







S. McLean / J. Bertuch K. Aguino

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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

ABN: 51 612 825 313 10 Dowsett Street South Geelong, Vic, 3220 (P) +61 3 5282 1566

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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

This document is detailed for the sole use of the intended recipient(s) or its authorised representatives. Distribution of this report may be carried out at the Clients discretion and must be reproduced in full. Should you have any questions related to this report please do not hesitate to contact the undersigned.

For and on behalf of

Ground Science South West Pty Ltd

AUTHOR:

Michael Knez

Geotechnical Engineer

REVIEWED:

Thomas Seitz

Geotechnical Engineer

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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
Projed:	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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Projed:	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	-	-	-

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Projed:	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 (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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Inh	Intor	mation
,00		madon

Client	SMEC AUSTRALIA PTY LTD (DOCKLAN	DS, VIC)	Job No	GSSW1879
Project	GEOTECHNICAL INVESTIGATION EGS(C 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 initorination			
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	er (mm)	Louis Dossiphios	Lab Reference No.	NMC (%)	Depth (mm)
From	То	Layer Description	Lao Reference No.	INIVIC (70)	Depth (mm)
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

10 Dowsett Street, South Geelong, VIC 3220

Client: SMEC AUSTRALIA PTY LTD (DOCKLANDS, VIC)

Project: GEOTECHNICAL INVESTIGATION EGSC COMPOST FACILITY

Location: FORGE CREEK

Test Number: Test Location: PD01
Datum: 850

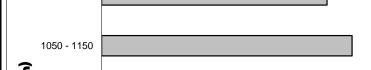
Job No: GSSW1879 Report No: GSSW1879-1 Date Tested: 15/05/2023

Tested By: MK & GD

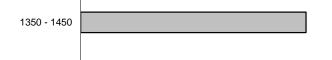
Dynamic Cone Penetrometer (DCP) Profile











1450 - 1550

Notes:

950 - 1050



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

Chris Mamalis

Approved Signatory

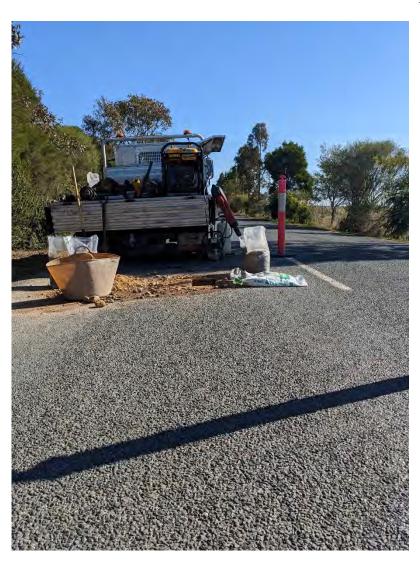
Date 30-Jun-23

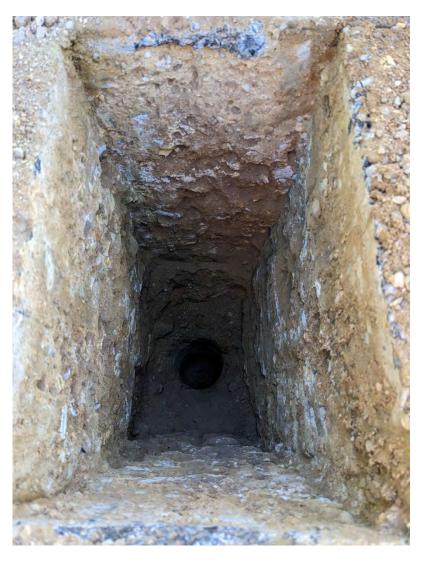


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Site Photographs











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Site Photographs



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

0.15 mm

0.075 mm

17

13

Report Number: GSSW1879-1

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

AS 1289.1.2.1 $6.4\ (\mbox{b})$ - 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

Material: 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.

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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

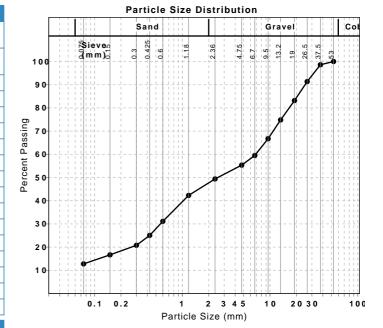
Laboratory Manager NATA Accredited Laboratory Number: 20109

Particle Size I	Distribution (A	\S1141. <i>′</i>	11.1)				
Sample Washing	Sample was Washed						
Sieve	Passed %	Passing Limits		Retained %	Retained Limits		
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			

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		

4

Linear Shrinkage (AS1289 3.4.1)	Min	Max	
Moisture Condition Determined By	AS 1289.3.1.2		
Linear Shrinkage (%)	4.0		
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-S1 Date Sampled: 15/05/2023

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

AS 1289.1.2.1 $6.4\ (\mbox{b})$ - 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

Material: 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.

California Bearing Ratio (AS 1289 6.1.1 & 2	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	2.1.1			
Method used to Determine Plasticity	Visual As	sessme	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/m ³)	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 5.2.1 & 2.1.1) 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	sessmei	nt				
Curing Hours (h)	95.1						

Report Number: GSSW1879-1

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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 WORLD RECOGNISED ACCREDITATION

6

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Applied Load (kN) 4

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2

1

0 0

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

California Bearing Ratio

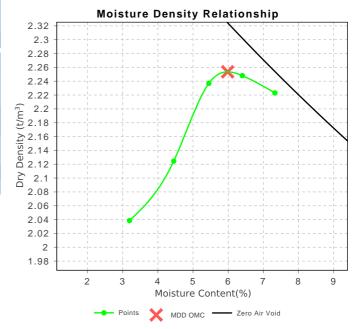
Penetration (mm) Results 2.5 5 --- Tangent

6

8 9 10

11 12 13

3







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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
1 0 1 0	Locally – Steep Slope	Site Code	MS
Drainage	In General – Fair	Drainage Type	RHS: Spoon Drain
•	Locally – Fair, Vegetation	0 01	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 Geelong, VIC 3220

Client: SMEC AUSTRALIA PTY LTD (DOCKLANDS, VIC)

Project: GEOTECHNICAL INVESTIGATION EGSC COMPOST FACILITY

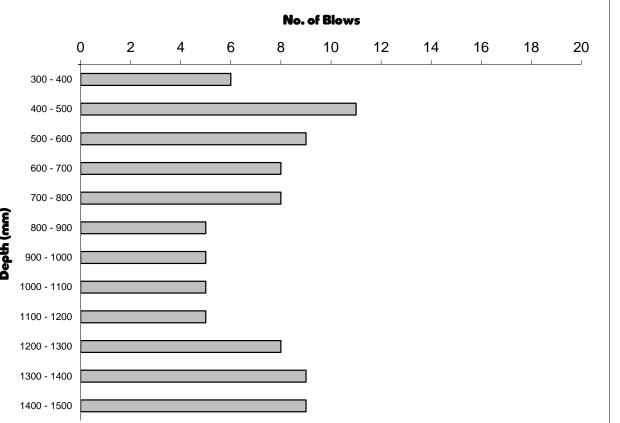
Location: FORGE CREEK

Test Number: Test Location: PD02
Datum: 300

Job No: GSSW1879 Report No: GSSW1879-1 Date Tested: 15/05/2023

Tested By: MK & GD

Dynamic Cone Penetrometer (DCP) Profile



Notes



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

Chris Mamalis

Approved Signatory

Date 30-Jun-23

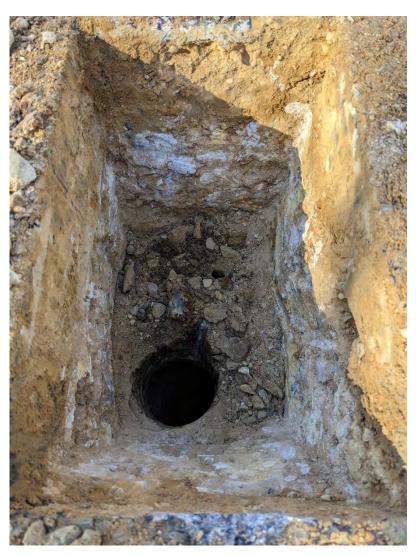


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Site Photographs



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 $6.4\ (\mbox{b})$ - 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

Material: 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.

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Phone: (03) 5282 1566

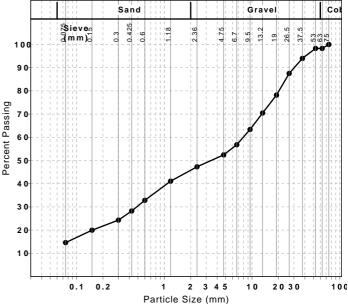
Email: chrism@groundscience.com.au

Accredited for compliance with ISO/IEC 17025 - Testing NATA WORLD RECOGNISED ACCREDITATION

Approved Signatory: Chris Mamalis Laboratory Manager

NATA Accredited Laboratory Number: 20109

Particl	e Size	Distr	ibut	ioi	1
Sand					1 1
2	1111		1 1	1.1	ļ



Particle Size	Distribution (A	51141.11.	. 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

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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-S2 Date Sampled: 15/05/2023

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

AS 1289.1.2.1 $6.4\ (\mbox{b})$ - 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:

Em	ail: chrism@groundscience.com.au
Accredited for compli	ance with ISO/IEC 17025 - Testing
0	
Approved Signatory:	Chris Mamalis
	Laboratory Manager
	Accredited for compli

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

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Email: chrism@groundscience.com.au

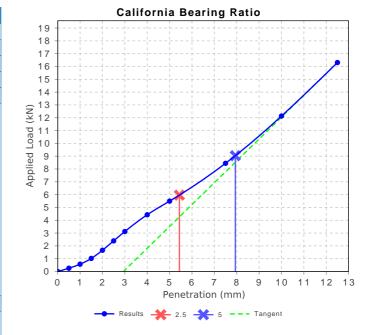
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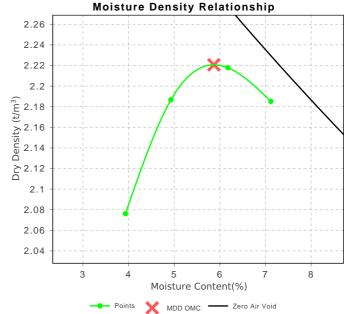
NATA Accredited Laboratory Number: 20109

California Bearing Ratio (AS 1289 6.1.1 & 3	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 & :	2.1.1
Method used to Determine Plasticity	Visual As	sessm	ent
Maximum Dry Density (t/m ³)	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		
Sample remoulded as per Vic Roads Code	of Practice R	C 500.	16

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 Assessment		
Curing Hours (h)	94.9		

Report Number: GSSW1879-1









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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

	to initorination			
To	opography	In General – Undulating	Trees	Shrubs, Small to Large
		Locally – Dip	Site Code	SH
D	rainage	In General – Fair	Drainage Type	RHS: Spoon Drain
		Locally – Fair, Vegetation	0 0.	LHS: Spoon Drain
S	urface 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	Layer (mm)		Lab Reference No.	NMC (%)	Depth (mm)
From	То	Layer 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

Client: SMEC AUSTRALIA PTY LTD (DOCKLANDS, VIC)

Project: GEOTECHNICAL INVESTIGATION EGSC COMPOST FACILITY

Location: 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

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

Que

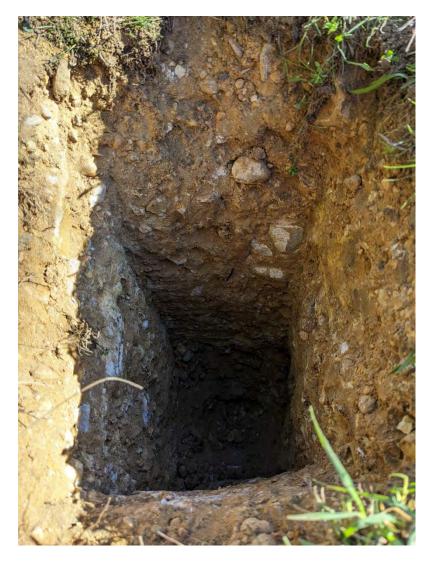


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(P) 03 5282 1566

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-S3

 Date Sampled:
 15/05/2023

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

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

Remarks: Material classified as per AS 1726:2017

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

Material: 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.

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Phone: (03) 5282 1566

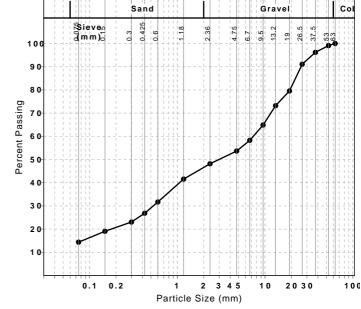
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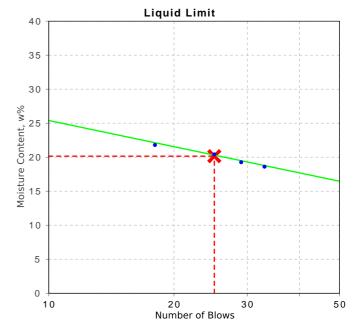
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ACCREDITATION

Approved Signatory: Chris Mamalis

Laboratory Manager NATA Accredited Laboratory Number: 20109

Particle Size Distribution





Particle Size I	Distribution (A	(S1141.11.1)						
Sample Washing		Sample was Washed						
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	2.1 & 3.3.1)	Min	Max
Sample History	Oven Dried		
Preparation Method	Dry Sieve		
Liquid Limit (%)	20		
Plastic Limit (%)	14		
Plasticity Index (%)	6		

Min	Max
ng	
	ng

Report Number: GSSW1879-1

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 $6.4\ (\mbox{b})$ - 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

Material: 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.

California Bearing Ratio (AS 1289 6.1.1 & 2	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/m ³)	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 RO	C 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	sessmei	nt
Curing Hours (h)	94.7		

Report Number: GSSW1879-1

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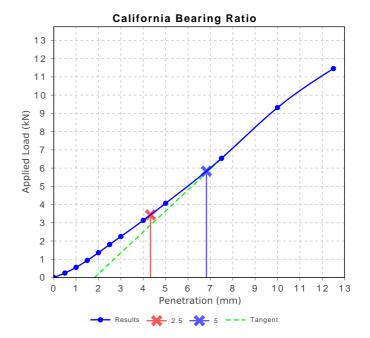
Phone: (03) 5282 1566

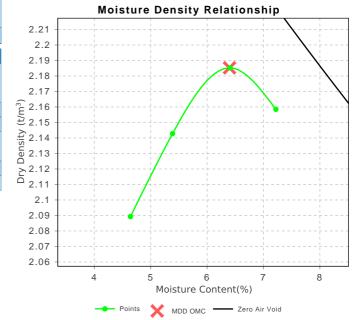
Email: chrism@groundscience.com.au

Accredited for compliance with ISO/IEC 17025 - Testing NATA

WORLD RECOGNISED ACCREDITATION

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









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Job Information

Client	SMEC AUSTRALIA PTY LTD (DOCKI	LANDS, VIC)	Job No	GSSW1879
Project	GEOTECHNICAL INVESTIGATION E	GSC 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)	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.	-	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

Client: SMEC AUSTRALIA PTY LTD (DOCKLANDS, VIC)

Project: GEOTECHNICAL INVESTIGATION EGSC COMPOST FACILITY

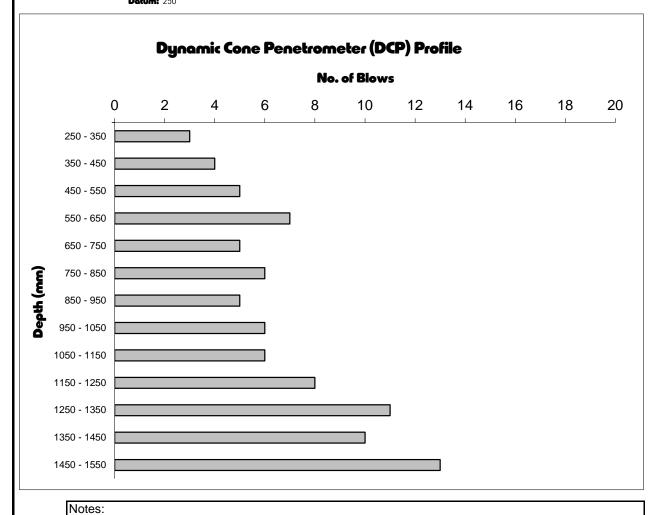
Location: FORGE CREEK

Test Number: Test Location: SD02
Datum: 250

Job No: GSSW1879

Report No: GSSW1879-1 **Date Tested:** 15/05/2023

Tested By: MK & GD



NATA
ACCREDITED FOR
TECHNICAL
COMPETENCE

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 South West

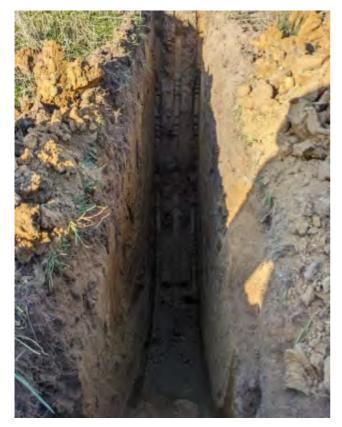
10 Dowsett St, South Geelong, Victoria 3220

Phone: (03) 5282 1566

Excavator : Yanmar VIO17 Excavator Supplier: Ground Science South West Job Number : GSSW1879

Latitude Longitude Elevation				Excavator : Yann Excavator Supplier : Grou Logged By : MK Reviewed By :	mar VIO17 und Science South West	Job Number Client Project Location	: GSSW1879 : SMEC AUSTRALIA PTY LTD : EGSC COMPOST FACILITY : FORGE CREEK			
Total Dept	th : 1.5m	<u> </u>		Date : 16/09	5/2023	Loc Comment	:			Samples
DCP graph	Depth (m)	Graphic Log	Classification Code		Material Description			Consistency	Moisture	Bulk Sample
1 2			CL	TOPSOIL: gravelly, sandy, silty	CLAY, brown, low plasticity, sand fine to firm, moist, o	to coarse grained, gravel sub rganics.	o angular to sub rounded fine, soft	S-F	М	
2										
3	0. <u>3</u>		СН	CLAY, trace sand & grave	el, orange mottled brown, high plasticity (inferred alluvial	r, sand 8% fine grained, gravideposits).	el 1%, stiff to very stiff, moist	St-VSt	М	
	0.5									
5										
5										
6	1									
8										
12	1. <u>25</u>									1879-S4
15			CI	CLAY, trace sand, orange	e mottled grey, medium plasticity, sand alluvial depo	fine to medium grained, very sits).	stiff to hard, moist (inferred	VSt-H	М	1079-34
R	1.5				TP01 Terminate	ed 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 CO	MPOST FACIL	ITY		
Project No	GSSW1879	Scale	Not to Scale		
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 GSSW1879 **Project Number:**

Project Name: GEOTECHNICAL INVESTIGATION EGSC COMPOST FACILITY

Project Location: FORGE CREEK

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

Report Number: GSSW1879-1

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: TP01, Depth: 0.3m - 1.25m

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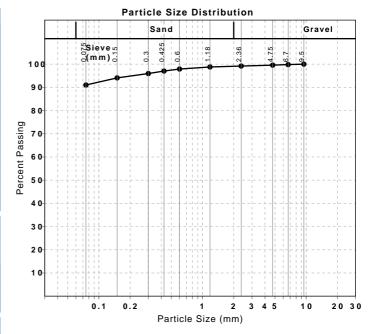
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Approved Signatory: Chris Mamalis Laboratory Manager NATA Accredited Laboratory Number: 20109

Particle Size Distribution (AS1289 3.6.1)						
Sieve	Passed %	Passin 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	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 GSSW1879 **Project Number:**

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

Project Location: FORGE CREEK

Work Request: 15787 Sample Number: 1879-S4 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

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).

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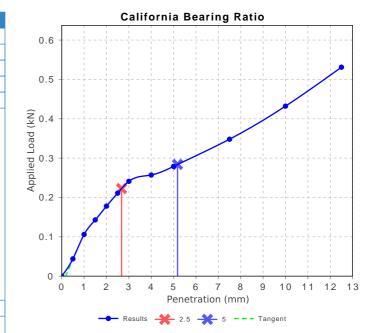
Approved Signatory: Chris Mamalis Laboratory Manager

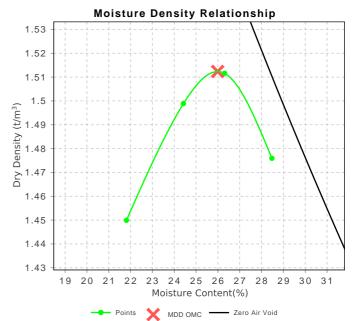
NATA Accredited Laboratory Number: 20109

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	2.1.1
Method used to Determine Plasticity	Visual As	sessme	ent
Maximum Dry Density (t/m ³)	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 Ro	C 500.1	6

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)	1.51		
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

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: -37.879798

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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 AUS

Longitude Elevation		619944		Logged By Reviewed By	: MK	Project Location	: EGSC COMPOST FACILITY : FORGE CREEK			
Total Dep				Date Dy	: 16/05/2023	Loc Comme				
			_							Samples
DCP graph	Depth (m)	Graphic Log	Classification Code		:	Material Description		Consistency	Moisture	Bulk Sample
1	_		CL	TOPSOIL: gravelly, sand	dy, silty CLAY, brown, low plasticity, san to firm, dry to	d fine to coarse grained, gravel s moist, organics.	ub angular to sub rounded fine, soft	S-F	D-M	
2	_									
2	0. <u>25</u> -		СН	CLAY, trace sand & gra	avel, orange mottled brown, high plastici (inferred all	ty, sand fine to medium grained, uvial deposits).	gravel fine, stiff to very stiff, moist	St-VSt	М	
4	-									
5	- 0.5									
4	-									
4 5	-									
5	-									
6	-1									
8	1. <u>15</u>		CL	CLAY, trace sand, ora	nge mottled grey, low plasticity, sand 10	% fine to medium grained, very s	tiff to hard, moist (inferred alluvial	VSt-H	М	
10	-				nge mottled grey, low plasticity, sand 10 de	posits).	·			
19	-									
	- 1.5									
-	-									
-	-									
	_				TP02 ref	usal at 1.8m				1879-S5
	- 2									
	-									
	-									
	-									
	- 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	TP02	2 TP Depth Ap			

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

Project Location: FORGE CREEK

Work Request: 15787 Sample Number: 1879-S5 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: 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).



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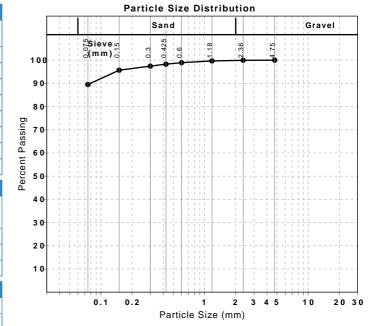
Approved Signatory: Chris Mamalis Laboratory Manager

NATA Accredited Laboratory Number: 20109

Particle Size Distribution (AS1289 3.6.1)						
Sieve	Passed %	Passin Limits	ıg	Retained %	Retain Limits	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	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

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: SMEC AUSTRALIA PTY LTD

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

vation	: 147. Not S	urveyed		Excavator Supplier : Ground Science South West Logged By : MK Reviewed By :	Client Project Location	: SMEC AUSTRALIA PTY LTD : EGSC COMPOST FACILITY : FORGE CREEK			
DCP graph	Depth (m)	Graphic Log	Classification Code	Date : 16/05/2023	Loc Comme	nt :	Consistency	Moisture	Sample Bulk Sample
2			CL	TOPSOIL: gravelly, sandy, silty CLAY, brown, low plasticity, sand fine to	o coarse grained, gravel s	ub angular to sub rounded fine, firm,	F	М	ď
2				moist, organi	ics.				
2	0.3								
	0.3		СН	CLAY, trace sand & gravel, orange mottled brown, high plasticity, san moist (inferred alluvia	d fine to medium grained, il deposits).	gravel fine, stiff to very stiff, dry to	St-VSt	D-M	
	0.5								
	0.0								
_									
4									
\dashv									
+	1								
+	1.1		CL	CLAY, with sand, trace gravel, orange mottled brown, low plasticity, moist (inferred alluvia	sand 19% fine to medium	grained, gravel 1%, hard, dry to	н	D-M	
+									
•	1.5								
-				TP03 Terminated	a at 1.5m				1879-5
-	2								
-	2.5								

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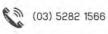














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Photo description					
Client	SMEC AUSTRALIA PTY LTD				
Location	FOF	RGE CREEK			
Project name	EGSC CO	MPOST FACIL	.ITY		
Project No	GSSW1879	Scale	Not to Scale		
TP No	TP03	TP Depth	Not Applicable		

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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-S6

 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: TP03, Depth: 1.1m - 1.5m

Material: 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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Email: chrism@groundscience.com.au

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Approved Signatory: Chris Mamalis
Laboratory Manager

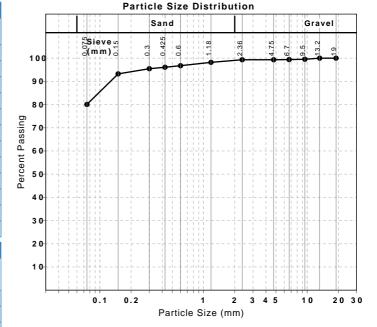
NATA Accredited Laboratory Number: 20109

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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 & 3.2.1 & 3.3.1)			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		



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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-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

moist (inferred alluvial deposits).



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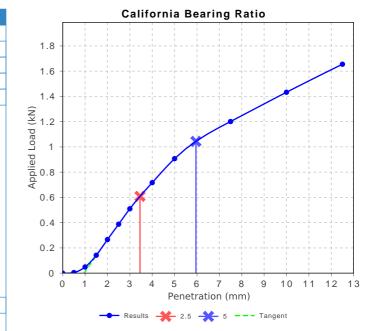
Approved Signatory: Chris Mamalis

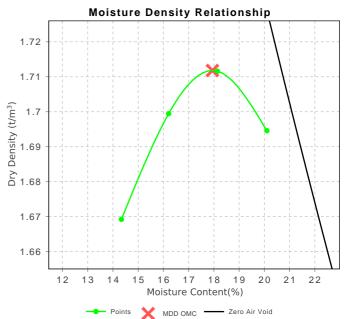
Laboratory Manager NATA Accredited Laboratory Number: 20109

California Bearing Ratio (AS 1289 6.1.1 & :	2.1.1)	Min	Max
CBR taken at	5 mm		
CBR %	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	sessme	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/m ³)	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		
Oversize Material (%)	0.0		
Sample remoulded as per Vic Roads Code	of Practice Ro	C 500.1	6

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)	1.71		
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		

Report Number: GSSW1879-1





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Ground Science South West

10 Dowsett St, South Geelong, Victoria 3220

Phone: (03) 5282 1566

Job Number : GSSW1879

Excavator : Yanmar VIO17 Latitude : -37.879784 **Excavator Supplier: Ground Science South West** Client : SMEC AUSTRALIA PTY LTD Longitude : 147.620746 Logged By : MK Project : EGSC COMPOST FACILITY Elevation Not Surveyed : FORGE CREEK Reviewed By Location

	Not S			Reviewed By : Location : FORGE CREEK			
Total Dep	oth : 1.9m			Date : 16/05/2023			Samples
DCP graph	Depth (m)	Graphic Log	Classification Code	Material Description	Consistency	Moisture	Bulk Sample
2 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	
12	- 0. <u>3</u> - 0.5		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. <u>8</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 - - 1. <u>2</u>						
7 8 13	- - - 1.5 - -		СІ	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 			TP04 refusal at 1.9m			1879-S7

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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	TP04	TP Depth	Not Applicable			

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-S7 Sample Number: 16/05/2023 Date Sampled:

24/05/2023 - 07/06/2023 **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:

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

Particle Size Distribution (AS1289 3.6.1)

Passed %

Report Number: GSSW1879-1

100

Sieve

4.75 mm

CI - CLAY, with sand, orange mottled grey, medium plasticity, sand Material: 19% fine to medium grained, very stiff to hard, moist (inferred

alluvial deposits).

Passing

Limits

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Phone: (03) 5282 1566

Email: chrism@groundscience.com.au

Accredited for compliance with ISO/IEC 17025 - Testing



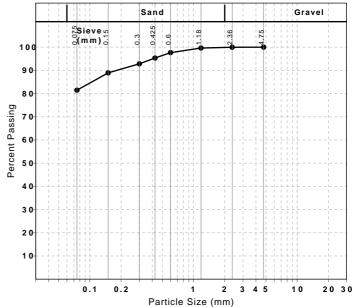
Approved Signatory: Chris Mamalis Laboratory Manager NATA Accredited Laboratory Number: 20109

Retained %	Retain Limits	ed		^{so} Sieve
0			100	0(mm)
0				
0			9 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	
0.15 mm	89		4	
0.075 mm	81		7	

Atterberg Limit (AS1289 3.1.2 & 3.2.1 & 3.3.1)			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		



Particle Size Distribution

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Environment Act 1987 No. 1 hands comment must not be used for any purpose which may breach any copyright.

