). Material:

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Ground Science South West Pty Ltd 10 Dowsett Street South Geelong Vic 3220

Phone: (03) 5282 1566

Email: chrism@groundscience.com.au

Accredited for compliance with ISO/IEC 17025 - Testing NATA

Approved Signatory: Chris Mamalis

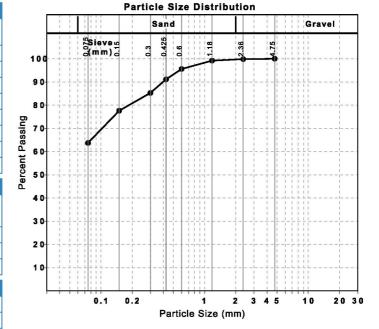
Laboratory Manager

NATA Accredited Laboratory Number: 20109

Particle Size Distribution (AS1289 3.6.1)								
Sieve	Passed %	Passing R Limits		Passing Limits		Retained %	Retain Limits	ed
4.75 mm	100			0				
2.36 mm	100			0				
1.18 mm	99			1				
0.6 mm	96			4				
0.425 mm	91			4				
0.3 mm	85			6				
0.15 mm	78			8				
0.075 mm	64			14				

Atterberg Limit (AS1289 3.1.2 & 3.2.1 & 3.3.1)			Max
Sample History	Oven Dried		
Preparation Method	Dry Sieve		
Liquid Limit (%)	36		
Plastic Limit (%)	14		
Plasticity Index (%)	22		

Linear Shrinkage (AS1289 3.4.1)		Min	Max
Moisture Condition Determined By	AS 1289.3.1.2		
Linear Shrinkage (%)	8.0		
Cracking Crumbling Curling	Cracking		



Material Test Report

GSSW1879-1 **Report Number:**

Issue Number:

Date Issued: 21/06/2023

Client: SMEC AUSTRALIA PTY LTD

4/727 Collins St, Docklands Victoria 3008

Project Number: GSSW1879

Project Name: GEOTECHNICAL INVESTIGATION EGSC COMPOST FACILITY

Project Location: FORGE CREEK

Work Request: 15787 Sample Number: 1879-S8 Date Sampled: 16/05/2023

Dates Tested: 24/05/2023 - 19/06/2023

Sampling Method: AS 1289.1.2.1 6.5.4 - Machine excavated pit or trench

Remarks: Material classified as per AS 1726:2017

TP05, Depth: 0.55m - 1.2m Sample Location:

CI - sandy CLAY, orange mottled brown, medium plasticity, sand 36% fine to coarse grained, stiff, dry to moist (inferred alluvial deposits). Material:

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Phone: (03) 5282 1566

Email: chrism@groundscience.com.au Accredited for compliance with ISO/IEC 17025 - Testing

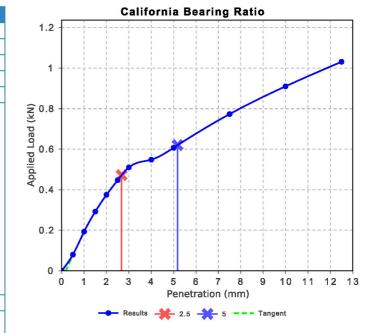
NATA

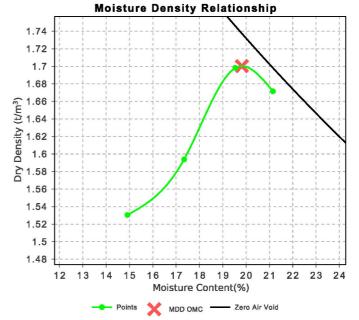
Approved Signatory: Chris Mamalis Laboratory Manager

NATA Accredited Laboratory Number: 20109

California Bearing Ratio (AS 1289 6.1.1 &	2.1.1)	Min	Max
CBR taken at	2.5 mm		
CBR %	3.5		
Method of Compactive Effort	Star	dard	
Method used to Determine MDD	AS 1289 5	.1.1 & 2	2.1.1
Method used to Determine Plasticity	Visual As	sessm	ent
Maximum Dry Density (t/m³)	1.70		
Optimum Moisture Content (%)	20.0		
Laboratory Density Ratio (%)	98.5		
Laboratory Moisture Ratio (%)	99.5		
Dry Density after Soaking (t/m ³)	1.65		
Field Moisture Content (%)			
Moisture Content at Placement (%)	19.7		
Moisture Content Top 30mm (%)	21.9		
Moisture Content Rest of Sample (%)	20.1		
Mass Surcharge (kg)	4.5		
Soaking Period (days)	4		
Curing Hours	380.0		
Swell (%)	1.0		
Oversize Material (mm)	19		
Oversize Material Included	Excluded		
Oversize Material (%)	0.0		
Sample remoulded as per Vic Roads Code	of Practice R	C 500.1	16

Dry Density - Moisture Relationship (AS 1289 5.	Min	Max	
Mould Type	1 LITRE MOULD A		
Compaction	Standard		
Maximum Dry Density (t/m ³)	1.70		
Optimum Moisture Content (%)	20.0		
Oversize Sieve (mm)	19.0		
Oversize Material Wet (%)	0		
Method used to Determine Plasticity	Visual Assessment		
Curing Hours (h)	238.2		





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Ground Science

Latitude : -37.880564

Longitude : 147.620106

Ground Science South West

10 Dowsett St, South Geelong, Victoria 3220

Phone: (03) 5282 1566

 Excavator
 : Yanmar VIO17
 Job Number
 : GSSW1879

 Excavator Supplier : Ground Science South West
 Client
 : SMEC AUSTRALIA PTY LTD

 Logged By
 : MK
 Project
 : EGSC COMPOST FACILITY

Elevation		urveyed		Reviewed By : Location : FORGE CREEK			
Total Dep	oth : 1.5m			Date : 16/05/2023 Loc Comment :			Samples
DCP graph	Depth (m)	Graphic Log	Classification Code	Material Description	Consistency	Moisture	
2	_		CL	TOPSOIL: gravelly, sandy, silty CLAY, brown, low plasticity, sand fine to coarse grained, gravel sub angular to sub rounded fine, soft to firm, moist, organics.	S-F	М	
2	-						
2	0. <u>3</u>		СН	CLAY, trace sand & gravel, orange mottled brown, high plasticity, sand fine to medium grained, gravel fine, firm to stiff, moist (inferred alluvial deposits).	F-St	М	
2	- 0.5						
3	-						
3	-						
3	-						
4	- 1						
11	_ 1.1_		CI	CLAY, trace sand, orange mottled grey, medium plasticity, sand fine to medium grained, very stiff to hard, moist (inferred alluvial deposits).	VSt-H	М	
10	-						
12	-						
	- 1.5	(//////		TP06 Terminated at 1.5m			
	-						
	-						
	-						
	- 2						
	-						
	-						
	- 2.5						
	-						
	-						
	-						

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(03) 5282 1566



10 Dowsett St. South Geelong, Victoria 3220



admin@groundscience.com.au

Photo description	Test Pit Photos				
Client	SMEC AUSTRALIA PTY LTD				
Location	FOR	RGE CREEK			
Project name	EGSC CO	MPOST FACIL	.ITY		
Project No	GSSW1879	Scale	Not to Scale		
TP No	TP06	TP Depth	Not Applicable		

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part of a plan**Fingineriegs-gadeTesteiP**lanning and Environment Act 1987 No habe cument must not be used for any purpose which may breach any copyright.

Ground Science

: -37.880660

Longitude : 147.620384

Latitude

Ground Science South West

10 Dowsett St, South Geelong, Victoria 3220

Phone: (03) 5282 1566

Excavator : Yanmar VIO17

Excavator Supplier : Ground Science South West

Logged By : MK

Client : SMEC AUSTRALIA PTY LTD
Project : EGSC COMPOST FACILITY

Job Number : GSSW1879

Longitude : 1 Elevation No			Logged By : MK Reviewed By :	Project Location	: EGSC COMPOST FACILITY : FORGE CREEK			
Total Depth : 1.			Date : 16/05/2023	Loc Comment	:			
DCP graph	Graphic Log	Classification Code	Material Description			Consistency	Moisture	Bulk Sample
1 2		CL	TOPSOIL: gravelly, sandy, silty CLAY, brown, low plasticity, sand fine to coarse to firm, moist, organics.	grained, gravel sub	angular to sub rounded fine, soft	S-F	М	
2 0.5 2 0.5 3 4 4 4 1		СН	CLAY, with sand, orange mottled brown, high plasticity, sand 23% fine to medium	n grained, firm to sti	ff, moist (inferred alluvial deposits).	F-St	М	
9 9		CI	CLAY, trace sand, orange mottled grey, medium plasticity, sand fine to medium	grained, very stiff,	moist (inferred alluvial deposits).	VSt	М	1879-S9
- 1.5			TP07 Terminated at 1.5	5m				
- 2.5								
-								

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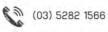














10 Dowsett St. South Geelong, Victoria 3220



admin@groundscience.com.au

Photo description	Test Pit Photos				
Client	SMEC AUSTRALIA PTY LTD				
Location	FOR	RGE CREEK			
Project name	EGSC CO	MPOST FACIL	.ITY		
Project No	GSSW1879	Scale	Not to Scale		
TP No	TP07	TP Depth	Not Applicable		

Material Test Report

GSSW1879-1 **Report Number:**

Issue Number:

Date Issued: 21/06/2023

Client: SMEC AUSTRALIA PTY LTD

4/727 Collins St, Docklands Victoria 3008 GSSW1879 **Project Number:**

Project Name: GEOTECHNICAL INVESTIGATION EGSC COMPOST FACILITY

Project Location: FORGE CREEK

Work Request: 15787 Sample Number: 1879-S9 Date Sampled: 16/05/2023

Report Number: GSSW1879-1

Dates Tested: 24/05/2023 - 08/06/2023

Sampling Method: AS 1289.1.2.1 6.5.4 - Machine excavated pit or trench

Remarks: Material classified as per AS 1726:2017

Sample Location: TP07, Depth: 0.4m - 1.1m

CH - CLAY, with sand, orange mottled brown, high plasticity, sand 23% fine to medium grained, firm to stiff, moist (inferred alluvial deposits). Material:

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> Ground Science South West Pty Ltd 10 Dowsett Street South Geelong Vic 3220

> > Phone: (03) 5282 1566

Email: chrism@groundscience.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Chris Mamalis

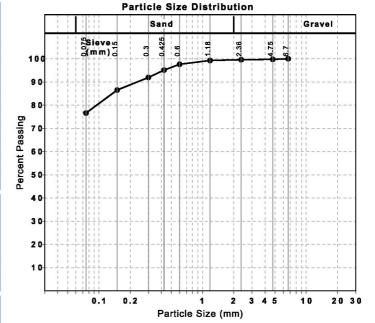
Laboratory Manager

NATA Accredited Laboratory Number: 20109

Particle Size I	Distribution (A	S1289 3	3.6.1)			
Sieve	Passed %	Passing Limits		Retained %	Retained Limits	
6.7 mm	100			0		
4.75 mm	100			0		
2.36 mm	100			0		
1.18 mm	99			0		
0.6 mm	98			2		
0.425 mm	95			3		
0.3 mm	92			3		
0.15 mm	87			5		
0.075 mm	77			10		

Atterberg Limit (AS1289 3.1.2 & 3.2	Min	Max	
Sample History Oven Dried			
Preparation Method	Dry Sieve		
Liquid Limit (%)	53		
Plastic Limit (%)	19		
Plasticity Index (%)	34		

Linear Shrinkage (AS1289 3.4.1)		Min	Max
Moisture Condition Determined By	AS 1289.3.1.2		
Linear Shrinkage (%)	10.0		
Cracking Crumbling Curling	Curling		



Material Test Report

GSSW1879-1 **Report Number:**

Issue Number:

Project Number:

Date Issued: 21/06/2023

Client: SMEC AUSTRALIA PTY LTD

GSSW1879

4/727 Collins St, Docklands Victoria 3008

Project Name: GEOTECHNICAL INVESTIGATION EGSC COMPOST FACILITY

Project Location: FORGE CREEK

15787 Work Request: Sample Number: 1879-S9 Date Sampled: 16/05/2023

Dates Tested: 24/05/2023 - 19/06/2023

Sampling Method: AS 1289.1.2.1 6.5.4 - Machine excavated pit or trench

Remarks: Material classified as per AS 1726:2017

Sample Location: TP07, Depth: 0.4m - 1.1m

CH - CLAY, with sand, orange mottled brown, high plasticity, sand 23% fine to medium grained, firm to stiff, moist (inferred alluvial deposits). Material:

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Ground Science South West Pty Ltd 10 Dowsett Street South Geelong Vic 3220

Email: chrism@groundscience.com.au

Phone: (03) 5282 1566

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NATA

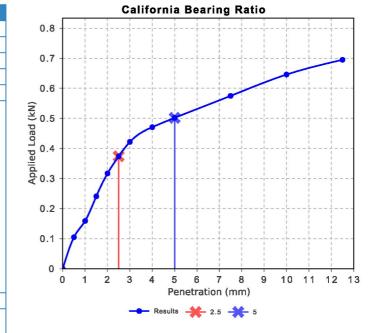
Approved Signatory: Chris Mamalis Laboratory Manager

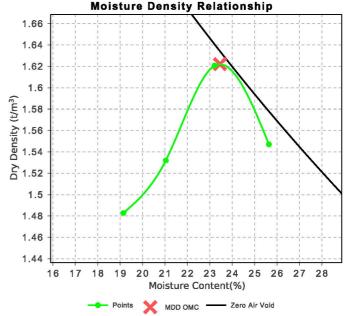
NATA Accredited Laboratory Number: 20109

California Bearing Ratio (AS 1289 6.1.1 &	2.1.1)	Min	Max
CBR taken at	2.5 mm		
CBR %	3.0		
Method of Compactive Effort	Stan	dard	
Method used to Determine MDD	AS 1289 5	.1.1 & 2	2.1.1
Method used to Determine Plasticity	Visual As	sessm	ent
Maximum Dry Density (t/m³)	1.62		
Optimum Moisture Content (%)	23.5		
Laboratory Density Ratio (%)	98.0		
Laboratory Moisture Ratio (%)	98.5		
Dry Density after Soaking (t/m³)	1.56		
Field Moisture Content (%)			
Moisture Content at Placement (%)	23.2		
Moisture Content Top 30mm (%)	27.6		
Moisture Content Rest of Sample (%)	23.3		
Mass Surcharge (kg)	4.5		
Soaking Period (days)	4		
Curing Hours	379.1		
Swell (%)	2.0		
Oversize Material (mm)	19		
Oversize Material Included	Excluded		
Oversize Material (%)	0.0		
Sample remoulded as per Vic Roads Code	of Practice R	C 500.	16

Dry Density - Moisture Relationship (AS 1289 5.	Min	Max	
Mould Type	1 LITRE MOULD A		
Compaction	Standard		
Maximum Dry Density (t/m ³)	1.62		
Optimum Moisture Content (%)	23.5		
Oversize Sieve (mm)	19.0		
Oversize Material Wet (%)	0		
Method used to Determine Plasticity	Visual Assessment		
Curing Hours (h)	236.2		

Report Number: GSSW1879-1





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Ground Science

Latitude : -37.880676

Longitude : 147.620646

Ground Science South West

10 Dowsett St, South Geelong, Victoria 3220

Phone: (03) 5282 1566

Excavator : Yanmar VIO17 Job Number : GSSW1879

Excavator Supplier : Ground Science South West Client : SMEC AUSTRALIA PTY LTD

Logged By : MK Project : EGSC COMPOST FACILITY

	n Not S			Reviewed By : Location : FORGE CREEK			
Total Dep	oth : 1.5m			Date : 16/05/2023 Loc Comment :			Samples
DCP graph	Depth (m)	Graphic Log	Classification Code	Material	Consistency	Moisture	
2	_		CL	TOPSOIL: gravelly, sandy, silty CLAY, brown, low plasticity, sand fine to coarse grained, gravel sub angular to sub rounded to stiff, moist, organics.	fine, firm F-St	М	
4	-						
5	_ 0. <u>3</u> _		СН	CLAY, trace sand & gravel, orange mottled brown, high plasticity, sand fine to medium grained, gravel fine, stiff, moist (inferr deposits).	red alluvial St	М	
6	- 0.5						
5	-						
5	-						
10	-1 1. <u>02</u>		CI	CLAY, trace sand, orange mottled grey, medium plasticity, sand fine to medium grained, hard, dry to moist (inferred alluvial)	deposits). H	D-M	
13	-						
18	-						
20 R	- 1.5			TP08 Terminated at 1.5m			
	-			1700 ferminated at 1.5m			
	-						
	- 2						
	-						
	-						
	-						
	- 2.5						
	- -						
	-						

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Photo description	Test Pit Photos				
Client	SMEC AUSTRALIA PTY LTD				
Location	FOI	RGE CREEK			
Project name	EGSC CO	MPOST FACIL	.ITY		
Project No	GSSW1879	Scale	Not to Scale		
TP No	TP08	TP Depth	Not Applicable		

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part of a plan**Fingineries-9adeTestei**Planning and Environment Act 1987 No habe

Ground Science

Latitude : -37.880903

Longitude : 147.619857

Ground Science South West

10 Dowsett St, South Geelong, Victoria 3220

Phone: (03) 5282 1566

 Excavator
 : Yanmar VIO17
 Job Number
 : GSSW1879

 Excavator Supplier
 : Ground Science South West
 Client
 : SMEC AUSTRALIA PTY LTD

 Logged By
 : MK
 Project
 : EGSC COMPOST FACILITY

Elevation	le :147. 1 NotS			Logged By : MK Project : EGSC COMPOST FACILITY Reviewed By : Location : FORGE CREEK			
Total Dep	oth : 1.5m			Date : 16/05/2023 Loc Comment :			Comples
DCP graph	Depth (m)	Graphic Log	Classification Code	Material Description	Consistency	Moisture	Samples Bulk Sample
1 2	-		CL	TOPSOIL: gravelly, sandy, silty CLAY, brown, low plasticity, sand fine to coarse grained, gravel sub angular to sub rounded fine, soft to firm, moist, organics.	S-F	М	
1 1 2	0. <u>35</u> - - 0.5		СН	sandy CLAY, orange mottled brown, high plasticity, sand 36% fine to medium grained, firm to stiff, moist (inferred alluvial deposits)	F-St	М	
2 3 3	- - -1						
3 4 5	- 1. <u>3</u>		CI	CLAY, trace sand, orange mottled grey, medium plasticity, sand fine to medium grained, stiff, dry to moist (inferred alluvial deposits). St	D-M	1879-S10
6							
				TP09 Terminated at 1.5m			
	- 2.5 - -						

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Photo description	Test Pit Photos				
Client	SMEC AUSTRALIA PTY LTD				
Location	FORGE CREEK				
Project name	EGSC CO	MPOST FACIL	.ITY		
Project No	GSSW1879	Scale	Not to Scale		
TP No	TP09	TP Depth	Not Applicable		

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Material Test Report

GSSW1879-1 **Report Number:**

Issue Number:

21/06/2023 Date Issued:

SMEC AUSTRALIA PTY LTD Client:

4/727 Collins St, Docklands Victoria 3008 GSSW1879

Project Number: GEOTECHNICAL INVESTIGATION EGSC COMPOST FACILITY

Project Name: FORGE CREEK

Project Location: 15787

Work Request: 1879-S10 Sample Number: 16/05/2023 Date Sampled:

Report Number: GSSW1879-1

24/05/2023 - 06/06/2023 **Dates Tested:**

AS 1289.1.2.1 6.5.4 - Machine excavated pit or trench Sampling Method:

Material classified as per AS 1726:2017 Remarks:

TP09, Depth: 0.35m - 1.3m Sample Location: CH - sandy CLAY, orange mottled brown, high plasticity, sand 36% fine Material:

to medium grained, firm to stiff, moist (inferred alluvial deposits).

