
















Soils are logged by an experienced Geotechnical Engineer in accordance with the Unified Soil Classification (USC) System as outlined in AS 1726 -2017 "Geotechnical Site Investigations". Where laboratory investigations such as Particle Size Distribution and Atterberg Limit testing have been completed, soil classifications are required to be confirmed in accordance with the 'Laboratory Classification' section on Page 2.

CLASSIFICATION OF COARSE GRAINED SOILS

Major Divisions			Field Identification	USC	Primary Descriptor
COARSE GRAINED SOILS More than 65% of material less than 63 mm is larger than 0.075mm	GRAVELS More than half of coarse fraction larger than 2.36 mm	<12% passing 0.075mm	Well graded. Wide range in grain size and substantial amounts of all intermediate sizes.	GW	 GRAVEL
			Poorly graded. Predominantly one size or a range of sizes with more intermediate sizes missing.	GP	 GRAVEL
		>12% passing 0.075mm	Coarse material with excess non-plastic fines.	GM	 Silty GRAVEL
			Coarse material with excess plastic fines.	GC	 Clayey GRAVEL
	SANDS More than half of coarse fraction smaller than 2.36mm	<12% passing 0.075mm	Well graded. Wide range in grain size and substantial amounts of all intermediate sizes.	SW	 SAND
			Poorly graded. Predominantly one size or a range of sizes with more intermediate sizes missing.	SP	 SAND
		>12% passing 0.075mm	Coarse material with excess non-plastic fines.	SM	 Silty SAND
			Coarse material with excess plastic fines.	SC	 Clayey SAND

For fines contents between 5% and 12%, the soil shall be given a dual classification comprising the two group symbols separated by a dash, e.g. for a gravel with between 5% and 12% silt fines, the classification is GP-GM.

CLASSIFICATION OF FINE GRAINED SOILS

Major Divisions			Field Identification			USC		Primary Descriptor
			Dry Strength	Dilatancy	Toughness			
FINE GRAINED SOILS More than 35% of material less than 63 mm is smaller than 0.075 mm	SILTS & CLAYS (Low to medium plasticity)	Liquid Limit <=50%	None to Low	Slow to Rapid	Low	ML		SILT
			Medium to High	None to Slow	Medium	CL, CI		CLAY
			Low to Medium	Slow	Low	OL		Organic SILT
	SILTS & CLAYS (high plasticity)	Liquid Limit >50%	Low to Medium	None to Slow	Low to Medium	MH		SILT
			High to Very High	None	High	CH		CLAY
			Medium to High	None to Very Slow	Low to Medium	OH		Organic CLAY
HIGHLY ORGANIC SOIL			Identified by colour, odour, spongy feel and frequently fibrous texture			Pt		PEAT

* Plot results of Atterberg Limit testing on modified Casagrande Chart (See Page 2) for accurate classification

DESCRIPTORS FOR SECONDARY/MINOR SOIL COMPONENTS

Designation	In Coarse Grained Soils				In Fine Grained Soils	
	% Fines	Terminology	% Coarse Fraction	Terminology	% Sand/Gravel	Terminology
Minor	<5	Add 'trace clay/silt' as applicable	<15	Add 'trace sand/gravel' as applicable	<15	Use 'Trace'
	>5, <12	Add 'with clay/silt' as applicable	>15, <30	Add 'with sand/gravel' as applicable	>15, <30	Add 'with sand/gravel' as applicable
Secondary	>12	Prefix soil name as 'Silty' or 'Clayey' as applicable	>30	Prefix soil name as 'Sandy' or 'Gravelly' as applicable	>30	Prefix soil name as 'Sandy' or 'Gravelly' as applicable

MOISTURE CONDITION -

COARSE GRAINED SOILS

Name	Symbol	Field Guide to Moisture
Dry	D	Non-cohesive and free running
Moist	M	Feels cool, darkened in colour Soil tends to stick together
Wet	W	Feels cool, darkened in colour Soil tends to stick together Free water forms when handling