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	e : 147.6 n Not S			Logged By : MK Project : EGSC COMPOST FACILITY 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	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	0.3		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	- 0.5 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	
6	-						
6 6 7	- 1 - _ 1.2		CI	As above, orange grey, moist.	 VSt-H	· · · · · · · · · · · · · · ·	1879-S8
9	-		G.	As above, drainge grey, moist.	V 36-П	IVI	
	- 1.5 - - -			TP05 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	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

Project Number: GSSW1879

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

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

Material classified as per AS 1726:2017 Remarks:

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

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



Approved Signatory: Chris Mamalis

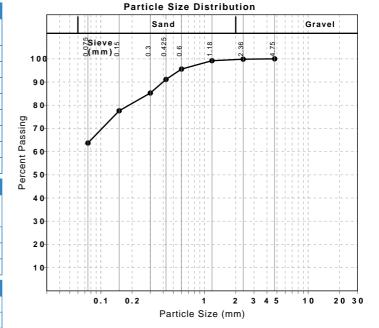
Laboratory Manager

NATA Accredited Laboratory Number: 20109

Particle Size Distribution (AS1289 3.6.1)						
Sieve	Passed %	Passing Limits		Retained %	Retained Limits	
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	Min	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		Wich
Linear Shrinkage (%)	8.0		
Cracking Crumbling Curling	Crackin	ıa	



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

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: TP05, Depth: 0.55m - 1.2m

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



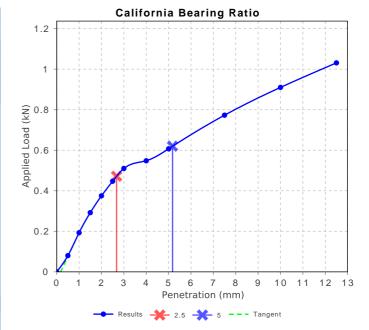
Approved Signatory: Chris Mamalis Laboratory Manager

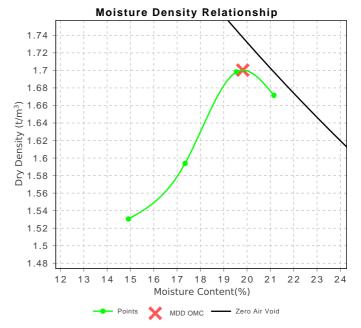
NATA Accredited Laboratory Number: 20109

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 & :	2.1.1
Method used to Determine Plasticity	Visual As	sessm	ent
Maximum Dry Density (t/m ³)	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.	16

Dry Density - Moisture Relationship (AS 1289 5.1	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 As	sessme	nt
Curing Hours (h)	238.2		

Report Number: GSSW1879-1





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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

Logged By

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

	n NotS			Reviewed By : Location : FORGE CREEK			
Total De	pth : 1.5m	· · · · · · · ·		Date : 16/05/2023	1		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 2 2 3 3 3 4 4 4	0.3		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	
11 10 9	1. <u>1</u>		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	
	- 1.5 - - - - 2			TP06 Terminated at 1.5m			
	- - - 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	FOF	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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used for any purpose which may breach any copyright.

Ground Science 10 Dowsett St, S

Latitude : -37.880660

Longitude : 147.620384

Ground Science South West

10 Dowsett St, South Geelong, Victoria 3220

: Yanmar VIO17

Excavator Supplier: Ground Science South West

: MK

Phone: (03) 5282 1566

Excavator

Logged By

Job Number : GSSW1879

Client : SMEC AUSTRALIA PTY LTD

Project : EGSC COMPOST FACILITY

Elevation	n Not S			Reviewed By : Location : FORGE CREEK Date : 16/05/2023 Loc Comment :			
Total Be	Juli : 1.0iii						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 to firm, moist, organics.	S-F	М	
2	-						
2	0. <u>4</u> - 0.5		СН	CLAY, with sand, orange mottled brown, high plasticity, sand 23% fine to medium grained, firm to stiff, moist (inferred alluvial deposits).	F-St	М	
3	-						
4	-						
4	- 1						
7	1. <u>1</u>		CI	CLAY, trace sand, orange mottled grey, medium plasticity, sand fine to medium grained, very stiff, moist (inferred alluvial deposits).	VSt	М	1879-S9
9	-						
	- 1.5			TP07 Terminated at 1.5m			
	- - -						
	- -						
	- - 2.5 -						
	-						

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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	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

Material classified as per AS 1726:2017 Remarks:

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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Phone: (03) 5282 1566

Email: chrism@groundscience.com.au

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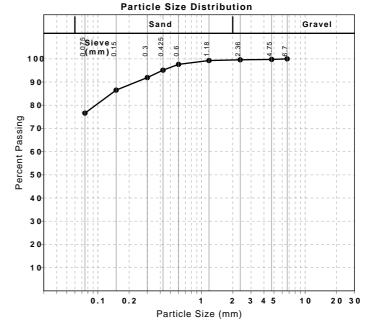
Approved Signatory: Chris Mamalis

Laboratory Manager NATA Accredited Laboratory Number: 20109

Particle Size	Distribution (A	S1289 3	3.6.1)			
Sieve	Passed %	Passin Limits	ıg	Retained %	Retain Limits	ed
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

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-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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Email: chrism@groundscience.com.au

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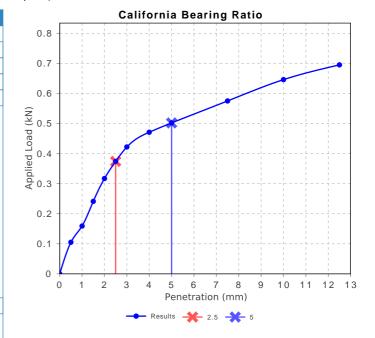
Approved Signatory: Chris Mamalis Laboratory Manager

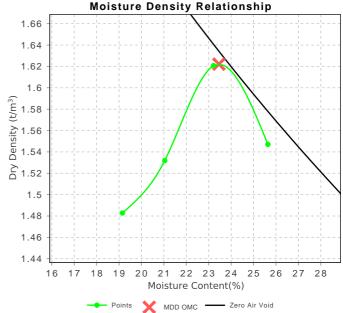
NATA Accredited Laboratory Number: 20109

California Bearing Ratio (AS 1289 6.1.1 &	2.1.1)	Min	Max
CBR taken at	2.5 mm		
CBR %	3.0		
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	sessme	ent
Maximum Dry Density (t/m ³)	1.62		
Optimum Moisture Content (%)	23.5		
Laboratory Density Ratio (%)	98.0		
Laboratory Moisture Ratio (%)	98.5		
Dry Density after Soaking (t/m ³)	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	e of Practice R	C 500.1	6

Dry Density - Moisture Relationship (AS 1289 5.1	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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: SMEC AUSTRALIA PTY LTD

Ground Science

Latitude : -37.880676

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

Latitude	:-37.8 de:147.			Excavator Supplier : Ground Science South West	Client	: SMEC AUSTRALIA PTY LTD			
	n NotS			Logged By : MK Reviewed By :	Project Location	: EGSC COMPOST FACILITY : FORGE CREEK			
TOTAL DE	pth : 1.5m			Date : 16/05/2023	Loc Commen				Committee
									Samples
듄	Ê	о. Б	Classification Code	= e			<u>خ</u>	_Q	
DCP graph	Depth (m)	Graphic Log	icat	Material			Consistency	Moisture	
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"		<u>ه</u> ا	ਠੌ	_			٥		
2									
2			CL	TOPSOIL: gravelly, sandy, silty CLAY, brown, low plasticity, sand fine to coa to stiff, moist, organic:	rse grained, gravel su s.	b angular to sub rounded fine, firm	F-St	М	
3	╁			-					
4	t								
	0. <u>3</u>								
5	l ". <u>s</u>		СН	CLAY, trace sand & gravel, orange mottled brown, high plasticity, sand fine to	medium grained, gra	vel fine, stiff, moist (inferred alluvial	St	М	
			011	deposits).	r moulum gramou, gre	vor mie, ean, meier (meirea anaviai	0,		
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6									
	1 1. <u>02</u>								
10	_		CI	CLAY, trace sand, orange mottled grey, medium plasticity, sand fine to mediu	ım grained, hard, dry	to moist (inferred alluvial deposits).	Н	D-M	
40	.			3 3,7 1 3,7	3 , , ,	, , ,			
13									
14	}								
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R	1.5	7//////		TP08 Terminated at	1 5m				
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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	TP08	TP Depth	Not Applicable				

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Phone: (03) 5282 1566

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

Job Number : GSSW1879 Excavator : Yanmar VIO17 : -37.880903 **Excavator Supplier: Ground Science South West** Client : SMEC AUSTRALIA PTY LTD Latitude Longitude : 147.619857 Logged By : MK Project : EGSC COMPOST FACILITY : FORGE CREEK Elevation Not Surv Location

Elevation	Not S	urveyed		Reviewed By	:	I	ocation : F	FORGE CREEK			
Total Depth	h : 1.5m			Date	: 16/05/2023	I	oc Comment :		_		
											Samples
DCP graph	Depth (m)	Graphic Log	Classification Code			Material Description			Consistency	Moisture	Bulk Sample
1			CL	TOPSOIL: gravell	ly, sandy, silty CLAY, brown, lov fine	v plasticity, sand fine to coarse , soft to firm, moist, organics.	grained, gravel su	ub angular to sub rounded	S-F	М	
2	0. <u>35</u>										
1 0	0.5		СН	sandy CLAY, orange	mottled brown, high plasticity, s	and 36% fine to medium graine	ed, firm to stiff, mo	oist (inferred alluvial deposits).	F-St	М	
2											
2											
3											
3 1	1										
4	1.3										
5	1.3		CI	CLAY, trace sand, oran	inge mottled grey, medium plast	icity, sand fine to medium grair	ed, stiff, dry to m	noist (inferred alluvial deposits)	St	D-M	1879-S10
	1.5										
- - -					IP	09 Terminated at 1.5m					
- 2 - - -	_										
- 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	FORGE CREEK				
Project name	EGSC CO	MPOST FACIL	.ITY		
Project No	GSSW1879	Scale	Not to Scale		
TP No	TP09	TP09 TP Depth			

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

Report Number: GSSW1879-1

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

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

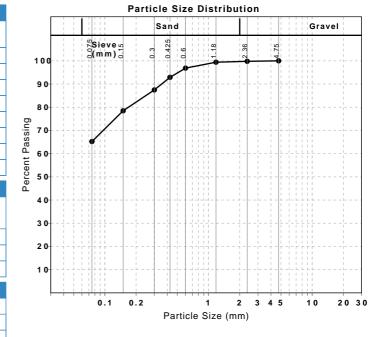
Laboratory Manager

NATA Accredited Laboratory Number: 20109

Particle Size Distribution (AS1289 3.6.1)						
Sieve	Passed %	<u> </u>		Retained %	Retained Limits	
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	Oven Dried		
Preparation Method	Dry Sieve		
Liquid Limit (%)	56		
Plastic Limit (%)	19		
Plasticity Index (%)	37		

Lit	near Shrinkage (AS1289 3.4.1)		Min	Max	
М	oisture Condition Determined By	AS 1289.3.1.2			
Lit	near Shrinkage (%)	12.0			
Cı	racking Crumbling Curling	Cracking & 0	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

California Boaring Batia (AC 1290 6 1 1 9 2 1 1)

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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Phone: (03) 5282 1566

Email: chrism@groundscience.com.au

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NATA Om

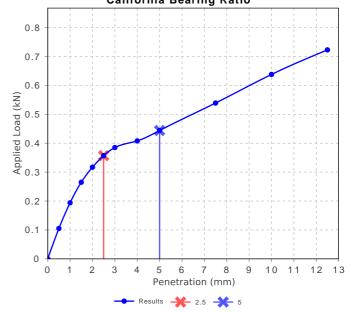
Approved Signatory: Chris Mamalis
Laboratory Manager

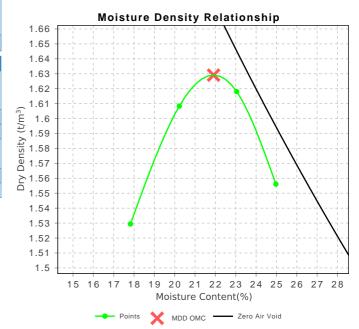
TATION	Laboratory Manager
	NATA Accredited Laboratory Number: 20109
Ca	lifornia Bearing Patio

California Bearing Ratio (AS 1289 6.1.1 &	2.1.1)	IVIIN	IVIAX
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	sessme	ent
Maximum Dry Density (t/m ³)	1.63		
Optimum Moisture Content (%)	22.0		
Laboratory Density Ratio (%)	98.0		
Laboratory Moisture Ratio (%)	99.5		
Dry Density after Soaking (t/m ³)	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 500.1	6

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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Environment Act 1987 No. 14 Approximation of the used for any purpose which may breach any copyright.

Ground Science

: -37.881065

Longitude : 147.620418

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 Reviewed By : Job Number : GSSW1879

Client : SMEC AUSTRALIA PTY LTD

Project : EGSC COMPOST FACILITY

1	n Not S oth : 1.7m			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	
1	0. <u>3</u>						
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	
4	- 0.5 -						
5 10	_ 0. <u>7</u>		CI	CLAV with sand, orange mattled gray, medium plasticity, sand 25% fine to medium grained, very stiff to hard, dry to maist (inferred	VSt-H	D-M	
14	-		U	CLAY, with sand, orange mottled grey, medium plasticity, sand 25% fine to medium grained, very stiff to hard, dry to moist (inferred alluvial deposits).	vol-∏	D-IVI	
8	-						
9	- 1 -						
7							
7	_						
12	- - 1.5						
	-						
		9//////		TP10 refusal at 1.7m			1879-S11
	-						
	-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	TP10	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 GEOTECHNICAL INVESTIGATION EGSC COMPOST FACILITY **Project Name:**

Project Location: FORGE CREEK

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

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: TP10, Depth: 0.7m - 1.7m

Material:

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).



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Phone: (03) 5282 1566

Email: chrism@groundscience.com.au

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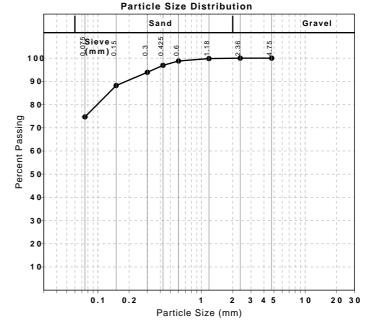
Approved Signatory: Chris Mamalis

Laboratory Manager NATA Accredited Laboratory Number: 20109

Particle Size Distribution (AS1289 3.6.1)						
Sieve	Passed %	Passing Retained % Limits		Retain Limits	ed	
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	Oven Dried		
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	ı	



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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 Project : EGSC COMPOST FACILITY

Latitude	: -37.8 e : 147.6				Ground Science South West MK	Client Project	: SMEC AUSTRALIA PTY LTD : EGSC COMPOST FACILITY			
Elevation				Reviewed By :		Location	: FORGE CREEK			
Total Dep	th : 1.5m			Date :	17/05/2023	Loc Commer	nt:			
										Samples
ے	=	60	e o			_ <u> </u>		₹		
DCP graph	Depth (m)	Graphic Log	Classification Code			Material Description		Consistency	Moisture	
C P	Dept	l ab	Ssif			Mai esci		nsis	Θ	
	_	ō	ຮື			Δ		ŏ		
2										
2			CL	TOPSOIL: gravelly, sand	dy, silty CLAY, brown, low plasticity, soft to firm	sand fine to coarse grained, gravel , moist, organics.	sub angular to sub rounded fine,	S-F	М	
1	-									
1	•									
	0.3									
1			СН	CLAY, trace sand, orange	e mottled brown, high plasticity, sand	I fine to medium grained, soft to fire	n, moist (inferred alluvial deposits).	S-F	М	
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1	- 0.5									
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3	_ U. <u>9</u> _		CH		As a	above, stiff.		St	М	
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Photo description	Test Pit Photos			
Client	SMEC AUSTRALIA PTY LTD			
Location	FORGE CREEK			
Project name	EGSC C	OMPOST FACIL	JTY	
Project No	GSSW1879	Scale	Not to Scale	
TP No	TP11	TP Depth	Not Applicable	

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(m) 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 **Excavator Supplier: Ground Science South West** Logged By : MK

Job Number : GSSW1879 Client

: SMEC AUSTRALIA PTY LTD Project : EGSC COMPOST FACILITY

Elevation	le :147.	urveyed		Logged By : MK Project : EGSC COMPOST FACILITY Reviewed By : Location : FORGE CREEK			
Total Dep				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 rounded fine, soft	S-F	М	
1	-			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.			
2	- 0. <u>3</u>						
4	-		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	- 0.5						
4	-						
5	-						
3	-						
3	-1 ¹						
3	-		CI	CLAY, trace sand, orange mottled grey, medium plasticity, sand fine to medium grained, stiff, dry to moist (inferred alluvial deposits).	St	M-D	
3	-						
3 5	-						
	- 1.5 ^{1.5}		СН	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).	St-VSt	M	
	=			TP12 refusal at 1.7m (Refusal on Rock)			1879-S12
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	=						
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	- 2.5						
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	-						
	-						

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	10 Dowsett St. South Geelong, Victoria 3220

~	South deeling, victoria 3220
3	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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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

Material classified as per AS 1726:2017 Remarks:

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).

NATA WORLD RECOGNISED ACCREDITATION

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Phone: (03) 5282 1566

Email: chrism@groundscience.com.au

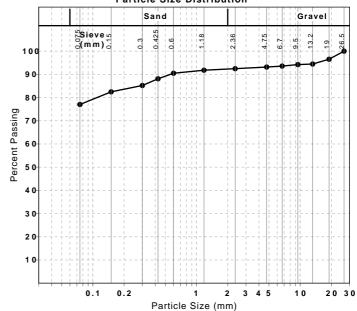
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Approved Signatory: Chris Mamalis

Laboratory Manager NATA Accredited Laboratory Number: 20109

Dortiolo	C:	Dietribution	



Particle Size	Distribution (A	S1289 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	2.1 & 3.3.1)	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 & C	Curling	

Report Number: GSSW1879-1

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Ground Science

Latitude : -37.882501

Longitude : 147.620134

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 : Location : FORGE CREEK

Elevation	n NotS	urveyed		Reviewed By : Location : FORGE CREEK			
Total De	pth : 1.5m			Date : 17/05/2023			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, firm to stiff, moist, organics.	F-St	М	
2							
7	0. <u>3</u>	7/////					
8	<u> </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	
7	- 0.5						
7							
7	-						
6							
7	- 1						
9	<u> </u>						
8							
9							
10	<u> </u>						
	- 1.5			TP13 Terminated at 1.5m			1879-S13
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	- 2.5						
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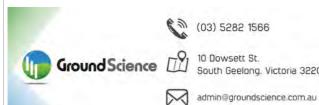




Photo description	Tes	t Pit Photos				
Client	SMEC AUSTRALIA PTY LTD					
Location	FORGE CREEK					
Project name	EGSC CC	MPOST FACIL	.ITY			
Project No	GSSW1879	Scale	Not to Scale			
TP No	TP13	TP Depth	Not Applicable			

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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 Project Number: GSSW1879

Project Name: GEOTECHNICAL INVESTIGATION EGSC COMPOST FACILITY

Project Location: FORGE CREEK

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

Report Number: GSSW1879-1

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

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

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

deposits).



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Phone: (03) 5282 1566

Email: chrism@groundscience.com.au

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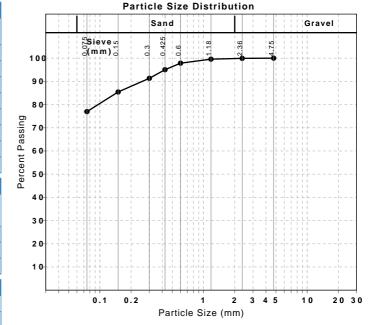
Approved Signatory: Chris Mamalis

Laboratory Manager NATA Accredited Laboratory Number: 20109

Particle Size Distribution (AS1289 3.6.1)								
Sieve	Passed %	Passing Limits		Retained %		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	Atterberg Limit (AS1289 3.1.2 & 3.2.1 & 3.3.1)					
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 & Curling			



Material Test Report

Report Number: GSSW1879-1

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-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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Ground Science South West Pty Ltd.

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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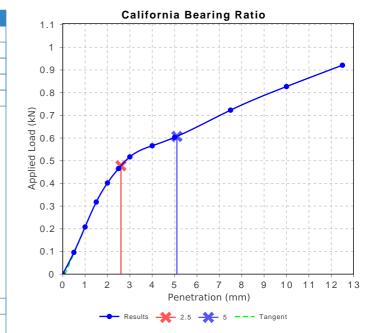
Approved Signatory: Chris Mamalis
Laboratory Manager

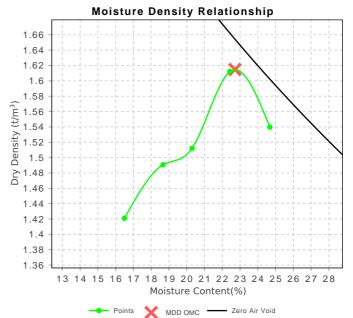
NATA Accredited Laboratory Number: 20109

California Bearing Ratio (AS 1289 6.1.1 &	2.1.1)	Min	Max		
CBR taken at	2.5 mm				
CBR %	3.5				
Method of Compactive Effort	Stan	Standard			
Method used to Determine MDD	AS 1289 5	.1.1 & 2	2.1.1		
Method used to Determine Plasticity	Visual As	sessme	ent		
Maximum Dry Density (t/m ³)	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 500.1	6		

Dry Density - Moisture Relationship (AS 1289 5.1	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 Assessment			
Curing Hours (h)	211.6			

Report Number: GSSW1879-1





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

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** Job Number : GSSW1879 : SMEC AUSTRALIA PTY LTD Client

	le : 147.6	320041		Logged By : M	IK	Project	: EGSC COMPOST FACILITY			
Elevation	n Not So oth : 1.63n	urveyed		Reviewed By : Date : 17	7/05/2023	Location Loc Commer	: FORGE CREEK			
Total Bel	Juli 1 1.0011				170012023	200 001111101				Samples
DCP graph	Depth (m)	Graphic Log	Classification Code		Material Description			Consistency	Moisture	Bulk Sample
2			CL	TOPSOIL: gravelly, sandy, s	silty CLAY, brown, low plasticity, sand fine to to stiff, dry to moist,	coarse grained, gravel su organics.	ub angular to sub rounded fine, firm	F-St	D-M	
2	-									
4	- 0.3									
4	_ 0. <u>3</u>		СН	CLAY, trace sand & grave	el, orange mottled brown, high plasticity, sar alluvial deposi	nd fine to medium grained ts).	gravel fine, stiff, moist (inferred	St	М	
4	_									
4	- 0.5									
4	_									
4										
4										
5	-1 ¹									
5	· -		CL	sandy CLAY, trace gravel	l, orange mottled grey, low plasticity, sand 4 alluvial deposit	0% fine to coarse grained is).	gravel 2%, stiff, moist (inferred	St	М	
6	_									
5	-									
6	-									
-	- 1.5									
	1.6		011	0.47						1879-S14
	_		CH /	CLAY, with sand & gravei, gi	rey mottled orange/red, high plasticity, sand hard, dry (inferred Haunted Hills F TP14 refusal at		avel sub angular medium to coarse,	<u>H</u> /	<u> </u>	1010-011
					ir i i i ciusai a	11.00111				
	- 2									
	-									
	_									
	-									
	- 2.5									
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	-									

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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	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

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

Project Location: FORGE CREEK

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

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: 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).

1
NATA
1
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

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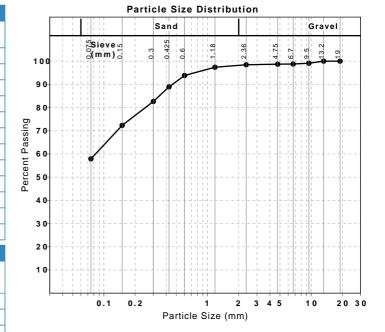
Approved Signatory: Chris Mamalis

Laboratory Manager NATA Accredited Laboratory Number: 20109

Particle Size	Distribution (AS	S1289 3	3.6.1)			
Sieve	Passed %	Passing Limits		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	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 & Crumbling		



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Ground Science

Latitude : -37.883409

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	le : 147.6 n Not Si	319978 urveyed		Excavator Supplier: Ground Science South West Logged By : MK Reviewed By :	Client Project Location	: SMEC AUSTRALIA PTY LTD : EGSC COMPOST FACILITY : FORGE CREEK			
Total Dep	oth : 1.25m	ı 		Date : 17/05/2023	Loc Commen	nt :			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, s to firm, dr	sand fine to coarse grained, gravel su y to moist, organics.	ub angular to sub rounded fine, soft	S-F	D-M	
1	=								
2	- 0. <u>25</u>	,,,,	011	CLAVI.		15		5.4	
2	-		СН	CLAY, trace sand & gravel, orange mottled brown, high plastic allur	city, sand fine to medium grained, gravial deposits).	avel line, stiff, dry to moist (interred	St	D-M	
3	_								
4	- 0.5								
6	0. <u>6</u>		CI	sandy CLAY, trace gravel, orange mottled red/grey, medium pl (inferred Haunted	asticity, sand 45% fine to coarse grai Hills Formation residual soil).	ined, gravel 1%, very stiff to hard, dry	VSt-H	D	
7	-			·	•				
9	=								
13	-								
16	- 1								
20	-								
R									1070 015
	_			TP15 re	efusal at 1.25m				1879-S15
	-								
	- 1.5								
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	-								
	- 2								
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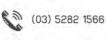












10 Dowsett St. South Geelong, Victoria 3220



Photo description	Test Pit Photos				
Client	SMEC AUSTRALIA PTY LTD				
Location	FORGE CREEK				
Project name	EGSC CO	MPOST FACIL	.ITY		
Project No	GSSW1879	Scale	Not to Scale		
TP No	TP15	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-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:

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

Material:

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).

NATA

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

Particle Size	Distribution (A	S1289 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	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 & Crumbling		

Report Number: GSSW1879-1

Particle Size Distribution Sand Gravel Sieve s 0.425 100 9 0 8 0 Percent Passing 70 6 0 5 0 3 0 2 (0.1 0.2 3 4 5 20 30

Particle Size (mm)

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 - 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

Material: CI - sandy CLAY, trace gravel, orange mottled red/grey, medium

plasticity, sand 45% fine to coarse grained, gravel	
hard, dry (inferred Haunted Hills Formation residua	al soil).