NATA

10 Dowsett Street South Geelong Vic 3220 Phone: (03) 5282 1566

Email: chrism@groundscience.com.au

Ground Science South West Pty Ltd

Accredited for compliance with ISO/IEC 17025 - Testing

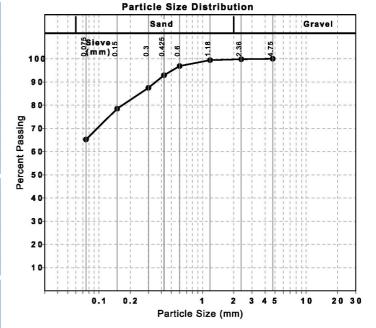
Approved Signatory: Chris Mamalis Laboratory Manager 20109

	NATA	Accr	edited	Labo	orator	y Number:
_						

Particle Size I	Distribution (A	S1289 3	3.6.1)			
Sieve	Passed %	Passing Limits		Retained %	Retain Limits	ed
4.75 mm	100			0		
2.36 mm	100			0		
1.18 mm	99			0		
0.6 mm	97			3		
0.425 mm	93			4		
0.3 mm	87			5		
0.15 mm	78			9		
0.075 mm	65			13		

Atterberg Limit (AS1289 3.1.2 & 3.2	Min	Max	
Sample History			
Preparation Method			
Liquid Limit (%)	56		
Plastic Limit (%)	19		
Plasticity Index (%)			

Linear Shrinkage (AS1289 3.4.1)		Min	Max
Moisture Condition Determined By	AS 1289.3.1.2		
Linear Shrinkage (%)	12.0		
Cracking Crumbling Curling	Cracking &	Curling	



Material Test Report

Report Number: GSSW1879-1

Issue Number:

Date Issued: 21/06/2023

Client: SMEC AUSTRALIA PTY LTD

4/727 Collins St, Docklands Victoria 3008

Project Number: GSSW1879

Project Name: GEOTECHNICAL INVESTIGATION EGSC COMPOST FACILITY

Project Location: FORGE CREEK

 Work Request:
 15787

 Sample Number:
 1879-S10

 Date Sampled:
 16/05/2023

Dates Tested: 24/05/2023 - 09/06/2023

Sampling Method: AS 1289.1.2.1 6.5.4 - Machine excavated pit or trench

Remarks: Material classified as per AS 1726:2017

Sample Location: TP09, Depth: 0.35m - 1.3m

Material: CH - sandy CLAY, orange mottled brown, high plasticity, sand 36% fine

to medium grained, firm to stiff, moist (inferred alluvial deposits).

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Ground Science South West Pty Ltd 10 Dowsett Street South Geelong Vic 3220

Phone: (03) 5282 1566

Email: chrism@groundscience.com.au

Accredited for compliance with ISO/IEC 17025 - Testing

Approved Signatory: Chris Mamalis

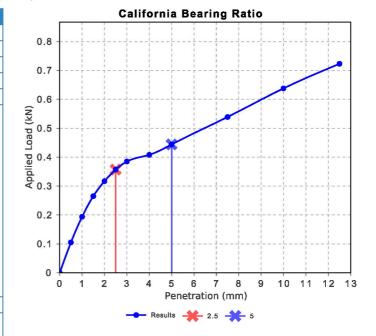
Laboratory Manager

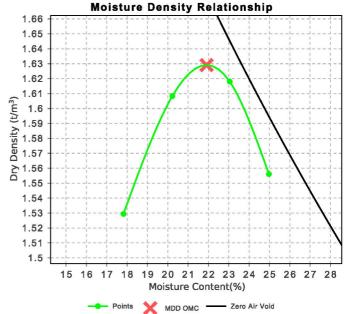
NATA Accredited Laboratory Number: 20109

California Bearing Ratio (AS 1289 6.1.1 &	2.1.1)	Min	Max
CBR taken at	2.5 mm		
CBR %	2.5		
Method of Compactive Effort	Stan	dard	
Method used to Determine MDD	AS 1289 5	1.1 &	2.1.1
Method used to Determine Plasticity	Visual As	sessm	ent
Maximum Dry Density (t/m³)	1.63		
Optimum Moisture Content (%)	22.0		
Laboratory Density Ratio (%)	98.0		
Laboratory Moisture Ratio (%)	99.5		
Dry Density after Soaking (t/m³)	1.57		
Field Moisture Content (%)			
Moisture Content at Placement (%)	21.8		
Moisture Content Top 30mm (%)	23.9		
Moisture Content Rest of Sample (%)	21.8		
Mass Surcharge (kg)	4.5		
Soaking Period (days)	4		
Curing Hours	147.7		
Swell (%)	2.0		
Oversize Material (mm)	19		
Oversize Material Included	Excluded		
Oversize Material (%)	0.0		
Sample remoulded as per Vic Roads Code	of Practice R	C 500.	16

Dry Density - Moisture Relationship (AS 1289 5.	Min	Max	
Mould Type	1 LITRE MOULD A		
Compaction	Standard		
Maximum Dry Density (t/m ³)	1.63		
Optimum Moisture Content (%)	22.0		
Oversize Sieve (mm)	19.0		
Oversize Material Wet (%)	0		
Method used to Determine Plasticity	Visual As	sessme	nt
Curing Hours (h)	90.0		

Report Number: GSSW1879-1





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Ground Science

: -37.881065

Longitude : 147.620418

Latitude

Ground Science South West

10 Dowsett St, South Geelong, Victoria 3220

Phone: (03) 5282 1566

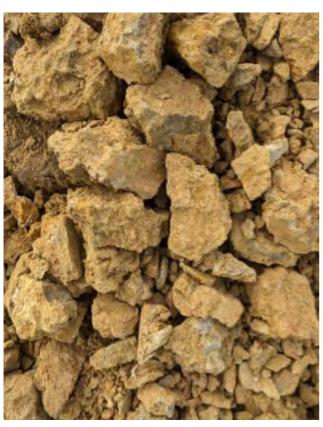
Job Number : GSSW1879 Excavator : Yanmar VIO17 **Excavator Supplier: Ground Science South West** Client : SMEC AUSTRALIA PTY LTD Logged By : MK Project : EGSC COMPOST FACILITY

Elevation Total Dep				Reviewed By : Location : FORGE CREEK Date : 17/05/2023 Loc Comment :			
							Samples
DCP graph	Depth (m)	Graphic Log	Classification Code	Material Description	Consistency	Moisture	Bulk Sample
2			CL	TOPSOIL: gravelly, sandy, silty CLAY, brown, low plasticity, sand fine to coarse grained, gravel sub angular to sub rounded fine, soft to firm, moist, organics.	S-F	М	
2	0. <u>3</u>		СН	CLAY, trace sand & gravel, orange mottled brown, high plasticity, sand fine to medium grained, gravel fine, firm to stiff, moist (inferred alluvial deposits).	F-St	М	
2	0.5			ailuviai deposits).			
5							
10	0. <u>7</u>		CI	CLAY, with sand, orange mottled grey, medium plasticity, sand 25% fine to medium grained, very stiff to hard, dry to moist (inferred alluvial deposits).	VSt-H	D-M	
8							
9	· 1						
7							
7							
-	1.5						
		(//////		TP10 refusal at 1.7m			1879-S11
	2						
-	2.5						

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(03) 5282 1566



10 Dowsett St. South Geelang, Victoria 3220



admin@groundscience.com.au

Photo description	Test Pit Photos				
Client	SMEC AUSTRALIA PTY LTD				
Location	FORGE CREEK				
Project name	EGSC CO	MPOST FACIL	.ITY		
Project No	GSSW1879	Scale	Not to Scale		
TP No	TP10	TP Depth	Not Applicable		

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part of a planning process under the Planning and Environment Act 1987. The document must not be

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Ground Science South West Pty Ltd

Email: chrism@groundscience.com.au

Phone: (03) 5282 1566

10 Dowsett Street South Geelong Vic 3220

Material Test Report

GSSW1879-1 **Report Number:**

Issue Number:

Date Issued: 21/06/2023

Client: SMEC AUSTRALIA PTY LTD

4/727 Collins St, Docklands Victoria 3008 GSSW1879 **Project Number:**

Project Name: GEOTECHNICAL INVESTIGATION EGSC COMPOST FACILITY

Project Location: FORGE CREEK

Work Request: 15787 Sample Number: 1879-S11 Date Sampled: 17/05/2023

Dates Tested: 24/05/2023 - 07/06/2023

Sampling Method: AS 1289.1.2.1 6.5.4 - Machine excavated pit or trench

Remarks: Material classified as per AS 1726:2017

Sample Location: TP10, Depth: 0.7m - 1.7m

CI - CLAY, with sand, orange mottled grey, medium plasticity, sand 25% fine to medium grained, very stiff to hard, dry to moist (inferred Material:

alluvial deposits).

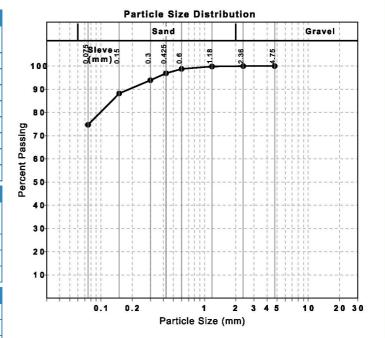
g

NATA Accredited Laboratory Number: 20109

Particle Size Distribution (AS1289 3.6.1)						
Sieve	Passed %	Passir Limits	ıg	Retained %	Retained Limits	
4.75 mm	100			0		
2.36 mm	100			0		
1.18 mm	100			0		
0.6 mm	99			1		
0.425 mm	97			2		
0.3 mm	94			3		
0.15 mm	88			6		
0.075 mm	75			14		

Atterberg Limit (AS1289 3.1.2 & 3.2	Min	Max	
Sample History			
Preparation Method	Dry Sieve		
Liquid Limit (%)	48		
Plastic Limit (%)	17		
Plasticity Index (%)	31		

Linear Shrinkage (AS1289 3.4.1)		Min	Max
Moisture Condition Determined By	AS 1289.3.1.2		
Linear Shrinkage (%)	9.0		
Cracking Crumbling Curling	Curling		



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Ground Science

Latitude : -37.881542

Ground Science South West

10 Dowsett St, South Geelong, Victoria 3220

Phone: (03) 5282 1566

Excavator : Yanmar VIO17 **Excavator Supplier: Ground Science South West** Logged By : MK

Job Number : GSSW1879 Client : SMEC AUSTRALIA PTY LTD

Latitude	: -37.8 le : 147.0				Project	: SMEC AUSTRALIA PTY LTD : EGSC COMPOST FACILITY			
I	Not S				ocation	: FORGE CREEK			
Total Dep	oth : 1.5m			Date : 17/05/2023	.oc Comment	::			
									Samples
DCP graph	Depth (m)	Graphic Log	Classification Code	Material Description			Consistency	Moisture	
2	_		CL	TOPSOIL: gravelly, sandy, silty CLAY, brown, low plasticity, sand fine to coarse grasoft to firm, moist, organics.	ained, gravel s	sub angular to sub rounded fine,	S-F	М	
1	=								
	0. <u>3</u>								
1	-		СН	CLAY, trace sand, orange mottled brown, high plasticity, sand fine to medium grains	ed, soft to firm	, moist (inferred alluvial deposits).	S-F	М	
1	- 0.5								
1	-								
1 2	-								
	0. <u>9</u>								
3	- 1		СН	As above, stiff.			St	М	
5	-								
5	-								
5	-								
5	-								
	- 1.5								
				TP11 Terminated at 1.5m					
	_								
	-								
	_								
	_								
	- 2								
	-								
	-								
	- 2.5								
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	-								
	2								
	-								

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Photo description	Test Pit Photos				
Client	SMEC AUSTRALIA PTY LTD				
Location	FORGE CREEK				
Project name	EGSC CO	MPOST FACIL	.ITY		
Project No	GSSW1879	Scale	Not to Scale		
TP No	TP11	TP Depth	Not Applicable		

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Environment Act 1987 No had be used for any purpose which may breach any copyright.

Ground Science

: -37.882014

Longitude : 147.620238

Latitude

Ground Science South West

10 Dowsett St, South Geelong, Victoria 3220

Phone: (03) 5282 1566

Excavator : Yanmar VIO17 Job Number : GSSW1879

Excavator Supplier : Ground Science South West Client : SMEC AUSTRALIA PTY LTD

Logged By : MK Project : EGSC COMPOST FACILITY

Elevation Total Dep				Reviewed By : Location : FORGE CREEK Date : 17/05/2023 Loc Comment :			
							Samples
DCP graph	Depth (m)	Graphic Log	Classification Code	Material	Consistency	Moisture	Bulk Sample
1			CL	TOPSOIL: gravelly, sandy, silty CLAY, brown, low plasticity, sand fine to coarse grained, gravel sub angular to sub round to firm, moist, organics.	ed fine, soft S-F	М	
2	0. <u>3</u>	////	СН	CLAY, trace sand & gravel, orange mottled brown, high plasticity, sand fine to medium grained, gravel fine, stiff, moist (infe	erred alluvial St	М	_
5			GH	deposits).	sired alluvial St	I W	
6	0.5						
5							
3							
3	. 1						
3	1 —		CI	CLAY, trace sand, orange mottled grey, medium plasticity, sand fine to medium grained, stiff, dry to moist (inferred alluvia	I deposits). St	M-D	
3							
3							
5	1.5 1.5		011		- 4 1 CA) (CA) (
_			СН	CLAY, trace sand & gravel, orange mottled red/grey, high plasticity, sand 15% fine to medium grained, gravel 8% fine to medium gravel 8% fine to m	edium, stiff to St-VS	t M	
				TP12 refusal at 1.7m (Refusal on Rock)			1879-S12
	2						
}							
}	0.5						
	2.5						
}							
	3						

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10 Dowsett St. South Geelong. Victoria 3220

admin@groundscience.com.au

Photo description	Test Pit Photos				
Client	SMEC AUSTRALIA PTY LTD				
Location	FORGE CREEK				
Project name	EGSC COMPOST FACILITY				
Project No	GSSW1879	Scale	Not to Scale		
TP No	TP12	TP Depth	Not Applicable		

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Email: chrism@groundscience.com.au

Phone: (03) 5282 1566

10 Dowsett Street South Geelong Vic 3220

part of a planning process under Environment Act 1987. The doc

Material Test Report

GSSW1879-1 **Report Number:**

Issue Number:

Date Issued: 21/06/2023

Client: SMEC AUSTRALIA PTY LTD

4/727 Collins St, Docklands Victoria 3008 GSSW1879

Project Number: Project Name: GEOTECHNICAL INVESTIGATION EGSC COMPOST FACILITY

Project Location: FORGE CREEK

Work Request: 15787 Sample Number: 1879-S12 Date Sampled: 17/05/2023

Dates Tested: 24/05/2023 - 08/06/2023

Sampling Method: AS 1289.1.2.1 6.5.4 - Machine excavated pit or trench

Remarks: Material classified as per AS 1726:2017

Sample Location: TP12, Depth: 1.5m - 1.7m

Material:

CH - CLAY, trace sand & gravel, orange mottled red/grey, high plasticity, sand 15% fine to medium grained, gravel 8% fine to medium, stiff to very stiff, moist (inferred alluvial deposits).

Accredited for compliance with ISO/IEC 17025 - Testing NATA

Approved Signatory: Chris Mamalis

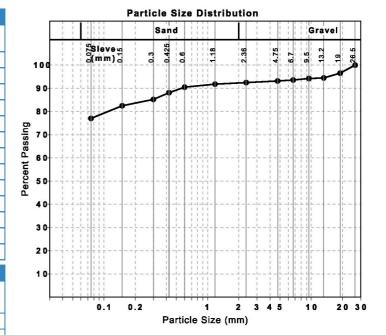
Laboratory Manager NATA Accredited Laboratory Number: 20109

Particle Size	Distribution (A	S1289 3	3.6.1)			
Sieve	Passed %	Passing Limits		Retained %	Retained Limits	
26.5 mm	100			0		
19 mm	97			3		
13.2 mm	94			2		
9.5 mm	94			0		
6.7 mm	94			1		
4.75 mm	93			0		
2.36 mm	92			1		
1.18 mm	92			1		
0.6 mm	90			1		
0.425 mm	88			2		
0.3 mm	85			3		
0.15 mm	82			3		
0.075 mm	77			5		

Atterberg Limit (AS1289 3.1.2 & 3.2	Min	Max	
Sample History	Oven Dried		
Preparation Method	Dry Sieve		
Liquid Limit (%)	58		
Plastic Limit (%)	15		
Plasticity Index (%)	43		

Linear Shrinkage (AS1289 3.4.1)		Min	Max	
Moisture Condition Determined By	AS 1289.3.1.2			
Linear Shrinkage (%)	10.5			
Cracking Crumbling Curling Cracking & Curling				

Report Number: GSSW1879-1



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Ground Science

Ground Science South West

10 Dowsett St, South Geelong, Victoria 3220

Phone: (03) 5282 1566

 Latitude
 : 37.882501
 Excavator Supplier : Ground Science South West
 Client
 : SMEC AUSTRALIA PTY LTD

 Longitude
 : 147.620134
 Logged By
 : MK
 Project
 : EGSC COMPOST FACILITY

 Elevation
 Not Surveyed
 Reviewed By
 : Company
 Location
 : FORGE CREEK

Elevation		ırveyed		Reviewed By : Location : FORGE CREEK			
Total Depth	h : 1.5m			Date : 17/05/2023			Comples
DCP graph	Depth (m)	Graphic Log	Classification Code	Material	Consistency	Moisture	Samples Bulk Sample
2 4			CL	TOPSOIL: gravelly, sandy, silty CLAY, brown, low plasticity, sand fine to coarse grained, gravel sub angular to sub rounded fine, firm to stiff, moist, organics.	F-St	М	
7 8 7 7 7 6 7 7 9 8 9 9	0. <u>3</u>		CI	CLAY, with sand, orange mottled brown, medium plasticity, sand 23% fine to medium grained, very stiff to hard, moist (inferred alluvial deposits).	VSt-H	М	
10 - 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2	2			TP13 Terminated at 1.5m			1879-S13

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Photo description	Tes	st Pit Photos	
Client	SMEC AL	ISTRALIA PTY	LTD
Location	FO	RGE CREEK	
Project name	EGSC CO	OMPOST FACIL	.ITY
Project No	GSSW1879	Scale	Not to Scale
TP No	TP13	TP Depth	Not Applicable

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Material Test Report

GSSW1879-1 **Report Number:**

Issue Number:

Date Issued: 21/06/2023

Client: SMEC AUSTRALIA PTY LTD

4/727 Collins St, Docklands Victoria 3008

GSSW1879 **Project Number:**

Project Name: GEOTECHNICAL INVESTIGATION EGSC COMPOST FACILITY

Project Location: FORGE CREEK

Work Request: 15787 Sample Number: 1879-S13 Date Sampled: 17/05/2023

Dates Tested: 24/05/2023 - 06/06/2023

Sampling Method: AS 1289.1.2.1 6.5.4 - Machine excavated pit or trench

Remarks: Material classified as per AS 1726:2017

TP13, Depth: 0.3m - 1.5m Sample Location:

Material:

CI - CLAY, with sand, orange mottled brown, medium plasticity, sand 23% fine to medium grained, very stiff to hard, moist (inferred alluvial

deposits).