FINE GRAINED SOILS

Name	Symbol	Field Guide to Moisture
Moist/Dry of Plastic Limit	M<PL	Hard and friable or powdery
Moist/Near Plastic Limit	M~PL	Soils can be moulded at a moisture content approximately equal to the plastic limit
Moist/Wet of Plastic Limit	M>PL	Soils usually weakened and free water forms on hands when handling
Near Liquid Limit	M>>PL	Wet, near liquid limit

DENSITY/CONSISTENCY -

NON-COHESIVE SOILS

Name	Symbol	Density Index (%)
Very Loose	VL	<15
Loose	L	15 - 35
Moderately Dense	MD	35 - 65
Dense	D	65 - 85
Very Dense	VD	>85

COHESIVE SOILS

Consistency	Symbol	Field Guide to Consistency	S _u (kPa)
Very Soft	VS	Exudes between the fingers when squeezed in hand	<12
Soft	S	Can be moulded by light finger pressure	12-25
Firm	F	Can be moulded by strong finger pressure	25-50
Stiff	St	Cannot be moulded by fingers	50-100
Very Stiff	VSt	Can be indented by thumb nail	100-200
Hard	H	Can be indented with difficulty by thumb nail	>200
Friable	Fb	Can be easily crumbled or broken into small pieces by hand	N/A

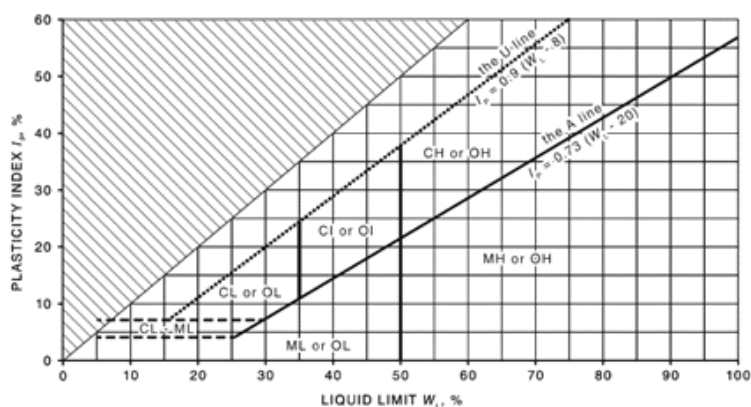
The undrained shear strength S_u is assessed in the field using a pocket or hand penetrometer (PP).
S_u values are approximately half of the PP reading.

LABORATORY CLASSIFICATION -

PARTICLE SIZE DEFINITIONS

Name	Fraction	Size (mm)
Boulders		>200
Cobbles		63 - 200
Gravel	Coarse	19 - 63
	Medium	6.7 - 19
	Fine	2.36 - 6.7
Sand	Coarse	0.6 - 2.36
	Medium	0.21 - 0.6
	Fine	0.075 - 0.21
Silt		0.002 - 0.075
Clay		<0.002




MODIFIED CASAGRANDE CHART



DRILLING/EXCAVATION METHOD -

BH	Backhoe Bucket
PT	Push Tube
HFA	Hollow Flight Auger
HA	Hand Auger
N	Natural Exposure
X	Existing Excavation
AST	Auger Screwing + TC bit
ADT	Auger Drilling + TC bit
ASV	Auger Screwing + V bit
ADV	Auger Drilling + V bit

WATER -

	Standing Water Level at Date 1 Shown
	Standing Water Level at Date 2 Shown
	Standing Water Level at Date 3 Shown




If observance of groundwater was not possible due to collapse of test pit /borehole or similar, add to notes: 'GROUNDWATER NOT OBSERVED'

If the test pit /borehole was dry soon after excavation add to notes:
'GROUNDWATER NOT ENCOUNTERED'

(Note: Groundwater may still be present in less permeable strata, or inflows may have been observed had the test pit /borehole been left open for a longer period.)