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	sessme	ent
Maximum Dry Density (t/m ³)	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	6

Dry Density - Moisture Relationship (AS 1289 5.1	1.1 & 2.1.1)	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 Assessment			
Curing Hours (h)	176.4			

Report Number: GSSW1879-1

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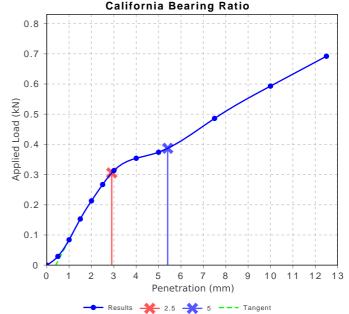
Phone: (03) 5282 1566

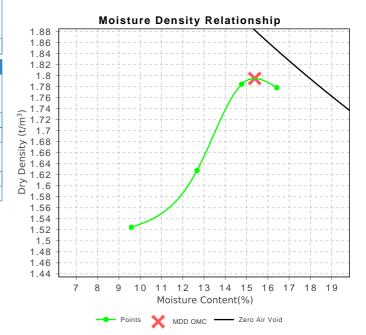
Email: chrism@groundscience.com.au



Approved Signatory: Chris Mamalis Laboratory Manager

NATA Accredited Laboratory Number: 20109





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Ground Science South West Ground Science

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

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

Job Number : GSSW1879 Excavator : Yanmar VIO17 **Excavator Supplier: Ground Science South West** Client : SMEC AUSTRALIA PTY LTD : -37.883871 Latitude Longitude : 147.619890 Logged By : MK Project : EGSC COMPOST FACILITY

Elevation Total Dept				Reviewed By : Location : FORGE CREEK Date : 17/05/2023 Loc Comment :			
			tion		ncy	re	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 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			alluvial deposits).			
3							
3	0.8		CI	CLAY, trace sand, orange mottled grey, medium plasticity, sand fine to medium grained, very to very stiff, dry (inferred alluvial deposits).	St-VSt	D	
4	1						
4							
7							
+	1.5	//////		TP16 Terminated at 1.5m			
-							
-	2						
}							
}	2.5						
-							
-							

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admin@groundscience.com	.al
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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	TP16	TP Depth	Not Applicable			

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Ground Science South West

Ground Science

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Excavator : Yanmar VIO17 Job Number : GSSW1879

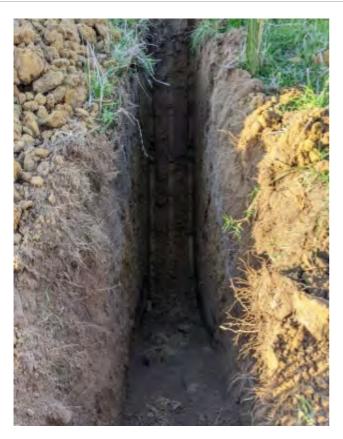
Latitude : -37.884059 Excavator Supplier : Ground Science South West Client : SMEC AUSTRALIA PTY LTD

Longitude : 147.619133 Logged By : MK Project : EGSC COMPOST FACILITY

Elevation Not Surveyed Reviewed By : Compose South West Client : FORGE CREEK

al Depth : 1.	5m		Date : 17/05/2023			Sample
Depth (m)	Graphic Log	Classification Code	Material	Consistency	Moisture	Gumpio
		CL	TOPSOIL: gravelly, sandy, silty CLAY, brown, low plasticity, sand fine to coarse grained, gravel sub angular to sub rounded fine to firm, dry to moist, organics.	e, soft S-F	D-M	
!						
0.		СН	CLAY, trace sand & gravel, orange mottled brown, high plasticity, sand fine to medium grained, gravel fine, very stiff to hard, dr moist (inferred alluvial deposits).	y to VSt-H	D-M	
0.5						
0.						
_		CI	CLAY, trace sand, orange mottled grey, medium plasticity, sand fine to medium grained, very stiff, dry (inferred alluvial deposi	ts). VSt	D	
1						
_						
+						
15						
-			TP17 Terminated at 1.5m			
-						
- 2						
-						
-						
- 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 CO	MPOST FACIL	.ITY			
Project No	GSSW1879	Scale	Not to Scale			
TP No	TP17	TP Depth	Not Applicable			

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Ground Science

: -37.884153

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** Job Number : GSSW1879 : SMEC AUSTRALIA PTY LTD Client

Latitude Longitude Elevation Total Dep	e : 147. Not S	urveyed		Logged By Reviewed By	: Ground Science South West : MK : : 17/05/2023	Client Project Location Loc Commer	: SMEC AUSTRALIA PTY LTD : EGSC COMPOST FACILITY : FORGE CREEK			
			tion					ncy	92	Samples
DCP graph	Depth (m)	Graphic Log	Classification Code			Material Description		Consistency	Moisture	
1 2	-		CL	TOPSOIL: gravelly,	sandy, silty CLAY, brown, low plasticit fine, soft to fi	y, sand fine to coarse grained, grav rm, moist, organics.	vel sub angular to sub rounded	S-F	М	
3	-									
4 5	0. <u>4</u>	////	СН	CLAY, trace sand and	gravel, orange mottled brown, high pla	sticity, sand fine to medium grained	d, gravel fine, stiff, moist (inferred	St	М	
5	- 0.5				gravel, orange mottled brown, high pla alluvi	al deposits).				
5 5	-									
5	-									
5	- 1									
5	-									
4	-									
5	- - 1.5				TD49 Town	ninated at 1.5m				
	-				ir to tell	illitateu at 1.5iii				
-	-									
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	- 2									
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	-									
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	2									

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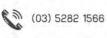












10 Dowsett St. South Geelong, Victoria 3220



Photo description	Test Pit Photos					
Client	SMEC AUSTRALIA PTY LTD					
Location	FORGE CREEK					
Project name	EGSC CO	MPOST FACIL	.ITY			
Project No	GSSW1879	Scale	Not to Scale			
TP No	TP18	TP Depth	Not Applicable			

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Ground Science South West

10 Dowsett St, South Geelong, Victoria 3220

: Yanmar VIO17

Phone: (03) 5282 1566

Excavator

Ground Science

: -37.884433 Longitude : 147.619466

UTM

Latitude

Job Number : GSSW1879

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

evation : N tal Depth : 1.	lot Surveyed		Reviewed By : Location : FORGE CREEK Date : 18/05/2023 Loc Comment :			
tai beptii : 1.	4111		Date : 18/05/2023 Luc 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, firm, dry to moist, organics.	F	D-M	
3 0.	2	CL	As above, fine to coarse sized gravel, stiff, moist.	St	· М	
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 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	M	
4			deposits).			
1						
6 1.	2	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
₹			TP19 refusal at 1.4m			
- 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 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:**

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

Project Location: FORGE CREEK

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

Report Number: GSSW1879-1

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: 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

WORLD RECOGNISED ACCREDITATION

Approved Signatory: Chris Mamalis

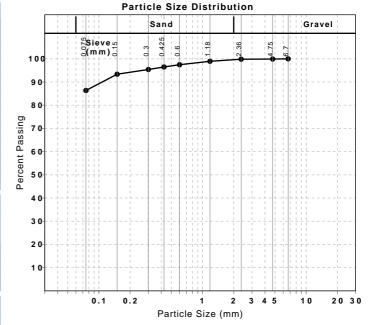
Laboratory Manager

NATA Accredited Laboratory Number: 20109

Particle Size Distribution (AS1289 3.6.1)									
Sieve	Passed %	Passin Limits	ıg	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			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	Curling		



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: SMEC AUSTRALIA PTY LTD

: EGSC COMPOST FACILITY

Ground Science South West

10 Dowsett St, South Geelong, Victoria 3220

Excavator Supplier: Ground Science South West

: MK

Phone: (03) 5282 1566

Ground Science

Latitude : -37.884674

used for any purpose which may breach any copyright. Job Number : GSSW1879 Excavator : Yanmar VIO17

Client

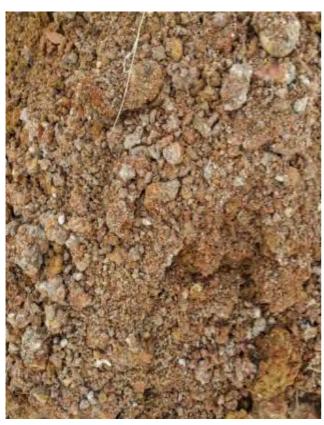
Longitude : 147.618974 Logged By Project

Elevation	n NotS	urveyed		Reviewed By : Location : FORGE CREEK			
lotal De	pth : 1.5m			Date : 18/05/2023			Samples
DCP graph	Depth (m)	Graphic Log	Classification Code	Material Description		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	
6	0. <u>2</u>		CL	As above, grey brown, fine to coarse sized gravel, moist.		M	
2	0. <u>4</u> - 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).	F-St	М	
3	-						
4	-						
3	_						
3	+ 1 -						
11	1. <u>2</u>		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	
12	-						
	- 1.5			TD20 Tauringshad at 4 Fee			1879-S17
	- - - - - - - - -			TP20 Terminated at 1.5m			
	-						

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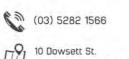












10 Dowsett St. South Geelong, Victoria 3220



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

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purpose of enabling its consideration and review as

Material Test Report

GSSW1879-1 Report Number:

Issue Number:

Partic

Sieve 75 mm

63 mm

53 mm

37.5 mm

26.5 mm

13.2 mm

9.5 mm

6.7 mm

4.75 mm

2.36 mm

1.18 mm

0.6 mm 0.425 mm

0.3 mm

0.15 mm

0.075 mm

19 mm

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-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

100

97

97

95

93

92

91

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82

78

73

71

69

67

62

Report Number: GSSW1879-1

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).

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

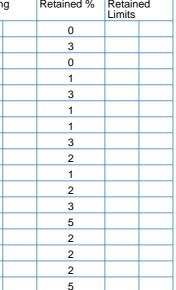
any purpose which may breach any copyright.



Approved Signatory: Chris Mamalis Laboratory Manager

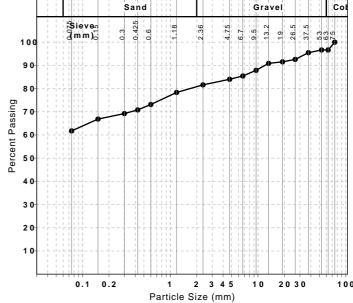
NATA Accredited Laboratory Number: 20109

cle Size Distribution (AS1289 3.6.1)							Р	articl	e Size	Dis	ribu	tior	1
	Passed %	Passing	Retained %	Retained				Sand					
		Limite		Limite	1 1	الباطرا	1	10	1.1.1.1	ī	1 1	1.1	1.1



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 (%)	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	Curlina		



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: SMEC AUSTRALIA PTY LTD

Ground Science South West Ground Science

Latitude : -37.884814

Excavator

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

Excavator Supplier : Supplied By Client

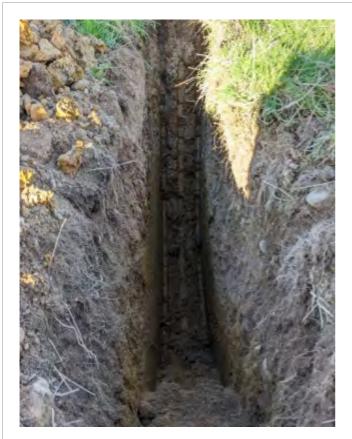
: Yanmar VIO17

used for any purpose which may breach any copyright. Job Number : GSSW1879

Client

Latitude Longitude		84814		Excavator Supplier: Supplied By Client Logged By: MK	Client Project	: SMEC AUSTRALIA PTY LTD : EGSC COMPOST FACILITY			
Elevation				Reviewed By :	Location	: FORGE CREEK			
Total Dep				Date : 18/05/2023	Loc Comme				
Total Bep				. 10/00/2020	Loc Committee				Samples
									Jampies
뮵	Ê	Bo-	Classification Code	ion			ncy	ē	
DCP graph	Depth (m)	Graphic Log	ficat	Material Description			Consistency	Moisture	
CP	Dep	효	assi	Ma Nesc			onsi	Μo	
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1							_		
' I			CL	TOPSOIL: gravelly, sandy, silty CLAY, brown, low plasticity, sand fine to coar moist, organics.	se grained, gravel s	ub angular to sub rounded fine, soft,	S	М	
1	-			most, organios.					
·									
3	0.2								
			CL	As above, gravel fine to coars	e, suir.		St	М	
4	-								
	0. <u>4</u>								
3	_ 0. <u></u>		СН	CLAY trace sand & gravel grange mottled brown, high plasticity, sand fin-	to medium grained	d gravel fine stiff moist (inferred	St	М	
			011	CLAY, trace sand & gravel, orange mottled brown, high plasticity, sand finalluvial deposits).	, to mediam gramed	a, graver me, sun, moist (intered	0.		
5	- 0.5								
4	-								
	_								
4	-								
	0.8								
4			CI	CLAY, trace sand, orange mottled grey, medium plasticity, sand fine to me	dium grained, stiff,	moist (inferred alluvial deposits).	St	M-D	
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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	FORGE CREEK						
Project name	EGSC CO	MPOST FACIL	.ITY				
Project No	GSSW1879	Not to Scale					
TP No	Not Applicable						

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part of a plan Finginseries - 98de estei Planning and Environment Act 1987 No. The 20 cument must not be used for any purpose which may breach any copyright.

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 areined	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	
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	1.5								
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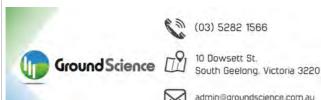
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3	(03) 5282 1566	
_		



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 TP22 TP Depth Applic							

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

Ground Science

Latitude : -37.885287

Ground Science South West

10 Dowsett St, South Geelong, Victoria 3220

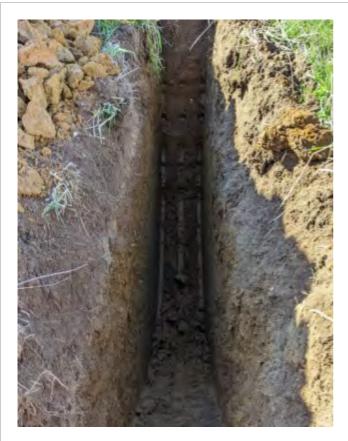
Phone: (03) 5282 1566

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

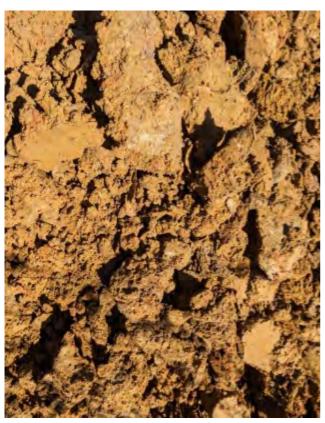
Job Number : GSSW1879 Client : SMEC AUSTRALIA PTY LTD Project : EGSC COMPOST FACILITY

Longitude		19730		Excavator Supplier: Ground Science South West Logged By : MK	Project	: SMEC AUSTRALIA PTY LTD : EGSC COMPOST FACILITY			
Elevation Total Depth :		rveyea		Reviewed By : Date : 19/05/2023	Location Loc Comme	: FORGE CREEK nt :			
DCP graph	Depth (m)	Graphic Log	Classification Code	Material Description			Consistency	Moisture	Sample Bulk Sample
1			CL	TOPSOIL: gravelly, sandy, silty CLAY, brown, low plasticity, sand fine t soft, moist, organ	o coarse grained, gravelics.	sub angular to sub rounded fine,	S	М	
2	0.2		CL	As above, grey brown, fine to coarse size		oist.	F	D-M	
3 0.5 5 5 6 6 4 4 3 4 4	0.4		CH	CLAY, trace sand & gravel, orange mottled brown, high plasticity, sand alluvial deposits	13% fine to coarse grain).	ed, gravel 2%, stiff, moist (inferred	St	M	
-2.5	5 5			TP23 Terminated	at 1.5m				1879-S18

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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	TP23	TP Depth	Not Applicable	

Material Test Report

GSSW1879-1 Report Number:

Issue Number:

Project Number:

0.075 mm

Report Number: GSSW1879-1

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-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

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

Material:

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

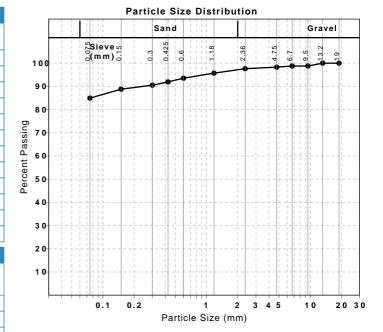
WORLD RECOGNISED ACCREDITATION

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

Particle Size Distribution (AS1289 3.6.1)						
Sieve	Passed %	Passin 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		

Atterberg Limit (AS1289 3.1.2 & 3.2.1 & 3.3.1)			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	g Curling Cracking & Curling		



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Ground Science

: -37.885511

: 147.619229

Ground Science South West

Phone: (03) 5282 1566

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

Elevation Not Surveyed Total Depth: 1.5m

Latitude Longitude

: 19/05/2023 Loc Comment : Samples Classification Code graph Depth (m) Moisture Bulk Sample 20 CL TOPSOIL: gravelly, sandy, silty CLAY, brown, low plasticity, sand fine to coarse grained, gravel sub angular to sub rounded fine, soft, moist, organics. 2 CL As above, grey brown, fine to coarse sized gravel, firm to stiff. F-St 4 5 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). 3 6 6 6 6 13 1879-S19 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). 11 12 14 TP24 Terminated at 1.5m - 2.5

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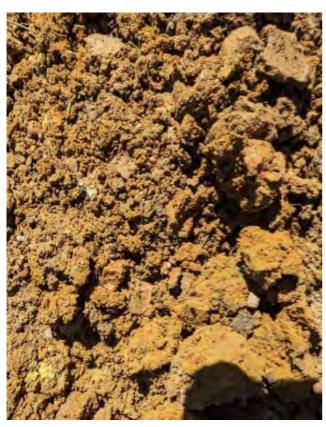






Photo description	Test Pit Photos			
Client	SMEC AUSTRALIA PTY LTD			
Location	FORGE CREEK			
Project name	EGSC COMPOST FACILITY			
Project No	GSSW1879 Scale Not to Scale			
TP No	TP24	TP Depth	Not Applicable	

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

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

CH - CLAY, trace sand & gravel, orange mottled brown, high plasticity, sand 14% fine to coarse grained, gravel 9% fine to medium, stiff, moist Material:

(inferred alluvial deposits).

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

any purpose which may breach any copyright.

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

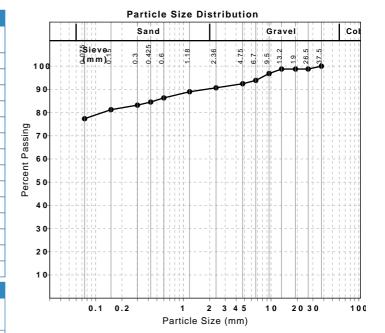
NATA
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WORLD RECOGNISED
noones named

Particle Size Distribution (AS1289 3.6.1)						
Sieve	Passed %	Passin Limits	g	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 & 3.2.1 & 3.3.1)			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	urling Cracking & Curling		

Report Number: GSSW1879-1



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part of a plan**Fingingeriess-gadeTesteiP**lanning and Environment Act_Testor NJ:hp2bcument must not be

Ground Science

: -37.885764

: 147.618692

Elevation Not Surveyed

Latitude Longitude **Ground Science South West**

10 Dowsett St, South Geelong, Victoria 3220

Phone: (03) 5282 1566

Excavator : Yanmar VIO17 Job Number : GSSW1879

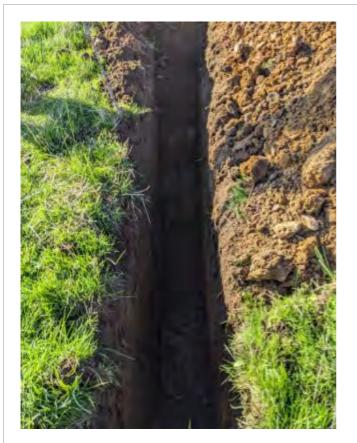
Excavator Supplier : Ground Science South West Client : SMEC AUSTRALIA PTY LTD

Logged By : MK Project : EGSC COMPOST FACILITY

Reviewed By : Location : FORGE CREEK

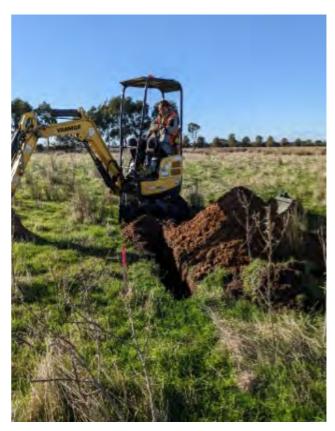
: 19/05/2023 Total Depth: 1.5m Loc Comment : Samples Classification Code graph Depth (m) Moisture Bulk Sample 20 CL TOPSOIL: gravelly, sandy, silty CLAY, brown, low plasticity, sand fine to coarse grained, gravel sub angular to sub rounded fine, soft, moist, organics 4 As above, grey brown, gravel fine 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 D 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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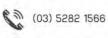












10 Dowsett St. South Geelong, Victoria 3220



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	TP25 TP Depth Not Applicable			

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purpose of enabling its consideration and review as

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 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

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).

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

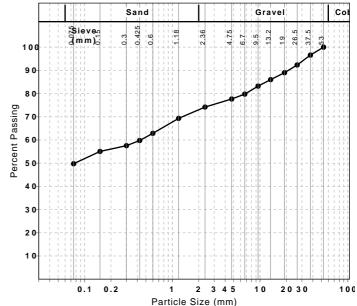
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Approved Signatory: Chris Mamalis

Laboratory Manager NATA Accredited Laboratory Number: 20109

F	ar	ti	cle	• ;	Siz	zе	Di	stı	rib	ut	ic	or	1
1		-1		-		\neg			_		1		Г



Particle Size	Distribution (AS	S1289 3	3.6.1)			
Sieve	Passed %	Passin Limits	ıg	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	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 & 0	Curling	

Report Number: GSSW1879-1

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Ground Science

Latitude : -37.885686

Longitude : 147.619593

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 : Location : FORGE CREEK

Longitude Elevation				Logged By : MK Project : EGSC COMPOST FACILITY Reviewed By : Location : FORGE CREEK			
Total Dep	th : 1.5m			Date : 19/05/2023			
DCP graph	Depth (m)	Graphic Log	Classification Code	Material Description	Consistency	Moisture	Samples
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, gravel fine to coarse.		 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	M	
2	0.5						
2							
2							
2							
3							
2	-						
2							
	-1.5						
				TP26 Terminated at 1.5m			
-	•						
	•						
-	- 2						
	•						
	-						
	. 2.5						
ŀ	-						
ţ							

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(03) 5282 1566



10 Dowsett St. South Geelong, Victoria 3220



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Photo description							
Client	SMEC AUSTRALIA PTY LTD						
Location	FORGE CREEK						
Project name	EGSC CO	MPOST FACIL	.ITY				
Project No	GSSW1879	Scale	Not to Scale				
TP No	TP26	TP26 TP Depth					

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

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Latitude : -37.883339 Longitude : 147.618684 **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

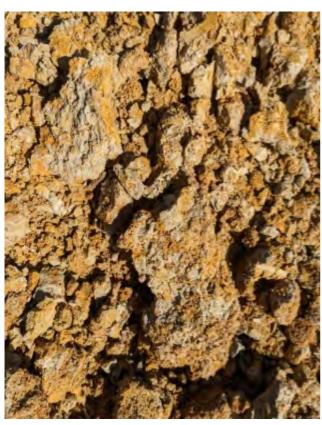
Job Number : GSSW1879

Total De	n Not S pth : 3m	Surveyed		Reviewed By : Location : FORGE CREEK Date : 18/05/2023 Loc Comment :			Samples
DCP graph	Depth (m)	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 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 alluvi deposits).	al 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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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 CO	MPOST FACIL	.ITY					
Project No	GSSW1879	Scale	Not to Scale					
TP No	LPTP01	LPTP01 TP Depth						

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-S21

 Date Sampled:
 18/05/2023

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: LPTP01, Depth: 0.4m - 2.0m

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

deposits).

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Phone: (03) 5282 1566

Email: chrism@groundscience.com.au

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Approved Signatory: Chris Mamalis

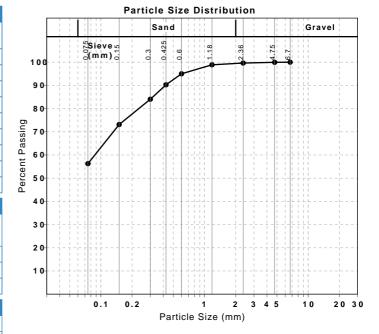
Laboratory Manager

NATA Accredited Laboratory Number: 20109

Particle Size Distribution (AS1289 3.6.1)								
Sieve	Passed %	Passin Limits	ıg	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 & C	Curling	



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-S21 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: LPTP01, Depth: 0.4m - 2.0m

Material:

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

deposits).

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10 Dowsett Street South Geelong Vic 3220	

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Email: chrism@groundscience.com.au

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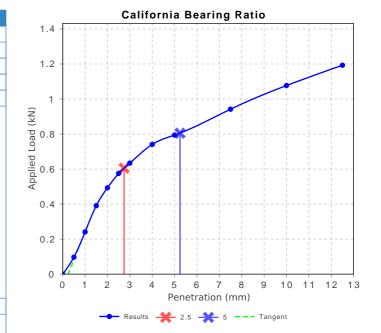
Approved Signatory: Chris Mamalis Laboratory Manager

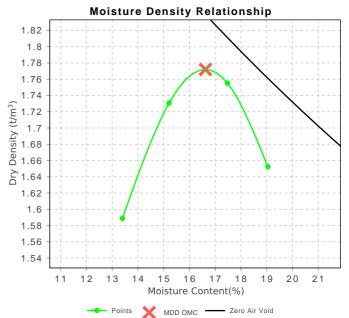
NATA Accredited Laboratory Number: 20109

California Bearing Ratio (AS 1289 6.1.1 &	2.1.1)	Min	Max
CBR taken at	2.5 mm		
CBR %	4.5		
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	sessme	ent
Maximum Dry Density (t/m ³)	1.77		
Optimum Moisture Content (%)	16.5		
Laboratory Density Ratio (%)	99.0		
Laboratory Moisture Ratio (%)	97.5		
Dry Density after Soaking (t/m ³)	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		
Oversize Material (mm)	19		
Oversize Material Included	Excluded		
Oversize Material (%)	0.0		
Sample remoulded as per Vic Roads Code	of Practice Ro	C 500.1	6

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 V		sessme	nt
Curing Hours (h)	143.5		

Report Number: GSSW1879-1







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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

DEDMEADILITY CONSTANT HEAD (Triavial mothod) AS1200 6.7.2

Client :	Ground	I 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		
Carrela diamatan		/2.2/		
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,	brown	
Notes:		Sample remoulded to a target of 98%	s SMDD @ OMC	
		MDD =	1.77 t/m3	
		OMC = Density Ratio =	16.6 % 98 %	
Comments		Sampled by client, tested as received	70 /0	



NATA Accredited Laboratory No. 15055 Accredited for compliance with ISO/IEC 17025 - Testing Date of issue 27/06/2023

Aaron Stuart Approved Signatory

Kanons



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

PERMEABILITY - CONSTANT HEAD (Triaxial method) AS1289 6.7.3

Client :	Ground	d Science South West Pty Ltd	Job No.	GS6742/1
Project:	GSSW ²	1879	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	
		MDD = OMC = Density Ratio =	1.77 t/m3 16.6 % 98 %	
Comments	•	Sampled by client, tested as received MDD and OMC Supplied by client		

TECHNICAL

Aaron Stuart

Approved Signatory

Ground Science

Ground Science South West

10 Dowsett St, South Geelong, Victoria 3220

Phone: (03) 5282 1566

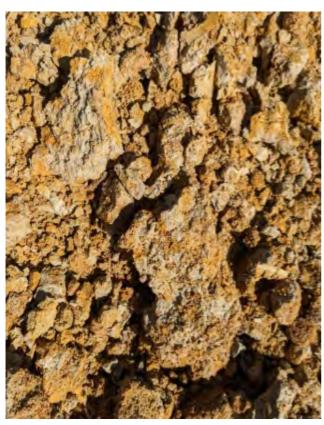
Job Number : GSSW1879 Excavator : Yanmar VIO17 **Excavator Supplier: Ground Science South West** Client : SMEC AUSTRALIA PTY LTD : -37.883403 Latitude Longitude : 147.618488 Logged By : MK Project : EGSC COMPOST FACILITY : FORGE CREEK Elevation Not Surve Location

ot Surveyed	Reviewed B	Ву :	Locati	ion : FORGE CREEK			
Bm	Date	: 18/05/2023	Loc C	omment :			
							Samples
Graphic Log	Classification Code		Material Description		Consistency	Moisture	Bulk Sample
	CL TOPSOIL: gra	avelly, sandy, silty CLAY, brown, low	plasticity, sand fine to coarse grained soft to firm, moist, organics.	, gravel sub angular to sub rounded fine	s, S-F	М	
	CH CLAY, trace	a sand & gravel, orange mottled brow	vn, high plasticity, sand fine to medium (inferred alluvial deposits).	grained, gravel fine, firm to stiff, moist	F-St	М	
0.75	CI CLAY, trac		um plasticity, sand fine to medium grair deposits).	ned, stiff, dry to moist (inferred alluvial	St	D-M	
	CH sandy CLAY,	, grey mottled red/orange, high plasti	icity, sand 56% fine to coarse grained, Formation residual soil).	stiff, dry to moist (inferred Haunted Hills	S St	D-M	
		P	TP02 Terminated at 3m				1879-S2
	To Do Judee o	CL TOPSOIL: gr. CH CLAY, trace	TOPSOIL: gravelly, sandy, silty CLAY, brown, low CLAY, trace sand & gravel, orange mottled brown CLAY, trace sand, orange mottled grey, medical control of the property of the	Date: 18/05/2023 Loc Control of the page	TOPSOIL: gravelly, sandy, sity CLAY, brown, low plasticity, sand fine to coarse grained, gravel sub angular to sub rounded fine soft to firm, most, organics. CH CLAY, trace sand & gravel, crange mottled brown, high plasticity, sand fine to medium grained, gravel fine, firm to stiff, moist (informed alluvial deposits). CI CLAY, trace sand, orange mottled gray, medium plasticity, sand fine to medium grained, stiff, dry to moist (inferred alluvial deposits). CH sandy CLAY, gray mottled redorange, high plasticity, sand 56% fine to coarse grained, stiff, dry to moist (inferred Haunted Hills Formation residual soil).	Top Solit gravely, sandy, sity CLAY, brown, low plasticity, sand fire to coase grained, gravel sub angular to sub-rounded fine, sold to firm, most operation, gravel sub-angular to sub-rounded fine, sold to firm, most operation, gravel sub-angular to sub-rounded fine, sold to firm, most operation, gravel sub-angular to sub-rounded fine, sold to firm, most operation, gravel sub-angular to sub-rounded fine, sold to firm, most operation, gravel sub-angular to sub-rounded fine, sold time, most operation, gravel sub-angular to sub-rounded fine, sold time, most operation, and fine to medium grained, gravel fine, firm to stiff, moist (inferred alluvial deposits). CLAY, trace sand & gravel, orange mottled gray, medium plasticity, sand fine to medium grained, stiff, dry to moist (inferred alluvial deposits). CH sandy CLAY, gray mottled redorange, high plasticity, sand 56% fine to coarse grained, stiff, dry to moist (inferred Haunded Hills Formation residual sost). St.	Date : \$808/2023 Loc Comment : Comment Co

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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	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-S22 Date Sampled: 18/05/2023

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

Material classified as per AS 1726:2017 Remarks:

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

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

Hills Formation residual soil).