	Email: Girishi@groundscience.com.ad
1	Accredited for compliance with ISO/IEC 17025 - Testing
NATA	(
V	Approved Signatory: Chris Mamalis
ACCREDITATION	Laboratory Manager
	NATA A

Ground Science South West Pty Ltd

Email: chrism@groundscience.com.au

Phone: (03) 5282 1566

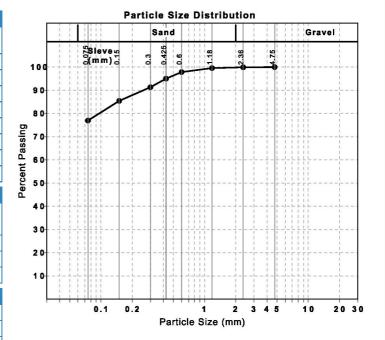
10 Dowsett Street South Geelong Vic 3220

NATA Accredited Laboratory Number: 20109

Particle Size	Distribution (A	S1289 3	3.6.1)			
Sieve	Passed %	Passir Limits	ıg	Retained %	Retain Limits	ed
4.75 mm	100			0		
2.36 mm	100			0		
1.18 mm	100			0		
0.6 mm	98			2		
0.425 mm	95			3		
0.3 mm	91			4		
0.15 mm	85			6		
0.075 mm	77			8		

Atterberg Limit (AS1289 3.1.2 & 3.2	2.1 & 3.3.1)	Min	Max
Sample History	Oven Dried		
Preparation Method	Dry Sieve		
Liquid Limit (%)	50		
Plastic Limit (%)	17		
Plasticity Index (%)	33		

Linear Shrinkage (AS1289 3.4.1)		Min	Max
Moisture Condition Determined By	AS 1289.3.1.2		
Linear Shrinkage (%)	11.0		
Cracking Crumbling Curling	Cracking &	Curlina	



Material Test Report

GSSW1879-1 **Report Number:**

Issue Number:

Date Issued: 21/06/2023

Client: SMEC AUSTRALIA PTY LTD

4/727 Collins St, Docklands Victoria 3008

GSSW1879 **Project Number:**

Project Name: GEOTECHNICAL INVESTIGATION EGSC COMPOST FACILITY

Project Location: FORGE CREEK

Work Request: 15787 Sample Number: 1879-S13 Date Sampled: 17/05/2023

Dates Tested: 24/05/2023 - 19/06/2023

Sampling Method: AS 1289.1.2.1 6.5.4 - Machine excavated pit or trench

Remarks: Material classified as per AS 1726:2017

Sample Location: TP13, Depth: 0.3m - 1.5m

Material:

CI - CLAY, with sand, orange mottled brown, medium plasticity, sand 23% fine to medium grained, very stiff to hard, moist (inferred alluvial

deposits).

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10 Dowsett Street South Geelong Vic 3220

Phone: (03) 5282 1566

Email: chrism@groundscience.com.au Accredited for compliance with ISO/IEC 17025 - Testing



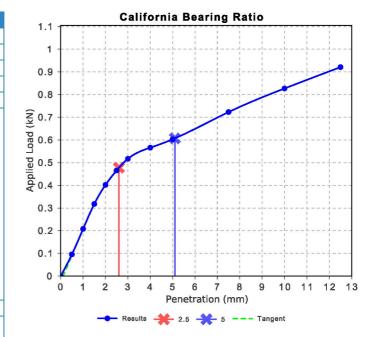
Approved Signatory: Chris Mamalis Laboratory Manager

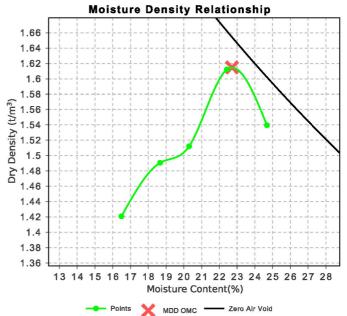
NATA Accredited Laboratory Number: 20109

California Bearing Ratio (AS 1289 6.1.1 &	2.1.1)	Min	Max
CBR taken at	2.5 mm		
CBR %	3.5		
Method of Compactive Effort	Stan	dard	
Method used to Determine MDD	AS 1289 5.	1.1 &	2.1.1
Method used to Determine Plasticity	Visual As	sessm	ent
Maximum Dry Density (t/m³)	1.61		
Optimum Moisture Content (%)	22.5		
Laboratory Density Ratio (%)	98.0		
Laboratory Moisture Ratio (%)	100.5		
Dry Density after Soaking (t/m ³)	1.56		
Field Moisture Content (%)			
Moisture Content at Placement (%)	22.9		
Moisture Content Top 30mm (%)	26.8		
Moisture Content Rest of Sample (%)	24.0		
Mass Surcharge (kg)	4.5		
Soaking Period (days)	4		
Curing Hours	377.6		
Swell (%)	1.0		
Oversize Material (mm)	19		
Oversize Material Included	Excluded		
Oversize Material (%)	0.0		
Sample remoulded as per Vic Roads Code	of Practice Ro	C 500.	16

Cumple remodiated as per viertedade code of Fractice Re-		10	
Dry Density - Moisture Relationship (AS 1289 5.	1.1 & 2.1.1)	Min	Max
Mould Type	1 LITRE MOULD A		
Compaction	Standard		
Maximum Dry Density (t/m ³)	1.61		
Optimum Moisture Content (%)	22.5		
Oversize Sieve (mm)	19.0		
Oversize Material Wet (%)	0		
Method used to Determine Plasticity	Visual As	sessme	ent
Curing Hours (b)	211.6		

Report Number: GSSW1879-1





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part of a plan Finging exies - 98d -

: SMEC AUSTRALIA PTY LTD

Job Number : GSSW1879

Client

Ground Science

: -37.882951

Latitude

Ground Science South West

10 Dowsett St, South Geelong, Victoria 3220

Phone: (03) 5282 1566

Excavator : Yanmar VIO17

Excavator Supplier : Ground Science South West

ongitude		82951 20041		Logged By	: Ground Science South West : MK	Client Project	: SMEC AUSTRALIA PTY LTD : EGSC COMPOST FACILITY			
levation				Reviewed By	:	Location	: FORGE CREEK			
otal Depti	h : 1.63m	1		Date	: 17/05/2023	Loc Commer	nt:	1		0
DCP graph	Depth (m)	Graphic Log	Classification Code			Material Description		Consistency	Moisture	Samples Samble Bnik Samble
2			CL	TOPSOIL: gravelly, sand	dy, silty CLAY, brown, low plasticity, sa to stiff, dry	and fine to coarse grained, gravel so to moist, organics.	ub angular to sub rounded fine, firm	F-St	D-M	
2										
4	0. <u>3</u>									
4			СН	CLAY, trace sand & g	gravel, orange mottled brown, high plas alluvi	sticity, sand fine to medium grained ial deposits).	, gravel fine, stiff, moist (inferred	St	М	
	0.5									
4										
4										
4										
5	, 1									
5			CL	sandy CLAY, trace gr	avel, orange mottled grey, low plasticit alluvia	y, sand 40% fine to coarse grained al deposits).	, gravel 2%, stiff, moist (inferred	St	М	
5										
5										
3										
	1.5									
-	1.6		CH /	CLAY, with sand & grave	el, grey mottled orange/red, high plasti hard, dry (inferred Haunt	city, sand fine to coarse grained, gr	avel sub angular medium to coarse,	Н /	\ D /	1879-S14
-						ted Hills Formation residual soil). fusal at 1.63m				
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Photo description	Tes	t Pit Photos	
Client	SMEC AU	STRALIA PTY	LTD
Location	FOI	RGE CREEK	
Project name	EGSC CC	MPOST FACIL	.ITY
Project No	GSSW1879	Scale	Not to Scale
TP No	TP14	TP Depth	Not Applicable

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Material Test Report

GSSW1879-1 **Report Number:**

Issue Number:

Date Issued: 21/06/2023

Client: SMEC AUSTRALIA PTY LTD

4/727 Collins St, Docklands Victoria 3008

GSSW1879 **Project Number:**

Project Name: GEOTECHNICAL INVESTIGATION EGSC COMPOST FACILITY

Project Location: FORGE CREEK

Work Request: 15787 Sample Number: 1879-S14 Date Sampled: 17/05/2023

Dates Tested: 24/05/2023 - 07/06/2023

Sampling Method: AS 1289.1.2.1 6.5.4 - Machine excavated pit or trench

Remarks: Material classified as per AS 1726:2017

Sample Location: TP14, Depth: 1.0m - 1.6m

Material:

CL - sandy CLAY, trace gravel, orange mottled grey, low plasticity, sand 40% fine to coarse grained, gravel 2%, stiff, moist (inferred

alluvial deposits).

^
NATA
V
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ACCREDITATION

Phone: (03) 5282 1566 Email: chrism@groundscience.com.au

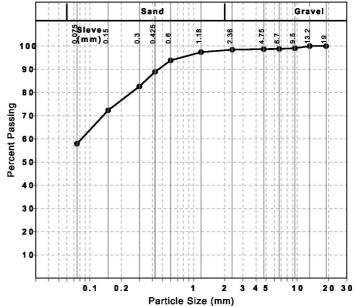
Ground Science South West Pty Ltd

10 Dowsett Street South Geelong Vic 3220

Accredited for compliance with ISO/IEC 17025 - Testing

Approved Signatory: Chris Mamalis Laboratory Manager NATA Accredited Laboratory Number: 20109

Particle Size Distribution	Pa	rticle	Size	Distr	ibutio	r
----------------------------	----	--------	------	-------	--------	---



Particle Size	Distribution (A	\S1289 3.6.1)		
Sieve	Passed %	Passing Limits	Retained %	Retained Limits
19 mm	100		0	
13.2 mm	100		0	
9.5 mm	99		1	
6.7 mm	99		0	
4.75 mm	99		0	
2.36 mm	98		0	
1.18 mm	97		1	
0.6 mm	94		4	
0.425 mm	89		5	
0.3 mm	83		6	
0.15 mm	72		10	
0.075 mm	58		14	

Atterberg Limit (AS1289 3.1.2 & 3.2.1 & 3.3.1)			Max
Sample History Oven Dried			
Preparation Method	Dry Sieve		
Liquid Limit (%)	34		
Plastic Limit (%)	13		
Plasticity Index (%)	21		

Linear Shrinkage (AS1289 3.4.1)		Min	Max
Moisture Condition Determined By	AS 1289.3.1.2		
Linear Shrinkage (%)	7.0		
Cracking Crumbling Curling	Cracking & Cr	umbling	l

Report Number: GSSW1879-1

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Ground Science

Latitude : -37.883409

Longitude : 147.619978

Ground Science South West

10 Dowsett St, South Geelong, Victoria 3220

Phone: (03) 5282 1566

Excavator : Yanmar VIO17 Job Number : GSSW1879

Excavator Supplier : Ground Science South West Client : SMEC AUSTRALIA PTY LTD

Logged By : MK Project : EGSC COMPOST FACILITY

	de :147.6 n NotSi			Logged By : MK Project : EGSC COMPOST FACILITY Reviewed By : Location : FORGE CREEK			
Total De	pth : 1.25n	n		Date : 17/05/2023	1		Samples
DCP graph	Depth (m)	Graphic Log	Classification Code	Material Description	Consistency	Moisture	Bulk Sample
2	_		CL	TOPSOIL: gravelly, sandy, silty CLAY, brown, low plasticity, sand fine to coarse grained, gravel sub angular to sub rounded fine, soft to firm, dry to moist, organics.	S-F	D-M	
2 3	0. <u>25</u>		СН	CLAY, trace sand & gravel, orange mottled brown, high plasticity, sand fine to medium grained, gravel fine, stiff, dry to moist (inferred alluvial deposits).	St	D-M	
6 7	- 0.5 0. <u>6</u>		CI	sandy CLAY, trace gravel, orange mottled red/grey, medium plasticity, sand 45% fine to coarse grained, gravel 1%, very stiff to hard, dry (inferred Haunted Hills Formation residual soil).	/ VSt-H	D	
9 13 16	- - - 1						
20 R	-			TP15 refusal at 1.25m			1879-S15
	- - 1.5 -						
	- - -2						
	- - - 2.5						
	-						

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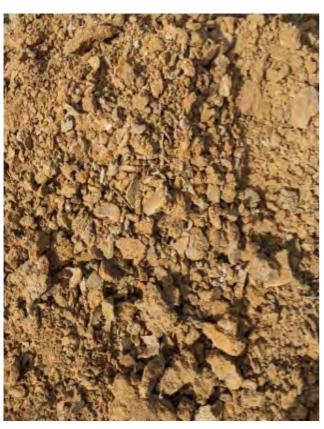






Photo description	Test Pit Photos				
Client	SMEC AUSTRALIA PTY LTD				
Location	FORGE CREEK				
Project name	EGSC C	OMPOST FACIL	.ITY		
Project No	GSSW1879	Scale	Not to Scale		
TP No	TP15	TP Depth	Not Applicable		

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part of a planning process under the Planning and Environment Act 1987. The document must not be

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Material Test Report

GSSW1879-1 **Report Number:**

Issue Number:

Date Issued: 21/06/2023

Client: SMEC AUSTRALIA PTY LTD

4/727 Collins St, Docklands Victoria 3008

GSSW1879 **Project Number:**

Project Name: GEOTECHNICAL INVESTIGATION EGSC COMPOST FACILITY

Project Location: FORGE CREEK

Work Request: 15787 Sample Number: 1879-S15 Date Sampled: 17/05/2023

Dates Tested: 24/05/2023 - 07/06/2023

Sampling Method: AS 1289.1.2.1 6.5.4 - Machine excavated pit or trench

Material classified as per AS 1726:2017 Remarks:

TP15, Depth: 0.6m - 1.25m Sample Location:

CI - sandy CLAY, trace gravel, orange mottled red/grey, medium plasticity, sand 45% fine to coarse grained, gravel 1%, very stiff to hard, dry (inferred Haunted Hills Formation residual soil). Material:

1	,
NATA	
V	,
WORLD RECOGNISED ACCREDITATION	ĺ

10 Dowsett Street South Geelong Vic 3220 Phone: (03) 5282 1566 Email: chrism@groundscience.com.au

Ground Science South West Pty Ltd

Accredited for compliance with ISO/IEC 17025 - Testing

Approved Signatory: Chris Mamalis Laboratory Manager NATA Accredited Laboratory Number: 20109

Particle Size Distribution

i		San	d			Gravel	
106	Sleve.	0.425	8	2.36	4.75	13.2	n
1							ŀ
9 0	1-1-11-1						-
80						÷#	-
7 0							
60	_/						ŀ
50							-
40	++++						-i
3 0	1 1 1 1 1 1						ŀ
20	1-1-11-1						
10	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						
-	0.1	0.2	1	2 3	4 5	10	20

Particle Size	Distribution (A	S1289 3.6.1)		
Sieve	Passed %	Passing Limits	Retained %	Retained Limits
19 mm	100		0	
13.2 mm	100		0	
9.5 mm	100		0	
6.7 mm	100		0	
4.75 mm	99		0	
2.36 mm	99		0	
1.18 mm	98		1	
0.6 mm	95		4	
0.425 mm	90		5	
0.3 mm	84		6	
0.15 mm	73		11	
0.075 mm	54		19	

Atterberg Limit (AS1289 3.1.2 & 3.2.1 & 3.3.1)			Max
Sample History	Oven Dried		
Preparation Method	Dry Sieve		
Liquid Limit (%)	36		
Plastic Limit (%)	12		
Plasticity Index (%)	24		

Linear Shrinkage (AS1289 3.4.1)		Min	Max
Moisture Condition Determined By	AS 1289.3.1.2		
Linear Shrinkage (%)	7.0		
Cracking Crumbling Curling	Cracking & Cr	umbling	l

Report Number: GSSW1879-1

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part of a planning process unde

Material Test Report

GSSW1879-1 **Report Number:**

Issue Number:

Date Issued: 21/06/2023

Client: SMEC AUSTRALIA PTY LTD

4/727 Collins St, Docklands Victoria 3008

Project Number: GSSW1879

Project Name: GEOTECHNICAL INVESTIGATION EGSC COMPOST FACILITY

Project Location: FORGE CREEK

Work Request: 15787 Sample Number: 1879-S15 Date Sampled: 17/05/2023

Dates Tested: 24/05/2023 - 19/06/2023

Sampling Method: AS 1289.1.2.1 6.5.4 - Machine excavated pit or trench

Remarks: Material classified as per AS 1726:2017

Sample Location: TP15, Depth: 0.6m - 1.25m

CI - sandy CLAY, trace gravel, orange mottled red/grey, medium plasticity, sand 45% fine to coarse grained, gravel 1%, very stiff to hard, dry (inferred Haunted Hills Formation residual soil). Material:

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		V	1	6	
		×		Lock	
1	VOR	REI	DIT	ATIC	DN

Ground Science South West Pty Ltd 10 Dowsett Street South Geelong Vic 3220

Phone: (03) 5282 1566

Email: chrism@groundscience.com.au

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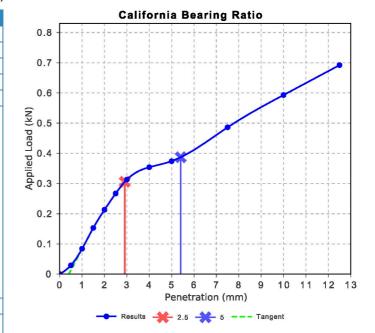


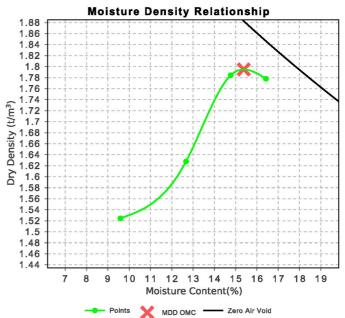
Approved Signatory: Chris Mamalis Laboratory Manager

NATA Accredited Laboratory Number: 20109

California Bearing Ratio (AS 1289 6.1.1 &	2.1.1)	Min	Max
CBR taken at	2.5 mm		
CBR %	2.5		
Method of Compactive Effort	Stan	dard	
Method used to Determine MDD	AS 1289 5	.1.1 & 2	2.1.1
Method used to Determine Plasticity	Visual As	sessm	ent
Maximum Dry Density (t/m³)	1.79		
Optimum Moisture Content (%)	15.5		
Laboratory Density Ratio (%)	98.0		
Laboratory Moisture Ratio (%)	98.5		
Dry Density after Soaking (t/m ³)	1.74		
Field Moisture Content (%)			
Moisture Content at Placement (%)	15.2		
Moisture Content Top 30mm (%)	19.3		
Moisture Content Rest of Sample (%)	15.7		
Mass Surcharge (kg)	4.5		
Soaking Period (days)	4		
Curing Hours	362.5		
Swell (%)	1.5		
Oversize Material (mm)	19		
Oversize Material Included	Excluded		
Oversize Material (%)	0.0		
Sample remoulded as per Vic Roads Code	of Practice R	C 500.1	16