SAMPLING AND TESTING-

SPT	Standard Penetration Test - Results expressed as blows per 150mm (N Value = Sum of blows excluding 150mm seating).
PP	Pocket Penetrometer Test - Results expressed in 'Comments/ Observations' as instrument reading in kPa
AU	Auger Cuttings
BK	Bulk Sample
PT	Push Tube
SS	Split Spoon
U100	Undisturbed 100mm
U50	Undisturbed 50mm

 97 Pine Avenue Mildura VIC 3500 T +61 3 5021 4486						BOREHOLE NUMBER <div style="text-align: right; font-size: 24pt; font-weight: bold;">BH01</div>						
CLIENT Wentworth Shire Council PROJECT Buronga Landfill Expansion Detailed Design LOCATION Wentworth, NSW						NORTHING 6222844 EASTING 609920		ELEVATION (mAHD) 43.4 TOTAL DEPTH (mBGL) 2.00				
STARTED 17/03/2023 CONTRACTOR Berri Drafting & Drilling EQUIPMENT Rockmaster METHOD PT		COMPLETED 17/03/2023 LOGGED BY IPN CHECKED BY MA PERMIT NO.		SYMBOL <div style="text-align: center;">▼</div> <div style="text-align: center;">▽</div> <div style="text-align: center;">▽</div>		SWL (mBGL) 		DATE 		NOTES Groundwater not encountered		
DEPTH (mAHD)	DEPTH (mBGL)	GRAPHIC LOG	USCS CLASS.	MOISTURE	DENSITY/CONSISTENCY	DESCRIPTION AND OBSERVATIONS			SAMPLE	SAMPLE TYPE /ID	IN-SITU TESTING	COMMENTS/OBSERVATIONS
43.2	0.2		-	D	MD	50 mm Spray Seal FILL. Granular pavement material recovered as sandy gravel, black, cemented with binder. FILL. Calcareous Clayey Sand, fine to coarse grained, pale brown to white, low plasticity fines, with fine to medium grained gravels				BH1_0.0-0.2		
43.0	0.4											
42.8	0.6											
42.6	0.8		SC	D	MD	Calcareous Clayey SAND. Fine to coarse grained, white, low plasticity fines, trace fine to medium grained gravels, sub-rounded						
42.4	1.0											
42.2	1.2											
42.0	1.4											
41.8	1.6											
41.6	1.8											
41.4	2.0					End of hole at 2.0 m, target depth reached						



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BOREHOLE NUMBER

BH01

CLIENT Wentworth Shire Council
PROJECT Buronga Landfill Expansion Detailed Design
LOCATION Wentworth, NSW

NORTHING 6222844 ELEVATION (mAHD) 43.4
EASTING 609920 TOTAL DEPTH (mBGL) 2.00

STARTED 17/03/2023 COMPLETED 17/03/2023
CONTRACTOR Berri Drafting & Drilling LOGGED BY IPN
EQUIPMENT Rockmaster CHECKED BY MA
METHOD PT PERMIT NO.

SYMBOL	SWL (mBGL)	DATE	NOTES
▼			Groundwater not encountered
▽			
▽			





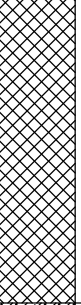


PHOTOS



ADDITIONAL NOTES

PROJECT NO. 202597

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 <div> 97 Pine Avenue Mildura VIC 3500 T +61 3 5021 4486 </div>						BOREHOLE NUMBER BH02					
CLIENT Wentworth Shire Council PROJECT Buronga Landfill Expansion Detailed Design LOCATION Wentworth, NSW						NORTHING 6222874 EASTING 609934		ELEVATION (mAHD) 43.3 TOTAL DEPTH (mBGL) 2.00			
STARTED 17/03/2023 CONTRACTOR Berri Drafting & Drilling EQUIPMENT Rockmaster METHOD PT		COMPLETED 17/03/2023 LOGGED BY IPN CHECKED BY MA PERMIT NO.		SYMBOL   		SWL (mBGL) 		DATE 			
NOTES Groundwater not encountered											
DEPTH (mAHD)	DEPTH (mBGL)	GRAPHIC LOG	USCS CLASS.	MOISTURE	DENSITY/CONSISTENCY	DESCRIPTION AND OBSERVATIONS		SAMPLE	SAMPLE TYPE /ID	IN-SITU TESTING	COMMENTS/OBSERVATIONS
43.1	0.2		-	D	D	FILL. Calcareous Clayey Sand, fine to coarse grained, pale brown, low plasticity fines, with fine to medium grained gravels, sub-rounded to sub-angular			BH2_0.1-0.3		
42.9	0.4										
42.7	0.6										
42.5	0.8										
42.3	1.0										
42.1	1.2		SC	D	L MD	Calcareous Clayey SAND. Fine to coarse grained, pale brown and white, low plasticity fines, with fine to medium grained gravels, sub-rounded to sub-angular					
41.9	1.4										
41.7	1.6										
41.5	1.8										
41.3	2.0										
						End of hole at 2.0 m, target depth reached					