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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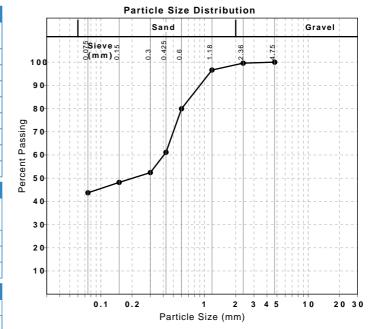
Approved Signatory: Chris Mamalis

Laboratory Manager NATA Accredited Laboratory Number: 20109

Particle Size Distribution (AS1289 3.6.1)						
Sieve	Passed %	Passin Limits	g	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 & 3.2.1 & 3.3.1)			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	Curling	1	



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-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

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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Email: chrism@groundscience.com.au

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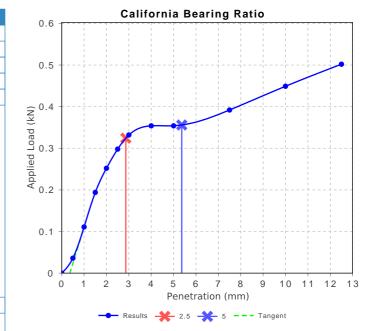
Approved Signatory: Chris Mamalis Laboratory Manager

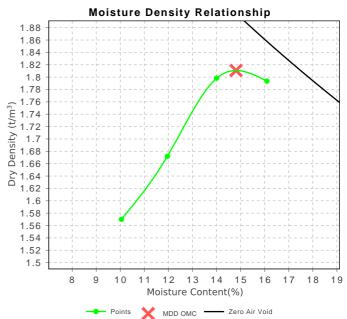
NATA Accredited Laboratory Number: 20109

California Bearing Ratio (AS 1289 6.1.1 &	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	sessme	ent
Maximum Dry Density (t/m ³)	1.81		
Optimum Moisture Content (%)	15.0		
Laboratory Density Ratio (%)	98.0		
Laboratory Moisture Ratio (%)	99.5		
Dry Density after Soaking (t/m³)	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 RO	C 500.1	6

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)	1.81		
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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Ground Science

: -37.883536

Longitude : 147.618638

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

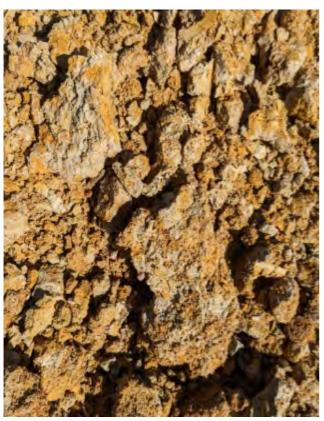
Logged By : MK Project : EGSC COMPOST FACILITY

Elevation Total Dept		urveyed		Reviewed By : Location : FORGE CREEK Date : 18/05/2023 Loc Comment :			
							Samples
DCP graph	Depth (m)	Graphic Log	Classification Code	Material	Consistency	Moisture	Bulk Sample
1 2	0. <u>2</u>		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 2 2 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).	F-St	М	
2 2 2 2 2	1 1.2		CI	CLAY, trace sand, orange mottled grey, medium plasticity, sand fine to medium grained, firm, moist (inferred alluvial deposits).	F	М	
-	1.5		СН	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).	F-St	М	
- - -	2.5 2.5		СН	As above, grey mottled orange, stiff.	St	M	1879-S23
	3			PTP03 Terminated at 3m			
-	3.5						

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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 CO	MPOST FACIL	.ITY		
Project No	GSSW1879 Scale Not to 9				
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 Date Sampled: 18/05/2023

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: 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 WORLD RECOGNISED ACCREDITATION

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

Phone: (03) 5282 1566

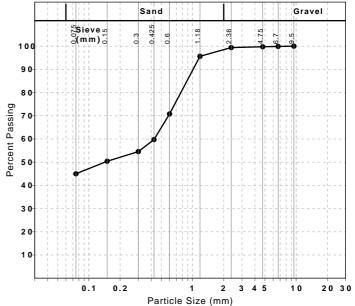
Email: chrism@groundscience.com.au

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



Particle Size Distribution (AS1289 3.6.1)							
Sieve	Passed %	Passin 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	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	Min	Max	
Sample History			
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	l	

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	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)	1.83		
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

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)	1.83		
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)	143.5		

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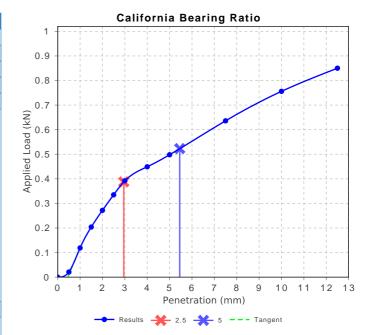
Phone: (03) 5282 1566

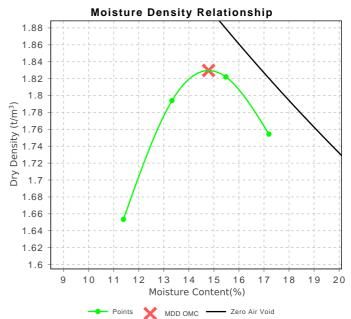
Email: chrism@groundscience.com.au

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Approved Signatory: Chris Mamalis Laboratory Manager

NATA Accredited Laboratory Number: 20109





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: EGSC COMPOST FACILITY

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Project

Ground Science

Latitude : -37.883617

Longitude : 147.618441

Ground Science South West

: MK

Phone: (03) 5282 1566

Logged By

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

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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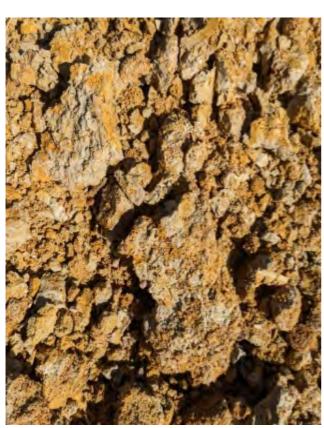






Photo description	Leachate Pond Test Pit Photos					
Client	SMEC AUSTRALIA PTY LTD					
Location	FORGE CREEK					
Project name	EGSC CO	MPOST FACIL	.ITY			
Project No	GSSW1879 Scale N					
TP No	LPTP01	TP Depth	Not Applicable			

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 1879-S24 Sample Number: 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

Material classified as per AS 1726:2017 Remarks:

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

CH - sandy CLAY, orange mottled grey, high plasticity, sand 35% fine to coarse grained, stiff to very 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

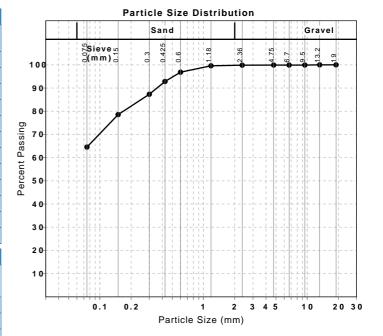
Laboratory Manager NATA Accredited Laboratory Number: 20109

Particle Size	Distribution (A	S1289 3	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	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	2.1 & 3.3.1)	Min	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 & C	Curling	

Report Number: GSSW1879-1



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-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

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

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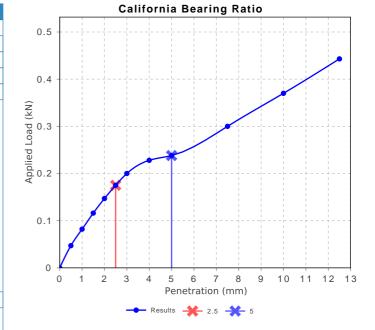
Approved Signatory: Chris Mamalis

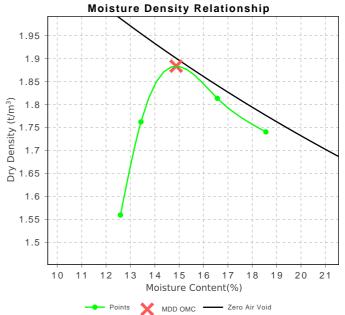
ION	Laboratory Manager
	NATA Accredited Laboratory Number: 20109

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	2.1.1
Method used to Determine Plasticity	Visual As	sessme	ent
Maximum Dry Density (t/m ³)	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 500.1	6

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)	1.88		
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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13 Brock Street Thomastown VIC, P 03 9464 4617 Email reception@groundscience.com.au

PERMEABILITY - CONSTANT HEAD (Triaxial method) AS1289 6.7.3

Client :	Ground	Science South West Pty Ltd	Job No.	GS6742/1
Project:	GSSW1879 Report No. Forge Creek Test date:		Report No.	DN
Location:			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	4.E-11		
Water type		de-aired - filtered		
Specimen description		sandy CLAY, medium plasticity,	brown	
Notes:		Sample remoulded to a target of 989	% SMDD @ OMC	
		MDD = OMC = Density Ratio =	1.88 t/m3 14.9 % 98 %	
Comments	<u> </u>	Sampled by client, tested as received MDD and OMC Supplied by client	- 17	



NATA Accredited Laboratory No. 15055 Accredited for compliance with ISO/IEC 17025 - Testing Date of issue 27/06/2023

Aaron Stuart Approved Signatory

Komons



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PERMEABILITY - CONSTANT HEAD (Triaxial method) AS1289 6.7.3

Client :	Ground	d Science South West Pty Ltd	Job No.	GS6742/1
Project:	GSSW ²	1879	Report No.	DX
Location:	Forge (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, bro	own	
Notes:		Sample remoulded to a target of 98% S		
		MDD = OMC = Density Ratio =	1.88 t/m3 14.9 % 98 %	
Comments	•	Sampled by client, tested as received MDD and OMC Supplied by client		

NATA

NATA Accredited Laboratory No. 15055 Accredited for compliance with ISO/IEC 17025 - Testing 27/06/2023

Kanons **Aaron Stuart**

Approved Signatory

TECHNICAL

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-S27

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

Material: 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).

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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

	- 1 1			Sand				Gravel	
106	- + - +	O(mm)			1.18	2.36	4.75	13.2	26.5
9 0									ļ
8 0				•••					
70									
70- 60- 50-									ļ
5 0									
4 0									
3 0					+				
2 0									
10									
۲		0.1	0.2	1 11 1	1 ticle Size	2 3	3 4 5	10	2 0

Particle Size	Distribution (A	S1289 3	3.6.1)			
Sieve	Passed %	Passin Limits	g	Retained %	Retain Limits	ed
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	2.1 & 3.3.1)	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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DEDMEADILITY CONSTANT HEAD (Triavial mothod) AS1200 6.7.2

Client :	Ground	Science South West Pty Ltd	Job No.	GS6742/1
Project:	GSSW1	879	Report No.	DO
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	3.E-10		
Water type		de-aired - filtered		
Specimen description		CLAY, medium to high plasticity, brow	vn, with gravel	
Notes:		Sample remoulded to a target of 98% SM MDD = OMC =	1.46 t/m3 28.4 %	
Comments		Density Ratio = Sampled by client, tested as received	98 %	
		MDD and OMC Supplied by client		

TECHNICAL COMPETENCE

NATA Accredited Laboratory No. 15055 Accredited for compliance with ISO/IEC 17025 - Testing 27/06/2023

Aaron Stuart Approved Signatory



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

PERMEABILITY - CONSTANT HEAD (Triaxial method) AS1289 6.7.3

Client :	Ground	Science South West Pty Ltd	Job No.	GS6742/1	
Project:	GSSW1	1879	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, bro	own, with gravel		
Notes:		Sample remoulded to a target of 98% SN	MDD @ OMC		
		MDD = OMC = Density Ratio =	1.46 t/m3 28.4 % 98 %		
Comments	•	Sampled by client, tested as received MDD and OMC Supplied by client			
NATA		edited Laboratory No. 15055 for compliance with ISO/IEC 17025 - Testing	Date of issue 27/06/2023	Kanons	
ACCREDITED FOR TECHNICAL			Aaron Stuart		
COMPETENCE			Approved Signatory		

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

Report Number: GSSW1879-1

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

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Approved Signatory: Chris Mamalis

Laboratory Manager

NATA Accredited Laboratory Number: 20109

oisture 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), orang 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 har 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 rounded 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 rounder 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 plasticity 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 stidry 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).

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Proposed composting facility Bairnsdale

Detailed Assessment Pathway

Final



Prepared for: **East Gippsland Shire Council**

April 2024



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COVER PHOTOGRAPH: VIEW FROM WITH PROPOSED COMPOSTING FACILITY LOOKING NORTH

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EXECUTIVE SUMMARY

This report documents an ecological assessment and provides planning advice to East Gippsland Shire Council who wish to construct a composting facility on land adjacent to the existing Bairnsdale Regional Landfill. Impacts have been assessed based on the footprint provided by EGSC. In line with Recycling Victoria policy, EGSC is required to introduce a food/garden organics collection by 2030. Construction of this facility will facilitate a smooth transition to a kerbside organics collection and ensure all environmental protection obligations are met for the management of organic waste in East Gippsland. Sustainability Victoria has awarded \$250,000 to EGSC to support the construction of the hardstand and receivals shed for this project.

Biodiversity Values

The proposed composting facility is located on Johnstons Road, Bairnsdale. The land is within the Gippsland Plain Bioregion. The native vegetation identified by Ethos NRM comprises EVC 55 Plains Grassy Woodland, endangered within the Gippsland Plain bioregion, and is mostly confined to planted shelterbelts with a native grass understorey and small patches within cleared paddocks where native plants are dominant. A second EVC, Swamp Scrub EVC 53, also endangered, was found on the roadside only.

Ethos NRM recorded a total of 44 indigenous flora species and 42 exotic flora species at the site; several species not native to the State of Victoria were also noted. No threatened flora species were located on-site during the surveys conducted on 4th December 2023, 10th January 2024 and 27th March 2024. No habitat suitable for the threatened fauna species potentially present in the area was noted. Two species of Protected Flora (Black Wattle *Acacia mearnsii* and Coast Wattle *A. longifolia* subsp. *longifolia*) listed under the Flora and Fauna Guarantee Act 1988 were recorded; an FFG application to remove 20 plants of the former and 10 of the latter will be required and has been supplied for EGSC to submit to DEECA. Weed species were widespread and included two Weeds of National Significance (African Boxthorn and Blackberry), also listed as noxious under the *Catchment and Land Protection (CaLP) Act 1994*. Other listed weed species found were Bridal Creeper *Asparagus asparagoides*, a Restricted species; and Spear Thistle *Cirsium vulgare*, listed as Regionally Controlled.

Approvals

No significant impacts on ecological communities or species considered to be Matters of National Environmental Significance and protected under the *Environmental Biodiversity and Conservation Act 1999* are expected to result from the project or removal of native vegetation at the site.

Although the proposed facility is within the Gippsland Lakes Ramsar site, no wetland values exist.

Native vegetation removal is over 0.5 ha and a Detailed Assessment Pathway, with full Habitat Hectare Assessment, was therefore required. Ten patches of native vegetation were assessed, totalling 1.070 ha of removal. This will require an offset of 0.277 General Habitat Units with a minimum strategic biodiversity value of 0.356 at a cost of approximately \$25,000 to \$47,000; these offsets are currently available on the credit register.

Planning zones and overlays

The area is zoned Farming, and an Environmental Significance Overlay (the Goon Nure Wildlife Corridor) applies. The proposed facility is also within a Designated Bushfire Prone Area. The Building Regulations 2018 apply bushfire protection standards for building works in designated BPA. EGSC is advised to check these standards with regard to the structures proposed at the composting facility.



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1 INTRODUCTION

1.1 Project Description

East Gippsland Shire Council (EGSC) engaged Ethos NRM to undertake the required ecological assessments on land at Johnstons Road, Bairnsdale, where Council wishes to develop a compost facility.

In line with Recycling Victoria policy, EGSC is required to introduce a food/garden organics collection by 2030. Accordingly, EGSC intends to establish an aerobic composting facility adjacent to the Bairnsdale Regional Landfill. The facility will process 25000t of garden and mixed food organics a year. Currently garden organics received at EGSC transfer stations are shredded by a contractor four to seven times a year. This shredded waste has previously been used in the rehabilitation of landfill cells but, following the 2022 closure of the Cann River landfill, no further rehabilitation works (excluding maintenance and Bairnsdale cells) will be required. A new processing method is, therefore, needed.

The closest commercial composting facility to East Gippsland Shire is Gippsland Regional Organics (GRO) located in Dutson Downs, 96km from Bairnsdale Landfill. The cost of out-sourcing processing through a facility such as GRO is significant and cannot be offset through the sale of composted organics. There are also significant environmental implications related to the transport of organic waste to a commercial facility. The construction of this facility will facilitate a smooth transition to a kerbside FOGO collection and ensure all environmental protection obligations are met for the management of organic waste in East Gippsland.

Sustainability Victoria has awarded \$250,000 to EGSC to support the construction of the hardstand and receivals shed for this project.

1.2 Site Details

The site of the proposed compost facility is adjacent to the Bairnsdale Regional Landfill which is approximately 5km south of the town of Bairnsdale on Johnstons Road. A concept plan for the development is shown in Figure 1 and includes:

- A 200m x 100m compost maturation pad where material will be laid out in wind rows
- A drop-off station
- Two dams
- A screening and product storing area
- A site office and weighbridge
- A stormwater detention and treatment assets
- A proposed waste process shed
- A leachate treatment pond

Access to the facility will be across a vegetated roadside (Figure 2 and Plate 7 and 10-12). The land has been used for grazing for many years and contains native vegetation mostly comprised of planted roadside vegetation and shelterbelts with a mix of species local to the Gippsland Plains but also species which are native but found in other parts of Victoria. The roadside also contains Australian species not native to Victoria.

1.3 Objectives

The objectives of this report are to present the results of the desktop and field surveys carried out to allow East Gippsland Shire Council to meet its statutory requirements under relevant environmental legislation



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Date Issued: 15/03/2024 | Revision: A
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2 DESKTOP INVESTIGATION

2.1 Matters of National Environmental Significance (MNES)

The EPBC¹ Act Protected Matters Search Tool was used to identify relevant MNES including the potential presence of nationally threatened species and ecological communities within 5km of the proposed composting facility.

2.2 Flora and Fauna Guarantee (FFG) Act 1988 listed Threatened Species

Records in the Victorian Biodiversity Atlas (VBA) of FFG Act listed threatened species were assessed within 5km of the proposed composting facility. The 5km buffer accounted for species that have only been recorded in adjacent areas but could be present in the site, or spatial inaccuracies in the data. These data were supplemented with species identified using the EPBC² Act Protected Matters Search Tool, i.e., EPBC listed species not recorded in the VBA but that could potentially be present.

2.3 Likelihood of Occurrence

An assessment of the likelihood of occurrence within the project area for each threatened flora and fauna species identified in the VBA search was completed using the guidelines in Tables 1 and 2.

Table 1 Guidelines for determining the likelihood of occurrence of flora species within the project area

	Guidelines					
Known occurrence	Recorded in the project area within last 25 years.					
High	Recorded in the local vicinity (less than 5 km) within last 25 years, and/or the project area contains areas of high-quality habitat for the species.					
Moderate	Recorded in the local vicinity within last 25 years, and/or the project area contains some characteristics of the species' preferred habitat.					
Low	Limited previous records in the local vicinity within last 25 years, and/or the project area contains poor habitat for the species.					
Unlikely	No previous records of the species in the local vicinity, and/or no potential habitat in the local vicinity, and/or outside the species range.					

¹ Environment Protection and Biodiversity Conservation Act 1999 (Comm.)



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Table 2 Guidelines for determining the likelihood of occurrence of authorized property within the property breach any copyright.

	Guidelines
Known occurrence	Recorded in the project area within last 25 years.
High	Likely resident population within the project area based on previous records or expert advice, and/or recently recorded in the local vicinity, and/or the project area contains areas of preferred habitat for the species.
Moderate	Previous records in the local vicinity within last 25 years, and/or species likely to move through the project area regularly or visit the site seasonally, and/or the project area contains some characteristics of the species' preferred habitat.
Low	Limited previous records of the species in the local vicinity within last 25 years, and/or species may occur rarely or opportunistically, and/or the project area contains few characteristics of the species' preferred habitat.
Unlikely	No previous records of the species in the local vicinity within the last 25 years, and/or the project area has no suitable habitat for the species, and/or outside the species range or locally extinct, and/or species may fly over the project area.

2.3.1 Planning zones and overlays

A Planning Property Report was generated using DTP's³ VicPlan mapping tool.

2.4 Field Survey

2.4.1 Habitat Hectares assessment

A preliminary field survey was carried out by Ethos NRM (Mick Bramwell and Norm Borg) on 4 December 2023, followed by a second survey on 10 January 2024 (Mick Bramwell and Trish Fox), and a third on 27 March 2024 (Mick Bramwell and Trish Fox) as the access slip road design had been finalised. All areas within the site works area delineated by EGSC (Figure 3) were surveyed. The Habitat Hectares assessment was undertaken on 10 January and 27 March 2024 by Mick Bramwell, a DEECA accredited native vegetation assessor, as per the methodology described in the *Vegetation Quality Assessment Manual* (DSE, 2004). When undertaking the assessment, Ethos NRM applied a 5m construction buffer around the dam and the proposed drain that will connect the dam to an existing culvert, and assumed an additional loss of native vegetation of 1m around the No Go Zone due to indirect impacts. The No Go Zone was assumed to be the outer edge of the concept design.

Background: The Habitat Hectares method is designed to assess native vegetation condition and quality using a standardised methodology, which is described in the Vegetation Quality Assessment Manual (DSE, 2004). Various components of the vegetation at a site are assessed against 'benchmarks' for the relevant vegetation type, and a Habitat Score is calculated based on the results of this assessment and the condition of the surrounding landscape. In theory, an area that meets the characteristics of the benchmark and is surrounded by intact native vegetation would score 100. A final Habitat Hectares score is calculated from the Habitat Score and the area of the site in hectares. One function of the Habitat Hectares score is to determine offset requirements for native vegetation removal.

2.4.2 Targeted surveys

Given the disturbed nature of the land and the lack of any threatened species recorded on site, Ethos NRM considers that there is no need for additional targeted surveys for threatened flora and fauna species.

³ Department of Transport and Planning (Victoria)



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2.4.3 Available habitat assessment

An onsite assessment of the availability of suitable habitat for threatened species identified in the desktop investigation was completed.

2.5 Determination of Assessment Pathway and Application Requirements

The assessment pathway was determined using DEECA's Native Vegetation Removal Tool to identify the location category of the proposed native vegetation removal, and the proposed extent (hectares) of native vegetation to be removed.

Background: As per the *Guidelines for the removal, destruction or lopping of native vegetation* (the Guidelines) (DELWP, 2017) planning permit applications to remove native vegetation must be assessed under one of three pathways: basic, intermediate, or detailed. The relevant assessment pathway for an application is determined by the extent of native vegetation being removed (including past removal) and the location category (Location 1,2, or 3). The location category reflects the potential risk to biodiversity resulting from a small amount of native vegetation removal in that area. The assessment pathway dictates the level of detail required to accompany a planning permit application for the removal of native vegetation.

2.6 Determination of Offset Requirements

The offset requirement for this project was determined by creating a GIS spatial layer recording the extent, condition, and other characteristics of native vegetation to be removed. This spatial data was provided to DEECA and used to produce a Native Vegetation Removal Report⁴ showing the offset requirement and type and specifying from what area the offset can be secured.

Background: Offsets are categorized as either *species* or *general* offsets. A species offset is required when the removal of native vegetation has a significant impact on habitat for rare or threatened species. A general offset is required when native vegetation is removed without significant impact on individual species. The size of the required offset is recorded in *species habitat units* (SHU) or *general habitat units* (GHU). Individual large trees are also required to be offset as part of the species or general offset.

2.7 Taxonomy

Common and scientific names for flora and fauna species in this report follow the DEECA *Victorian Biodiversity Atlas* (VBA) checklist. Please note these names are not always consistent with those used in other databases.

2.8 Survey Limitations

The following limitations apply to the methodology:

- The vegetation assessment includes only vascular flora; non-vascular flora such as mosses and liverworts were not sampled, nor was aquatic flora.
- Certain flora species are only readily identifiable under specific temporal, environmental or climatic conditions. Field surveys were undertaken in summer and there is the potential that plants which flower outside this period were not detected.
- Several flora taxa were only identifiable to genus level due to the lack of flowering material at the time of survey.

⁴ For the purposes of this draft report DEECA's EnSym NVR Tool has been used to identify the offset requirement. The final report will include an official Native Vegetation Removal Report obtained from DEECA's planning unit.



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- Mapping of flora species and communities was undertaken with any interpretation. Accuracy of this mapping is therefore limited to the GPS unit (generally (+/-) 4m) and the quality of available aerial imagery.
- No targeted flora or fauna surveys were undertaken.

3 RESULTS

3.1 Threatened communities

The EPBC Act Protected Matters Search Tool indicated the possible presence of three critically endangered ecological communities (Table 3).

Table 3. The critically endangered ecological communities identified by the Protected Matters Search Tool

Community ID	Community name	Threatened category	Rank	Comments
97	Seasonal Herbaceous Wetlands (Freshwater) of the Temperate Lowland Plains	CE	Likely	Community likely to occur in buffer area only
133	Natural Damp Grassland of the Victorian Coastal Plains	CE	May	Community may occur buffer area only
73	Gippsland Red Gum (<i>Eucalyptus tereticornis</i> subsp. <i>mediana</i>) Grassy Woodland and Associated Native Grassland	CE	Likely	Community likely to occur in feature area

Seasonal Herbaceous Wetlands are dominated by a ground layer of native wetland graminoids including *Carex tereticaulis, Amphibromus* spp., *Deyeuxia* spp., *Glyceria* spp., *Lachnagrostis* spp., *Poa labillardieri*, and *Rytidosperma duttonianum* and at least one native wetland forb (Commonwealth of Australia, 2012). Ethos NRM considers that this ecological community is not present at the composting facility site.

Natural Damp Grassland of the Victorian Coastal Plains is characterised by a grassy ground cover that commonly includes a range of tussock and non-tussock grasses (dominated by *Themeda triandra* on drier sites and *Poa labillardierei* on wetter sites), other graminoids, and forbs (Department of the Environment, 2015). Ethos NRM considers that the community is not present on the composting facility site.

The potential for the Gippsland Red Gum (*Eucalyptus tereticornis* subsp. *mediana*) Grassy Woodland and Associated Native Grassland ecological community to exist at the site was assessed using the flowchart included in the policy statement (Commonwealth of Australia, 2010). Ethos NRM concluded that none of the patches of native vegetation equate to the national ecological community. Patches were either too modified by exotic pastures, plantings or weeds, to be considered the woodland form, or had too few species to be considered the grassland form. Similarly, the native vegetation does not conform to any threatened communities listed under the FFG Act 1988.

3.2 Wetlands

The proposed composting facility is within the Gippsland Lakes Ramsar site but there are no wetland values within the surveyed area.



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3.3 Threatened species

Interrogation of the VBA revealed records of 39 threatened species within the 5km radius (28 bird, seven flora, two fish, one mammal and one amphibian species). These are listed in Appendix 1; purely marine species, such as Burrunan Dolphin, were excluded from the list.

None of the threatened flora species was recorded on site. Little or no suitable habitat remains within the development footprint for any of the threatened flora or fauna species identified in the desktop investigation. The land has been used for grazing for many decades and pasture grasses and weeds are common throughout.

Two dams are present on site (outside of the proposed works area) and there is a low chance that one of the threatened fish species (Flinders pygmy perch) could be present in those dams, but development of the site should not impact these dams. The Green and Golden Bell Frog is known to occur at Macleod Morass which is less than 5km from the survey site, but no habitat exists on the survey site for this species. The majority of the threatened bird species records are also from nearby MacLeod Morass and Gippsland Lakes. Two Latham's Snipe were noted during field surveys on 10 January 2024 but given the highly disturbed nature of the site, Ethos NRM does not consider that the Johnstons Road land offers prime habitat for this species or any wading bird species; the observed birds may have been taking advantage of the unusually wet conditions in January 2024 and are only likely to use the site opportunistically.

3.3.1 Threatened species: likelihood of occurrence

A likelihood of occurrence analysis - based on previous records of the species within the local vicinity, descriptions of habitat requirements and behavioural characteristics for each species, and on-site assessment of habitat availability – was completed for the threatened flora and fauna species in the VBA search and is included in Appendix 1. Given the highly disturbed nature of the area, Ethos NRM considers there is a **low** likelihood that any of the threatened flora species would occur as the project area contains poor habitat for the species; and there is a low likelihood of any threatened fauna species occurring as the project area contains few characteristics of the species' preferred habitat.

3.3.2 Nationally threatened flora and fauna species

The Protected Matters Search Tool also revealed the potential presence of many threatened species. These are listed in Appendix 2; whales, turtles, sharks, marine fish and pelagic bird species such as albatross have been removed. None of the threatened flora species identified in this search were found on site and Ethos NRM considers there is a **low** likelihood that any would occur on the site given the highly disturbed nature of the land. Similarly, as the project area contains few characteristics of the threatened fauna species' habitat, there is a **low** likelihood those species would occur. The Protected Matters Search Tool also identified the potential for 31 migratory bird species to be present. As before, Ethos NRM consider there is little prospect of any of these species using the project area as habitat is so degraded.

3.4 Assessment Pathway

The assessment pathway for this project was identified based on the extent and location of the proposed native vegetation removal (Table 4). The proposed composting facility is in a Location 2 category but as native vegetation removal is >0.5 ha, the assessment pathway is **detailed.** This was confirmed by DEECA's Native Vegetation Removal Report which is included in Appendix 6.



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Table 4. Assessment pathway for the proposed composting facilitied for any purpose which may breach any copyright.

Extent (including any past removal)	Location Category				
Extent (including any past removal)	Location 1	Location 2	Location 3		
Less than 0.5 hectares and not including any large trees	Basic	Intermediate	Detailed		
Less than 0.5 hectares and including one or more large trees	Intermediate	Intermediate	Detailed		
0.5 hectares or more	Detailed	Detailed	Detailed		

3.5 Native Vegetation and Landscape Description

3.5.1 Ecological vegetation classes and bioregion

The proposed composting facility is located with the Gippsland Plain bioregion. This bioregion, located in the southeast of Victoria, includes flat low lying coastal and alluvial plains with a gently undulating terrain dominated by barrier dunes and floodplains and swampy flats and is generally below 200 m above sea level (DEECA, 2023a).

EVC mapping from DEECA's mapping tool NatureKit shows remnant Plains Grassy Woodland (EVC 55), which has a bioregional conservation status of endangered (DEECA, 2023b) on the site. However, native vegetation extent has been much reduced in this area due to land clearing for agriculture; the proposed site has been grazed by stock for many years and does not meet the typical floristic characteristics of EVC 55. However, it is highly likely that EVC 55 was once the dominant vegetation type present and, accordingly, this benchmark was used in the Habitat Hectares assessment. Alongside the roadside, there was a section of Swamp Scrub, EVC 53, which is also endangered in the bioregion.

3.5.2 Native vegetation description

The native vegetation that is present largely consists of patches of native species in the roadside vegetation and shelterbelts. Although most of these trees and shrubs in the roadside and shelterbelts have been planted and potentially exempt from native vegetation removal regulations, perennial grasses, sedges and rushes in the understorey often exceeds the threshold for the definition of native vegetation and hence these planted areas have been assessed as native vegetation. Forty indigenous species were recorded and are listed in Appendix 3.