Dry Density - Moisture Relationship (AS 1289 5.	Min	Max	
Mould Type	1 LITRE MOULD A		
Compaction	Standard		
Maximum Dry Density (t/m ³)	1.79		
Optimum Moisture Content (%)	15.5		
Oversize Sieve (mm)	19.0		
Oversize Material Wet (%)	0		
Method used to Determine Plasticity	Visual As	sessme	nt
Curing Hours (h)	176.4		





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Ground Science

Latitude : -37.883871

Longitude : 147.619890

Ground Science South West

10 Dowsett St, South Geelong, Victoria 3220

Phone: (03) 5282 1566

Excavator : Yanmar VIO17 Job Number : GSSW1879

Excavator Supplier : Ground Science South West Client : SMEC AUSTRALIA PTY LTD

Logged By : MK Project : EGSC COMPOST FACILITY

	le:147.0 n NotS			Logged By : MK Project : EGSC COMPOST FACILITY Reviewed By : Location : FORGE CREEK			
Total Dep	oth : 1.5m			Date : 17/05/2023 Loc Comment :			Samples
DCP graph	Depth (m)	Graphic Log	Classification Code	Material Description	Consistency	Moisture	Samples
1 2	-		CL	TOPSOIL: gravelly, sandy, silty CLAY, brown, low plasticity, sand fine to coarse grained, gravel sub angular to sub rounded fine, soft to firm, moist, organics.	S-F	М	
2	- 0. <u>3</u>	////	011			.,	
2	- 0.5		СН	CLAY, trace sand & gravel, orange mottled brown, high plasticity, sand fine to medium grained, gravel fine, firm to stiff, moist (inferred alluvial deposits).	I F-St	М	
3	-						
3	0. <u>8</u>		CI	CLAY, trace sand, orange mottled grey, medium plasticity, sand fine to medium grained, very to very stiff, dry (inferred alluvial deposits	s). St-VSt	D	
3	-1						
4	-						
5 7	-						
	- 1.5			TP16 Terminated at 1.5m			
	-						
	- 2 -						
	-						
	- 2.5 -						
	-						
	-						

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Photo description	Test Pit Photos					
Client	SMEC AUSTRALIA PTY LTD					
Location	FORGE CREEK					
Project name	EGSC CC	MPOST FACIL	.ITY			
Project No	GSSW1879	Scale	Not to Scale			
TP No	TP16	TP Depth	Not Applicable			

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Ground Science

Latitude : -37.884059 Longitude : 147.619133

Ground Science South West

10 Dowsett St, South Geelong, Victoria 3220

Phone: (03) 5282 1566

Excavator : Yanmar VIO17 Job Number : GSSW1879

Excavator Supplier : Ground Science South West Client : SMEC AUSTRALIA PTY LTD

Logged By : MK Project : EGSC COMPOST FACILITY

Reviewed By : FORGE CREEK

Elevation	n NotS	urveyed		Reviewed By : Location : FORGE CR	EEK		
DCP graph	Depth (m)	Graphic Log	Classification Code	Date : 17/05/2023 Loc Comment :	Consistency	Moisture	Samples
2	-		CL	TOPSOIL: gravelly, sandy, silty CLAY, brown, low plasticity, sand fine to coarse grained, gravel sub angular to su to firm, dry to moist, organics.	b rounded fine, soft S-F	D-M	
7 9 9 10 9	- 0. <u>3</u> - 0.5		СН	CLAY, trace sand & gravel, orange mottled brown, high plasticity, sand fine to medium grained, gravel fine, very s moist (inferred alluvial deposits).	stiff to hard, dry to VSt-H	D-M	
7 8 9 7 7 7	- 1 - 1		CI	CLAY, trace sand, orange mottled grey, medium plasticity, sand fine to medium grained, very stiff, dry (inferred a	alluvial deposits). VSt	D	
	- 1.5 - - - - 2 -			TP17 Terminated at 1.5m			
	- 2.5						

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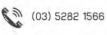












10 Dowsett St. South Geelang, Victoria 3220



admin@groundscience.com.au

Photo description	Test Pit Photos					
Client	SMEC AUSTRALIA PTY LTD					
Location	FORGE CREEK					
Project name	EGSC CO	MPOST FACIL	.ITY			
Project No	GSSW1879	Scale	Not to Scale			
TP No	TP17	TP Depth	Not Applicable			

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Ground Science

Latitude : -37.884153

Ground Science South West

10 Dowsett St, South Geelong, Victoria 3220

Phone: (03) 5282 1566

Excavator : Yanmar VIO17 Job Number : GSSW1879

Excavator Supplier : Ground Science South West Client : SMEC AUSTRALIA PTY LTD

Logged By : MK Project : EGSC COMPOST FACILITY

ongitude				Logged By	: MK		Project	: EGSC COMPOST FACILITY			
levation otal Depth				Reviewed By Date	: : 17/05/2023		Location Loc Comment	: FORGE CREEK			
											Samples
DCP graph	Depth (m)	Graphic Log	Classification Code			Material Description			Consistency	Moisture	
1			CL	TOPSOIL: gravell	ly, sandy, silty CLAY, brown, low fine	w plasticity, sand fine to coar e, soft to firm, moist, organics	se grained, grav	el sub angular to sub rounded	S-F	М	
2											
4											
5	0. <u>4</u>		СН	CLAY, trace sand an	nd gravel, orange mottled brown	n, high plasticity, sand fine to alluvial deposits).	medium grained	gravel fine, stiff, moist (inferred	St	М	
5 0.8	.5					aliuviai deposits).					
5											
5											
5											
5 1											
5											
4											
5											
1.8	.5				TP	18 Terminated at 1.5n	1				
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Photo description	Test Pit Photos				
Client	SMEC AUSTRALIA PTY LTD				
Location	FORGE CREEK				
Project name	EGSC CC	MPOST FACIL	JTY		
Project No	GSSW1879	Scale	Not to Scale		
TP No	TP18	TP Depth	Not Applicable		

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: SMEC AUSTRALIA PTY LTD

: EGSC COMPOST FACILITY

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Ground Science

: -37.884433 Longitude : 147.619466

UTM

Latitude

Ground Science South West

10 Dowsett St, South Geelong, Victoria 3220

Phone: (03) 5282 1566

Job Number : GSSW1879 Excavator : Yanmar VIO17 **Excavator Supplier: Ground Science South West** Client Logged By : MK Project

	le :147. n :Not			Logged By : MK Project : EGSC COMPOST FACILITY Reviewed By : Location : FORGE CREEK			
Total Dep	pth : 1.4m			Date : 18/05/2023			0
DCP graph	Depth (m)	Graphic Log	Classification Code	Material	Consistency	Moisture	Samples Bulk Sample
2			CL	TOPSOIL: gravelly, sandy, silty CLAY, brown, low plasticity, sand fine to coarse grained, gravel sub angular to sub rounded fine, firm, dry to moist, organics.	F	D-M	
3	0. <u>2</u>		CL	As above, fine to coarse sized gravel, stiff, moist.	St	М	
3	- 0. <u>4</u> - 0.5		СН	CLAY, trace sand & gravel, orange mottled brown, high plasticity, sand fine to medium grained, gravel fine, stiff, moist (inferred alluvial deposits).	St	М	
3 4 5	- 0. 7		CI	CLAY, trace sand, orange mottled grey, medium plasticity, sand 14% fine to medium grained, stiff to very stiff, moist (inferred alluvial deposits).	St-VSt	М	
7	- 1 - 1.2						
16	-		СН	CLAY, with sand & gravel, grey mottled orange/red, high plasticity, sand fine to coarse grained, gravel sub angular medium to coarse, hard, moist (inferred Haunted Hills Formation residual soil).	Н	М	1879-S16
R	- 1.5 - - - 2 - - 2.5			TP19 refusal at 1.4m			
	-						

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Photo description	Test Pit Photos					
Client	SMEC AUSTRALIA PTY LTD					
Location	FOF	RGE CREEK				
Project name	EGSC CO	MPOST FACIL	.ITY			
Project No	GSSW1879	Scale	Not to Scale			
TP No	TP19	TP Depth	Not Applicable			

Material Test Report

GSSW1879-1 **Report Number:**

Issue Number:

Date Issued: 21/06/2023

Client: SMEC AUSTRALIA PTY LTD

4/727 Collins St, Docklands Victoria 3008 GSSW1879 **Project Number:**

Project Name: GEOTECHNICAL INVESTIGATION EGSC COMPOST FACILITY

Project Location: FORGE CREEK

Work Request: 15787 Sample Number: 1879-S16 Date Sampled: 18/05/2023

Dates Tested: 24/05/2023 - 13/06/2023

Sampling Method: AS 1289.1.2.1 6.5.4 - Machine excavated pit or trench

Remarks: Material classified as per AS 1726:2017

Sample Location: TP19, Depth: 0.7m - 1.2m CI - CLAY, trace sand, orange mottled grey, medium plasticity, sand 14% fine to medium grained, hard, moist (inferred alluvial deposits). Material:

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> > Phone: (03) 5282 1566

Email: chrism@groundscience.com.au

Accredited for compliance with ISO/IEC 17025 - Testing NATA

Approved Signatory: Chris Mamalis

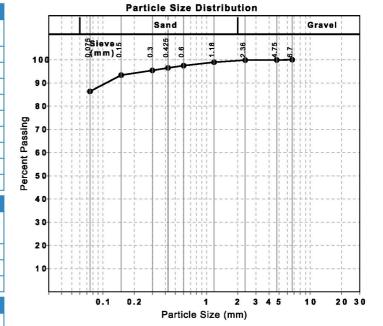
Laboratory Manager

NATA Accredited Laboratory Number: 20109

Particle Size Distribution (AS1289 3.6.1)									
Sieve	Passed %	Passing Limits		Retained %	Retain Limits	ed			
6.7 mm	100			0					
4.75 mm	100			0					
2.36 mm	100			0					
1.18 mm	99			1					
0.6 mm	97			1					
0.425 mm	96			1					
0.3 mm	95			1					
0.15 mm	93	93		2					
0.075 mm	86			7					

Atterberg Limit (AS1289 3.1.2 & 3.2	Min	Max	
Sample History	Oven Dried		
Preparation Method	Dry Sieve		
Liquid Limit (%)	41		
Plastic Limit (%)	17		
Plasticity Index (%)	24		

Linear Shrinkage (AS1289 3.4.1)		Min	Max
Moisture Condition Determined By	AS 1289.3.1.1		
Linear Shrinkage (%)	8.5		
Cracking Crumbling Curling	Cracking & C	Curling	



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Environment Act 1987 No. The 20 cument must not be used for any purpose which may breach any copyright.

Ground Science

Latitude : -37.884674

Longitude : 147.618974

Ground Science South West

10 Dowsett St, South Geelong, Victoria 3220

Phone: (03) 5282 1566

Excavator : Yanmar VIO17 Job Number : GSSW1879

Excavator Supplier : Ground Science South West Client : SMEC AUSTRALIA PTY LTD

Logged By : MK Project : EGSC COMPOST FACILITY

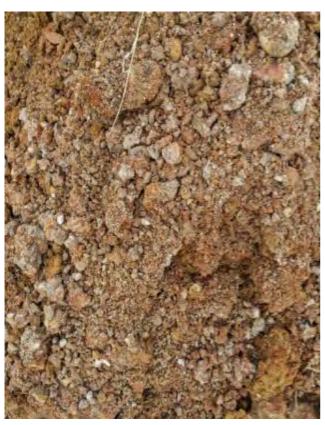
Reviewed By : FOR GE CREEK

	le :147. 1 NotS			Logged By : MK Project : EGSC COMPOST FACILITY Reviewed By : Location : FORGE CREEK			
Total Dep	oth : 1.5m			Date : 18/05/2023			Samples
DCP graph	Depth (m)	Graphic Log	Classification Code	Material	Consistency	Moisture	Bulk Sample
1	-		CL	TOPSOIL: gravelly, sandy, silty CLAY, brown, low plasticity, sand fine to coarse grained, gravel sub angular to sub rounded fine, soft to firm, dry to moist, organics.	S-F	D-M	
6	_ 0. <u>2</u> _		CL	As above, grey brown, fine to coarse sized gravel, moist.	S-F	М	
3	0. <u>4</u>		СН	CLAY, trace sand & gravel, orange mottled brown, high plasticity, sand fine to medium grained, gravel fine, firm to stiff, moist (inferred alluvial deposits).	F-St	М	
3	- - -1						
4	- 1. <u>2</u>						
11 12 14	-		СН	CLAY, with sand & gravel, grey mottled orange/red, high plasticity, sand 20% fine to coarse grained, gravel 18% medium to coarse, hard, moist (inferred Haunted Hills Formation residual soil).	н	М	
	- 1.5 - - - 2			TP20 Terminated at 1.5m			1879-S17
	- 2.5 - -						

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(03) 5282 1566



10 Dowsett St. South Geelong, Victoria 3220



admin@groundscience.com.au

Photo description	Test Pit Photos				
Client	SMEC AUSTRALIA PTY LTD				
Location	FOR	RGE CREEK			
Project name	EGSC CO	MPOST FACIL	.ITY		
Project No	GSSW1879	Scale	Not to Scale		
TP No	TP20	TP Depth	Not Applicable		

Material Test Report

GSSW1879-1 **Report Number:**

Issue Number:

Date Issued: 21/06/2023

Client: SMEC AUSTRALIA PTY LTD

4/727 Collins St, Docklands Victoria 3008 **Project Number:** GSSW1879

Project Name: GEOTECHNICAL INVESTIGATION EGSC COMPOST FACILITY

Project Location: FORGE CREEK

Work Request: 15787 Sample Number: 1879-S17 Date Sampled: 18/05/2023

Dates Tested: 24/05/2023 - 07/06/2023

Sampling Method: AS 1289.1.2.1 6.5.4 - Machine excavated pit or trench

Remarks: Material classified as per AS 1726:2017

Sample Location: TP20, Depth: 1.2m - 1.5m

Material:

CH - CLAY, with sand & gravel, grey mottled orange/red, high plasticity, sand 20% fine to coarse grained, gravel 18% medium to coarse, hard, moist (inferred Haunted Hills Formation residual soil).

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Ground Science South West Pty Ltd 10 Dowsett Street South Geelong Vic 3220

Phone: (03) 5282 1566

Email: chrism@groundscience.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Chris Mamalis Laboratory Manager

ATA Accredited Laboratory Number: 20109

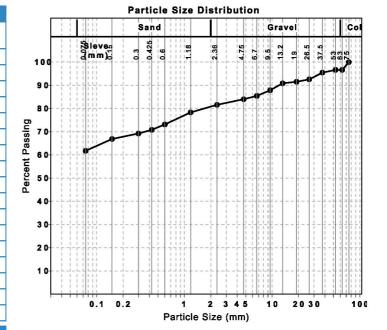
RECOGNISED	
	N/

Particle Size Distribution (AS1289 3.6.1)						
Sieve	Passed %	Passin Limits	g	Retained %	Retain Limits	ed
75 mm	100			0		
63 mm	97			3		
53 mm	97			0		
37.5 mm	95			1		
26.5 mm	93			3		
19 mm	92			1		
13.2 mm	91			1		
9.5 mm	88			3		
6.7 mm	85			2		
4.75 mm	84			1		
2.36 mm	82			2		
1.18 mm	78			3		
0.6 mm	73			5		
0.425 mm	71			2		
0.3 mm	69			2		
0.15 mm	67			2		
0.075 mm	62			5		

Atterberg Limit (AS1289 3.1.2 & 3.2	Min	Max	
Sample History	Oven Dried		
Preparation Method	Dry Sieve		
Liquid Limit (%)	96		
Plastic Limit (%)	26		
Plasticity Index (%)	70		

Linear Shrinkage (AS1289 3.4.1)		Min	Max
Moisture Condition Determined By	AS 1289.3.1.2		
Linear Shrinkage (%)	14.5		
Cracking Crumbling Curling	nbling Curling Cracking & Curling		

Report Number: GSSW1879-1



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Ground Science

Latitude : -37.884814

Ground Science South West

10 Dowsett St, South Geelong, Victoria 3220

Phone: (03) 5282 1566

Excavator : Yanmar VIO17

Excavator Supplier : Supplied By Client

Logged By : MK

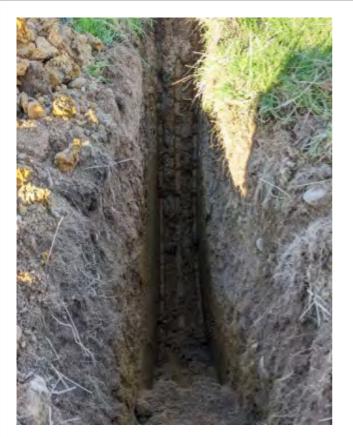
 Job Number
 : GSSW1879

 Client
 : SMEC AUSTRALIA PTY LTD

 Project
 : EGSC COMPOST FACILITY

Latitude	: -37.8 le : 147.0			Excavator Supplier: Supplied By Client Logged By : MK Project	: SMEC AUSTRALIA PTY LTD : EGSC COMPOST FACILITY			
				Reviewed By : Location				
	n Not S oth : 1.5m							
TOTAL DEL	Jui : 1.5m			Date : 18/05/2023 Loc Con	iment:			
								Samples
چ	=	50	Classification Code	_ E		ر د		
DCP graph	Depth (m)	Graphic Log	cati	Material Description		Consistency	Moisture	
ĕ	ept	l ë	iji č	Mat		ısis	lois	
		5	Clas	ã .		ខិ	_	
			-					
1			CL	TOPSOIL: gravelly, sandy, silty CLAY, brown, low plasticity, sand fine to coarse grained, grav	vel sub angular to sub rounded fine, soft.	S	М	
				TOPSOIL: gravelly, sandy, silty CLAY, brown, low plasticity, sand fine to coarse grained, grav moist, organics.	, ,			
1	_							
	0.2							
3	0.2		CL	As above, gravel fine to coarse, stiff.		St	M	
			OL	As above, graver line to coarse, suit.		Ot	IVI	
4	-							
3	0. <u>4</u>		011			0.		
			CH	CLAY, trace sand & gravel, orange mottled brown, high plasticity, sand fine to medium gra alluvial deposits).	nined, gravei fine, stiff, moist (interred	St	М	
5	- 0.5			,				
4	-							
"								
4	-							
4								
	0. <u>8</u>							
4			CI	CLAY, trace sand, orange mottled grey, medium plasticity, sand fine to medium grained,	stiff, moist (inferred alluvial deposits).	St	M-D	
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4								
	- 1							
3								
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3								
4								
4								
4								
	-15							
	1.0			TP21 Terminated at 1.5m				
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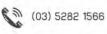












10 Dowsett St. South Geelong, Victoria 3220



admin@groundscience.com.au

Photo Test Pit Photos				
Client	SMEC AUSTRALIA PTY LTD			
Location	FORGE CREEK			
Project name	EGSC CO	MPOST FACIL	.ITY	
Project No	GSSW1879	Scale	Not to Scale	
TP No	TP21	TP Depth	Not Applicable	

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Ground Science

Ground Science South West

10 Dowsett St, South Geelong, Victoria 3220

Phone: (03) 5282 1566

_atitude	. 27	85153		Excavator : Yanmar VIO17 Excavator Supplier : Ground Science South West	Job Number Client	: GSSW1879 : SMEC AUSTRALIA PTY LTD			
-autuue -ongitude				Excavator Supplier: Ground Science South West Logged By: MK	Project	: EGSC COMPOST FACILITY			
Elevation				Reviewed By :	Location	: FORGE CREEK			
Total Dept	h : 1.5m			Date : 18/05/2023	Loc Commen	t:			
									Samples
덡	Ê	Log	Classification Code	ial ion			ncy	2	
DCP graph	Depth (m)	Graphic Log	Sifica	Material Description			Consistency	Moisture	
8	ă	B.	Clas	Des			S	Σ	
1									
.			CL	TOPSOIL: gravelly, sandy, silty CLAY, brown, low plasticity, sand fine to soft to firm, moist, org	o coarse grained, gravel : ganics.	sub angular to sub rounded fine,	S-F	М	
2									
2	0.2								
			CL	As above, grey brown, fine to coarse sized g	ravei, firm to stiff, dry to r	noist.	F-St	D-M	
3									
3	0. <u>4</u>		СН	CLAV trace and 9 gravel grange mettled brown high placticity can	d fine to modium grained	graval fine stiff maint (informed	St	М	
	0.5		СП	CLAY, trace sand & gravel, orange mottled brown, high plasticity, sand alluvial deposits	s).	graver line, still, moist (illiened	31	IVI	
4	0.5								
5									
4									
5	0.8		СН	CLAY, with sand & gravel, grey mottled orange/red, high plasticity, sand fi	ine to coarse grained gra	wel cub angular medium to coarse	St	М	
			OII	stiff, moist (inferred Haunted Hills Fo	ormation residual soil).	iver sub angular medium to coarse,	01	lwi	
4									
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	1.5								
				TP22 Terminated	at 1.5m				
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Photo description	Test Pit Photos				
Client	SMEC AU	STRALIA PTY	LTD		
Location	FOR	RGE CREEK			
Project name	EGSC CO	MPOST FACIL	.ITY		
Project No	GSSW1879	Scale	Not to Scale		
TP No	TP22	TP Depth	Not Applicable		

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part of a plan First percease 99 de Feste Planning and Environment Act 1987 No. The 230 cument must not be used for any purpose which may breach any copyright.