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BOREHOLE NUMBER

BH02

CLIENT Wentworth Shire Council
PROJECT Buronga Landfill Expansion Detailed Design
LOCATION Wentworth, NSW

NORTHING 6222874 **ELEVATION (mAHD)** 43.3
EASTING 609934 **TOTAL DEPTH (mBGL)** 2.00

STARTED 17/03/2023 **COMPLETED** 17/03/2023
CONTRACTOR Berri Drafting & Drilling **LOGGED BY** IPN
EQUIPMENT Rockmaster **CHECKED BY** MA
METHOD PT **PERMIT NO.**

SYMBOL	SWL (mBGL)	DATE	NOTES
▼			Groundwater not encountered
▽			
▽			





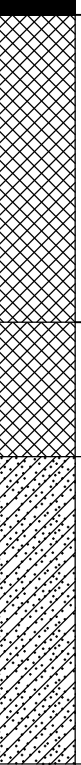

PHOTOS



ADDITIONAL NOTES

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 97 Pine Avenue Mildura VIC 3500 T +61 3 5021 4486						BOREHOLE NUMBER <h1>BH03</h1>				
CLIENT Wentworth Shire Council PROJECT Buronga Landfill Expansion Detailed Design LOCATION Wentworth, NSW						NORTHING 6222862 EASTING 609947		ELEVATION (mAHD) 43.5 TOTAL DEPTH (mBGL) 2.00		
STARTED 17/03/2023 CONTRACTOR Berri Drafting & Drilling EQUIPMENT Rockmaster METHOD PT		COMPLETED 17/03/2023 LOGGED BY IPN CHECKED BY MA PERMIT NO.		SYMBOL   		SWL (mBGL) 		DATE 		NOTES Groundwater not encountered
DEPTH (mAHD)	DEPTH (mBGL)	GRAPHIC LOG	USCS CLASS.	MOISTURE	DENSITY/CONSISTENCY	DESCRIPTION AND OBSERVATIONS	SAMPLE	SAMPLE TYPE/ID	IN-SITU TESTING	COMMENTS/OBSERVATIONS
43.3	0.2		-	-	-	50 mm Spray Seal		BH3_0.1-0.3		
43.1	0.4			D	MD	FILL. Gravelly Clayey Sand, fine to coarse grained, poorly graded, brown, fine to medium grained gravels, sub-angular to angular, low plasticity fines				
42.9	0.6									
42.7	0.8			D	MD	Concrete inclusion				
42.5	1.0					FILL. Clayey Sand, fine to coarse grained, orange-brown, low plasticity fines, trace fine grained gravels, minor black inclusions, possibly slag				
42.3	1.2		SC	D	MD	Clayey SAND. Fine to coarse grained, orange-brown, low plasticity fines, trace fine grained gravels				
42.1	1.4									
41.9	1.6									
41.7	1.8									
41.5	2.0					End of hole at 2.0 m, target depth reached				