There are no large trees to be removed as part of the development. One large Gippsland Red-gum (measuring 72cm diameter at breast height) was recorded on site and will be retained, and one large Swamp Gum (76cm) was close to the eastern edge of the proposed slip lane but will not be impacted.

Photographs of the project area and the native vegetation to be removed are included in Plates 2 to 13.

3.5.2.1 Roadside vegetation and shelterbelts

Native tree species along the roadside and within the shelterbelts include Gippsland Red-gum *Eucalyptus tereticornis* subsp. *tereticornis*, Swamp Gum *E. ovata* and Forest Red Box *E. polyanthemos* subsp. *polyanthemos*. Shrubs present include Cherry Ballart *Exocarpus cupressiformes*, Black Sheoak *Allocasuarina verticillata*, Rough-barked Honey-myrtle *Melaleuca parvistaminea*, Sweet Bursaria *Bursaria spinosa*, and Lightwood *Acacia implexa*; the latter two are showing good recruitment along the roadside. Few herb/small shrub species were recorded apart from Nodding Saltbush *Einadia nutans* and Kidney-weed *Dichondra repens*. Native grasses included Spear-grasses *Austrostipa* spp., Kangaroo Grass *Themeda triandra* and Weeping Grass *Microlaena stipoides*. Non-indigenous species on the roadside included Pincushion Hakea *H. laurina* (a Western Australian species) and Willow-leaved Hakea *H. salicifolia* (indigenous to New South



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Wales), Hillock Bush Melaleuca hypericifolia (New South Waterhand Green place), Hillock Bush Melaleuca hypericifolia (New South Waterhand Green place), Hillock Bush Melaleuca hypericifolia (New South Waterhand Green place), Hillock Bush Melaleuca hypericifolia (New South Waterhand Green place), Hillock Bush Melaleuca hypericifolia (New South Waterhand Green place), Hillock Bush Melaleuca hypericifolia (New South Waterhand Green place), Hillock Bush Melaleuca hypericifolia (New South Waterhand Green place), Hillock Bush Melaleuca hypericifolia (New South Waterhand Green place), Hillock Bush Melaleuca hypericifolia (New South Waterhand Green place), Hillock Bush Melaleuca hypericifolia (New South Waterhand Green place), Hillock Bush Melaleuca hypericifolia (New South Waterhand Green place), Hillock Bush Melaleuca hypericifolia (New South Waterhand Green place), Hillock Bush Melaleuca hypericifolia (New South Waterhand Green place), Hillock Bush Melaleuca hypericifolia (New South Waterhand Green place), Hillock Bush Melaleuca hypericifolia (New South Waterhand Green place), Hillock Bush Melaleuca hypericifolia (New South Waterhand Green place), Hillock Bush Melaleuca hypericifolia (New South Waterhand Green place), Hillock Bush Melaleuca hypericifolia (New South Waterhand Green place), Hillock Bush Melaleuca hypericifolia (New South Waterhand Green place), Hillock Bush Melaleuca hypericifolia (New South Melaleuca), Hillock Bu

3.5.2.2 Other native vegetation patches

In the unfenced paddocks, there were several areas that would be considered patches under Native Vegetation Regulations – that is, areas where more than 25% of the perennial vegetation are native species (DELWP, 2017). These areas were species poor and mostly consisted of perennial native rushes (predominantly *Juncus subsecundus*) and grasses (*Microlaena stipoides, Panic effusum* and *Austrostipa* spp.) with small patches of Kidney-weed (*Dichondra repens*).

3.5.3 Weeds

Forty-two weed species were noted, four of which are considered noxious species.

African Boxthorn Lycium ferocissimum, Blackberry Rubus fruticosus and Spear Thistle Cirsium vulgare are categorized as 'regionally controlled' in East Gippsland under the Catchment and Land Protection Act 1994 - these invasive plants are usually widespread in a region. To prevent their spread, ongoing control measures are required. Landowners have the responsibility to take all reasonable steps to prevent the growth and spread of regionally controlled weeds on their land.

Blackberry was present in one small section of roadside to be cleared for the slip lane. Both Blackberry and African Boxthorn are considered Weeds of National Significance (Weeds Australia, n.d.)

Bridal Creeper Asparagus asparagoides is categorized as 'restricted' under the CaLP Act; this category includes plants that pose an unacceptable risk of spreading in this state and are a serious threat to another state or territory of Australia. Weed species are included in Appendix 3.

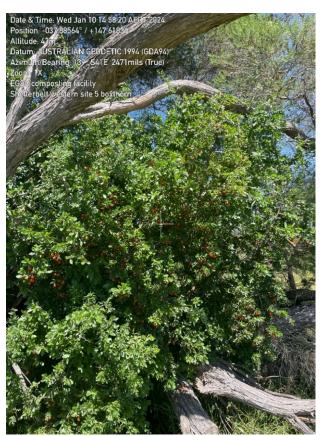


Plate 1. One large African Boxthorn in one of the shelterbelts

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Plate 2. Looking south along the western shelterbelt. HZ1 in Fig. 2.



Plate 4. A native vegetation patch, dominated by Weeping Grass *Microlaena stipoides*. HZ2 in Fig. 2.

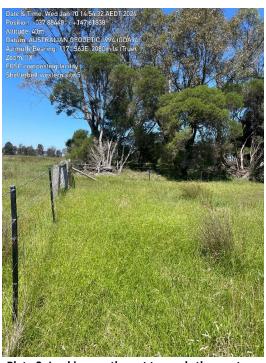


Plate 3. Looking south-east towards the western shelterbelt



Plate 5. A native vegetation patch dominated by Kidneyweed *Dichondra repens*. HZ7 in Fig. 2.

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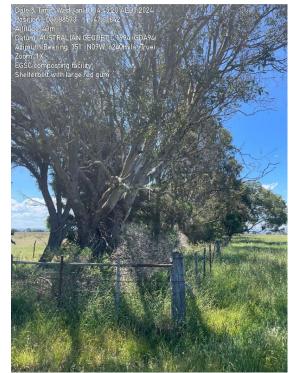


Plate 6. The large Red Gum at the end of the short shelterbelt (HZ1 in Fig. 2); this tree is to be retained.



Plate 7. Planted vegetation along the roadside HZ9 in Fig. 2.

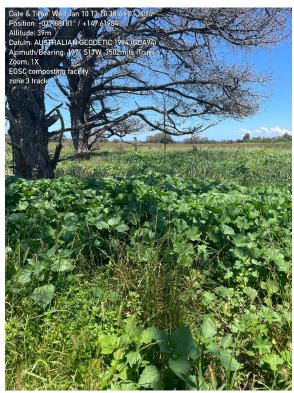


Plate 8. Weedy section of the area marked trafficable pavement in Fig. 1



Plate 9. Native vegetation, marked on Fig. 2 as HZ8), within the trafficable pavement in Fig. 1

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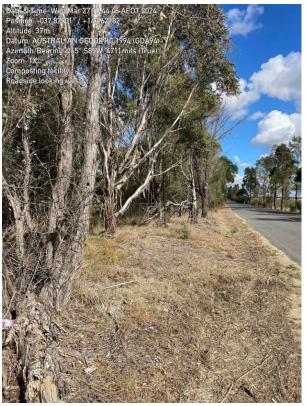


Plate 10. Roadside vegetation (Zone 9) looking west



Plate 11. Roadside vegetation (Zone 10) looking east

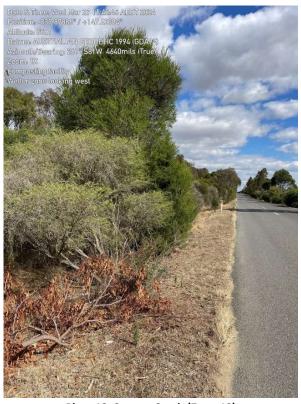


Plate 12. Swamp Scrub (Zone 10)



Plate 13. Swamp Scrub (Zone 10)

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3.5.4 Habitat Hectares assessment

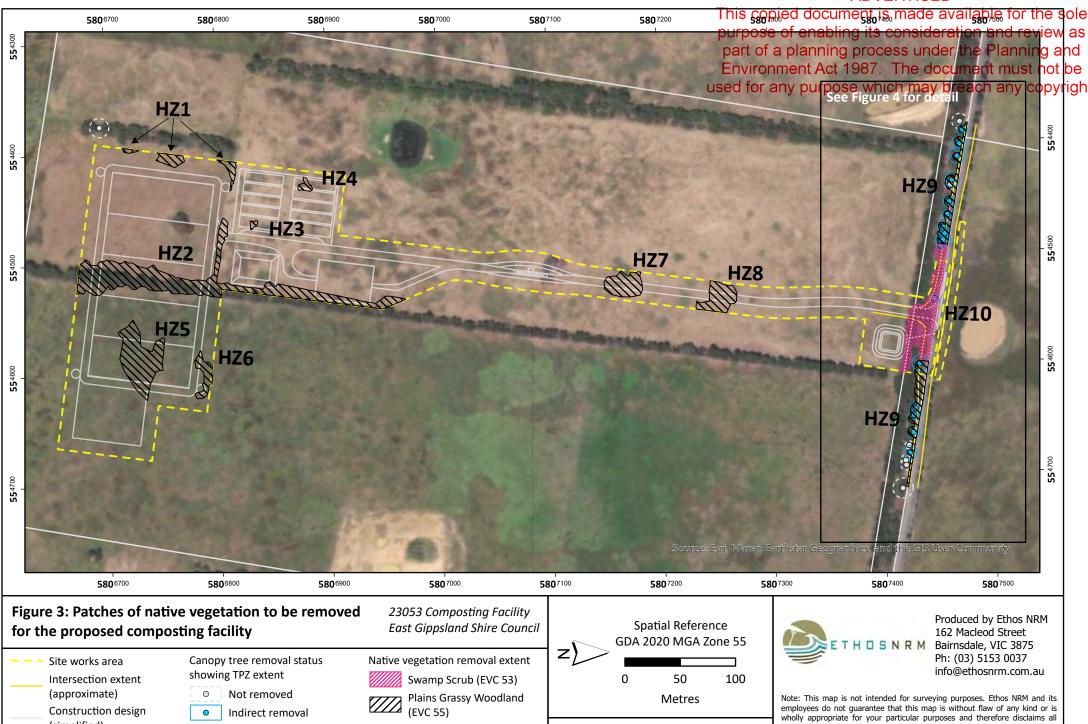
Ten patches of native vegetation were assessed using the Habitat Hectares method. The patches are shown in Figure 3 and Figure 4 shows the native vegetation removal on the roadside in more detail. Habitat Hectare results are summarized in Table 5 and assessment sheets are included in Appendix 3.

Table 5. Habitat Hectares results for native vegetation patches in the project area

BCS (Bioregional Conservation Status): E – Endangered

EVC: PGW - Plains Grassy Woodland

Habitat Zone		1	2	3&4	5&6	7&8	9	10	
	Bioregion				Gipp	sland Plain			
	EVC		PGW	PGW	PGW	PGW	PGW	PGW	SS
	EVC Number		55	55	55	55	55	55	53
	BCS		Е	E	E	E	E	E	E
		Max.	Score	Score	Score	Score	Score	Score	
	Large Trees	10	0	0	0	0	0	0	NA
	Canopy Cover	5	5	4	0	0	0	4	5
	Lack of weeds	15	0	4	0	4	6	0	6
	Understorey	25	5	5	5	5	5	15	5
C:t-	Recruitment	10	6	6	0	0	0	6	6
Site Condition	Organic litter	5	5	5	2	0	3	5	5
Condition	Logs	5	2	2	0	0	0	2	NA
	Total	75	23	26	7	9	14	32	27
	Multiplier	1.00	-	-	-	-	-	-	1.25
	Final Site Condition Score	75	23	26	7	18	14	32	34
	Patch size	10	1	4	1	1	1	4	4
Landssans	Neighbourhood	10	1	1	1	1	1	2	2
Landscape Context	Distance to core area	5	1	1	1	1	1	1	1
	Total	15	3	6	3	3	3	7	7
Ha	Habitat Score 100		26	32	10	12	17	39	41
Area of Hab	Area of Habitat Zone (hectares)		0.341	0.397	0.004/ 0.009	0.157/ 0.033	0.063/ 0.065	0.114	0.160



Date: 4 April 2024

Construction design

(simplified)

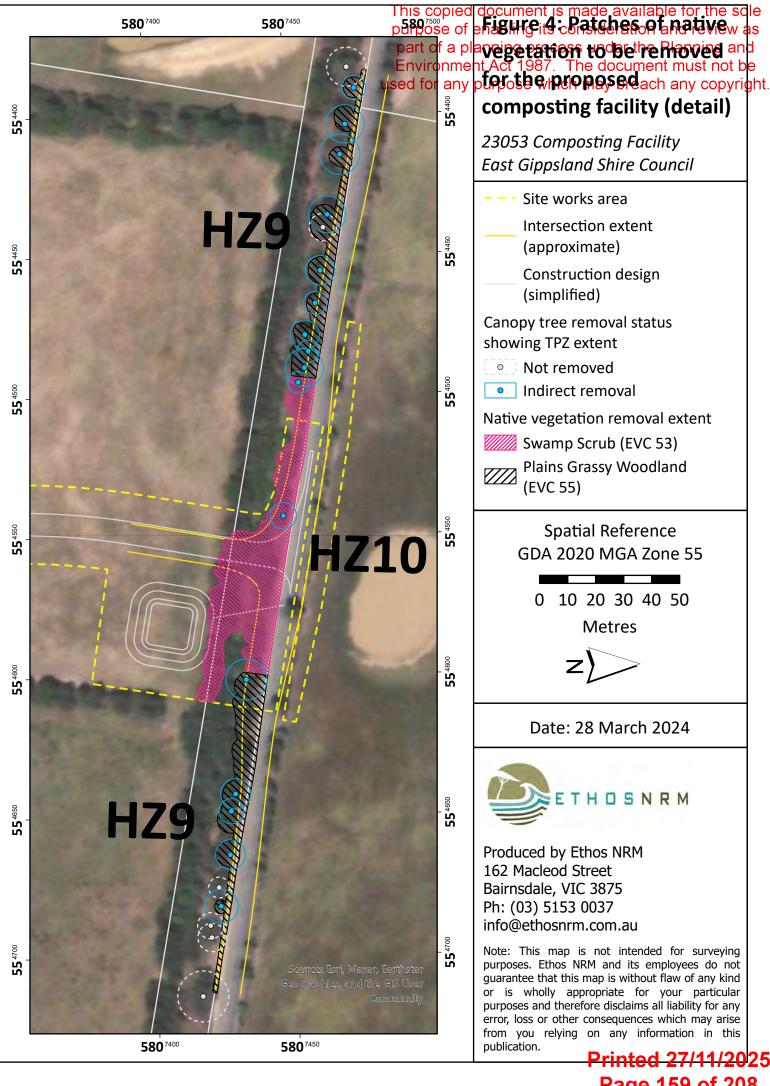
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3.5.5 Planning zones and overlays

The Planning Property Report generated using DTP's⁵ VicPlan mapping tool shows the land in question is within the Farming Zone. The report is included in Appendix 5.

3.5.5.1 Environmental Significance Overlay

An Environmental Significance Overlay covers the roadside vegetation only and is included in the East Gippsland Planning Scheme as the 'Goon Nure Wildlife Corridor'. Management practices encouraged under this ESO include:

- Encourage landholders to fence vegetation remnants.
- Develop and encourage application of an appropriate weed control program.
- Encourage cooperative fox control programs which minimize risk to non-target species.
- Encourage application of appropriate fire regime.
- Design a road maintenance strategy which minimizes damage to roadside vegetation.
- Encourage parallel plantings on freehold land to widen vegetation corridor.
- Encourage revegetation of any vegetation gaps along the roadside.

A small section of the roadside vegetation will be lost. It should be noted that some species, such as Ironbark *Eucalyptus tricarpa*, which are not indigenous to the Red Gum Plains have been planted in this corridor. It is understood that EGSC intends to plant some screening native vegetation to assist in compensating for the loss of this native vegetation.

3.5.5.2 Designated Bushfire Prone Area

The subject land is within a Designated Bushfire Prone Area. The Building Regulations 2018 apply bushfire protection standards for building works in designated BPA. EGSC is advised to check these standards with regard to the structures, such as a site office, proposed at the composting facility.

3.5.6 Topographic and landform information

Value	Site Applicability and Details
Role of native vegetation in	The removal of native vegetation to the minimum amount necessary
protecting water quality,	will not have a negative impact on water quality. No waterways or
waterways, and riparian	riparian ecosystems are present on the project site.
ecosystems.	
Site within 30 metres of	The project site falls within the Gippsland Lakes Ramsar site. No
wetland or waterway	wetland values exist within the development footprint, however. The
	site is beside an existing and busy landfill facility
Prevent land degradation	The subject land is flat. No Erosion Management Overlay applies.
particularly where ground	
slopes more than 20 percent,	
on land that is subject to soil	
erosion or slippage, in harsh	
environments.	
Preventing adverse effects on	The composting facility is part of a larger plan by East Gippsland Shire
groundwater quality.	Council to remove green waste from the regional landfill site

⁵ Department of Transport and Planning (Victoria)



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Value	Site Applicability and Details for any purpose which may breach	า any	copyrigh
Manage native vegetation to	EGSC will attempt to abide by the management recommendations in		
preserve identified landscape	the ESO (2.3.1) and intends to plant more native vegetation to enhance		
values.	these landscape values		
Native vegetation protected	The subject land and its native vegetation do not lie within a recognised		
under the Aboriginal Heritage	Area of Cultural Heritage Sensitivity.		
Act 2006.			

3.5.7 Avoid and minimize statement

Certain features of the site have constrained East Gippsland Shire Council's design of the proposed composting facility. Logistically, the site must be close to the existing regional landfill site. The proposed entry has been chosen to use existing low points within the site and road reserve and to limit the excavation required for internal works. Some removal of native planted vegetation is unavoidable but will be to the minimum extent necessary for access.

The one large tree on the property (a Gippsland Red-gum) will be retained. A large Swamp Gum on the roadside at the start of the slip lane has also been identified and the impact to the TPZ is 6% so this tree should be unaffected.

The main area of native grasses (adjacent to the eastern shelterbelt) has been avoided and the access track is largely through weed dominated pasture except for two small patches which have been mapped and accounted for in the offset calculation.

3.6 Past removal

EGSC has not applied to remove native vegetation on this land in the last five years.

3.7 Offset requirement

The offset requirement is summarised in Table 6. The DEECA NVR report is included in Appendix 6.

Table 6 Summary of general offset requirements

General offset amount	0.277 GHU
Vicinity	East Gippsland CMA or East Gippsland Shire
Minimum strategic biodiversity value score	0.352
Large trees	0

3.7.1 Offset statement

EGSC will purchase existing offset credits via a registered broker, or alternatively will use non-allocated offset credits already owned by EGSC.

These offsets are currently available for purchase on from the Native Vegetation Credit Register (NVCR). A report of available native vegetation credits is included in Appendix 7. EGSC must secure the offset from a third party or alternatively may utilise existing first party offsets if available. Recent trades on the NVCR indicate a unit price range of \$92,000 to \$170,000 per GHU in East Gippsland in 2023 (see Appendix 8)



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however prices are subject to market fluctuations. Therefore of the resting and post-to-which are the presided any copyright. credits is \$25,000 to \$47,000 excluding GST and brokerage fees. This report does not constitute securing that offset.

3.8 Non-Applicable Planning Permit Application Requirements

Table 7 summarizes the application requirements for a planning permit to remove native vegetation and identifies which ones are not relevant to the current project, and hence have not been addressed in this report.

Table 7 Summary of planning permit application requirements relevant to this project

Number	Application Requirement	Applicable (Y/N)
1	Information about the native vegetation to be removed	Υ
2	Topographic and land information relating to the native vegetation to be removed	Y
3	Recent, dated photographs of the native vegetation to be removed	Υ
4	Details of any other native vegetation approved to be removed, or that was removed without the required approvals	na
5	An avoid and minimise statement	Υ
6	A copy of the Property Vegetation Plan	na
7	Written defendable space statement	na
8	Native Vegetation Precinct Plan statement	na
9	Offset statement	Y
10	Site assessment report of the native vegetation to be removed	Y
11	Information about impacts to rare or threatened species habitat	Y

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5 APPENDICES

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Appendix 1. Threatened flora and fauna species MBA regords within 5 ten of the project sitech any copyright.

Taxon ID	Scientific Name	Common Name	FFG Status	Last record	Likelihood of occurrence
		FLORA			
500839	Corybas fimbriatus	Fringed Helmet-orchid	Е	17/06/2007	Low
501120	Echinopogon caespitosus var. caespitosus	Bushy Hedgehog-grass	E	20/08/2006	Low
501253	Eucalyptus bosistoana	Coast Grey-box	Е	3/08/2013	Low
502145	Melaleuca armillaris subsp. armillaris	Giant Honey-myrtle	Е	26/11/2012	Low
502494	Philydrum lanuginosum	Woolly Waterlily	Е	30/06/2011	Low
502795	Pterostylis fischiorum	Fisch's Greenhood	E	17/06/2007	Low
504754	Eucalyptus polyanthemos subsp. longior	Forest Red-box	E	11/11/2011	Low
		FAUNA			
5136	Ornithorhynchus anatinus	Platypus	V	25/11/2021	Low
10045	Lewinia pectoralis	Lewin's Rail	V	2/11/2020	Low
10112	Hydroprogne caspia	Caspian Tern	V	12/04/2021	Low
10117	Sternula albifrons	Little Tern	CE	2/03/2019	Low
10118	Sternula nereis	Fairy Tern	CE	3/12/2003	Low
10137	Pluvialis fulva	Pacific Golden Plover	V	1/12/2017	Low
10154	Tringa glareola	Wood Sandpiper	E	18/11/2019	Low
10157	Actitis hypoleucos	Common Sandpiper	V	6/02/2006	Low
10158	Tringa nebularia	Common Greenshank	Е	18/11/2019	Low
10159	Tringa stagnatilis	Marsh Sandpiper	Е	16/02/2019	Low
10170	Rostratula australis	Australian Painted- snipe	CE	6/11/2006	Low
10185	Egretta garzetta	Little Egret	E	2/03/2019	Low
10186	Ardea intermedia plumifera	Plumed Egret	CE	23/04/2021	Low
10187	Ardea alba modesta	Eastern Great Egret	V	11/02/2019	Low
10197	Botaurus poiciloptilus	Australasian Bittern	CE	22/04/2020	Low
10212	Spatula rhynchotis	Australasian Shoveler	V	15/03/2021	Low
10214	Stictonetta naevosa	Freckled Duck	E	1/03/2019	Low
10215	Aythya australis	Hardhead	V	18/04/2021	Low
10216	Oxyura australis	Blue-billed Duck	V	15/03/2021	Low
10217	Biziura lobata	Musk Duck	V	18/04/2021	Low
10220	Accipiter novaehollandiae	Grey Goshawk	E	22/08/2021	Low
10225	Hieraaetus morphnoides	Little Eagle	V	12/04/2021	Low
10226	Haliaeetus leucogaster	White-bellied Sea- Eagle	E	15/03/2021	Low
10230	Lophoictinia isura	Square-tailed Kite	V	14/12/2017	Low
10238	Falco subniger	Black Falcon	CE	12/05/2008	Low
10248	Ninox strenua	Powerful Owl	V	29/07/2017	Low
10268	Callocephalon fimbriatum	Gang-gang Cockatoo	E	26/06/2020	Low
10334	Hirundapus caudacutus	White-throated Needletail	V	16/03/2020	Low



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Taxon ID	Scientific Name	Common Na Heed for	arfyGpu Status	rposte whic	h Liketihobdea c occurrence	h any copyright.
10598	Grantiella picta	Painted Honeyeater	V	30/11/2017	Low	
13166	Litoria aurea	Green and Golden Bell Frog		13/01/2015	Low	
4701	Galaxiella pusilla	Dwarf Galaxias	Е	16/09/2021	Low	
903041	Nannoperca sp. 1	Flinders Pygmy Perch	V	21/03/2012	Low	

CE: Critically endangered

E: Endangered

V: Vulnerable

Note: Burrunan Dolphin was removed from this list

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Appendix 2. EPBC species

Species ID	Scientific Name	Common Name	Threatened Category	Likelihood of occurrence
		BIRDS		
847	Numenius madagascariensis	Eastern Curlew, Far Eastern Curlew	CE	Low
82338	Anthochaera phrygia	Regent Honeyeater	CE	Low
744	Lathamus discolor	Swift Parrot	CE	Low
747	Neophema chrysogaster	Orange-bellied Parrot	CE	Low
856	Calidris ferruginea	Curlew Sandpiper	CE	Low
1001	Botaurus poiciloptilus	Australasian Bittern	E	Low
77037	Rostratula australis	Australian Painted Snipe	E	Low
768	Callocephalon fimbriatum	Gang-gang Cockatoo	E	Low
67093	Melanodryas cucullata cucullata	South-eastern Hooded Robin, Hooded Robin (south-eastern)	E	Low
1060	Macronectes giganteus	Southern Giant-Petrel, Southern Giant Petrel	E	Low
89224	Thalassarche cauta	Shy Albatross	E	Low
855	Calidris canutus	Red Knot, Knot	E	Low
82950	Sternula nereis nereis	Australian Fairy Tern	V	Low
67062	Climacteris picumnus victoriae	Brown Treecreeper (south-eastern)	V	Low
525	Pycnoptilus floccosus	Pilotbird	V	Low
64445	Pachyptila turtur subantarctica	Fairy Prion (southern)	V	Low
59398	Stagonopleura guttata	Diamond Firetail	V	Low
929	Falco hypoleucos	Grey Falcon	V	Low
1061	Macronectes halli	Northern Giant Petrel	V	Low
682	Hirundapus caudacutus	White-throated Needletail	V	Low
877	Charadrius leschenaultii	Greater Sand Plover, Large Sand Plover	V	Low
470	Grantiella picta	Painted Honeyeater	V	Low
86380	Limosa lapponica baueri	Nunivak Bar-tailed Godwit, Western Alaskan Bar-tailed Godwit	V	Low
726	Neophema chrysostoma	Blue-winged Parrot	V	Low
67036	Calyptorhynchus lathami lathami	South-eastern Glossy Black-Cockatoo	V	Low
		FISH		



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Species ID	Scientific Name	Common Name	Threatened Category	Likelihood of occurrence
56790	Galaxiella pusilla	Eastern Dwarf Galaxias, Dwarf Galaxias	E	Low
26179	Prototroctes maraena	Australian Grayling	V	Low
		AMPHIBIANS		
1873	Uperoleia martini	Martin's Toadlet	Е	Low
1828	Litoria raniformis	Growling Grass Frog, Southern Bell Frog, Green and Golden Frog, Warty Swamp Frog, Golden Bell Frog	V	Low
1973	Heleioporus australiacus	Giant Burrowing Frog	V	Low
1870	Litoria aurea	Green and Golden Bell Frog	V	Low
		MAMMALS		
254	Petauroides volans	Greater Glider (southern and central)	E	Low
75184	Dasyurus maculatus maculatus (SE mainland population)	Spot-tailed Quoll, Spotted-tail Quoll, Tiger Quoll (SE mainland population)	E	Low
87600	Petaurus australis australis	Yellow-bellied Glider (south-eastern)	V	Low
96	Pseudomys novaehollandiae	New Holland Mouse, Pookila	V	Low
186	Pteropus poliocephalus	Grey-headed Flying-fox	V	Low
		PLANTS		
87152	Commersonia prostrata	Dwarf Kerrawang	E	Low
11896	Thelymitra epipactoides	Metallic Sun-orchid	E	Low
64886	Dianella amoena	Matted Flax-lily	E	Low
15202	Thesium australe	Austral Toadflax, Toadflax	V	Low
19215	Amphibromus fluitans	River Swamp Wallaby-grass, Floating Swamp Wallaby-grass	V	Low
64976	Senecio psilocarpus	Swamp Fireweed, Smooth-fruited Groundsel	V	Low
12149	Dodonaea procumbens	Trailing Hop-bush	V	Low
76215	Xerochrysum palustre	Swamp Everlasting, Swamp Paper Daisy	V	Low
13910	Glycine latrobeana	Clover Glycine, Purple Clover	V	Low
21883	Acacia caerulescens	Limestone Blue Wattle, Buchan Blue, Buchan Blue Wattle	V	Low
2119	Caladenia tessellata	Thick-lipped Spider-orchid, Daddy Long-legs	V	Low
56510	Pterostylis chlorogramma	Green-striped Greenhood	V	Low
		REPTILES		



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Species ID	Scientific Name	Common Name	Threatened Category	Likelihood of occurrence
84053	Lissolepis coventryi	Swamp Skink, Eastern Mourning Skink	E	Low
1649	Delma impar	Striped Legless Lizard, Striped Snake-lizard	V	Low



Appendix 3. Flora species recorded at the proposed composting facility site

Scientific Name	Common Name	Weed	CaLP Act status	1	2	3 & 4	5&6	7&8	9	10
Acacia implexa	Lightwood			x	x				x	x
Acacia longifolia subsp. longifolia	Coast Wattle			х	х				х	
Acacia mearnsii	Black Wattle				х					х
Acetosella vulgaris	Sheep Sorrel	Yes			х					
Agapanthus sp.	Agapanthus	Yes								х
Allocasuarina littoralis	Black Sheoak			х	х				х	
Arctotheca calendula	Cape Weed	Yes			х					
Asparagus asparagoides	Bridal Creeper	Yes ^a	R	х						
Asperula conferta	Prickly Woodruff									х
Austrostipa rudis subsp. rudis	Veined Spear-grass			х	х				х	х
Austrostipa sp.	Spear-grass						x			
Avena fatua	Wild Oat	Yes								х
Bromus hordeaceus	Soft Brome	Yes					x			
Brassica sp.	Wild Turnip	Yes		х				х		х
Briza maxima	Large Quaking-grass	Yes								х
Bursaria spinosa	Sweet Bursaria			x	x				x	
Callistemon citrinus	Crimson Bottlebrush	#			x					х
Callistemon sp.										х
Carex sp.	Sedge			х					х	
Cenchrus clandestinum	Kikuyu	Yes		x			x			х
Chloris truncata	Windmill-grass							х		
Cirsium vulgare	Spear Thistle	Yes	RC			х		х		
Coprosma quadrifida	Prickly Currant-bush			х					х	
Cynodon dactylon	Couch	Yes			х	х	х	х		
Cyperus eragrostis	Nutgrass	Yes					х			х
Dactylis glomerata	Cocksfoot	Yes		x	x					х