Ground Science

: -37.885287

Latitude

Ground Science South West

10 Dowsett St, South Geelong, Victoria 3220

Phone: (03) 5282 1566

Excavator : Yanmar VIO17

Excavator Supplier : Ground Science South West

Client : SMEC AUSTRALIA PTY LTD
Project : EGSC COMPOST FACILITY

Job Number : GSSW1879

Longitud Elevation				Logged By Reviewed By	: MK :		Project Location	: EGSC COMPOST FACILITY : FORGE CREEK			
Total Dep				Date	: 19/05/2023		Loc Commen				
DCP graph	Depth (m)	Graphic Log	Classification Code			Material Description			Consistency	Moisture	Samples Bulk Sample
1		0	CL	TODCOIL avenuelly	condu ciltu CLAV brown lo		a grained gravel	out angular to out rounded fine	s	М	Bul
1	-		CL	TOPSOIL: gravelly, s	sandy, siity CLAY, drown, io	soft, moist, organics.	e grained, gravei	sub angular to sub rounded fine,	3	IM	
2	0. <u>2</u> _		CL			rown, fine to coarse sized grave			F	D-M	
3	0. <u>4</u>		СН	CLAY, trace sand & g	gravel, orange mottled brown	n, high plasticity, sand 13% fine alluvial deposits).	e to coarse graine	d, gravel 2%, stiff, moist (inferred	St	M	
4 5	- 0.5					. ,					
5	-										
6	-										
5	- 1										
4	-										
3	-										
4	-										
	- 1.5 -				7	TP23 Terminated at 1.5	m				1879-S18
	-										
	-										
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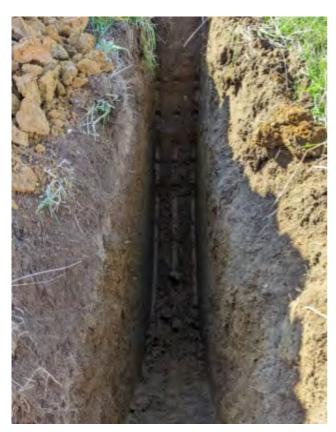










Photo description	Test Pit Photos			
Client	SMEC AUSTRALIA PTY LTD			
Location	FORGE CREEK			
Project name	EGSC COMPOST FACILITY			
Project No	GSSW1879	Scale	Not to Scale	
TP No	TP23	TP Depth	Not Applicable	

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Material Test Report

GSSW1879-1 **Report Number:**

Issue Number:

Date Issued: 21/06/2023

Client: SMEC AUSTRALIA PTY LTD

4/727 Collins St, Docklands Victoria 3008 GSSW1879

Project Number: Project Name: GEOTECHNICAL INVESTIGATION EGSC COMPOST FACILITY

Project Location: FORGE CREEK

Work Request: 15787 Sample Number: 1879-S18 Date Sampled: 19/05/2023

Dates Tested: 24/05/2023 - 08/06/2023

Sampling Method: AS 1289.1.2.1 6.5.4 - Machine excavated pit or trench

Remarks: Material classified as per AS 1726:2017

TP23, Depth: 0.4m - 1.5m Sample Location:

Material:

CH - CLAY, trace sand & gravel, orange mottled brown, high plasticity, sand 13% fine to coarse grained, gravel 2%, stiff, moist (inferred

alluvial deposits).

	1	
ı	NATA	
ì		
v	VORLD RECOGNISED	

10 Dowsett Street South Geelong Vic 3220 Phone: (03) 5282 1566

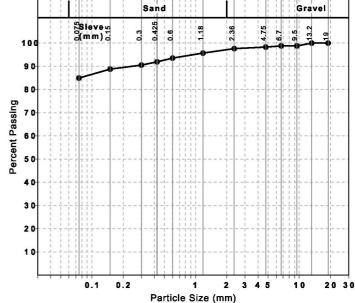
Email: chrism@groundscience.com.au

Ground Science South West Pty Ltd

Accredited for compliance with ISO/IEC 17025 - Testing

Approved Signatory: Chris Mamalis Laboratory Manager NATA Accredited Laboratory Number: 20109

Parti	cle	Size	Dis	tribu	utic	'n
						_



Particle Size	Distribution (A	S1289 3	3.6.1)			
Sieve	Passed %	Passir Limits	ıg	Retained %	Retain Limits	ed
19 mm	100			0		
13.2 mm	100			0		
9.5 mm	99			1		
6.7 mm	99			0		
4.75 mm	98			0		
2.36 mm	98			1		
1.18 mm	96			2		
0.6 mm	94			2		
0.425 mm	92			2		
0.3 mm	91			1		
0.15 mm	89			2		
0.075 mm	85			4		

Atterberg Limit (AS1289 3.1.2 & 3.2	2.1 & 3.3.1)	Min	Max
Sample History	Oven Dried		
Preparation Method	Dry Sieve		
Liquid Limit (%)	88		
Plastic Limit (%)	27		
Plasticity Index (%)	61		

Linear Shrinkage (AS1289 3.4.1)		Min	Max
Moisture Condition Determined By	AS 1289.3.1.2		
Linear Shrinkage (%)	12.5		
Cracking Crumbling Curling	Cracking & Curling		

Report Number: GSSW1879-1

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Environment Act 1987 No has personal be used for any purpose which may breach any copyright.

: SMEC AUSTRALIA PTY LTD

: EGSC COMPOST FACILITY

Job Number : GSSW1879

Client

Project

Ground Science

Latitude : -37.885511

Longitude : 147.619229

Ground Science South West

10 Dowsett St, South Geelong, Victoria 3220

Phone: (03) 5282 1566

Excavator : Yanmar VIO17

Excavator Supplier : Ground Science South West

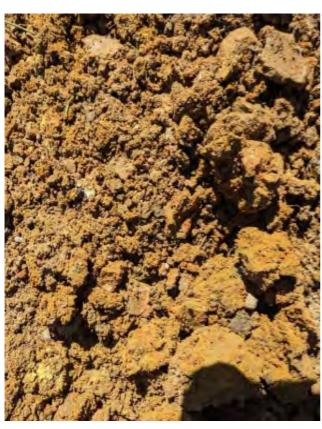
Logged By : MK

Elevation	n NotS	urveyed		Reviewed By : Location : FORGE CREEK			
Total De	pth : 1.5m			Date : 19/05/2023			Samples
DCP graph	Depth (m)	Graphic Log	Classification Code	Material Description	Consistency	Moisture	Bulk Sample
1			CL	TOPSOIL: gravelly, sandy, silty CLAY, brown, low plasticity, sand fine to coarse grained, gravel sub angular to sub rounded fine, soft, moist, organics.	s	М	
2	0. <u>2</u>		CL	As above, grey brown, fine to coarse sized gravel, firm to stiff.	F-St	М	
5	0. <u>4</u> - 0.5		СН	CLAY, trace sand & gravel, orange mottled brown, high plasticity, sand 14% fine to coarse grained, gravel 9% fine to medium, stiff, moist (inferred alluvial deposits).	St	М	
6	-						
6	_						
6	- - 1						
7	1. <u>1</u>		011		7/0411		1879-S19
11	_		СН	CLAY, with sand & gravel, grey mottled orange/red, high plasticity, sand fine to coarse grained, gravel sub angular medium to coarse, very stiff to hard, moist (inferred Haunted Hills Formation residual soil).	VSt-H	М	1073-013
12	<u> </u>						
	1.5			TP24 Terminated at 1.5m			
	-						
	- 2 -						
	- -						
	- 2.5						
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	-						
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1	South Geelong, Victoria 3220
3	admin@groundscience.com.au

Photo description	Test Pit Photos			
Client	STRALIA PTY	LTD		
Location	FORGE CREEK			
Project name	EGSC COMPOST FACILITY			
Project No	GSSW1879	Scale	Not to Scale	
TP No	TP24	TP Depth	Not Applicable	

Material Test Report

GSSW1879-1 **Report Number:**

Issue Number:

Date Issued: 21/06/2023

Client: SMEC AUSTRALIA PTY LTD

4/727 Collins St, Docklands Victoria 3008 GSSW1879

Project Number: Project Name: GEOTECHNICAL INVESTIGATION EGSC COMPOST FACILITY

Project Location: FORGE CREEK

Work Request: 15787 Sample Number: 1879-S19 Date Sampled: 19/05/2023

Dates Tested: 24/05/2023 - 13/06/2023

Sampling Method: AS 1289.1.2.1 6.5.4 - Machine excavated pit or trench

Remarks: Material classified as per AS 1726:2017

Sample Location: TP24, Depth: 0.4m - 1.1m

Material:

CH - CLAY, trace sand & gravel, orange mottled brown, high plasticity, sand 14% fine to coarse grained, gravel 9% fine to medium, stiff, moist (inferred alluvial deposits).

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10 Dowsett Street South Geelong Vic 3220

Phone: (03) 5282 1566

Email: chrism@groundscience.com.au

Accredited for compliance with ISO/IEC 17025 - Testing NATA

> Approved Signatory: Chris Mamalis Laboratory Manager

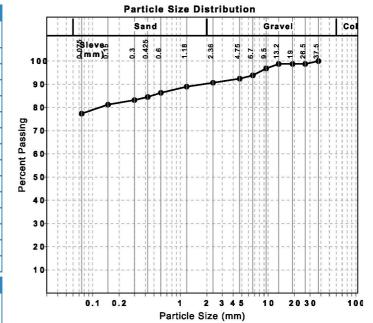
NATA Accredited Laboratory Number: 20109

Particle Size Distribution (AS1289 3.6.1)						
Sieve	Passed %	Passir Limits	ıg	Retained %	Retain Limits	ed
37.5 mm	100			0		
26.5 mm	99			1		
19 mm	99			0		
13.2 mm	99			0		
9.5 mm	97			2		
6.7 mm	94			3		
4.75 mm	92			1		
2.36 mm	91			2		
1.18 mm	89			2		
0.6 mm	86			3		
0.425 mm	85			2		
0.3 mm	83			1		
0.15 mm	81			2		
0.075 mm	77			4		

Atterberg Limit (AS1289 3.1.2 & 3.2	2.1 & 3.3.1)	Min	Max
Sample History	Oven Dried		
Preparation Method	Dry Sieve		
Liquid Limit (%)	78		
Plastic Limit (%)	47		
Plasticity Index (%)	31		

Linear Shrinkage (AS1289 3.4.1)		Min	Max
Moisture Condition Determined By	AS 1289.3.1.2		
Linear Shrinkage (%)	14.0		
Cracking Crumbling Curling	Cracking & 0	Cracking & Curling	

Report Number: GSSW1879-1



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: EGSC COMPOST FACILITY

Ground Science

: -37.885764

: 147.618692

Latitude Longitude **Ground Science South West**

10 Dowsett St, South Geelong, Victoria 3220

: MK

Phone: (03) 5282 1566

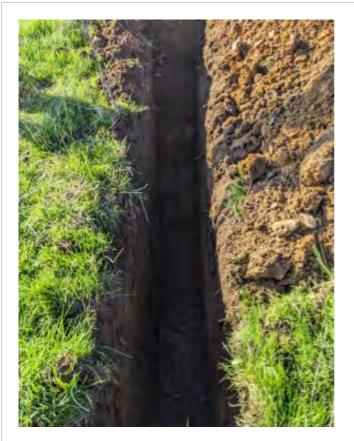
Excavator

Logged By

: Yanmar VIO17 Job Number : GSSW1879 : SMEC AUSTRALIA PTY LTD **Excavator Supplier: Ground Science South West** Client

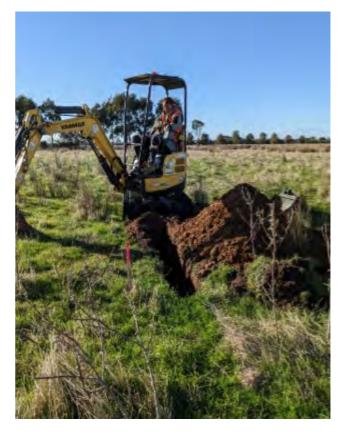
Elevation Not Surveyed Reviewed By Location : FORGE CREEK : 19/05/2023 Total Depth: 1.5m Loc Comment : Samples Classification Code graph Depth (m) Moisture 임 TOPSOIL: gravelly, sandy, silty CLAY, brown, low plasticity, sand fine to coarse grained, gravel sub angular to sub rounded fine, soft, moist, organics 4 As above, grey brown, gravel fine to coarse, stiff. М 3 Natural CLAY, with fine to coarse grained sand, trace fine sized gravel, orange brown, high plasticity, stiff, moist. 4 3 5 7 8 CLAY, with sand & gravel, grey mottled orange/red, high plasticity, sand 24% fine to coarse grained, gravel 26% fine to coarse, very stiff to hard, moist (inferred alluvial deposits). 17 13 8 9 12 1879-S20 gravelly CLAY, with sand, grey mottled orange/red, medium plasticity, gravel sub angular medium to coarse, sand fine to coarse grained, hard, dry (inferred Haunted Hills Formation residual soil). 16 TP25 Terminated at 1.5m - 2.5

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10 Dowsett St. South Geelong, Victoria 3220



Photo description	Test Pit Photos		
Client	SMEC AUSTRALIA PTY LTD		
Location	FORGE CREEK		
Project name	EGSC COMPOST FACILITY		
Project No	GSSW1879	Scale	Not to Scale
TP No	TP25	TP Depth	Not Applicable

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Material Test Report

GSSW1879-1 **Report Number:**

Issue Number:

Project Number:

Date Issued: 21/06/2023

Client: SMEC AUSTRALIA PTY LTD

4/727 Collins St, Docklands Victoria 3008 GSSW1879

Project Name: GEOTECHNICAL INVESTIGATION EGSC COMPOST FACILITY

Project Location: FORGE CREEK

Work Request: 15787 Sample Number: 1879-S20 19/05/2023 Date Sampled:

Dates Tested: 24/05/2023 - 13/06/2023

Sampling Method: AS 1289.1.2.1 6.5.4 - Machine excavated pit or trench

Material classified as per AS 1726:2017 Remarks:

Sample Location: TP25, Depth: 0.8m - 1.3m

Material:

CH - CLAY, with sand & gravel, grey mottled orange/red, high plasticity, sand 24% fine to coarse grained, gravel 26% fine to coarse, very stiff to hard, moist (inferred alluvial deposits).

Accredited for compliance with ISO/IEC 17025 - Testing NATA

Ground Science South West Pty Ltd 10 Dowsett Street South Geelong Vic 3220

Phone: (03) 5282 1566

Email: chrism@groundscience.com.au

Approved Signatory: Chris Mamalis

Laboratory Manager

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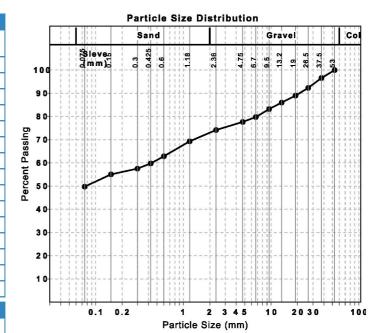
NATA Accredited Laboratory Number: 20109

Particle Size	Distribution (A	S1289 3	3.6.1)			
Sieve	Passed %	Passin Limits	g	Retained %	Retain Limits	ed
53 mm	100			0		
37.5 mm	97			3		
26.5 mm	92			4		
19 mm	89			3		
13.2 mm	86			3		
9.5 mm	83			3		
6.7 mm	80			3		
4.75 mm	78			2		
2.36 mm	74			3		
1.18 mm	69			5		
0.6 mm	63			6		
0.425 mm	60			3		
0.3 mm	58			2		
0.15 mm	55			2		
0.075 mm	50			5		

Atterberg Limit (AS1289 3.1.2 & 3.2	.1 & 3.3.1)	Min	Max
Sample History	Oven Dried		
Preparation Method	Dry Sieve		
Liquid Limit (%)	70		
Plastic Limit (%)	27		
Plasticity Index (%)	43		

Linear Shrinkage (AS1289 3.4.1)		Min	Max
Moisture Condition Determined By	AS 1289.3.1.2		
Linear Shrinkage (%)	12.0		
Cracking Crumbling Curling	Cracking & Curling		

Report Number: GSSW1879-1



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used for any purpose which may breach any copyright.