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Scientific Name	Common Name	Weed	CaLP Act status	1	2	3 & 4	5&6	7&8	9	10
Dichondra repens	Kidney-weed							х	х	х
Dysphania pumilio	Clammy Goosefoot				х			х		
Echinopogon ovatus	Hedgehog-grass				x					
Ehrharta erecta	Panic Veldt-grass	Yes		х						х
Einadia nutans	Nodding Saltbush			х	x				х	х
Elaeochaeris sp.	Spike-rush					x				
Eleusine tristachya	American Crows-foot Grass	Yes			х	х	х			
Eragrostis cilianensis	Stinkgrass	Yes						х		
Eragrostis curvula	African Love-grass	Yes			х			х		х
Erigeron bonariensis	Flaxleaf Fleabane	Yes						х		х
Eucalyptus globulus subsp. pseudoglobulus	Gippsland Blue-gum	#			х					
Eucalyptus obliqua	Messmate Stringybark			х						
Eucalyptus ovata	Swamp Gum									х
Eucalyptus pauciflora	Snow Gum	#		х	x					
Eucalyptus polyanthemos subsp. polyanthemos	Red Box			x	x				x	x
Eucalyptus sideroxylon	Red Ironbark	#		х						
Eucalyptus sp.	Eucalypt								x	
Eucalyptus tereticornis subsp. mediana	Gippsland Red-gum			х	x					х
Exocarpos cupressiformis	Cherry Ballart			х					x	
Fraxinus sp.	Ash	Yes								х
Gazania sp.	African Daisy	Yes								х
Hakea laurina	Pincushion Hakea	NN								х
Hakea salicifolia	Willow-leaf Hakea	NN								х
Holcus lanatus	Yorkshire Fog	Yes		х	x	х	x			х
Hypochaeris radicata	Flatweed	Yes		х	х	х		х		х
Imperata cylindrica	Blady-grass									х
Juncus sp.	Rush					х	х			



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Scientific Name	Common Name	Weed	CaLP Act status	1	2	3 & 4	5&6	7&8	9	10
Juncus subsecundus	Finger Rush				x		x	x		
Kunzea sp.	Burgan			х	х				х	х
Lachnagrostis filiformis	Common Blown-grass									х
Lepidium africanum	Common Peppercress	Yes								х
Leptospermum laevigatum	Coast Tea-tree									х
Lolium perenne	Perennial Rye-grass	Yes					х			
Lomandra filiformis	Spiny-headed Mat-rush									х
Lotus subbiflorus	Hairy Bird's-foot Trefoil	Yes					х	х		
Lycium ferocissimum	African Box-thorn	Yes	RC	х						
Lysimachia arvensis	Scarlet Pimpernel	Yes						х		
Malva parviflora	Small-flowered Mallow	Yes						х		
Melaleuca diosmifolia	Green Honey Myrtle	NN								х
Melaleuca ericifolia	Swamp Paperbark			х						х
Melaleuca hypericifolia	Hillock Bush	NN								х
Melaleuca parvistaminea	Rough-barked Honey-myrtle				x				x	х
Microlaena stipoides var. stipoides	Weeping Grass			х	х		х	х		
Oxalis corniculata	Yellow Wood-sorrel	Yes			x			х		
Panicum effusum	Hairy Panic				x	x		х	x	
Paspalum dilatatum	Paspalum	Yes			x			х		х
Phalaris aquatica	Toowoomba Canary-grass	Yes		x	x					х
Pittosporum undulatum	Sweet Pittosporum	#		x					x	
Plantago lanceolata	Ribwort	Yes								х
Poa sieberiana	Blue Tussock-grass									х
Portulaca oleracea	Pigweed	Yes								х
Rubus fruticosus	Blackberry	Yes	RC							х
Rumex brownii	Slender Dock						x	х		
Rytidosperma caespitosum	Wallaby-grass			х	x				х	х
Rytidosperma setaceum var. setaceum	Bristly Wallaby-grass				х					х



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Scientific Name	Common Name	Weed	CaLP Act status	1	2	3 & 4	5&6	7&8	9	10
Setaria spp.	Pigeon Grass	Yes			x		х			
Solanum nigrum s.s.	Black Nightshade	Yes		x			x			
Solanum sp.	Nightshade	Yes					x			
Sonchus asper	Rough Sow-thistle	Yes				х				х
Sonchus oleraceus	Common Sow-thistle	Yes		х	x					х
Sporobolus africanus	Rat-tail Grass	Yes		х	x					
Themeda triandra	Kangaroo Grass			х					х	х
Trifolium repens var. repens	White Clover	Yes					х			
Vulpia myuros	Rat's-tail Fescue	Yes			х			х		

[#] indigenous species but not characteristic of the Plains Grassy Woodland EVC

NN = not native to Victoria



RC = Regionally controlled. These invasive plants are usually widespread in a region. To prevent their spread, ongoing control measures are required. Landowners must take all reasonable steps to prevent the growth and spread of regionally controlled weeds on their land.

R = Restricted: This category includes plants that pose an unacceptable risk of spreading in this state and are a serious threat to another state or territory of Australia.

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'Site Condition Score'

Large Trees	Sco	0					
Category & Description	% Canopy Health*						
	> 70%	30-70%	< 30%				
None present	0	0	0				
> 0 to 20% of the benchmark number of large trees/ha	3	2	1				
> 20% to 40% of the benchmark number of large trees/ha	4	3	2				
> 40% to 70% of the benchmark number of large trees/ha	6	5	4				
> 70% to 100% of the benchmark number of large trees/ha	8	7	6				
≥ the benchmark number of large trees/ha	10	9	8				

Large trees are defined by diameter at breast height (dbh)

Estimate proportion of an expected healthy canopy cover that is present (i.e. not missing due to tree death or decline, or mistletoe infestation).

Tree Canopy Cover	Sco	re	5		
Category & Description	% Canopy Health *				
	> 70%	30-70%	< 30%		
< 10% of benchmark cover	0	0	0		
< 50% or > 150% of benchmark cover	- 3	2	1		
≥ 50% or ≤ 150% of benchmark cover	5	4	3		

Tree canopy is defined as those canopy tree species reaching \geq 80% of mature height - see EVC benchmark description.

Estimate proportion of an expected healthy canopy cover that is present (i.e. not missing due to tree death or decline, or mistletoe infestation).

Lack of Weeds	Sco	re							
Category & Description	'high threat' weeds*								
	None	≤ 50%	> 50%						
> 50% cover of weeds	4	2	0						
25 - 50% cover of weeds	7	6	4						
5 - 25% cover of weeds	11	9	7						
< 5% cover of weeds**	15	13	11						

* proportion of weed cover due to 'high threat' weeds - see EVC benchmark for guide. 'High threat' weed species are defined as those introduced species (including

non-indigenous 'natives') with the ability to out-compete and substantially reduce one or more indigenous life forms in the longer term assuming on-going current site characteristics and disturbance regime.

The EVC benchmark lists typical weed species for the EVC in the bioregion and provides an estimate of their 'invasiveness' and 'impact'. In general, those weed species considered to have a *high impact* are considered *high threat* regardless of their invasiveness.

 $\ast\ast$ if total weed cover is negligible (<1%) and high threat weed species are present then score '13'.

Understorey	Life forms
-------------	------------

LF Code from EVC benchmark	# spp observed / Benchmark spp.	% cover observed / Benchmark % cover	Present (✓)	Modified (√)
IT	0/4	015	X	
T	0/	0/5	X	
MS	4/2	25/10	1	
SS	2 / 1 .	5/1	V.	
PS	1/1	1/1	V	
LH	0/1	015	X	
MH	0/10	0 120	×	
SIT	013	015	×	
LIG	0 2	0/5	×	
-NG	0 1	0/10	×	,
MTG	19	10 135	V.	/
1NG	2/2	10/10	V	X
BIL	1	0/10	X	
	1	1	6/	
	1	1	3/13	
	1	1	1	1

For life forms with benchmark cover of < 10%, considered 'present' if

Present

any specimens are observed.

For life forms with benchmark cover of \geq 10%, considered the life form occupies at least 10% of benchmark cover

For life forms with benchmark cover of <10%, then considered substantially 'modified' if the life form has either:

Modified

< 50% of the benchmark species diversity; or no reproductively-mature specimens are observed.

(apply only where life. form is resent')

For life forms with benchmark cover of ≥ 10%, then considered substantially 'modified' if the life form has either:

< 50% of benchmark cover; or

< 50% of benchmark species diversity; or ≥ 50% of benchmark cover due largely to immature canopy specimens but the cover of reproductively-mature specimens is < 10% of the benchmark cover.

Inderstorey	Score	5
Category & Description		PIN CO
All strata and lifeforms effec	tively absent	0
Up to 50% of life forms pres	sent	5
≥ 50% to 90% of lifeforms present	of those present, ≥ 50% substantially modified	10
	 of those present, < 50% substantially modified 	15
≥ 90% of lifeforms present	 of those present, ≥ 50% substantially modified 	15
	 of those present, < 50% substantially modified 	20
	 of those present, none substantially modified 	25



⁻ see EVC benchmark.

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Vegetation Quality Field Assessment Sheet

Version 1.3 October 2004

ecruitme	nt	5	core	<u> </u>
Category &	Description	High diversity*°	Low diversity*	
	within EVC not dri	iven by episodic	0	0
No evidence of a	within EVC	clear evidence of appropriate episodic event	0	0
reclusione dri	driven by episodic events^	no clear evidence of appropriate episodic event	5	5
Evidence of at least one		< 30%	3	1
recruitment 'cohort' in a	species present	30 - 70%	(6)	3
least one life-form	adequate recruitment*	≥ 70%	10	5

^{+ &#}x27;cohort' refers to a group of woody plants established in a single ep include suppressed canopy species individuals).

^{*} high diversity defined as \geq 50% of benchmark woody species diversity

Organic Litter	Score	5
Category & Description	Dominated by native organic litter	Dominated by non-native organic litter
< 10% of benchmark cover	0	0
< 50% or > 150% of benchmark cover	3	2
> 50% or < 150% of benchmark cover	(5)	4

Species Recrui	tment
----------------	-------

Woody species recorded in habitat zone	Adequate Recruitment (✔)
Eucalypt canopy (combined species)	X
Mela Orcilola	1
Palerborle	X
lotto cores	X
EL MANAGE CONTRACTOR OF THE PARTY OF THE PAR	1
	2/2
	-
number of woody spp. in EVC benchmark (SS and taller)	

Logs	S	core
Category & Description	Large logs present*	Large logs absent*
< 10% of benchmark length	0	0
< 50% of benchmark length	3	(2)
> 50% of benchmark length	5	4

Large logs defined as those with diameter ≥ 0.5 of benchmark large tree dbh.

<u>'Landscape Context Score'</u>

Patch Size Score	1
Category & Description	-
< 2 ha	
Between 2 and 5 ha	2
Between 5 and 10 ha	4
Between 10 and 20 ha	6
≥ 20 ha, but 'significantly disturbed'*	8
> 20 ha, but not 'significantly disturbed'*	10

2 20 Hay But 115	
* 'significantly disturbed' defined as per	new york Country analyses eq. mading.
* Interdeposits dicturbed defined as per	KEN OID GLOWELL CHICKNESS OF LANDING
* 'significantly disturbed' defined as per	bar within frommented landscapes.
avazing etc. — effectively most i	Datches within magnification remarks

Distance to	Core Area	Score
Distance	Core Area not significantly disturbed*	Core Area significantly disturbed*
> 5 km	0	0
1 to 5 km	2	(1)
< 1 km	4	3
contiguous	5	4

^{*} defined as per RFA 'Old Growth' analyses.

eighbourhood		Score	1.7
Radius from site	% Native vegetation	Weighting	
100 m	40	0.03	102
1 km	20	0.04	0.8
5 km	40	0.03	102
	subtract 2 if the	neighbourhood is tly disturbed'	3.7
	de generalista de la companya del la companya de la	Add Values and 'round-off'	12

^{*} to nearest 20%.

Multiply % native vegetation x Weighting for each radius from the zone (eg. 40% x 0.03 = 1.2); then add values to obtain final Neighbourhood Value.

	":	Site	Con	iitio	n Sc	ore'		Co	dsca intex core	ct	
Component	Sees	Tree Canopy Cover	Weeds	orey	nent	Litter		ize	Neighbourhood	Distance to Core Area	Total
Comp	Large Trees	Tree Car	Lack of Weeds	Understorey	Recruitment	Organic Litter	Logs	Patch Size	Neighb	Distanc	100

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refer to EVC benchmark for clarification.

^{*} treat multiple eucalypt canopy species as one species.

present if large log length is ≥ 25% of EVC benchmark log length.

[#] absent if large log length is < 25% of EVC benchmark log length.

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'Site Condition	Score'
-----------------	--------

Large Trees	Sco	re	0
Category & Description	96	% Canopy Health*	
	> 70%	30-70%	< 30%
None present	0	0	0
> 0 to 20% of the benchmark number of large trees/ha	3	2	1
> 20% to 40% of the benchmark number of large trees/ha	4	3	2
> 40% to 70% of the benchmark number of large trees/ha	6	5	4
> 70% to 100% of the benchmark number of large trees/ha	8	7	6
≥ the benchmark number of large trees/ha	10	9	8

Large trees are defined by diameter at breast height (dbh)

^{*} Estimate proportion of an expected healthy canopy cover that is present (i.e. not missing due to tree death or decline, or mistletoe infestation).

Tree Canopy Cover	Sco	re	4
Category & Description	96 (Canopy Hea	ilth *
	> 70%	30-70%	< 30%
< 10% of benchmark cover	0	0	0
< 50% or > 150% of benchmark cover	3	2	1
≥ 50% or ≤ 150% of benchmark cover	5	4	3

Tree canopy is defined as those canopy tree species reaching $\geq 80\%$ of mature height - see EVC benchmark description.

^{*} Estimate proportion of an expected healthy canopy cover that is present (i.e. not missing due to tree death or decline, or mistletoe infestation).

Lack of Weeds	Sco	ore	
Category & Description	'h <u>i</u>	gh threat' wee	eds*
	None	≤ 50%	> 50%
> 50% cover of weeds	4	2	0
25 - 50% cover of weeds	7	6	(4)
5 - 25% cover of weeds	11	9	7
< 5% cover of weeds**	15	13	11

st proportion of weed cover due to 'high threat' weeds - see EVC benchmark for guide. 'High threat' weed species are defined as those introduced species (including non-indigenous 'natives') with the ability to out-compete and substantially reduce one or more indigenous life forms in the longer term assuming on-going current site characteristics and disturbance regime.

The EVC benchmark lists typical weed species for the EVC in the bioregion and provides an estimate of their 'invasiveness' and 'impact'. In general, those weed species considered to have a high impact are considered high threat regardless

Understorey Life forms

LF Code from EVC benchmark	# spp observed / Benchmark spp.	% cover observed / Benchmark % cover	Present (*)	Modified (✓)
IT	DIA	015	×	
	0/1	015	× /	
MS	8/2	30/10	V	X
-55	3/1	5/1	V	X
45	1/1	1/1		X
H	0/.1	0/5	0	
WII	0/10	0/20	0	
- 54	0/3	0/5	0	
19	1/0	3/5		X
LNG	0/1	0/0	X	
MIS	4 9	20/35	Vi	V
MNG	5/5	0/10	/	75
1516		0 10	X	
				ol.
		/		113

For life forms with benchmark cover of < 10%, considered 'present' if

Present

any specimens are observed.

For life forms with benchmark cover of ≥ 10%, considered 'present' if

 the life form occupies at least 10% of benchmark cover. For life forms with benchmark cover of <10%, then considered substantially 'modified' if the life form has either:

< 50% of the benchmark species diversity; or Modified

(apply only where life form is 'present')

no reproductively-mature specimens are observed. For life forms with benchmark cover of \geq 10%, then considered

substantially 'modified' if the life form has either:

< 50% of benchmark cover; or

 < 50% of benchmark species diversity; or
 ≥ 50% of benchmark cover due largely to immature canopy specimens but the cover of reproductively-mature specimens is < 10% of the benchmark cover.

Understorey	Score	5
Category & Description		M STYLE E
All strata and lifeforms effect	tively absent	0
Up to 50% of life forms pres	sent	5
≥ 50% to 90% of lifeforms present	 of those present, ≥ 50% substantially modified 	10
	 of those present, < 50% substantially modified 	15
≥ 90% of lifeforms present	 of those present, ≥ 50% substantially modified 	15
	 of those present, < 50% substantially modified 	20
	 of those present, none substantially modified 	25



⁻ see EVC benchmark.

stst if total weed cover is negligible (<1%) and high threat weed species are present then score `13'.

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Vegetation Quality Field Assessment Sheet

Version 1.3 October 2004

Recruitme	nt	S	core	6
	Description		High diversity**	Low diversity*°
	within EVC not dri events	iven by episodic	0	0
No evidence of a	within EVC	clear evidence of appropriate episodic event	0	0
recruitment 'cohort'*	driven by episodic events^	no clear evidence of appropriate episodic event	5	5
	proportion of	< 30%	3	1
at least one recruitment 'cohort' in a	species present	30 - 70%	6	3
least one	adequate recruitment°	≥ 70%	10	5

^{+ &#}x27;cohort' refers to a group of woody plants established in a single episode (can include suppressed canopy species individuals).

^{*} high diversity defined as \geq 50% of benchmark woody species diversity

Organic Litter	Score	5
Category & Description	Dominated by native organic litter	Dominated by non-native organic litter
< 10% of benchmark cover	0	0
< 50% or > 150% of benchmark cover	3	2
≥ 50% or ≤ 150% of benchmark cover	5	44

Species Recruitment

Adequate Recruitment
1
3/7
4296

Logs		core	
Category & Description	Large logs present*	Larg ab	je logs sent
< 10% of benchmark length	0		0
< 50% of benchmark length	3		2
≥ 50% of benchmark length	5		4

Large logs defined as those with diameter \geq 0.5 of benchmark large tree dbh.

[#] absent if large log length is < 25% of EVC benchmark log length.

<u>'Landscape</u>	<u>Context</u>	Score

Patch Size So	core 4
Category & Description	
< 2 ha	1
Between 2 and 5 ha	2
Between 5 and 10 ha	
Between 10 and 20 ha	0
≥ 20 ha, but 'significantly disturbed'*	8
≥ 20 ha, but not 'significantly disturbed'*	10

^{* &#}x27;significantly disturbed' defined as per RFA 'Old Growth' analyses eg. roading, coupes, grazing etc. — effectively most patches within fragmented landscapes.

eighbour	hood	Score	1.2
Radius from site	% Native * vegetation*	Weighting	
100 m	40	0.03	1.3
1 km	20	0.04	0.8
5 km	40	0.03	1.5
	subtract 2 if the	neighbourhood is tly disturbed'	3-2
Annual Section of the Party of		Add Values and 'round-off'	1.2

^{*} to nearest 20%.

Multiply % native vegetation x Weighting for each radius from the zone (eg. 40% x 0.03 = 1.2); then add values to obtain final Neighbourhood Value.

Distance to	Core Area	Score
Distance	Core Area not significantly disturbed*	Core Area significantly disturbed*
> 5 km	0	0
L to 5 km	2	(1)
< 1 km	4	
contiguous	5	4

	1	Site	Con	ditio	n Sc	ore'		Co	dsca ntex core	t	
Component	ses	Tree Canopy Cover	Needs	orey	nent	Litter		ize	Neighbourhood	Distance to Core Area	Total
Comp	Large Trees	Tree Can	Lack of Weeds	Understorey	Recruitment	Organic Litter	Logs	Patch Size	Neighb	Distano	100
Score	0	4	4	5	6	5	2	4	12	1	32

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refer to EVC benchmark for clarification.

treat multiple eucalypt canopy species as one species.

^{*} present if large log length is \geq 25% of EVC benchmark log length.

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Vegetation Quality Field Assessment Sheet process unepathmeter and /ersion 1.3 - October 2004 ment Act 1987 Tsustainabilityrand not be **Ebverehment**copyright Map Name/No.

'Site Condition Score

Large Trees	Sco	re	0	
Category & Description	% Canopy Health*			
	> 70%	30-70%	< 30%	
None present	0	0	0	
> 0 to 20% of the benchmark number of large trees/ha	3	2	1	
> 20% to 40% of the benchmark number of large trees/ha	4	3	2	
> 40% to 70% of the benchmark number of large trees/ha	6	5	4	
> 70% to 100% of the benchmark number of large trees/ha	8	7	6	
≥ the benchmark number of large trees/ha	10	9	8	

EVC

Large trees are defined by diameter at breast height (dbh)

see EVC benchmark,

Estimate proportion of an expected healthy canopy cover that is present (i.e. not missing due to tree death or decline, or mistletoe infestation).

Tree Canopy Cover	Sco	re	0
Category & Description	% (Canopy Hea	olth *
	> 70%	30-70%	< 30%
< 10% of benchmark cover	0	0	0
< 50% or > 150% of benchmark cover	3	2	1
\geq 50% or \leq 150% of benchmark cover	5	4	3

Tree canopy is defined as those canopy tree species reaching \geq 80% of mature height - see EVC benchmark description.

Estimate proportion of an expected healthy canopy cover that is present (i.e. not missing due to tree death or decline, or mistletoe infestation).

Lack of Weeds	Sco	ore		
Category & Description	'high threat' weeds*			
	None	≤ 50%	> 50%	
> 50% cover of weeds	4	2	707	
25 - 50% cover of weeds	7	6	4	
5 - 25% cover of weeds	11	9	7	
< 5% cover of weeds**	15	13	11	

* proportion of weed cover due to 'high threat' weeds - see EVC benchmark for guide. 'High threat' weed species are defined as those introduced species (including non-indigenous 'natives') with the ability to out-compete and substantially

reduce one or more indigenous life forms in the longer term assuming on-going current site characteristics and disturbance regime.

The EVC benchmark lists typical weed species for the EVC in the bioregion and provides an estimate of their 'invasiveness' and 'impact'. In general, those weed species considered to have a *high impact* are considered *high threat* regardless

** If total weed cover is negligible (<1%) and high threat weed species are present then score '13'.

Understorey Life	e torms
------------------	---------

LF Code from EVC benchmark	# spp observed / Benchmark spp.	% cover observed / Benchmark % cover	Present (√)	Modified (√)
17	0/1	015	X	
T	0/1	0/3	X	
MS	0/2	0/10	X	
_£\$	0/1	0/1	X	
PS	0/1	0/1	X.	
H	100	<1/5	V.	X
MH	0/10	0 / 20	X	
511	0/2	015	X	
LTG	1/2	515	V	X
ING	011	0/10	X	/
MIG	2/9	25/35	/	V
MNG	1/2	10/10	~	X
BL		0/10	X	
-1		/	1	/
	/	1	TY	13
	1	1	1	

For life forms with benchmark cover of < 10%, considered 'present' if

Present

any specimens are observed,

For life forms with benchmark cover of \geq 10%, considered

the life form occupies at least 10% of benchmark cover. For life forms with benchmark cover of <10%, then considered substantially 'modified' if the life form has either:

< 50% of the benchmark species diversity; or

Modified (apply only where life form is

no reproductively-mature specimens are observed.

For life forms with benchmark cover of \geq 10%, then considered substantially 'modified' if the life form has either:

< 50% of benchmark cover; or

< 50% of benchmark species diversity; or

≥ 50% of benchmark cover due largely to immature canopy specimens but the cover of reproductively-mature specimens is < 10% of the benchmark cover.

Understorey	Score	5
Category & Description		
All strata and lifeforms effect	tively absent	0
Up to 50% of life forms pres		5
≥ 50% to 90% of lifeforms present	of those present, ≥ 50% substantially modified	10
	 of those present, < 50% substantially modified 	15
≥ 90% of lifeforms present	 of those present, ≥ 50% substantially modified 	15
	 of those present, < 50% substantially modified 	20
	 of those present, none substantially modified 	25



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Vegetation Quality Field Assessment Sheet Version 1.3 October 2004

Recruitme	nt .	Se	core	0
Category &	- 17		High diversity*°	Low diversity**
	within EVC not dri events	ven by episodic	0	0
No evidence of a	within EVC	clear evidence of appropriate episodic event	0	0
recruitment 'cohort'*	driven by episodic events^	no clear evidence of appropriate episodic event	5	5
Evidence of	proportion of native woody	< 30%	3	1
at least one recruitment 'cohort' in a	species present	30 - 70%	6	3
least one life-form	adequate recruitment°	≥ 70%	10	5 enisode (can

^{+ &#}x27;cohort' refers to a group of woody plants established in a single episode (can include suppressed canopy species individuals).

^{*} high diversity defined as \geq 50% of benchmark woody species diversity.

Organic Litter	Score	
Category & Description	Dominated by native organic litter	Dominated by non-native organic litter
< 10% of benchmark cover	D	0
< 50% or > 150% of benchmark cover	3	(2)
> 50% or < 150% of benchmark cover	5	4

Species Reci	ruitment
--------------	----------

Eucalypt canopy (combined species)	
Finalization calloby (combined specific	
Section of the second section of the section of the second section of the second section of the second section of the se	
NAME AND POST OF THE PARTY OF T	
The second state of the second	
The residence of the second se	
number of woody spp. in EVC benchmark (SS and talle	0

Logs	Score				
Logs Category & Description	Large logs present*	Large logs absent			
< 10% of benchmark length	0	0			
< 50% of benchmark length	3	2			
< 50% of benchmark length	5	4			

Large logs defined as those with diameter ≥ 0.5 of benchmark large tree dbh.

<u> 'Landscape Context Score'</u>

Patch Size Score	
Category & Description	
< 2 ha	
Between 2 and 5 ha	2
Between 5 and 10 ha	4
Between 10 and 20 ha	6
≥ 20 ha, but 'significantly disturbed'*	8
≥ 20 ha, but not 'significantly disturbed'*	10

^{* &#}x27;significantly disturbed' defined as per RFA 'Old Growth' analyses eg. roading, coupes, grazing etc. – effectively most patches within fragmented landscapes.

ighbour	hood	Score			
Radius from site	% Native vegetation	Weighting			
100 m	20	0.03	0.6		
1 km	2.0	0.04	0.8		
5 km	40	0.03	02		
3 1011	subtract 2 if the	neighbourhood is tly disturbed'	2.6		
		Add Values and 'round-off'	0.6		

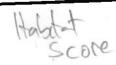
^{*} to nearest 20%.

Multiply % native vegetation x Weighting for each radius from the zone (eg. 40% x 0.03 = 1.2); then add values to obtain final Neighbourhood Value.

Distance to	Core Area	Score
Distance	Core Area not significantly disturbed*	Core Area significantly disturbed*
> 5 km	0	0
1 to 5 km	2	
< 1 km	4	3
contiguous	5	4

defined as per RFA 'Old Growth' analys

		'Site Condition Score'							ntex core		
Component	səə.	Tree Canopy Cover	Weeds	torey	ment	Organic Litter		Size	Neighbourhood	Distance to Core Area	Total
Comi	Large Trees	Tree Ca	Lack of Weeds	Understorey	Recruitment	Organi	Logs	Patch Size	Neighi	Distar	100



refer to EVC benchmark for clarification.

[°] treat multiple eucalypt canopy species as one species.

^{*} present if large log length is \geq 25% of EVC benchmark log length.

[#] absent if large log length is < 25% of EVC benchmark log length.

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Site Name/No. Date a 19 Site	Location Jused for any	/ purpose which may threach pay c obyrigh
Assessor(s) MOB TF 5+6	East Paddock	Date 10 (11)
	Map Name/No.	AMG 145 35 N 5806709
Tenure EVC	rgu	BioregionGPlace
# 2 X 2 B % E 4 B 2 B 4 B 4 B 4 B 4 B 4 B 4 B 4 B 4 B	'Site Condition Score'	

Large Trees	Score		0
Category & Description	% Canopy Health*		
	> 70%	30-70%	< 30%
None present	0	0	0
> 0 to 20% of the benchmark number of large trees/ha	3	2	1
> 20% to 40% of the benchmark number of large trees/ha	4	3	2
> 40% to 70% of the benchmark number of large trees/ha	6	5	4
> 70% to 100% of the benchmark number of large trees/ha	8	7	6
≥ the benchmark number of large trees/ha	10	9	8

Large trees are defined by diameter at breast height (dbh) see EVC benchmark.

* Estimate proportion of an expected healthy canopy cover that is present (i.e. not missing due to tree death or decline, or mistletoe infestation).

Tree Canopy Cover	Sco	re	10
Category & Description	%	Сапору Неа	alth *
	> 70%	30-70%	< 30%
< 10% of benchmark cover	0	0	0
< 50% or > 150% of benchmark cover	3	2	1
≥ 50% or ≤ 150% of benchmark cover	5	4	3

Tree canopy is defined as those canopy tree species reaching $\geq 80\%$ of mature height - see EVC benchmark description.

* Estimate proportion of an expected healthy canopy cover that is present (i.e. not missing due to tree death or decline, or mistletoe infestation).

Lack of Weeds	Sco	ore	4
Category & Description	This	gh threat' wee	eds*
	None	≤ 50%	> 50%
> 50% cover of weeds	4	7	0
25 - 50% cover of weeds	7	6	4
5 - 25% cover of weeds	11	9	
< 5% cover of weeds**	15	13	7

'High threat' weed species are defined as those introduced species (including non-indigenous 'natives') with the ability to out-compete and substantially reduce one or more indigenous life forms in the longer term assuming on-going current site characteristics and disturbance regime.

The EVC benchmark lists typical weed species for the EVC in the bioregion and provides an estimate of their 'invasiveness' and 'impact'. In general, those weed species considered to have a *high impact* are considered *high threat* regardless

stst if total weed cover is negligible (<1%) and high threat weed species are present then score '13'.

Understorey Life forms

LF Code from EVC benchmark	# spp observed / Benchmark spp.	% cover observed / Benchmark % cover	Present (√)	Modified (✓)
1	0/0	0/5	X	
	011	015	×	
MS	0/2	0/10	X	
55	0/1	0/1	X	· · · · · · · · · · · · · · · · · · ·
15	0/1	0/1	Ÿ	
上口	0/1	015	V	· · · · · · · · · · · · · · · · · · ·
MH	1/10	1/20	\$	
SH	1/3	1/8		- / -
176	1 3	015	1	<u> </u>
Na	0	0 10	¥ .	
MTG	2 9	25/38	X/	-/-
1116	1/2	10/10	1	V
1311	1	0/10	~	X
		0,10	1	
			All	
			711	3
	or life former with a	1	1, 1	0

For life forms with benchmark cover of < 10%, considered 'present' if

Present

any specimens are observed.

For life forms with benchmark cover of ≥ 10%, considered

 the life form occupies at least 10% of benchmark cover. For life forms with benchmark cover of <10%, then considered substantially 'modified' if the life form has either:

< 50% of the benchmark species diversity; or

no reproductively-mature specimens are observed.

Modified

(apply only where life form is 'present')

For life forms with benchmark cover of \geq 10%, then considered substantially 'modified' if the life form has either:

< 50% of benchmark cover; or < 50% of benchmark species diversity; or

≥ 50% of benchmark cover due largely to immature canopy specimens but the cover of reproductively-mature specimens is < 10% of the benchmark cover.

Understorey	Score	5
Category & Description		
All strata and lifeforms effec	tively absent	1 0
Up to 50% of life forms pres		+
≥ 50% to 90% of lifeforms present	 of those present, ≥ 50% substantially modified 	10
	 of those present, < 50% substantially modified 	15
≥ 90% of lifeforms present	 of those present, ≥ 50% substantially modified 	15
	 of those present, < 50% substantially modified 	20
	 of those present, none substantially modified 	25



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Vegetation Quality Field Assessment Sheet Version 1.3 October 2004

{ecruitme	nt.	Se	core	0
Category &			High diversity*°	Low diversity*°
	within EVC not dri	ven by episodic	0	0
No evidence of a	within EVC	clear evidence of appropriate episodic event	0	0
recruitment 'cohort'* driven by episodic events^	no clear evidence of appropriate episodic event	5	5	
Evidence of	proportion of native woody	< 30%	3	1
at least one recruitment		30 - 70%	6	3
least one	adequate	≥ 70%	10	5 opicode (can

^{+ &#}x27;cohort' refers to a group of woody plants established in a single episode (include suppressed canopy species individuals).

^{*} high diversity defined as \geq 50% of benchmark woody species diversity

aia littor	Score	
Organic Litter Category & Description	Dominated by native organic litter	Dominated by non-native organic litter
the second conver	0	0
< 10% of benchmark cover < 50% or > 150% of benchmark cover	3	2
< 50% or > 150% of benchmark cover	5	4

Species	Recruitment

Adequate Recruitment
W. CO 2 15 17
er)

		core
Category & Description	Large logs present*	Large logs absent*
	0	0
< 10% of benchmark length	3	2
< 50% of benchmark length	5	4

Large logs defined as those with diameter ≥ 0.5 of benchmark large tree dbh.

Landscape Context Score

Patch Size	Score
Category & Description	(1)
< 2 ha	
Between 2 and 5 ha	4
Between 5 and 10 ha	6
Between 10 and 20 ha	8
≥ 20 ha, but 'significantly disturbed'*	
≥ 20 ha, but not 'significantly disturbed	4 'Old Growth' analyses eg. roa

2 20 Huj Due 112	and a second sec	os os madino.
	or per DEA 'Old Growth' analys	ses eg. 100amig
* Inight disturbed Oction	ned as per RFA 'Old Growth' analys vely most patches within fragment	ad landscapes.
* Signification disease - co	walk most patches within tragine in	Ed Ignascapes.
enunce grazing etc effective	AGIA ILIOSE barerias	

ighbour	hooa	Score	
Radius from site	% Native vegetation	Weighting	- ~ 7
100 m	20	0.03	<u> U 6</u>
1 km	20	0.04	0.8
	40	0.03	03
5 km	subtract 2 if the	neighbourhood is tly disturbed'	2.6
	AND MICHAEL COMES STATES THE REAL PROPERTY OF THE PERSON O	Add Values and 'round-off'	0.0

^{*} to nearest 20%.

Multiply % native vegetation x Weighting for each radius from the zone (eg. 40% x 0.03 = 1.2); then add values to obtain final Neighbourhood Value.

Distance to	Core Area	Score
Distance	Core Area not significantly disturbed*	Core Area significantly disturbed*
> 5 km	0	0
1 to 5 km	2	1
	4	3
< 1 km contiguous	5	4

	'9		-	FF	n Sco	at s		'Lan Co	dsca ntex core	t	
Component	Large Trees	Tree Canopy Cover	Lack of Weeds	Understorey	Recruitment	Organic Litter	Fogs	Patch Size	Neighbourhood	Distance to Core Area	Total
Score	0	0	4	S	0	0	0	1	0.6	1	110

[^] refer to EVC benchmark for clarification.

treat multiple eucalypt canopy species as one species.

^{*} present if large log length is \geq 25% of EVC benchmark log length,

[#] absent if large log length is < 25% of EVC benchmark log length.

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Site Name/No. 20 0 0 1 9 5 To	* ULocation Johnsed for any	purpose which may Ebwischment copy
Assessor(s) HDB TF	1/4/	Date
Tanua Facr	Map Name/No.	AMG 354331 NS 80/176
	(44)	Bioregion 90 Para
#= -= \u034 = 6 = 6 = 4 = 5 = 5 = 5 = 6 = 4 = 6 = 6 = 6 = 6 = 6 = 6 = 6 = 6	- 'Site Condition Score'	±11

Large Trees	Sco	re	0	
Category & Description	% Canopy Health*			
	> 70%	30-70%	< 30%	
None present	0	0	0	
> 0 to 20% of the benchmark number of large trees/ha	3	2	1	
> 20% to 40% of the benchmark number of large trees/ha	4	3	2	
> 40% to 70% of the benchmark number of large trees/ha	6	5	4	
> 70% to 100% of the benchmark number of large trees/ha	8	7	6	
≥ the benchmark number of large trees/ha	10	9	8	

Large trees are defined by diameter at breast height (dbh)

see EVC benchmark.

* Estimate proportion of an expected healthy canopy cover that is present (i.e. not missing due to tree death or decline, or mistletoe infestation).

Tree Canopy Cover	Sco	re	0
Category & Description	96 (Сапору Нег	olth *
THE REPORT OF THE PERSON WAS AN ADDRESS TO	> 70%		
< 10% of benchmark cover	0	0	0
< 50% or > 150% of benchmark cover	- 3	2	1
≥ 50% or ≤ 150% of benchmark cover	5	4	3

Tree canopy is defined as those canopy tree species reaching \geq 80% of mature height - see EVC benchmark description.

* Estimate proportion of an expected healthy canopy cover that is present (i.e. not missing due to tree death or decline, or mistletoe infestation).

Lack of Weeds	Scc	ore	6
Category & Description	This	gh threat' wee	eds*
	None	≤ 50%	> 50%
> 50% cover of weeds	4	2	0
25 - 50% cover of weeds	7	6	4
5 - 25% cover of weeds	11	9	4
< 5% cover of weeds**	15	13	7
*		13	11

proportion of weed cover due to 'high threat' weeds - see EVC benchmark for guide. 'High threat' weed species are defined as those introduced species (including non-indigenous 'natives') with the ability to out-compete and substantially reduce one or more indigenous life forms in the longer term assuming on-going current site characteristics and disturbance regime.

The EVC benchmark lists typical weed species for the EVC in the bioregion and provides an estimate of their 'invasiveness' and 'impact'. In general, those weed species considered to have a *high impact* are considered *high threat* regardless

stst if total weed cover is negligible (<1%) and high threat weed species are present then score '13'.

Understorey Life forms

LF Code from EVC benchmark	# spp observed / Benchmark spp.	% cover observed / Benchmark % cover	Present (✓)	Modified (√)
17	011	05	X	
T	01	015	X	
MS	015	01 10	X	
SS	011	0/ 1-	X	
PS	0 1	01	X	
LH	0 1	015	X	
WH	3/10	2/20.	/	
SH	0 3	015	X	
LIG	0/2	015	X	
-NC	0/1	0/10	X	
MTG.	1/9	15/35	1	1
MN6 1	2/2/	15/10	1	×
BIL	- /	0/10	X	
	1	1		
	1	/		1005
	1	1	4	13 KILL

for life forms with benchmark cover of < 10%, considered 'present' if

Present

any specimens are observed.

For life forms with benchmark cover of \geq 10%, considered 'present' if

 the life form occupies at least 10% of benchmark cover. For life forms with benchmark cover of <10%, then considered substantially 'modified' if the life form has either:

 < 50% of the benchmark species diversity; or
 no reproductively-mature specimens are observed. Modified

(apply only where life form is 'present')

For life forms with benchmark cover of \geq 10%, then considered

substantially 'modified' if the life form has either: < 50% of benchmark cover; or

< 50% of benchmark species diversity; or

≥ 50% of benchmark cover due largely to immature canopy specimens but the cover of reproductively-mature specimens < 10% of the benchmark cover

Score	15
tively absent	
	(5)
 of those present, ≥ 50% substantially modified 	10
 of those present, < 50% substantially modified 	15
 of those present, ≥ 50% substantially modified 	15
 of those present, < 50% substantially modified 	20
 of those present, none substantially modified 	25
	 substantially modified of those present, < 50% substantially modified of those present, ≥ 50% substantially modified of those present, < 50% substantially modified



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Vegetation Quality Field Assessment Sheet Version 1.3 October 2004

ecruitme			High	Low
Category & Description			diversity**	diversity*
	within EVC not dri events	ven by episodic	0	0
No evidence of a	within EVC	clear evidence of appropriate episodic event	0	0
recruiument driv	driven by episodic events^	no clear evidence of appropriate episodic event	5	5
Evidence of		< 30%	3	1
at least one recruitment	species present that have	30 - 70%	6	3
least one	adequate	≥ 70%	10	5

^{+ &#}x27;cohort' refers to a group of woody plants established in a single episode (car include suppressed canopy species individuals).

 ^{*} high diversity defined as ≥ 50% of benchmark woody species diversity

- 1-1 likes	Score	9
Organic Litter Category & Description	native ornanic	Dominated by non-native organic litter
Lunds gover	0	0
< 10% of benchmark cover	3	2
< 50% or > 150% of benchmark cover \geq 50% or \leq 150% of benchmark cover	5	4

Species Recruitment

woody species recorded in habitat zone	Adequate Recruitment (✓)
Eucalypt canopy (combined species)	0
ucaypt canopy	
and descriptions of the state o	
. The second sec	
Annual Section of the Control of the	Tell tangent
number of woody spp. in EVC benchmark (SS and tall	er)

	S	core
Logs Category & Description	Large logs present*	Large logs absent*
	0	0
< 10% of benchmark length	3	2
< 50% of benchmark length ≥ 50% of benchmark length	5	4
> 50% of Denchmark length		trop dhi

Large logs defined as those with diameter ≥ 0.5 of benchmark large tree dbh.

Landscape Context Score

Patch Size Score	1
Category & Description	10
< 2 ha	
Between 2 and 5 ha	4
Between 5 and 10 ha	6
Between 10 and 20 ha	8
≥ 20 ha, but 'significantly disturbed'*	10
> 20 ha, but not 'significantly disturbed'*	TO

^{* &#}x27;significantly disturbed' defined as per RFA 'Old Growth' analyses eg. roading, significantly disturbed decined as per for the Growth analyses eg. rooting coupes, grazing etc. — effectively most patches within fragmented landscapes.

ighbour	hood	Score	104
Radius from site	% Native vegetation*	Weighting	
100 m	4-0	0.03	1,5
	30	0.04	0.8
1 km	4-0	0.03	102
5 km	subtract 2 if the	neighbourhood is tly disturbed'	3,2
	Somethings of the state of the	Add Values and 'round-off'	1.2

Multiply % native vegetation x Weighting for each radius from the zone (eg. 40% x 0.03 = 1.2); then add values to obtain final Neighbourhood Value.

istance to	Core Area	Score
)istance	Core Area not significantly disturbed*	Core Area significantly disturbed*
> 5 km	0	0
to 5 km	2	(1)
1 km	4	3
ontiguous	5	4

40	
* defined as pe	r RFA 'Old Growth' analyses.

	'5		Conc	iitio				'Lan Co	dsca ntex core	t	
onent	S	Tree Canopy Cover	Veeds	ırey	ent.	Litter		ize	Neighbourhood	Distance to Core Area	Total
Component	Large Trees	Tree Can	Lack of Weeds	Understorey	Recruitment	Organic Litter	rogs	Patch Size	Neighb	Distano	100
Score	0	1	6	5	0	3	C	1	12	1	17.

habital score = 0:172

refer to EVC benchmark for clarification.

treat multiple eucalypt canopy species as one species.

 ^{*} present if large log length is ≥ 25% of EVC benchmark log length.

[#] absent if large log length is < 25% of EVC benchmark log length.

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purpose of enabling its consideration and re-Vegetation Quality Field Assessment Sheet process undepattment of the pattern of

2117	Ver	sion 1.3 - Octob <mark>er 2004</mark> men	it Act 1987. T\$145tta	inabilittyranst r
Site Name/No. B. date T	ip/Suba	Location Joused for any p		
Assessor(s) MOB T	F	Map Name/No. MGA SS	AMG 554562	5807379
Tenure EGSC	evc PG	W Location 1+2	Bioregion Gupps	and Plain
			1.7	2.000.00000

'Site Condition Score'

Large Trees	Sco	Score				
Category & Description	% Canopy Health*					
	> 70%	30-70%	< 30%			
None present	0	0	0			
> 0 to 20% of the benchmark number of large trees/ha	3	2	1			
> 20% to 40% of the benchmark number of large trees/ha	4	3	2			
> 40% to 70% of the benchmark number of large trees/ha	6	5	4			
> 70% to 100% of the benchmark number of large trees/ha	8	7	6			
≥ the benchmark number of large trees/ha	10	9	8			

Large trees are defined by diameter at breast height (dbh)

see EVC benchmark.

Estimate proportion of an expected healthy canopy cover that is present (i.e. not missing due to tree death or decline, or mistletoe infestation).

Tree Canopy Cover	Sco	re	4	
Category & Description	% Canopy Health *			
	> 70%	30-70%	< 30%	
< 10% of benchmark cover	0	0	0	
< 50% or > 150% of benchmark cover	3	2	1	
≥ 50% or ≤ 150% of benchmark cover	5	4	3	

Tree canopy is defined as those canopy tree species reaching $\gtrsim 60\%$ of mature height - see EVC benchmark description.

Estimate proportion of an expected healthy canopy cover that is present (i.e. not missing due to tree death or decline, or mistletoe infestation).

Lack of Weeds	Sco	ore	0			
Category & Description	'high threat' weeds*					
	None	≤ 50%	> 50%			
> 50% cover of weeds	4	2	(0)			
25 - 50% cover of weeds	7	6	4			
5 - 25% cover of weeds	11	9	7			
< 5% cover of weeds**	15	13	11			

st proportion of weed cover due to 'high threat' weeds - see EVC benchmark for guide. 'High threat' weed species are defined as those introduced species (including non-indigenous 'natives') with the ability to out-compete and substantially reduce one or more indigenous life forms in the longer term assuming on-going current site characteristics and disturbance regime.

The EVC benchmark lists typical weed species for the EVC in the bioregion and provides an estimate of their 'invasiveness' and 'impact'. In general, those weed species considered to have a high impact are considered high threat regardless of their invasiveness.

** if total weed cover is negligible (<1%) and high threat weed species are</p> present then score '13'.

LF Code from EVC benchmark	# spp observed / Benchmark spp.	% cover observed / Benchmark % cover	Present (✔)	Modified (*)
T	0/1	0/5	X	
T	0/1	0/5	X	
MS	10/2	35/10		X
55	2/1	5/1		X
25	1/\	1/1		-
Lt1	0/1	015	X	
MH	0/10	0/20	2	
54	013	015	X	
LIG	2/2	51 5	1	X
NG	011	0/10	X	
179	619	20/35	V.	X
ING	112	10/10	V	8/
BIL'	1	1/10	V	V
	1	1	-	7.1
	1	1		1/13
	1	1		1

or life forms with benchmark cover of < 10%, considered 'present' if

Present

 any specimens are observed. For life forms with benchmark cover of \geq 10%, considered

the life form occupies at least 10% of benchmark cover. For life forms with benchmark cover of <10%, then considered substantially 'modified' if the life form has either:

< 50% of the benchmark species diversity; or

Modified

'present')

no reproductively-mature specimens are observed.

(apply only For life forms with benchmark cover of \geq 10%, then considered substantially 'modified' if the life form has either: where life form is

< 50% of benchmark cover; or

< 50% of benchmark species diversity; or

≥ 50% of benchmark cover due largely to immature canopy specimens but the cover of reproductively-mature specimens is < 10% of the benchmark cover.

Understorey	Score	15
Category & Description		
All strata and lifeforms effect	tively absent	0
Up to 50% of life forms pres	sent	5
≥ 50% to 90% of lifeforms present	of those present, ≥ 50% substantially modified	10
	 of those present, < 50% substantially modified 	15
≥ 90% of lifeforms present	 of those present, ≥ 50% substantially modified 	15
	 of those present, < 50% substantially modified 	20
315	 of those present, none substantially modified 	25



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Vegetation Quality Field Assessment Sheet

Version 1.3 October 2004

ecruitme	nt .	S	core	0
	Description		High diversity*°	Low diversity*°
	within EVC not dri events	iven by episodic	0	0
No evidence of a	within EVC	clear evidence of appropriate episodic event	0	0
recruitment 'cohort' ⁺	driven by episodic events^	no clear evidence of appropriate episodic event	5	5
Evidence of	proportion of native woody	< 30%	3	1
at least one recruitment 'cohort' in a	species present	30 - 70%	6	3
least one life-form	adequate recruitment*	≥ 70%	10	5

^{+ &#}x27;cohort' refers to a group of woody plants established in a single episode (can include suppressed canopy species individuals).

^{*} high diversity defined as \geq 50% of benchmark woody species diversity

Organic Litter	Score	9
Category & Description	Dominated by native organic litter	Dominated by non-native organic litter
< 10% of benchmark cover	0	0
< 50% or > 150% of benchmark cover	3-	2
> 50% or ≤ 150% of benchmark cover	5)	4

Species	Recruitment	

Voody species recorded in habitat zone	Adequate Recruitment
ucalypt canopy (combined species)	V
Black Signia	X
Lightwood	-
8 dices	21
VINASOROIA	
100	X
E CON Wad	X
Sallan) Valle	1
BUCSOME SEM	_ W
71.183	
number of woody spp. in EVC benchmark (SS and taller)	10707

Logs	Score			
Category & Description	Large logs present*	Large logs absent*		
< 10% of benchmark length	0	0		
< 50% of benchmark length	3	(2)		
> 50% of henchmark length	5	4		

Large logs defined as those with diameter \geq 0.5 of benchmark large tree dbh.

Landscape Context Score

Patch Size Sc	ore 4
Category & Description	
< 2 ha	1
Between 2 and 5 ha	2
Between 5 and 10 ha	
Between 10 and 20 ha	6
≥ 20 ha, but 'significantly disturbed'*	8
≥ 20 ha, but not 'significantly disturbed'*	10

^{* &#}x27;significantly disturbed' defined as per RFA 'Old Growth' analyses eg. roading, coupes, grazing etc. – effectively most patches within fragmented landscapes.

eighbour	hood	Score	1.0
Radius from site	% Native * vegetation	Weighting	
100 m	bO	0.03	
1 km	2.0	0.04	0.8
5 km	40	0.03	07
	subtract 2 if the	neighbourhood is dy disturbed	3.8
	the Manager process, White carry facility to the discount of the contract of t	Add Values and 'round-off'	1.8

* to nearest 20%.

= 4.4+1.6

= 6-0ha

Multiply % native vegetation x Weighting for each radius from the zone (eg. 40% x 0.03 = 1.2); then add values to obtain final Neighbourhood Value.

Distance to	Score		
Distance	Core Area not significantly disturbed*	Core Area significantly disturbed*	
> 5 km	D	0	
1 to 5 km	2		
< 1 km	4	3	
contiguous	5	4	

	'4	Site	Con	ditio	n Sc	ore'		Co	dsca ntex core	t	
Component	Large Trees	Tree Canopy Cover	Lack of Weeds	Understorey	Recruitment	Organic Litter	Logs	Patch Size	Neighbourhood	Distance to Core Area	Total
Score	0	4	0	15	6	5	2	4	1.8	١	28

modelled score = 0.21-0.



refer to EVC benchmark for clarification.

treat multiple eucalypt canopy species as one species.

^{*} present if large log length is ≥ 25% of EVC benchmark log length.

[#] absent if large log length is < 25% of EVC benchmark log length.

se of enabling Stion and review as Vegetation Quality Field Assessmen colstess in Pality and Version 1.3 - October 2004 breach Environmeng Location Map Name/No. AMG / MGA

'Site Condition Score'

Large Trees	Sco	re	L
Category & Description	% Canopy Health*		
	> 70%	30-70%	< 30%
None present	0	0	n
> 0 to 20% of the benchmark number of large trees/ha	3	2	1
> 20% to 40% of the benchmark number of large trees/ha	4	3	2
> 40% to 70% of the benchmark	6	5	4
> 70% to 100% of the benchmark number of large trees/ha	8	7	6
the benchmark number of large	10	9	8

see EVC benchmark. * Estimate proportion of an expected healthy canopy cover that is present (i.e. not missing due to tree death or decline, or mistletoe infestation).

Tree Canopy Cover	Score
Category & Description	% Can
	> 70% 38
< 10% of hondaments	

Tenure

Cyony & Description	- sunspy meanin		
	> 70%	30-70%	< 30%
< 10% of benchmark cover	0	0	0
< 50% or > 150% of benchmark cover	3	2	1
≥ 50% or ≤ 150% of benchmark cover	5	4	7
Troo same in L.S.			3

Tree canopy is defined as those canopy tree species reaching $\geq 80\%$ of mature height - see EVC benchmark description.

* Estimate proportion of an expected healthy canopy cover that is present (i.e. not missing due to tree death or decline, or mistletoe infestation).

Lack of Weeds	Sco	ore	16
Category & Description	'high threat' weeds*		
	None	≤ 50%	> 50%
> 50% cover of weeds	4	121	1 30 70
25 - 50% cover of weeds	,		U
5 - 25% cover of weeds		(6)	4
	11	9	7
< 5% cover of weeds**	15	4.0	

* proportion of weed cover due to 'high threat' weeds - see EVC benchmark for guide.

'High threat' weed species are defined as those introduced species (including non-indigenous 'natives') with the ability to out-compete and substantially reduce one or more indigenous life forms in the longer term assuming on-going current site characteristics and disturbance regime.

The EVC benchmark lists typical weed species for the EVC in the bioregion and provides an estimate of their 'invasiveness' and 'impact'. In general, those weed species considered to have a *high impact* are considered *high threat* regardless

stst if total weed cover is negligible (<1%) and high threat weed species are present then score '13'.

Understorey Life forms

Bioregion

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# spp observed / Benchmark spp.	% cover observed / Benchmark % cover	Present (✓)	Modified (✓)
6/3	50/10	1	
5/1	10/1	1	
2/1	10/5	V	
013	0/15	X	
1	1		
3/1	10/1	V	
0/5	0/15	_	
011	0/5	X	
015	0115	X	
/	1	1	/
0/2	2/20	V	V ,
1/3	1/15	0	1//
1	13	1	1
	observed / Benchmark	observed / observed / Benchmark	observed / observed / Present Benchmark Benchmark

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For life forms with benchmark cover of < 10%, onsidered 'present' if

Present

any specimens are observed.

For life forms with benchmark cover of \geq 10%, considered

 the life form occupies at least 10% of benchmark cover. For life forms with benchmark cover of <10%, then considered substantially 'modified' if the life form has either:

Modified

< 50% of the benchmark species diversity; or no reproductively-mature specimens are observed.

(apply only where life form is 'present')

For life forms with benchmark cover of \geq 10%, then considered substantially 'modified' if the life form has either:

< 50% of benchmark cover; or

< 50% of benchmark species diversity; or ≥ 50% of benchmark cover due largely to immature canopy specimens but the cover of reproductively-mature specimens is < 10% of the benchmark cover.

Understorey	Score	5
Category & Description		
All strata and Life forms effe	ctively absent	- 0
Up to 50% of life forms pres	ent	5
≥ 50% to 90% of Life forms present ≥ 90% of Life forms present	of those present, ≥ 50% substantially modified	10
	 of those present, < 50% substantially modified 	15
	 of those present, ≥ 50% substantially modified 	15
	 of those present, < 50% substantially modified 	20
	 of those present, none substantially modified 	25

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Vegetation Quality Field Assessment Sheets process usustailtability anning and Version 1.3 - October 2004 ronment Act 1987. The document not be

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lecruitme	nt	So	core	0
Category &			High diversity*°	Low diversity**
	within EVC not dri	ven by episodic	0	0
No evidence of a	within EVC	clear evidence of appropriate episodic event	0	0
	no clear evidence of appropriate episodic event	5	5	
Evidence of	proportion of	< 30%	3	1
at least one native woody recruitment species present 'cohort' in at that have	30 - 70%	6	3	
least one life-form	adequate recruitment°	≥ 70%	10	5

^{+ &#}x27;cohort' refers to a group of woody plants established in a single episode (can include suppressed canopy species individuals).

^{*} high diversity defined as \geq 50% of benchmark woody species diversity.

Organic Litter	Score	10 5
Category & Description	Dominated by native organic litter	Dominated by non-native organic litter
< 10% of benchmark cover	0	0
< 50% or > 150% of benchmark cover	3	2
≥ 50% or ≤ 150% of benchmark cover	5	4

pecies Recruitment	Adequate Recruitment
Voody species recorded in habitat zone	(4)
ucalypt canopy (combined species)	X/
Ac. line	1
Call, Ut.	81
galla Stic	1
Mala Mani	X
Lent. daeu.	7/
Allo It	1
Ac Meansil	V
110	419
number of woody spp. in EVC benchmark (SS and talle	111

.ogs	5	core
Category & Description	Large logs present*	Large logs absent*
< 10% of benchmark length	0	0
	3	2
< 50% of benchmark length ≥ 50% of benchmark length	5	4
≥ 50% or Denchmark length		

Large logs defined as those with diameter ≥ 0.5 of benchmark large tree dbh.

[#] absent if large log length is < 25% of EVC benchmark log length.

20070 01 2 200	'Landscape Context Score'
Patch Size Score	Distance to C
Category & Description	Distance
< 2 ha	1
Between 2 and 5 ha	> 5 km
Between 5 and 10 ha	1 to 5 km
Between 10 and 20 ha	6 < 1 km
≥ 20 ha, but 'significantly disturbed'*	8 contiguous
≥ 20 ha, but not 'significantly disturbed'*	10 * defined as per RF

_ 20 (10) =	analyses on roading,
* Line:Genetly disturbed' defined a	as per RFA 'Old Growth' analyses eg. roading,
* Signification discursed definition	most patches within fragmented landscapes.
coupes, grazing etc effectively	most paraies was in a s
Company Statute	

eighbour	hood	Score	1.0
Radius from site	% Native	Weighting	
00 m	60	0.03	1 8
1 km	20	0.04	0.8
5 km	40	0.03	1. 3
J 1011	subtract 2 if the	neighbourhood is tly disturbed'	3.8
		Add Values and 'round-off'	1.8

^{*} to nearest 20%.

Multiply % native vegetation x Weighting for each radius from the zone (eg. 40% x 0.03 = 1.2); then add values to obtain final Neighbourhood Value.

Distance to	Score		
Distance	Core Area not significantly disturbed*	Core Area significantly disturbed*	10
> 5 km	0	0	
1 to 5 km	2		7-
< 1 km	4	3	1)
contiguous	5	4	-La

	1	Site	Cond	ditio	n Sc	ore'		Co	dsca ntex core	t	
Component	Large Trees 0	Tree Canopy Cover	Lack of Weeds	Understorey	Recruitment	Organic Litter	Soon	Patch Size	Neighbourhood	Distance to Core Area	Total
Score	1	5	5	WY.	25	5	1	17	-	-	90

www.dse.vic.gov.au

refer to EVC benchmark for clarification.

treat multiple eucalypt canopy species as one species.

^{*} present if large log length is ≥ 25% of EVC benchmark log length.