(m) Ground Science

Ground Science South West

10 Dowsett St, South Geelong, Victoria 3220

Phone: (03) 5282 1566

Job Number : GSSW1879 : SMEC AUSTRALIA PTY LTD

Latitude : -3	37.885686		Excavator : Yanmar VIO17 Excavator Supplier : Ground Science South West	Job Number : GSSW1879 Client : SMEC AUSTRALIA PTY LTD
Longitude : 14			Logged By : MK	Project : EGSC COMPOST FACILITY
Elevation No Total Depth : 1.5			Reviewed By : Date : 19/05/2023	Location : FORGE CREEK Loc Comment :
Total Boptil : 1.			1.15/05/2020	Samples
DCP graph Depth (m)	Graphic Log	Classification Code	Material Description	Consistency
1		CL	TOPSOIL: gravelly, sandy, silty CLAY, brown, low plasticity, sand fine to moist, organ	o coarse grained, gravel sub angular to sub rounded fine, soft, S M ics.
2 0.2		CL	As above, grey brown, gravel	fine to coarse.
2 0.5 2 0.5 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		CH	CLAY, trace sand & gravel, orange mottled brown, high plasticity, sand alluvial depos	fine to medium grained, gravel fine, firm to stiff, moist (inferred F-St M
-2.5			TP26 Terminated	

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(03) 5282 1566



10 Dowsett St. South Geelong, Victoria 3220



admin@groundscience.com.au

Photo description	Test Pit Photos			
Client	SMEC AU	STRALIA PTY	LTD	
Location	FORGE CREEK			
Project name	EGSC COMPOST FACILITY			
Project No	GSSW1879	Scale	Not to Scale	
TP No	TP26	TP Depth	Not Applicable	

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Ground Science

Latitude : -37.883339 Longitude : 147.618684 **Ground Science South West**

10 Dowsett St, South Geelong, Victoria 3220

Phone: (03) 5282 1566

 Excavator
 : Yanmar VIO17
 Job Number
 : GSSW1879

 Excavator Supplier : Ground Science South West
 Client
 : SMEC AUSTRALIA PTY LTD

 Logged By
 : MK
 Project
 : EGSC COMPOST FACILITY

Elevation Total Dep	n Not S pth : 3m	urveyed		Reviewed By : Location : FORGE CREEK Date : 18/05/2023 Loc Comment :			
DCP graph	Depth (m)	Graphic Log	Classification Code	Material	Consistency	Moisture	Bulk Sample
1	_		CL	TOPSOIL: gravelly, sandy, silty CLAY, brown, low plasticity, sand fine to coarse grained, gravel sub angular to sub rounded fine, soft to firm, moist, organics.	S-F	М	
3	0. <u>2</u>		CL	As above, stiff, dry to moist.	St	D-M	
4 4 5 5 6 6 7 8 9 9	_ 0.4 _ 0.5 		CI	sandy CLAY, orange mottled grey, medium plasticity, sand 44% fine to coarse grained, stiff to very stiff, dry to moist (inferred alluvial deposits).	St-VSt	D-M	
	- 2 ²		СН	sandy CLAY, trace gravel, grey mottled red/orange, high plasticity, sand fine to coarse grained, gravel fine, hard, dry to moist (inferred Haunted Hills Formation residual soil).	Н	D-M	1879-S21, 1879-S25
	- 3			PTP01 Terminated at 3m			
	- - - 3.5 - -						

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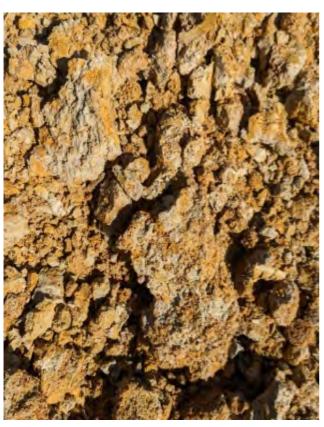






Photo description	Leachate Pond Test Pit Photos				
Client	SMEC AUSTRALIA PTY LTD				
Location	FORGE CREEK				
Project name	EGSC COMPOST FACILITY				
Project No	GSSW1879	Scale	Not to Scale		
TP No	LPTP01	TP Depth Applie			

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Material Test Report

GSSW1879-1 **Report Number:**

Issue Number:

Date Issued: 21/06/2023

Client: SMEC AUSTRALIA PTY LTD

4/727 Collins St, Docklands Victoria 3008 GSSW1879 **Project Number:**

Project Name: GEOTECHNICAL INVESTIGATION EGSC COMPOST FACILITY

Project Location: FORGE CREEK

Work Request: 15787 Sample Number: 1879-S21 Date Sampled: 18/05/2023

Dates Tested: 24/05/2023 - 08/06/2023

Sampling Method: AS 1289.1.2.1 6.5.4 - Machine excavated pit or trench

Remarks: Material classified as per AS 1726:2017

Sample Location: LPTP01, Depth: 0.4m - 2.0m

CI - sandy CLAY, orange mottled grey, medium plasticity, sand 44% fine to coarse grained, stiff to very stiff, dry to moist (inferred alluvial Material:

deposits).

NATA		1
V	N	ATA
	-	

Email: chrism@groundscience.com.au Accredited for compliance with ISO/IEC 17025 - Testing

Ground Science South West Pty Ltd

Phone: (03) 5282 1566

10 Dowsett Street South Geelong Vic 3220

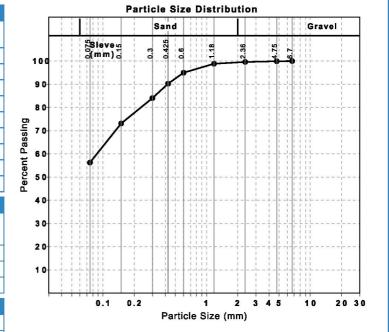
Approved Signatory: Chris Mamalis Laboratory Manager

NATA Accredited Laboratory Number: 20109

Particle Size I	Distribution (AS	S1289 3	3.6.1)			
Sieve	Passed %	Passir Limits	g	Retained %	Retain Limits	ed
6.7 mm	100			0		
4.75 mm	100			0		
2.36 mm	100			0		
1.18 mm	99			1		
0.6 mm	95			4		
0.425 mm	90			5		
0.3 mm	84			6		
0.15 mm	73			11		
0.075 mm	56			17		

Atterberg Limit (AS1289 3.1.2 & 3.2	Min	Max	
Sample History	Oven Dried		
Preparation Method	Dry Sieve		
Liquid Limit (%)	40		
Plastic Limit (%)	12		
Plasticity Index (%)	28		

Linear Shrinkage (AS1289 3.4.1)		Min	Max
Moisture Condition Determined By	AS 1289.3.1.2		
Linear Shrinkage (%)	9.5		
Cracking Crumbling Curling	Cracking & (Curling	



Material Test Report

GSSW1879-1 **Report Number:**

Issue Number:

Date Issued: 21/06/2023

Client: SMEC AUSTRALIA PTY LTD

4/727 Collins St, Docklands Victoria 3008

Project Number: GSSW1879

Project Name: GEOTECHNICAL INVESTIGATION EGSC COMPOST FACILITY

Project Location: FORGE CREEK

Work Request: 15787 Sample Number: 1879-S21 Date Sampled: 18/05/2023

Oversize Material (mm)

Oversize Material (%)

Oversize Material Included

Report Number: GSSW1879-1

Dates Tested: 24/05/2023 - 19/06/2023

Sampling Method: AS 1289.1.2.1 6.5.4 - Machine excavated pit or trench

Remarks: Material classified as per AS 1726:2017

Sample Location: LPTP01, Depth: 0.4m - 2.0m

CI - sandy CLAY, orange mottled grey, medium plasticity, sand 44% fine to coarse grained, stiff to very stiff, dry to moist (inferred alluvial Material:

19

Excluded

0.0

California Bearing Ratio (AS 1289 6.1.1 &	2.1.1)	Min	Max
CBR taken at	2.5 mm		
CBR %	4.5		
Method of Compactive Effort	Stan	dard	
Method used to Determine MDD	AS 1289 5	.1.1 & :	2.1.1
Method used to Determine Plasticity	Visual As	sessm	ent
Maximum Dry Density (t/m³)	1.77		
Optimum Moisture Content (%)	16.5		
Laboratory Density Ratio (%)	99.0		
Laboratory Moisture Ratio (%)	97.5		
Dry Density after Soaking (t/m³)	1.74		
Field Moisture Content (%)			
Moisture Content at Placement (%)	16.2		
Moisture Content Top 30mm (%)	19.1		
Moisture Content Rest of Sample (%)	16.9		
Mass Surcharge (kg)	4.5		
Soaking Period (days)	4		
Curing Hours	361.8		
Swell (%)	1.0		

Sample remoulded as per Vic Roads Code of Practice RC 500.16

Dry Density - Moisture Relationship (AS 1289 5.*	1.1 & 2.1.1)	Min	Max
Mould Type	1 LITRE MOULD A		
Compaction	Standard		
Maximum Dry Density (t/m ³)	1.77		
Optimum Moisture Content (%)	16.5		
Oversize Sieve (mm)	19.0		
Oversize Material Wet (%)	0		
Method used to Determine Plasticity	Visual As	sessme	nt
Curing Hours (h)	143.5		

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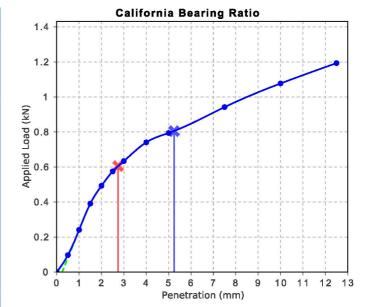
> Ground Science South West Pty Ltd 10 Dowsett Street South Geelong Vic 3220

> > Phone: (03) 5282 1566

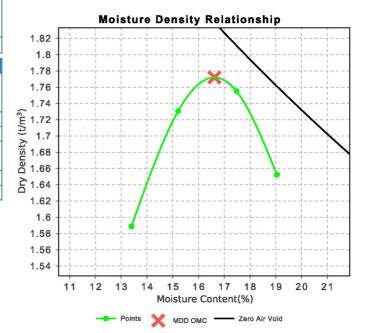
Email: chrism@groundscience.com.au Accredited for compliance with ISO/IEC 17025 - Testing

NATA

Approved Signatory: Chris Mamalis Laboratory Manager NATA Accredited Laboratory Number: 20109



Results # 2.5 # 5 --- Tangent





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GroundScience

A C N 105 704 078

13 Brock Street Thomastown VIC, P 03 9464 4617 Email reception@groundscience.com.au

Client :	Ground	Science South West Pty Ltd	Job No.	GS6742/1
Project:	GSSW1	879	Report No.	DM
Location:	Forge (Creek	Test date:	20-Jun-23
Sample number		#S159		
Borehole / test pit		LPTP01		
Depth, m		0.4m - 2.0m		
Sample diameter	mm	63.26		
Sample height	mm	63.18		
Specimen wet density	t/m3	2.022		
Specimen dry density	t/m3	1.73		
Moisture content	%	16.8		
Cell pressure	kPa	560		
Inlet pressure	kPa	520		
Outlet pressure	kPa	500		
Mean effective stress	kPa	50		
Hydraulic head	kPa	20		
Saturation	%	98		
PERMEABILITY	m/sec	1.E-10		
Water type		de-aired - filtered		
Specimen description		CLAY, medium to high plasticity, bro	wn	
Notes:		Sample remoulded to a target of 98% SN	ADD @ OMC	
Notes.		MDD =	1.77 t/m3	
		OMC =	16.6 %	
Comments		Density Ratio = Sampled by client, tested as received MDD and OMC Supplied by client	98 %	
_			- 2 - 22	
NATA		edited Laboratory No. 15055 for compliance with ISO/IEC 17025 - Testing	Date of issue 27/06/2023	
ACCREDITED FOR TECHNICAL			Aaron Stuart	
COMPETENCE			Approved Signatory	



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GroundScience

A C N 105 704 078

13 Brock Street Thomastown VIC, P 03 9464 4617 Email reception@groundscience.com.au

Client :	Ground	Science South West Pty Ltd	Job No.	GS6742/1
Project:	GSSW1879		Report No.	DW
Location:	Forge (Creek	Test date:	20-Jun-23
Sample number		#S159		
Borehole / test pit		LPTP01		
Depth, m		0.4m - 2.0m		
Sample diameter	mm	63.26		
Sample height	mm	63.18		
Specimen wet density	t/m3	2.022		
Specimen dry density	t/m3	1.73		
Moisture content	%	16.8		
Cell pressure	kPa	560		
Inlet pressure	kPa	520		
Outlet pressure	kPa	500		
Mean effective stress	kPa	50		
Hydraulic head	kPa	20		
Saturation	%	98		
PERMEABILITY	m/sec	9.E-11		
Water type		50,000ppm NaCl Solution		
Specimen description		CLAY, medium to high plasticity, bro	own	
Notes:		Sample remoulded to a target of 98% S	MDD @ OMC	
110.000.		MDD =	1.77 t/m3	
		OMC =	16.6 %	
Comments		Density Ratio = Sampled by client, tested as received	98 %	
		MDD and OMC Supplied by client		
			Date of issue	
NATA	NATA Accr	edited Laboratory No. 15055	27/06/2023	
		for compliance with ISO/IEC 17025 - Testing		
ACCREDITED FOR TECHNICAL COMPETENCE			Aaron Stuart	
			Approved Signatory	

Ground Science South West
10 Dowsett St. South Geelong, Victoria 3

10 Dowsett St, South Geelong, Victoria 3220 Phone: (03) 5282 1566

220

 Latitude
 : 37.883403
 Excavator Supplier : Ground Science South West
 Client
 : SMEC AUSTRALIA PTY LTD

 Longitude
 : 147.618488
 Logged By
 : MK
 Project
 : EGSC COMPOST FACILITY

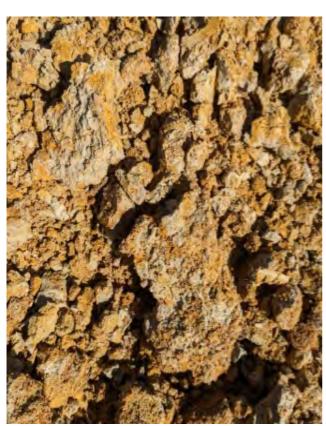
 Elevation
 Not Surveyed
 Reviewed By
 : Control
 Location
 : FORGE CREEK

Elevation Total Dep		Surveyed		Reviewed By : Location : FORGE CREEK Date : 18/05/2023 Loc Comment :			
DCP graph	Depth (m)	Graphic Log	Classification Code	Material Description	Consistency	Moisture	Samples Bulk Sample
1 2			CL	TOPSOIL: gravelly, sandy, silty CLAY, brown, low plasticity, sand fine to coarse grained, gravel sub angular to sub rounded fine, soft to firm, moist, organics.	S-F	М	
2 2 2 2 2 2	0.2		СН	CLAY, trace sand & gravel, orange mottled brown, high plasticity, sand fine to medium grained, gravel fine, firm to stiff, moist (inferred alluvial deposits).	F-St	М	
3 3 4 3 3	0. <u>75</u>		CI	CLAY, trace sand, orange mottled grey, medium plasticity, sand fine to medium grained, stiff, dry to moist (inferred alluvial deposits).	St	D-M	
-	2.5		CH	sandy CLAY, grey mottled red/orange, high plasticity, sand 56% fine to coarse grained, stiff, dry to moist (inferred Haunted Hills Formation residual soil).	St	D-M	
	3.5			PTP02 Terminated at 3m			1879-S22

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10 Dowsett St. South Geelong, Victoria 3220



admin@groundscience.com.au

Photo description	Leachate Pond Test Pit Photos				
Client	SMEC AUSTRALIA PTY LTD				
Location	FORGE CREEK				
Project name	EGSC COMPOST FACILITY				
Project No	GSSW1879	Scale	Not to Scale		
TP No	LPTP01	TP Depth	Not Applicable		

Material Test Report

GSSW1879-1 **Report Number:**

Issue Number:

Project Name:

Date Issued: 21/06/2023

Client: SMEC AUSTRALIA PTY LTD

4/727 Collins St, Docklands Victoria 3008

GSSW1879 **Project Number:** GEOTECHNICAL INVESTIGATION EGSC COMPOST FACILITY

Project Location: FORGE CREEK

Work Request: 15787 Sample Number: 1879-S22 18/05/2023 Date Sampled:

Report Number: GSSW1879-1

Dates Tested: 24/05/2023 - 07/06/2023

Sampling Method: AS 1289.1.2.1 6.5.4 - Machine excavated pit or trench

Remarks: Material classified as per AS 1726:2017

Sample Location: LPTP02, Depth: 1.2m - 3.0m

Material:

CH - sandy CLAY (organics), grey mottled red/orange, high plasticity, sand 56% fine to coarse grained, stiff, dry to moist (inferred Haunted Hills Formation residual soil).

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Environment Act 1987. The document must not b	е
used for any purpose which may breach any copyri	ght.
Ground Science South West Pty Ltd	

10 Dowsett Street South Geelong Vic 3220

Phone: (03) 5282 1566

Email: chrism@groundscience.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



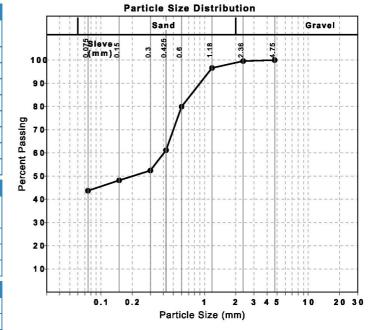
Approved Signatory: Chris Mamalis Laboratory Manager

NATA Accredited Laboratory Number: 20109

Particle Size Distribution (AS1289 3.6.1)							
Sieve	Passed %	Passing Limits		Retained %	Retain Limits	ed	
4.75 mm	100			0			
2.36 mm	100			0			
1.18 mm	97			3			
0.6 mm	80			17			
0.425 mm	61			19			
0.3 mm	52			9			
0.15 mm	48			4			
0.075 mm	44			4			

Atterberg Limit (AS1289 3.1.2 & 3.2	2.1 & 3.3.1)	Min	Max
Sample History	Oven Dried		
Preparation Method	Dry Sieve		
Liquid Limit (%)	61		
Plastic Limit (%)	20		
Plasticity Index (%)	41		

Linear Shrinkage (AS1289 3.4.1)		Min	Max
Moisture Condition Determined By	AS 1289.3.1.2		
Linear Shrinkage (%)	12.0		
Cracking Crumbling Curling	Curlin	a	



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Material Test Report

GSSW1879-1 **Report Number:**

Issue Number:

Date Issued: 21/06/2023

Client: SMEC AUSTRALIA PTY LTD

4/727 Collins St, Docklands Victoria 3008

Project Number: GSSW1879 **Project Name:** GEOTECHNICAL INVESTIGATION EGSC COMPOST FACILITY

Project Location: FORGE CREEK

Work Request: 15787 Sample Number: 1879-S22 Date Sampled: 18/05/2023

Dates Tested: 24/05/2023 - 19/06/2023

Sampling Method: AS 1289.1.2.1 6.5.4 - Machine excavated pit or trench

Remarks: Material classified as per AS 1726:2017

Sample Location: LPTP02. Depth: 1.2m - 3.0m

CH - sandy CLAY (organics), grey mottled red/orange, he sand 56% fine to coarse grained, stiff, dry to moist (infer Material:

Hills Formation residual soil).

	NATA
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	WORLD RECOGNISE
high plasticity, rred Haunted	

Ground Science South West Pty Ltd 10 Dowsett Street South Geelong Vic 3220

Phone: (03) 5282 1566

Email: chrism@groundscience.com.au

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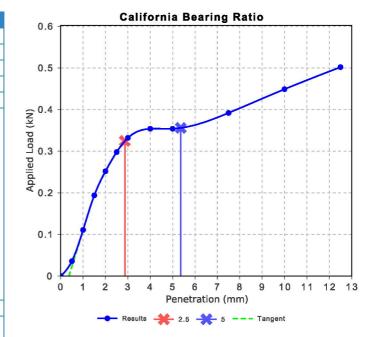
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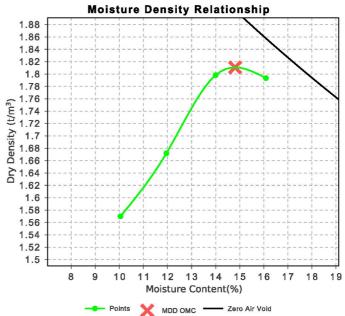
Approved Signatory: Chris Mamalis Laboratory Manager NATA Accredited Laboratory Number: 20109

California Bearing Ratio (AS 1289 6.1.1 &	2.1.1)	Min	Max
CBR taken at	2.5 mm		
CBR %	2.5		
Method of Compactive Effort	Star	dard	
Method used to Determine MDD	AS 1289 5	.1.1 &	2.1.1
Method used to Determine Plasticity	Visual As	sessm	ent
Maximum Dry Density (t/m³)	1.81		
Optimum Moisture Content (%)	15.0		
Laboratory Density Ratio (%)	98.0		
Laboratory Moisture Ratio (%)	99.5		
Dry Density after Soaking (t/m ³)	1.73		
Field Moisture Content (%)			
Moisture Content at Placement (%)	14.8		
Moisture Content Top 30mm (%)	21.3		
Moisture Content Rest of Sample (%)	16.1		
Mass Surcharge (kg)	4.5		
Soaking Period (days)	4		
Curing Hours	361.8		
Swell (%)	2.5		
Oversize Material (mm)	19		
Oversize Material Included	Excluded		
Oversize Material (%)	0.0		
Sample remoulded as per Vic Roads Code	of Practice R	C 500.	16

Dry Density - Moisture Relationship (AS 1289 5.	Min	Max	
Mould Type	1 LITRE MOULD A		
Compaction	Standard		
Maximum Dry Density (t/m ³)	1.81		
Optimum Moisture Content (%)	15.0		
Oversize Sieve (mm)	19.0		
Oversize Material Wet (%)	0		
Method used to Determine Plasticity	Visual As	sessme	nt
Curing Hours (h)	151.4		

Report Number: GSSW1879-1





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Planning and

: SMEC AUSTRALIA PTY LTD

Job Number : GSSW1879

Client

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Ground Science

: -37.883536

Latitude

Ground Science South West

10 Dowsett St, South Geelong, Victoria 3220

Phone: (03) 5282 1566

Excavator : Yanmar VIO17

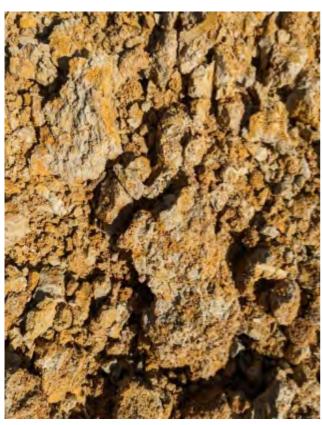
Excavator Supplier : Ground Science South West

Longitude Elevation Total Dep	Not S			Logged By Reviewed By Date	: MK : : 18/05/2023		Project Location Loc Commer	: EGSC COMPOST FACILITY : FORGE CREEK at :			
											Samples
DCP graph	Depth (m)	Graphic Log	Classification Code			Material Description			Consistency	Moisture	Bulk Sample
1 2	-		CL	TOPSOIL: gravelly, san	ndy, silty CLAY, brown, low plastic	ticity, sand fine to coarse gra firm, moist, organics.	ined, gravel sub	o angular to sub rounded fine, soft to	S-F	М	
3 3	0. <u>2</u>		СН	CLAY, trace sand & gra	avel, orange mottled brown, high	h plasticity, sand fine to med alluvial deposits).	um grained, gra	avel fine, firm to stiff, moist (inferred	F-St	М	
2	- 0.5 - 0. <u>7</u>										
2 2 2	- - - 1		CI	CLAY, trace sand, o	orange mottled grey, medium pla	lasticity, sand fine to medium	grained, firm, r	noist (inferred alluvial deposits).	F	М	
2	- 1, <u>2</u>		СН	sandy CLAY, trace gr	yravel, grey mottled red/orange, h	high plasticity, sand 54% fine aunted Hills Formation residu	to coarse grain	ned, gravel 1%, firm to stiff, moist	F-St	М	
3	- 1.5 - 1.5 		CH			oove, grey mottled orange, s			St	м	1879-S23
-	- - -		9		, 3 33.	ore, grey money or ange, o			G.		
-	-3 - - - - 3.5				PTF	P03 Terminated at 3m					
-	-										

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10 Dowsett St. South Geelong. Victoria 3220



Photo description	Leachate Pond Test Pit Photos			
Client	SMEC AUSTRALIA PTY LTD			
Location	FORGE CREEK			
Project name	EGSC COMPOST FACILITY			
Project No	GSSW1879	Scale	Not to Scale	
TP No	LPTP01	TP Depth	Not Applicable	

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Material Test Report

GSSW1879-1 **Report Number:**

Issue Number:

Date Issued: 21/06/2023

Client: **SMEC AUSTRALIA PTY LTD**

4/727 Collins St, Docklands Victoria 3008

GSSW1879 **Project Number: Project Name:** GEOTECHNICAL INVESTIGATION EGSC COMPOST FACILITY

Project Location: FORGE CREEK

Work Request: 15787 Sample Number: 1879-S23 18/05/2023 Date Sampled:

Report Number: GSSW1879-1

Dates Tested: 24/05/2023 - 08/06/2023

Sampling Method: AS 1289.1.2.1 6.5.4 - Machine excavated pit or trench

Remarks: Material classified as per AS 1726:2017

Sample Location: LPTP03, Depth: 1.2m - 2.5m

CH - sandy CLAY, trace gravel, grey mottled red/orange, high plasticity, sand 54% fine to coarse grained, gravel 1%, firm to stiff, moist (inferred Haunted Hills Formation residual soil). Material:

NATA

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Ground Science South West Pty Ltd 10 Dowsett Street South Geelong Vic 3220

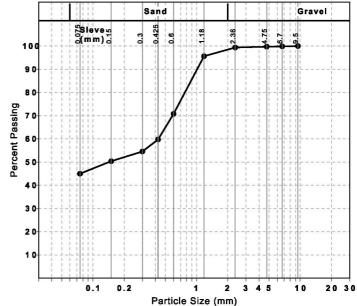
Phone: (03) 5282 1566

Email: chrism@groundscience.com.au

Accredited for compliance with ISO/IEC 17025 - Testing

Approved Signatory: Chris Mamalis Laboratory Manager NATA Accredited Laboratory Number: 20109

Particle Size Distribution



Particle Size Distribution (AS1289 3.6.1)							
Sieve	Passed %	Passing Limits		Retained %	Retained Limits		
9.5 mm	100			0			
6.7 mm	100			0			
4.75 mm	100			0			
2.36 mm	99			0			
1.18 mm	96			4			
0.6 mm	71			25			
0.425 mm	60			11			
0.3 mm	55			5			
0.15 mm	50			4			
0.075 mm	45			5			

Atterberg Limit (AS1289 3.1.2 & 3.2.1 & 3.3.1)			Max
Sample History	Oven Dried		
Preparation Method	Dry Sieve		
Liquid Limit (%)	52		
Plastic Limit (%)	16		
Plasticity Index (%)	36		

Linear Shrinkage (AS1289 3.4.1)		Min	Max
Moisture Condition Determined By	AS 1289.3.1.2		
Linear Shrinkage (%)	9.0		
Cracking Crumbling Curling	Curling		

Material Test Report

GSSW1879-1 **Report Number:**

Issue Number:

Date Issued: 21/06/2023

Client: **SMEC AUSTRALIA PTY LTD**

4/727 Collins St, Docklands Victoria 3008

Project Number: GSSW1879

Project Name: GEOTECHNICAL INVESTIGATION EGSC COMPOST FACILITY

Project Location: FORGE CREEK

Work Request: 15787 Sample Number: 1879-S23 Date Sampled: 18/05/2023

Dates Tested: 24/05/2023 - 19/06/2023

Sampling Method: AS 1289.1.2.1 6.5.4 - Machine excavated pit or trench

Remarks: Material classified as per AS 1726:2017

Sample Location: LPTP03, Depth: 1.2m - 2.5m

CH - sandy CLAY, trace gravel, grey mottled red/orange, high plasticity, sand 54% fine to coarse grained, gravel 1%, firm to stiff, moist (inferred Haunted Hills Formation residual soil). Material:

California Bearing Ratio (AS 1289 6.1.1 &	2.1.1)	Min	Max
CBR taken at	2.5 mm		
CBR %	3.0		
Method of Compactive Effort	Star	dard	
Method used to Determine MDD	AS 1289 5	.1.1 & :	2.1.1
Method used to Determine Plasticity	Visual As	sessm	ent
Maximum Dry Density (t/m³)	1.83		
Optimum Moisture Content (%)	15.0		
Laboratory Density Ratio (%)	98.0		
Laboratory Moisture Ratio (%)	101.0		
Dry Density after Soaking (t/m ³)	1.77		
Field Moisture Content (%)			
Moisture Content at Placement (%)	15.0		
Moisture Content Top 30mm (%)	17.7		
Moisture Content Rest of Sample (%)	15.9		
Mass Surcharge (kg)	4.5		
Soaking Period (days)	4		
Curing Hours	361.6		
Swell (%)	1.5		
Oversize Material (mm)	19		
Oversize Material Included	Excluded		
Oversize Material (%)	0.0		
Sample remoulded as per Vic Roads Code	of Practice R	C 500.	16
D. D. W. M. J. B. J. J. (10 (000 E.	(10011)		

Dry Density - Moisture Relationship (AS 1289 5.	Min	Max	
Mould Type	1 LITRE MOULD A		
Compaction	Standard		
Maximum Dry Density (t/m ³)	1.83		
Optimum Moisture Content (%)	15.0		
Oversize Sieve (mm)	19.0		
Oversize Material Wet (%)	0		
Method used to Determine Plasticity	Visual Assessment		
Curing Hours (h)	143.5		

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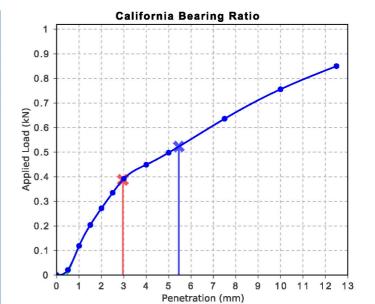
Ground Science South West Pty Ltd 10 Dowsett Street South Geelong Vic 3220

> Phone: (03) 5282 1566 Email: chrism@groundscience.com.au

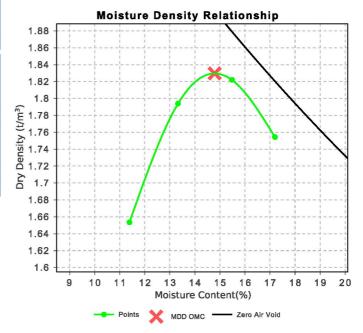
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Approved Signatory: Chris Mamalis Laboratory Manager NATA Accredited Laboratory Number: 20109



Results # 2.5 # 5 --- Tangent



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Ground Science

Latitude : -37.883617

Longitude : 147.618441

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Phone: (03) 5282 1566

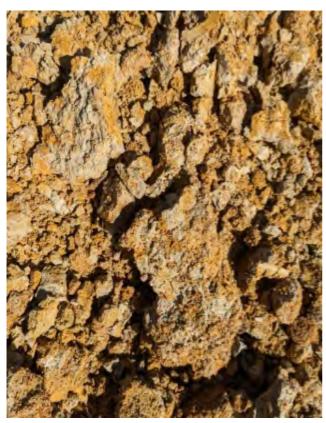
Job Number : GSSW1879 Excavator : Yanmar VIO17 **Excavator Supplier: Ground Science South West** Client : SMEC AUSTRALIA PTY LTD Logged By : MK Project : EGSC COMPOST FACILITY

Elevation Total Dep		urveyed		Reviewed By : Location : FORGE CREEK Date : 18/05/2023 Loc Comment :			
701111 201							Samples
DCP graph	Depth (m)	Graphic Log	Classification Code	Material Description	Consistency	Moisture	Bulk Sample
1 1 1			CL	TOPSOIL: gravelly, sandy, silty CLAY, brown, low plasticity, sand fine to coarse grained, gravel sub angular to sub rounded fine, soft, moist, organics.	S	М	
1	0. <u>25</u> - - - 0.5 0. <u>55</u>		СН	CLAY, trace sand & gravel, orange mottled brown, high plasticity, sand fine to medium grained, gravel fine, soft to firm, moist (inferred alluvial deposits).	S-F	М	
5 6 6 6 6 7 8 7 6	1.5		CL	sandy CLAY, orange mottled grey, low plasticity, sand 35% fine to coarse grained, stiff to very stiff, moist (inferred alluvial deposits).	St-VSt	M	
-	- 2.5 ^{2.5}		СН	sandy CLAY, trace gravel, grey mottled red/orange, high plasticity, sand fine to coarse grained, gravel fine, very stiff to hard, dry (inferred Haunted Hills Formation residual soil).	VSt-H	D	1879-S24, 1879-S26
	-3			PTP04 Terminated at 3m			
-	·						

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Photo description	Leachate Pond Test Pit Photos			
Client	SMEC AUSTRALIA PTY LTD			
Location	FORGE CREEK			
Project name	EGSC CO	MPOST FACIL	.ITY	
Project No	GSSW1879	Scale	Not to Scale	
TP No	LPTP01 TP Depth Applicat			

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Material Test Report

Report Number: GSSW1879-1

Issue Number:

Date Issued: 21/06/2023

Client: SMEC AUSTRALIA PTY LTD

4/727 Collins St, Docklands Victoria 3008

Project Number: GSSW1879

Project Name: GEOTECHNICAL INVESTIGATION EGSC COMPOST FACILITY

Project Location: FORGE CREEK

 Work Request:
 15787

 Sample Number:
 1879-S24

 Date Sampled:
 18/05/2023

Dates Tested: 24/05/2023 - 08/06/2023

Sampling Method: AS 1289.1.2.1 6.5.4 - Machine excavated pit or trench

Remarks: Material classified as per AS 1726:2017

Sample Location: LPTP04, Depth: 0.55m - 2.5m

Material: CH - sandy CLAY, orange mottled grev. high plasticity.

CH - sandy CLAY, orange mottled grey, high plasticity, sand 35% fine to coarse grained, stiff to very stiff, moist (inferred alluvial deposits).

NATA
WORLD RECOGNISED
ACCREDITATION

Ground Science South West Pty Ltd 10 Dowsett Street South Geelong Vic 3220

Phone: (03) 5282 1566

Email: chrism@groundscience.com.au

Accredited for compliance with ISO/IEC 17025 - Testing

Approved Signatory: Chris Mamalis

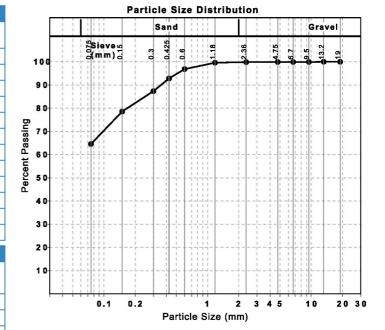
Laboratory Manager

NATA Accredited Laboratory Number: 20109

Particle Size	Distribution (A	S1289 3	3.6.1)			
Sieve	Passed %	Passir Limits	ng	Retained %	Retain Limits	ed
19 mm	100			0		
13.2 mm	100			0		
9.5 mm	100			0		
6.7 mm	100			0		
4.75 mm	100			0		
2.36 mm	100			0		
1.18 mm	100			0		
0.6 mm	97			3		
0.425 mm	93			4		
0.3 mm	87			5		
0.15 mm	79			9		
0.075 mm	65			14		

Atterberg Limit (AS1289 3.1.2 & 3.2.1 & 3.3.1)			Max
Sample History	Oven Dried		
Preparation Method	Dry Sieve		
Liquid Limit (%)	61		
Plastic Limit (%)	18		
Plasticity Index (%)	43		

Linear Shrinkage (AS1289 3.4.1)		Min	Max
Moisture Condition Determined By	AS 1289.3.1.2		
Linear Shrinkage (%)	12.0		
Cracking Crumbling Curling	Cracking & Curling		



Material Test Report

GSSW1879-1 **Report Number:**

Issue Number:

Date Issued: 21/06/2023

Client: **SMEC AUSTRALIA PTY LTD**

4/727 Collins St, Docklands Victoria 3008

Project Number: GSSW1879

Project Name: GEOTECHNICAL INVESTIGATION EGSC COMPOST FACILITY

Project Location: FORGE CREEK

Work Request: 15787 Sample Number: 1879-S24 Date Sampled: 18/05/2023

Dates Tested: 24/05/2023 - 19/06/2023

Sampling Method: AS 1289.1.2.1 6.5.4 - Machine excavated pit or trench

Remarks: Material classified as per AS 1726:2017

Sample Location: LPTP04, Depth: 0.55m - 2.5m

Material:

CH - sandy CLAY, orange mottled grey, high plasticity, sand 35% fine to coarse grained, stiff to very stiff, moist (inferred alluvial deposits).