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Appendix 5. Planning Property Report

PLANNING PROPERTY REPORT

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PROPERTY DETAILS

Lot and Plan Number: Lot 2 LP116329

Address: 665 FORGE CREEK ROAD FORGE CREEK 3875

Standard Parcel Identifier (SPI): 2\LP116329

Local Government Area (Council): EAST GIPPSLAND www.eastaippsland.vic.aov.au

Council Property Number: 81257 (Part)

Planning Scheme: **East Gippsland** Planning Scheme - East Gippsland

Vicroads 84 B8 Directory Reference:

This parcel is one of 3 parcels comprising the property. For full parcel details get the free Property report at Property Reports

UTILITIES STATE ELECTORATES

Rural Water Corporation: Legislative Council: **EASTERN VICTORIA Southern Rural Water** Urban Water Corporation: East Gippsland Water Legislative Assembly: **GIPPSLAND EAST**

Melbourne Water: **Outside drainage boundary**

Power Distributor: **AUSNET OTHER**

Registered Aboriginal Party: Gunaikurnai Land and Waters

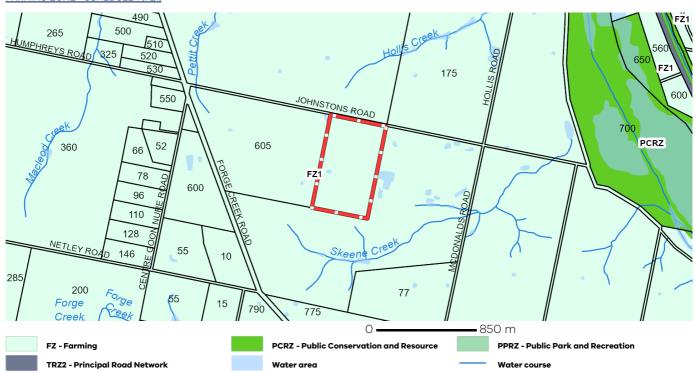
Aboriginal Corporation

View location in VicPlan

Planning Zones

FARMING ZONE (FZ)





Note: labels for zones may appear outside the actual zone - please compare the labels with the legend.

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PLANNING PROPERTY REPORT

Planning Overlays

ENVIRONMENTAL SIGNIFICANCE OVERLAY (ESO)

ESO - Environmental Significance Overlay



Note: due to overlaps, some overlaps may not be visible, and some colours may not match those in the legend

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OTHER OVERLAYS

Other overlays in the vicinity not directly affecting this land

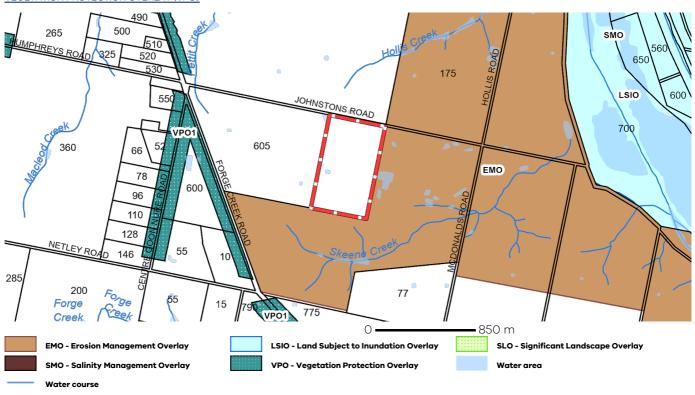
EROSION MANAGEMENT OVERLAY (EMO)

LAND SUBJECT TO INUNDATION OVERLAY (LSIO)

SIGNIFICANT LANDSCAPE OVERLAY (SLO)

SALINITY MANAGEMENT OVERLAY (SMO)

VEGETATION PROTECTION OVERLAY (VPO)



Note: due to overlaps, some overlays may not be visible, and some colours may not match those in the legend

Further Planning Information

Planning scheme data last updated on 27 September 2023.

A planning scheme sets out policies and requirements for the use, development and protection of land. This report provides information about the zone and overlay provisions that apply to the selected land. Information about the State and local policy, particular, general and operational provisions of the local planning scheme that may affect the use of this land can be obtained by contacting the local council or by visiting https://www.planning.vic.gov.au

This report is NOT a Planning Certificate issued pursuant to Section 199 of the Planning and Environment Act 1987. It does not include information about exhibited planning scheme amendments, or zonings that may abut the land. To obtain a Planning Certificate go to Titles and Property Certificates at Landata - https://www.landata.vic.gov.au

For details of surrounding properties, use this service to get the Reports for properties of interest.

To view planning zones, overlay and heritage information in an interactive format visit https://mapshare.maps.vic.gov.au/vicplan

For other information about planning in Victoria visit https://www.planning.vic.gov.au

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PLANNING PROPERTY REPORT

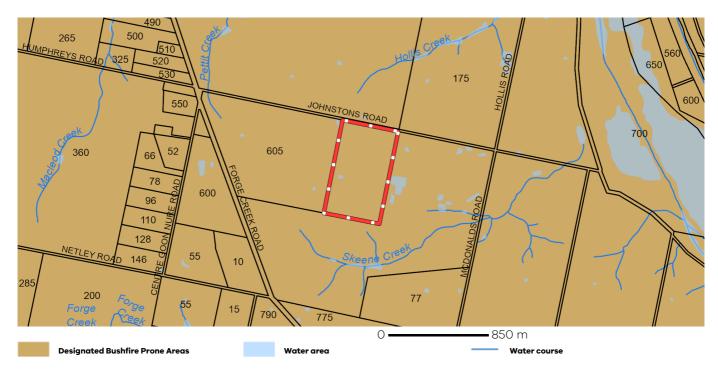
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Designated Bushfire Prone Areas

This parcel is in a designated bushfire prone area. Special bushfire construction requirements apply to the part of the property mapped as a designated bushfire prone area (BPA). Planning provisions may apply.

Where part of the property is mapped as BPA, if no part of the building envelope or footprint falls within the BPA area, the BPA construction requirements do not apply.

Note: the relevant building surveyor determines the need for compliance with the bushfire construction requirements.



Designated BPA are determined by the Minister for Planning following a detailed review process. The Building Regulations 2018, through adoption of the Building Code of Australia, apply bushfire protection standards for building works in designated BPA.

Designated BPA maps can be viewed on VicPlan at https://mapshare.vic.gov.au/vicplan/ or at the relevant local council.

Create a BPA definition plan in VicPlan to measure the BPA.

Information for lot owners building in the BPA is available at https://www.planning.vic.gov.au.

Further information about the building control system and building in bushfire prone areas can be found on the Victorian Building Authority website https://www.vba.vic.gov.au. Copies of the Building Act and Building Regulations are available from http://www.legislation.vic.gov.au. For Planning Scheme Provisions in bushfire areas visit https://www.planning.vic.gov.au

Native Vegetation

Native plants that are indigenous to the region and important for biodiversity might be present on this property. This could include trees, shrubs, herbs, grasses or aquatic plants. There are a range of regulations that may apply including need to obtain a planning permit under Clause 52.17 of the local planning scheme. For more information see Native Vegetation (Clause 52.17) with local variations in Native Vegetation (Clause 52.17) Schedule

To help identify native vegetation on this property and the application of Clause 52.17 please visit the Native Vegetation Information Management system https://nvim.delwp.vic.gov.au/ and Native vegetation (environment.vic.gov.au/ or please contact your relevant council.

You can find out more about the natural values on your property through NatureKit NatureKit (environment.vic.gov.au)

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Notwithstanding this disclaimer, a vendor may rely on the information in this report for the purpose of a statement that land is in a bushfire prone area as requir Printed 27/16/1/2025 Land 1962 (Vic.).

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PLANNING PROPERTY REPORT

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Extractive Industry Work Authorities (WA)

All or parts of this property are within 500 metres of Extractive Industry Work Authorities (current).

On 22 March 2022, Amendment VC219 introduced changes to all planning schemes in Victoria to support the ongoing operation of extractive industry across Victoria and increase amenity protection for nearby accommodation in rural zones.

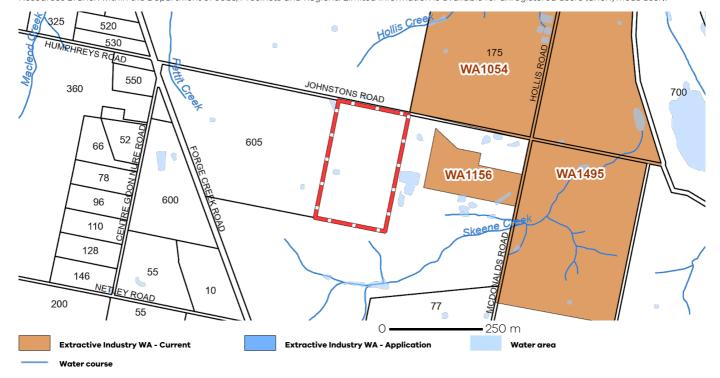
The amendment made changes to the Rural Living Zone, Green Wedge Zone, Green Wedge Zone A, Rural Activity Zone, Farming Zone and Rural Conservation Zone, introducing a permit requirement for accommodation and building and works associated with accommodation that is located within 500 metres from the nearest title boundary of land on which a work authority has been applied for or granted under the Mineral Resources (Sustainable Development) Act 1990 (MRSD Act)

The Amendment also introduced new referral and notice requirements, and decision guidelines.

VicPlan mapping shows property information, including whether a work authority application has been made or approved under the MRSD Act.

Guidance on accessing work authority maps is detailed at the DELWP Extractive Resources (planning.vic.gov.au) webpage.

Further information on extractive and mining activities in Victoria can be found on the (GeoVic - Earth Resources) website which is maintained by the Resources Branch within the Department of Jobs, Precincts and Regions. Limited information is available for unregistered users (anonymous user).



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Appendix 6. Native Vegetation Removal Reportused for any purpose which may breach any copyright.



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This report provides information to support an application to remove, destroy or lop native vegetation in accordance with the *Guidelines for the removal, destruction or lopping of native vegetation*. The report **is not an assessment by DELWP** of the proposed native vegetation removal. Native vegetation information and offset requirements have been determined using spatial data provided by the applicant or their consultant.

Date of issue: 09/04/2024 Report ID: ETH_2024_001

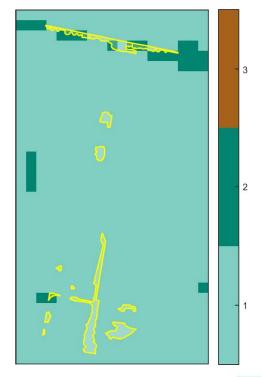
Time of issue: 11:26 am

Project ID	23053_EGSC_Composting_Facility_NVR_v3
------------	---------------------------------------

Assessment pathway

Assessment pathway	Detailed Assessment Pathway
Extent including past and proposed	1.070 ha
Extent of past removal	0.000 ha
Extent of proposed removal	1.070 ha
No. Large trees proposed to be removed	0
Location category of proposed removal	Location 2 The native vegetation is in an area mapped as an endangered Ecological Vegetation Class (as per the statewide EVC map). Removal of less than 0.5 hectares of native vegetation in this location will not have a significant impact on any habitat for a rare or threatened species.

1. Location map







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Offset requirements if a permit is granted

Any approval granted will include a condition to obtain an offset that meets the following requirements:

General offset amount ¹	0.277 general habitat units
Vicinity	East Gippsland Catchment Management Authority (CMA) or East Gippsland Shire Council
Minimum strategic biodiversity value score ²	0.352
Large trees	0 large trees

NB: values within tables in this document may not add to the totals shown above due to rounding

Appendix 1 includes information about the native vegetation to be removed

Appendix 2 includes information about the rare or threatened species mapped at the site.

Appendix 3 includes maps showing native vegetation to be removed and extracts of relevant species habitat importance maps

¹ The general offset amount required is the sum of all general habitat units in Appendix 1.

² Minimum strategic biodiversity score is 80 per cent of the weighted average score across habitat zones where a general offset is required



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Next steps

Any proposal to remove native vegetation must meet the application requirements of the Detailed Assessment Pathway and it will be assessed under the Detailed Assessment Pathway.

If you wish to remove the mapped native vegetation you are required to apply for a permit from your local council. Council will refer your application to DELWP for assessment, as required. **This report is not a referral assessment by DELWP.**

This Native vegetation removal report must be submitted with your application for a permit to remove, destroy or lop native vegetation.

Refer to the *Guidelines for the removal, destruction or lopping of native* vegetation (the Guidelines) for a full list of application requirements This report provides information that meets the following application requirements:

- The assessment pathway and reason for the assessment pathway
- A description of the native vegetation to be removed (partly met)
- Maps showing the native vegetation and property (partly met)
- Information about the impacts on rare or threatened species.
- The offset requirements determined in accordance with section 5 of the Guidelines that apply if approval is granted to remove native vegetation.

Additional application requirements must be met including:

- Topographical and land information
- · Recent dated photographs
- Details of past native vegetation removal
- An avoid and minimise statement
- A copy of any Property Vegetation Plan that applies
- A defendable space statement as applicable
- A statement about the Native Vegetation Precinct Plan as applicable
- A site assessment report including a habitat hectare assessment of any patches of native vegetation and details of trees
- An offset statement that explains that an offset has been identified and how it will be secured.

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Authorised by the Victorian Government, 8 Nicholson Street, East Melbourne.

For more information contact the DELWP Customer Service Centre 136 186

www.delwp.vic.gov.au

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Obtaining this publication does not guarantee that an application will meet the requirements of Clauses 52.16 or 52.17 of the Victoria Planning Provisions and Victorian planning schemes or that a permit to remove native vegetation will be granted.

Notwithstanding anything else contained in this publication, you must ensure that you comply with all relevant laws, legislation, awards or orders and that you obtain and comply with all permits, approvals and the like that affect, are applicable or are necessary to undertake any action to remove, lop or destroy or otherwise deal with any native vegetation or that apply to matters within the scope of Clauses 52.16 or 52.17 of the Victoria Planning Provisions and Victorian planning schemes.

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Appendix 1: Description of native vegetation to be removed

The species-general offset test was applied to your proposal. This test determines if the proposed removal of native vegetation has a proportional impact on any rare or threatened species habitats the species offset threshold. The threshold is set at 0.005 per cent of the mapped habitat value for a species. When the proportional impact is above the species offset threshold a species offset is required. This test is done for all species mapped at the site. Multiple species offsets will be required if the species offset threshold is exceeded for multiple species.

Where a zone requires species offset(s), the species habitat units for each species in that zone is calculated by the following equation in accordance with the Guidelines:

Species habitat units = extent x condition x species landscape factor x 2, where the species landscape factor = 0.5 + (habitat importance score/2)

The species offset amount(s) required is the sum of all species habitat units per zone

Where a zone does not require a species offset, the general habitat units in that zone is calculated by the following equation in accordance with the Guidelines:

General habitat units = extent x condition x general landscape factor x 1.5, where the general landscape factor = 0.5 + (strategic biodiversity value score/2)

The general offset amount required is the sum of all general habitat units per zone.

Native vegetation to be removed

d by EnSym	Offset type	General	General	General	<u>a</u>		1						
ě				Ğ	General	General	General	General	General	General	General	General	
Information calculated by EnSym	Habitat units	0.001	0.009	0.044	0.000	0.022	0.022	0.073	0.070	0.009	0.009	0.002	
Informa	H												
	SBV	0.460	0.430	0.430	0.460	0.441	0.440	0.446	0.432	0.430	0.450	0.460	
	Extent without overlap	0.009	0.033	0.157	0.004	0.063	0.065	0.397	0.160	0.071	0.073	0.004	
	Polygon Extent	0.009	0.033	0.157	0.004	0.063	0.065	0.397	0.160	0.071	0.073	0.004	
o.	Condition score	0.100	0.260	0.260	0.100	0.320	0.320	0.170	0.410	0.120	0.120	0.390	
it in a GIS file	Partial removal	ou	ou	ou	ou	ou	ou	ou	ou	no	no	ou	
e applicar	Large tree(s)	0	0	0	0	0	0	0	0	0	0	0	
Information provided by or on behalf of the applicant in a GIS	BioEVC conservation status	Endangered	Endangered	Endangered	Endangered	Endangered	Endangered	Endangered	Endangered	Endangered	Endangered	Endangered	
ion provided by	BioEVC	gipp0055	gipp0055	gipp0055	gipp0055	gipp0055	gipp0055	gipp0055	gipp0053	gipp0055	gipp0055	gipp0055	
Informati	Туре	Patch	Patch	Patch	Patch	Patch	Patch	Patch	Patch	Patch	Patch	Patch	
	Zone	4	1-6	1-5	1-3	1-7	1 - 8	1-2	P _r	int	.ed	2 7	7/11/20:

OFFICIAL

	Offset type	General	General
Information calculated by EnSym	Offse	Ger	Ger
tion calcu	Habitat units	900.0	0.009
nforma	HI		
	SBV	0.460	0.460
	Extent without overlap	0.014	0.021
	Polygon Extent	0.014	0.021
<u>•</u>	Condition score	0.390	0.390
nt in a GIS fil	Partial removal	no	ou
e applicar	Large tree(s)	0	0
Information provided by or on behalf of the applicant in a GIS file	BioEVC conservation status	Endangered	Endangered
tion provided by	BioEVC	gipp0055	gipp0055
Informat	Type	Patch	Patch
	Zone	1-1	7

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Appendix 2: Information about impacts to rare or threatened species' habitats on site

This table lists all rare or threatened species' habitats mapped at the site.

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Λ			_	Ю.	т.	C	_
ч		٧,	_	н		_	_
$\overline{}$	_	v	_			w	_

0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		This opurportion part Envi	ose o of a pronm	f ena olann	
Habitat importance map	Habitat importance map	Habitat importance map	Habitat importance map	Habitat importance map	Habitat importance map	Habitat importance map	Habitat importance map	Habitat importance map	Habitat importance map	Habitat importance map	Habitat importance map	Habitat importance map	Habitat importance map	Habitat importance map	Habitat importance map	Habitat importance map
Dispersed	Dispersed	Dispersed	Dispersed	Dispersed	Dispersed	Dispersed	Dispersed	Dispersed	Dispersed	Dispersed	Dispersed	Dispersed	Dispersed	Dispersed	Dispersed	Dispersed
Vulnerable	Vulnerable	Vulnerable	Vulnerable	Rare	Rare	Rare	Rare	Rare	Endangered	Rare	Vulnerable	Rare	Rare	Rare	Rare	Vulnerable
503763	504655	501084	502623	501326	503583	501369	505786	502651	501941	502795	500445	501530	503699	504222	504754	10238
Xerochrysum palustre	Coronidium gunnianum	Diuris punctata	Polygala japonica	Eucalyptus yarraensis	Wurmbea uniflora	Fimbristylis velata	Dichondra sp. 1	Pomaderris aurea	Leptorhynchos elongatus	Pterostylis fischii	Botrychium australe	Grevillea chrysophaea	Arthropodium sp. 1 (robust glaucous)	Lachnagrostis punicea subsp. filifolia	Eucalyptus polyanthemos subsp. longior	Falco subniger
Swamp Everlasting	Pale Swamp Everlasting	Purple Diuris	Dwarf Milkwort	Yarra Gum	One-flower Early Nancy	Veiled Fringe-sedge	Silky Kidney-weed	Golden Pomaderris	Lanky Buttons	Fisch's Greenhood	Austral Moonwort	Golden Grevillea	Tall Vanilla-lily	Purple Blown-grass	Forest Red-box	Black Falcon

Habitat group

Hoitat impacted

Highly localised habitat means there is 2000 hectares or less mapped habitat for the species
Highly localised habitat means there is more than 2000 hectares of mapped habitat for the species
Dispersed habitat means there is more than 2000 hectares of mapped habitat for the species
Dispersed habitat means there is more than 2000 hectares of mapped habitat for the species
Dispersed habitat means there is more than 2000 hectares of mapped habitat to the species
Dispersed habitat maps are the maps defined in the Guidelines that depict the important areas of a dispersed species habitat, developed from the highest habitat importance scores and selected VBA records
Top ranking maps are the maps defined in the Guidelines that depict the important areas of a dispersed species habitat developed from the highest habitat importance scores and selected VBA record is an area in Victoria that represents a large population, roosting or breeding site etc.

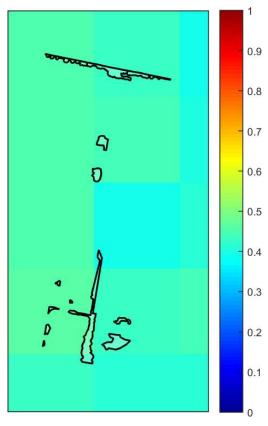
Selected VBA record is an area in Victoria that represents a large population, roosting or breeding site etc.

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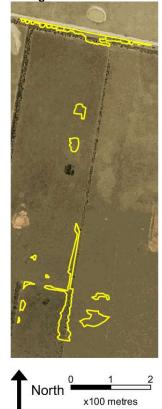
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Appendix 3 - Images of mapped native edviergenty plumpose which may breach any copyright.

2. Strategic biodiversity values map

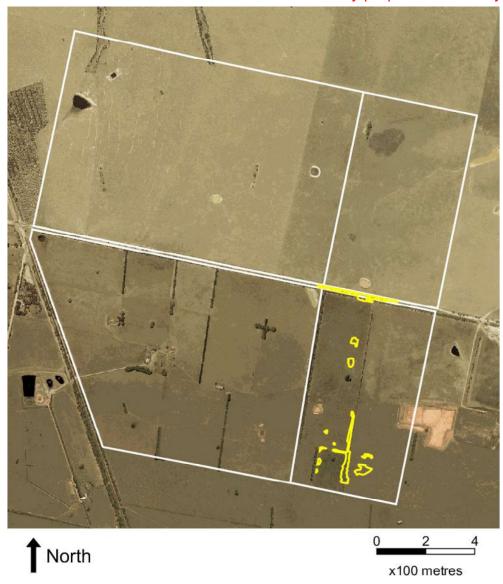


3. Aerial photograph showing mapped native vegetation



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4. Map of the property in context



Yellow boundaries denote areas of proposed native vegetation removal.

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Report of available native vegetation credits

This report lists native vegetation credits available to purchase through the Native Vegetation Credit Register.

This report is **not evidence** that an offset has been secured. An offset is only secured when the units have been purchased and allocated to a permit or other approval and an allocated credit extract is provided by the Native Vegetation Credit Register.

Date and time: 08/04/2024 01:46 Report ID: 23638

What was searched for?

General offset

General habitat units	Strategic biodiversity value	Large trees	Vicinity (Catchment Management Authority or Municipal district)
0.277	0.352	0	CMA	East Gippsland
			or LGA	East Gippsland Shire

Details of available native vegetation credits on 08 April 2024 01:46

These sites meet your requirements for general offsets.

Credit Site ID	GHU	LT	СМА	LGA	Land owner	Trader	Fixed price	Broker(s)
BBA-0115	2.940	0	West Gippsland	East Gippsland Shire	Yes	Yes	No	Bio Offsets
BBA-2323	6.019	86	East Gippsland	East Gippsland Shire	Yes	Yes	No	Bio Offsets, Ethos, VegLink
BBA-2843	15.103	903	East Gippsland	East Gippsland Shire	Yes	Yes	No	VegLink
TFN-C1621	1.387	1	East Gippsland	East Gippsland Shire	Yes	Yes	No	TFN
VC_CFL- 3720_01	1.876	244	East Gippsland	East Gippsland Shire	Yes	Yes	No	Contact NVOR
VC_CFL- 3767_01	21.941	1601	East Gippsland	East Gippsland Shire	Yes	Yes	No	Ethos, VegLink
VC_CFL- 3767_01	0.720	0	East Gippsland	East Gippsland Shire	Yes	Yes	Yes	VegLink

These sites meet your requirements using alternative arrangements for general offsets.

Credit Site ID	GHU	LT CMA	LGA	Land	Trader	Fixed	Broker(s)
				owner	owner		

There are no sites listed in the Native Vegetation Credit Register that meet your offset requirements when applying the alternative arrangements as listed in section 11.2 of the Guidelines for the removal, destruction or lopping of native vegetation.

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These potential sites are not yet available, land wirers may find affect them docene buyerst not be is confirmed.

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Credit Site ID	GHU	LT	СМА	LGA	Land	Trader	Fixed	Broker(s)
					owner		price	

There are no potential sites listed in the Native Vegetation Credit Register that meet your offset requirements.

LT - Large Trees

CMA - Catchment Management Authority

LGA - Municipal District or Local Government Authority

Next steps

If applying for approval to remove native vegetation

Attach this report to an application to remove native vegetation as evidence that your offset requirement is currently available.

If you have approval to remove native vegetation

Below are the contact details for all brokers. Contact the broker(s) listed for the credit site(s) that meet your offset requirements. These are shown in the above tables. If more than one broker or site is listed, you should get more than one quote before deciding which offset to secure.

Broker contact details

Broker Abbreviation	Broker Name	Phone	Email	Website
Abezco	Abzeco Pty. Ltd.	(03) 9431 5444	offsets@abzeco.com.au	www.abzeco.com.au
Baw Baw SC	Baw Baw Shire Council	(03) 5624 2411	bawbaw@bawbawshire.vic.gov.au	www.bawbawshire.vic.gov.au
Bio Offsets	Biodiversity Offsets Victoria	0452 161 013	info@offsetsvictoria.com.au	www.offsetsvictoria.com.au
Contact NVOR	Native Vegetation Offset Register	136 186	nativevegetation.offsetregister@d elwp.vic.gov.au	www.environment.vic.gov.au/nativ e-vegetation
Ecocentric	Ecocentric Environmental Consulting	0410 564 139	ecocentric@me.com	Not avaliable
Ethos	Ethos NRM Pty Ltd	(03) 5153 0037	offsets@ethosnrm.com.au	www.ethosnrm.com.au
Nillumbik SC	Nillumbik Shire Council	(03) 9433 3316	offsets@nillumbik.vic.gov.au	www.nillumbik.vic.gov.au
TFN	Trust for Nature	8631 5888	offsets@tfn.org.au	www.trustfornature.org.au
VegLink	Vegetation Link Pty Ltd	(03) 8578 4250 or 1300 834 546	offsets@vegetationlink.com.au	www.vegetationlink.com.au
Yarra Ranges SC	Yarra Ranges Shire Council	1300 368 333	biodiversityoffsets@yarraranges.vi c.gov.au	www.yarraranges.vic.gov.au

 $\ensuremath{@}$ The State of Victoria Department of Energy, Environment and Climate Action 2024



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For more information contact the DEECA Customer Service Centre 136 186 or the Native Vegetation Credit Register at nativevegetation.offsetregister@delwp.vic.gov.au

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Obtaining this publication does not guarantee that the credits shown will be available in the Native Vegetation Credit Register either now or at a later time when a purchase of native vegetation credits is planned.

Notwithstanding anything else contained in this publication, you must ensure that you comply with all relevant laws, legislation, awards or orders and that you obtain and comply with all permits, approvals and the like that affect, are applicable or are necessary to undertake any action to remove, lop or destroy or otherwise deal with any native vegetation or that apply to matters within the scope of Clauses 52.16 or 52.17 of the Victoria Planning Provisions and Victorian planning schemes

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Appendix 8. Recent credit trades in East Gippsland CMA

Date of trade	Catchment Management Authority (CMA)	Strategic Biodiversity Value	General Habitat Unit (GHU)	Large Trees (LT)	\$/	GHU (excl.)	Price \$ (incl GST)	Price \$ (excl. GST)
13/02/2024	East Gippsland	0.784	0.154	10	\$	148,701	25,190.00	22,900.00
29/01/2024	East Gippsland	0.803	0.067	0	\$	98,000	7,222.60	6,566.00
8/12/2023	East Gippsland	0.784	0.124	6	\$	127,032	17,327.20	15,752.00
6/11/2023	East Gippsland	0.784	0.028	1	\$	133,714	4,118.40	3,744.00
5/10/2023	East Gippsland	0.784	0.014	1	\$	169,429	2,609.20	2,372.00
20/09/2023	East Gippsland	0.784	0.122	3	\$	112,754	15,131.60	13,756.00
14/09/2023	East Gippsland	0.803	0.101	0	\$	92,000	10,221.20	9,292.00
3/08/2023	East Gippsland	0.784	0.231	1	\$	102,165	25,960.00	23,600.00
2/08/2023	East Gippsland	0.803	0.006	0	\$	98,000	646.80	588.00
1/08/2023	East Gippsland	0.803	0.009	0	\$	98,000	970.20	882.00
18/07/2023	East Gippsland	0.784	0.055	2	\$	128,364	7,766.00	7,060.00
3/07/2023	East Gippsland	0.803	0.011	0	\$	92,000	1,113.20	1,012.00
29/06/2023	East Gippsland	0.784	0.256	0	\$	95,000	26,752.00	24,320.00
29/05/2023	East Gippsland	0.803	0.053	0	\$	92,000	5,363.60	4,876.00
22/05/2023	East Gippsland	0.803	0.008	0	\$	92,000	809.60	736.00
9/05/2023	East Gippsland	0.784	0.018	1	\$	147,556	2,921.60	2,656.00
19/04/2023	East Gippsland	0.784	0.062	0	\$	92,000	6,274.40	5,704.00
3/03/2023	East Gippsland	0.784	0.023	0	\$	92,000	2,327.60	2,116.00
20/02/2023	East Gippsland	0.985	0.006	0	\$	100,000	660.00	600.00
13/02/2023	East Gippsland	0.985	0.076	0	\$	100,000	8,360.00	7,600.00
13/02/2023	East Gippsland	0.784	0.119	8	\$	125,210	16,390.00	14,900.00
24/01/2023	East Gippsland	0.784	0.020	0	\$	92,000	2,024.00	1,840.00

Sourced from https://www.environment.vic.gov.au/native-vegetation_removal-regulations/offsets-for-the-removal-of native-vegetation/i-need-to-secure-an-offset