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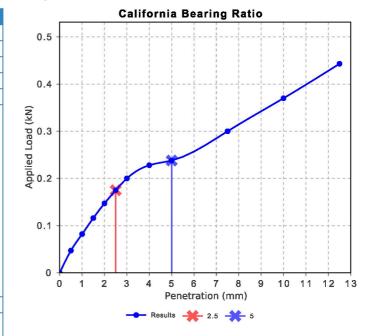


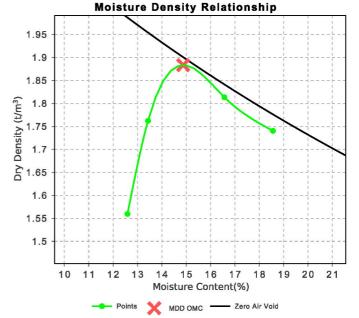
Approved Signatory: Chris Mamalis Laboratory Manager NATA Accredited Laboratory Number: 20109

California Bearing Ratio (AS 1289 6.1.1 &	2.1.1)	Min	Max
CBR taken at	2.5 mm		
CBR %	1.5		
Method of Compactive Effort	Stan	dard	
Method used to Determine MDD	AS 1289 5	1.1 &	2.1.1
Method used to Determine Plasticity	Visual As	sessm	ent
Maximum Dry Density (t/m³)	1.88		
Optimum Moisture Content (%)	15.0		
Laboratory Density Ratio (%)	97.5		
Laboratory Moisture Ratio (%)	97.0		
Dry Density after Soaking (t/m ³)	1.80		
Field Moisture Content (%)			
Moisture Content at Placement (%)	14.4		
Moisture Content Top 30mm (%)	21.1		
Moisture Content Rest of Sample (%)	15.4		
Mass Surcharge (kg)	4.5		
Soaking Period (days)	4		
Curing Hours	361.3		
Swell (%)	2.0		
Oversize Material (mm)	19		
Oversize Material Included	Excluded		
Oversize Material (%)	0.0		
Sample remoulded as per Vic Roads Code	of Practice R	C 500.	16

Dry Density - Moisture Relationship (AS 1289 5.	Min	Max	
Mould Type	1 LITRE MOULD A		
Compaction	Standard		
Maximum Dry Density (t/m ³)	1.88		
Optimum Moisture Content (%)	15.0		
Oversize Sieve (mm)	19.0		
Oversize Material Wet (%)	0		
Method used to Determine Plasticity	Visual As	sessme	nt
Curing Hours (h)	150.8		

Report Number: GSSW1879-1







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A C N 105 704 078

13 Brock Street Thomastown VIC, P 03 9464 4617 Email reception@groundscience.com.au

Client :	Ground	Science South West Pty Ltd	Job No.	GS6742/1
Project:	GSSW1	879	Report No.	DN
Location:	Forge (Test date:	16-Jun-23
Sample number	995	#S160		
Borehole / test pit		LPTP04		
Depth, m		0.55m - 2.5m		
Sample diameter	mm	63.26		
Sample height	mm	63.18		
Specimen wet density	t/m3	2.123		
Specimen dry density	t/m3	1.84		
Moisture content	%	15.4		
Cell pressure	kPa	560		
Inlet pressure	kPa	520		
Outlet pressure	kPa	500		
Mean effective stress	kPa	50		
Hydraulic head	kPa	20		
Saturation	%	98		
Catalation	,,	30		
PERMEABILITY	m/sec	4.E-11		
Water type		de-aired - filtered		
Specimen description		sandy CLAY, medium plasticity, bro	wn	
Notes:		Sample remoulded to a target of 98% Si		
		MDD = OMC =	1.88 t/m3 14.9 %	
		Density Ratio =	98 %	
Comments		Sampled by client, tested as received MDD and OMC Supplied by client		
^			Data of insura	
NATA		edited Laboratory No. 15055 for compliance with ISO/IEC 17025 - Testing	Date of issue 27/06/2023	
ACCREDITED FOR	Accounted	compilation with boying 17020 - Testing	Aaron Stuart	
TECHNICAL COMPETENCE			Approved Signatory	



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13 Brock Street Thomastown VIC, P 03 9464 4617 Email reception@groundscience.com.au

Client : Ground Science South West Pty Ltd			Job No.	GS6742/1
roject: GSSW1879			Report No.	DX
Location: Forge Cre		Creek	Test date:	16-Jun-23
Sample number		#S160		
Borehole / test pit		LPTP04		
Depth, m		0.55m - 2.5m		
Sample diameter	mm	63.26		
Sample height	mm	63.18		
Specimen wet density	t/m3	2.123		
Specimen dry density	t/m3	1.84		
Moisture content	%	15.4		
Cell pressure	kPa	560		
Inlet pressure	kPa	520		
Outlet pressure	kPa	500		
Mean effective stress	kPa	50		
Hydraulic head	kPa	20		
Saturation	%	98		
PERMEABILITY	m/sec	2.E-11		
Water type		50,000ppm NaCl Solution		
Specimen description		sandy CLAY, medium plasticity, brown	wn	
Natara		0		
Notes:		Sample remoulded to a target of 98% St MDD =	иро @ ОМС 1.88 t/m3	
		OMC =	14.9 %	
Comments		Density Ratio = Sampled by client, tested as received	98 %	
		MDD and OMC Supplied by client		
NATA		edited Laboratory No. 15055 for compliance with ISO/IEC 17025 - Testing	Date of issue 27/06/2023	
ACCREDITED FOR TECHNICAL			Aaron Stuart	
COMPETENCE			Approved Signatory	

Material Test Report

GSSW1879-1 **Report Number:**

Issue Number:

Date Issued: 21/06/2023

Client: **SMEC AUSTRALIA PTY LTD**

4/727 Collins St, Docklands Victoria 3008

Project Number: GSSW1879 **Project Name:** GEOTECHNICAL INVESTIGATION EGSC COMPOST FACILITY

Project Location: FORGE CREEK

Work Request: 15787 Sample Number: 1879-S27 19/05/2023 Date Sampled:

Dates Tested: 24/05/2023 - 13/06/2023

Sampling Method: AS 1289.1.2.1 6.5.4 - Machine excavated pit or trench

Material classified as per AS 1726:2017 Remarks:

TP19 + TP24 + TP25 + TP26, Depth: 0.4m - 1.5m Sample Location:

CH - CLAY, with sand & trace gravel, orange mottled brown, high plasticity, sand 16% fine to coarse grained, gravel 10% fine to medium, stiff, moist (inferred alluvial deposits). Material:

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Phone: (03) 5282 1566

Email: chrism@groundscience.com.au

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Approved Signatory: Chris Mamalis Laboratory Manager

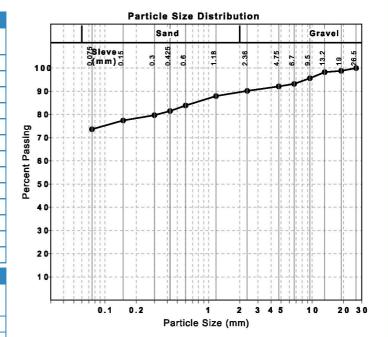
NATA Accredited Laboratory Number: 20109

Particle Size Distribution (AS1289 3.6.1)						
Sieve	Passed %	Passing Limits		Retained %	Retained Limits	
26.5 mm	100			0		
19 mm	99			1		
13.2 mm	98			1		
9.5 mm	96			3		
6.7 mm	93			2		
4.75 mm	92			1		
2.36 mm	90			2		
1.18 mm	88			2		
0.6 mm	84			4		
0.425 mm	81			2		
0.3 mm	80			2		
0.15 mm	77			2		
0.075 mm	74			4		

Atterberg Limit (AS1289 3.1.2 & 3.2	Min	Max	
Sample History Oven Dried			
Preparation Method	Dry Sieve		
Liquid Limit (%)	69		
Plastic Limit (%)	28		
Plasticity Index (%) 41			

Linear Shrinkage (AS1289 3.4.1)		Min	Max
Moisture Condition Determined By	AS 1289.3.1.2		
Linear Shrinkage (%)	12.5		
Cracking Crumbling Curling	Cracking & C	Curling	

Report Number: GSSW1879-1





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13 Brock Street Thomastown VIC, P 03 9464 4617 Email reception@groundscience.com.au

Client :		HEAD (Triaxial method) AS1289 (Science South West Pty Ltd	Job No.	GS6742/1
Project:		•	Report No.	DO
roject: GSSW1879 ocation: Forge Creek			кероп но. Test date:	19-Jun-23
Sample number		#S161	1001 0010	
Borehole / test pit		TP19 + TP24 + TP25 + TP26		
Depth, m		0.4-1.5M		
Sample diameter	mm	63.26		
Sample height	mm	63.10		
Specimen wet density	t/m3	1.839		
Specimen dry density	t/m3	1.43		
Moisture content	%	28.2		
Cell pressure	kPa	560		
Inlet pressure	kPa	520		
Outlet pressure	kPa	500		
Mean effective stress	kPa	50		
Hydraulic head	kPa	20		
Saturation	%	98		
PERMEABILITY	m/sec	3.E-10		
	III/3CU	J.L-10		
Water type		de-aired - filtered		
-				
Specimen description CLAY, med		CLAY, medium to high plasticity, brow	wn, with gravel	
			-	
		0 1	IDD O OLIO	
Notes:		Sample remoulded to a target of 98% SM MDD =	1.46 t/m3	
		OMC =	28.4 %	
O		Density Ratio =	98 %	
Comments		Sampled by client, tested as received MDD and OMC Supplied by client		
_				
NATA			Date of issue	
IVATA		edited Laboratory No. 15055 for compliance with ISO/IEC 17025 - Testing	27/06/2023	7
ACCREDITED FOR TECHNICAL			Aaron Stuart	
COMPETENCE			Approved Signatory	



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13 Brock Street Thomastown VIC, P 03 9464 4617 Email reception@groundscience.com.au

Client : Ground Science South West Pty Ltd			Job No.	GS6742/1
Project:	GSSW1	879	Report No.	DY
Location:	Forge (Creek	Test date:	19-Jun-23
Sample number		#S161		
Borehole / test pit		TP19 + TP24 + TP25 + TP26		
Depth, m		0.4-1.5M		
Sample diameter	mm	63.26		
Sample height	mm	63.10		
Specimen wet density	t/m3	1.839		
Specimen dry density	t/m3	1.43		
Moisture content	%	28.2		
Cell pressure	kPa	560		
Inlet pressure	kPa	520		
Outlet pressure	kPa	500		
Mean effective stress	kPa	50		
Hydraulic head	kPa	20		
Saturation	%	98		
PERMEABILITY	m/sec	2.E-10		
Water type		50,000ppm NaCl Solution		
Specimen description		CLAY, medium to high plasticity, brown	wn, with gravel	
Notes:		Sample remoulded to a target of 98% SM		
110.63.		MDD =	1.46 t/m3	
		OMC =	28.4 %	
Comments		Density Ratio = Sampled by client, tested as received MDD and OMC Supplied by client	98 %	
^		•	Poto of insure	
NATA		edited Laboratory No. 15055 for compliance with ISO/IEC 17025 - Testing	Date of issue 27/06/2023	
ACCREDITED FOR TECHNICAL			Aaron Stuart	
COMPETENCE			Approved Signatory	

Material Test Report

Report Number: GSSW1879-1

Issue Number:

21/06/2023

Date Issued: 21/0

Client: SMEC AUSTRALIA PTY LTD

4/727 Collins St, Docklands Victoria 3008

Project Number: GSSW1879

Project Name: GEOTECHNICAL INVESTIGATION EGSC COMPOST FACILITY

Project Location: FORGE CREEK

Work Request: 15787

Report Number: GSSW1879-1

Dates Tested: 24/05/2023 - 25/05/2023

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Phone: (03) 5282 1566

Email: chrism@groundscience.com.au Accredited for compliance with ISO/IEC 17025 - Testing



Approved Signatory: Chris Mamalis

Laboratory Manager

NATA Accredited Laboratory Number: 20109

pisture Content AS 1289 2.1.1					
Sample Number	Sample Location	Moisture Content (%)	Min	Max	Material
1879-S29	PD01 , Depth: 0.22m	3.5 %	**	**	FILL: GC - sandy, clayey GRAVEL (River Gravel), oran mottled white, sub angular to rounded fine to coarse, lo plasticity, sand 36% fine to coarse grained, dense, dry
1879-S30	PD01 , Depth: 0.95m	18.5 %	**	**	CLAY, trace sand & gravel, orange mottled brown, hig plasticity, sand fine grained, gravel fine, very stiff to hat dry to moist (inferred alluvial deposits).
1879-S31	SD01 , Depth: 0.2m	5.2 %	**	**	FILL: GM-GC - sandy, silty/clayey GRAVEL (River Gravel), orange mottled white, sub angular to rounder fine to coarse, low plasticity, sand 34% fine to coarse grained, dense, dry.
1879-S32	SD01 , Depth: 0.78m	5.7 %	**	**	FILL: GM-GC - sandy, silty/clayey GRAVEL (River Gravel), orange mottled white, sub angular to rounder fine to coarse, low plasticity, sand 34% fine to coarse grained, dense, dry.
1879-S33	PD02 , Depth: 0.21m	3.6 %	**	**	FILL: GM-GC - sandy, silty/clayey GRAVEL (River Gravel), orange mottled white, sub angular to rounde fine to coarse, low plasticity, sand 32% fine to coarse grained, dense, dry.
1879-S34	PD02, Depth: 0.91m	13.9 %	**	**	CLAY, trace sand, orange mottled brown, low plasticit sand fine grained, gravel fine, stiff to very stiff, moist (inferred alluvial deposits).
1879-S35	SD02 , Depth: 0.15m	7.3 %	**	**	sandy, silty/clayey GRAVEL (River Gravel), orange mottled white, sub angular to rounded fine to coarse, lo plasticity, sand fine to coarse grained, dense, dry.
1879-S36	SD02 , Depth: 0.9m	17.2 %	**	**	CLAY, trace sand & gravel, orange mottled brown, hig plasticity, sand fine grained, gravel fine, stiff to very stiding to moist (inferred alluvial deposits).
1879-S37	TP01 , Depth: 1.4m	18.4 %	**	**	CLAY, trace sand, orange mottled grey, medium plasticity, sand fine to medium grained, very stiff to har moist (inferred alluvial deposits).
1879-S38	TP02 , Depth: 1.75m	15.7 %	**	**	CL - CLAY, trace sand, orange mottled grey, low plasticity, sand 10% fine to medium grained, very stiff hard, moist (inferred alluvial deposits).
1879-S39	TP03 , Depth: 1.45m	16.8 %	**	**	CL - CLAY, with sand, trace gravel, orange mottled brown, low plasticity, sand 19% fine to medium graine gravel 1%, firm to stiff, dry to moist (inferred alluvial deposits).
1879-S40	TP04 , Depth: 1.7m	16.8 %	**	**	CI - CLAY, with sand, orange mottled grey, medium plasticity, sand 19% fine to medium grained, stiff to ve stiff, moist (inferred alluvial deposits).
1879-S41	TP05 , Depth: 1.47m	19.1 %	**	**	sandy CLAY, orange mottled grey, medium plasticity sand fine to coarse grained, very stiff to hard, moist (inferred alluvial deposits).
1879-S42	TP06 , Depth: 1.4m	17.0 %	**	**	CLAY, trace sand, orange mottled grey, medium plasticity, sand fine to medium grained, very stiff to har moist (inferred alluvial deposits).
1879-S43	TP07 , Depth: 1.38m	18.1 %	**	**	CLAY, trace sand, orange mottled grey, medium plasticity, sand fine to medium grained, very stiff to har dry to moist (inferred alluvial deposits).
1879-S44	TP08 , Depth: 1.3m	16.5 %	**	**	CLAY, trace sand, orange mottled grey, medium plasticity, sand fine to medium grained, hard, dry to mo (inferred alluvial deposits).

This copied document is made available for the sole purpose of enabling its consideration and review as part of a planning process under the Planning and Sample Number Sample Location Moisture Min Content (%) Environment Actal 987d, Tage document must not be 1879-S45 14.8 % TP09 . Depth: used for any bitty postine to medium avained attith daith reispyright. 1.45m CI - CLAY, with sand, orange mottled grey, medium plasticity, sand 25% fine to medium grained, very stiff to hard, dry to moist (inferred alluvial deposits). 1879-S46 TP10, Depth: 1.5m 15.7 % TP11, Depth: CLAY, trace sand, orange mottled brown, high plasticity, 1879-S47 20.1 % 1.48m sand fine to medium grained, stiff, moist (inferred alluvial deposits). CH - CLAY, trace sand & gravel, orange mottled red/grey, high plasticity, sand 15% fine to medium grained, gravel 8% fine to medium, stiff to very stiff, moist TP12, Depth: 1879-S48 20.1 % 1.55m (inferred alluvial deposits). 1879-S49 TP13, Depth: 1.2m 18.3 % CI - CLAY, with sand, orange mottled brown, medium plasticity, sand 23% fine to medium grained, very stiff to hard, moist (inferred alluvial deposits). CL - sandy CLAY, trace gravel, orange mottled grey, low plasticity, sand 40% fine to coarse grained, gravel 2%, stiff, moist (inferred alluvial deposits). 1879-S50 TP14, Depth: 1.5m 16.3 % CI - sandy CLAY, trace gravel, orange mottled red/grey, medium plasticity, sand 45% fine to coarse grained, gravel 1%, very stiff to hard, dry (inferred Haunted Hills Formation residual soil). 1879-S51 TP15, Depth: 1.2m 13.2 % CLAY, trace sand, orange mottled grey, medium plasticity, sand fine to medium grained, stiff to very stiff, dry to moist (inferred alluvial deposits). 1879-S52 TP16, Depth: 1.2m 14.9 % CLAY, trace sand, orange mottled grey, medium plasticity, sand fine to medium grained, stiff to very stiff, dry to moist (inferred alluvial deposits). 1879-S53 TP17, Depth: 1.3m 14.9 % CLAY, trace sand and gravel, orange mottled brown, high TP18, Depth: 1.4m 1879-S54 26.4 % plasticity, sand fine to medium grained, gravel fine, stiff, moist (inferred alluvial deposits). CLAY, with sand & gravel, grey mottled orange/red, high 1879-S55 TP19, Depth: 1.3m 21.9 % plasticity, sand fine to coarse grained, gravel sub angular medium to coarse, hard, moist (inferred Haunted Hills Formation residual soil). CH - CLAY, with sand & gravel, grey mottled orange/red, high plasticity, sand 20% fine to coarse grained, gravel 18% medium to coarse, hard, moist (inferred Haunted 1879-S56 TP20, Depth: 1.4m 19.1 % Hills Formation residual soil). CLAY, trace sand, orange mottled grey, medium plasticity, sand fine to medium grained, stiff, moist (inferred alluvial deposits). 1879-S57 TP21, Depth: 1.4m 20.5 % 1879-S58 TP22, Depth: 20.8 % CLAY, with sand & gravel, grey mottled orange/red, high 1.45m plasticity, sand fine to coarse grained, gravel sub angular medium to coarse, stiff, moist (inferred Haunted Hills Formation residual soil). CH - CLAY, trace sand & gravel, orange mottled brown, high plasticity, sand 13% fine to coarse grained, gravel 2%, stiff, moist (inferred alluvial deposits). ** 1879-S59 TP23, Depth: 29.3 % CLAY, with sand & gravel, grey mottled orange/red, high plasticity, sand fine to coarse grained, gravel sub angular medium to coarse, very stiff to hard, moist (inferred Haunted Hills Formation residual soil). TP24, Depth: 1879-S60 20.3 % 1.45m 1879-S61 TP25, Depth: 10.5 % gravelly CLAY, with sand, grey mottled orange/red, medium plasticity, gravel sub angular medium to coarse, sand fine to coarse grained, hard, dry (inferred Haunted Hills Formation residual soil). 1.35m TP26, Depth: CLAY, trace sand & gravel, orange mottled brown, high 1879-S62 31.7 % plasticity, sand fine to medium grained, gravel fine, firm to stiff, moist (inferred alluvial deposits). sandy CLAY, trace gravel, grey mottled red/orange, high plasticity, sand fine to coarse grained, gravel fine, very stiff to hard, moist (inferred Haunted Hills Formation PTP01, Depth: 1879-S63 31.6 % 2.1m residual soil) CH - sandy CLAY, grey mottled red/orange, high plasticity, sand 56% fine to coarse grained, stiff, dry to moist(inferred Haunted Hills Formation residual soil). PTP02, Depth: 1879-S64 15.1 % 2.0m 1879-S65 PTP03, Depth: 14.2 % CH - sandy CLAY, trace gravel, grey mottled red/orange, high plasticity, sand 54% fine to coarse grained, gravel 1%, firm to stiff, moist (inferred Haunted Hills Formation 1.8m rèsidual soil).

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