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BOREHOLE NUMBER

BH03

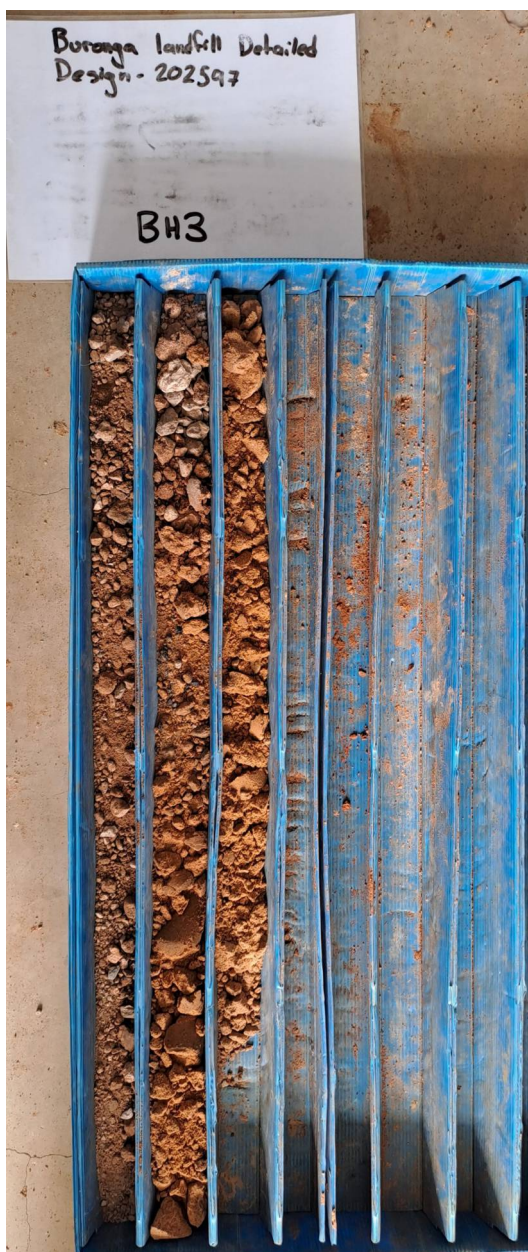
CLIENT Wentworth Shire Council
PROJECT Buronga Landfill Expansion Detailed Design
LOCATION Wentworth, NSW

NORTHING 6222862 ELEVATION (mAHD) 43.5
EASTING 609947 TOTAL DEPTH (mBGL) 2.00

STARTED 17/03/2023 COMPLETED 17/03/2023
CONTRACTOR Berri Drafting & Drilling LOGGED BY IPN
EQUIPMENT Rockmaster CHECKED BY MA
METHOD PT PERMIT NO.

SYMBOL	SWL (mBGL)	DATE	NOTES
▼			Groundwater not encountered
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BOREHOLE NUMBER

BH04

CLIENT Wentworth Shire Council
PROJECT Buronga Landfill Expansion Detailed Design
LOCATION Wentworth, NSW

NORTHING 6222840 ELEVATION (mAHD) 46
EASTING 610046 TOTAL DEPTH (mBGL) 3.00

STARTED 17/03/2023 COMPLETED 17/03/2023
CONTRACTOR Berri Drafting & Drilling LOGGED BY IPN
EQUIPMENT Rockmaster CHECKED BY MA
METHOD PT PERMIT NO.

SYMBOL	SWL (mBGL)	DATE	NOTES
▼			Groundwater not encountered
▽			
▽			

DEPTH (mAHD)	DEPTH (mBGL)	GRAPHIC LOG	USCS CLASS.	MOISTURE	DENSITY/CONSISTENCY	DESCRIPTION AND OBSERVATIONS	SAMPLE	SAMPLE TYPE/ID	IN-SITU TESTING	COMMENTS/OBSERVATIONS
45.8	0.2		-	D	MD	FILL. Calcareous sandy gravel, fine to medium grained, sub-rounded to angular, asphalt inclusions, with low plasticity fines				
45.6	0.4		SP	D	MD	Calcareous SAND. Fine to coarse grained, pale brown, with low plasticity fines, trace fine grained gravels				
45.4	0.6		SC	D	MD	Calcareous Clayey SAND. Fine to coarse grained, white, with fine to coarse grained gravels, sub-rounded to sub-angular, becoming pale brown with depth				
45.2	0.8									
45.0	1.0									
44.8	1.2									
44.6	1.4									
44.4	1.6									
44.2	1.8									
44.0	2.0									
43.8	2.2		SC	D	MD	Clayey SAND. Fine to coarse grained, orange-brown, low plasticity fines, trace fine grained gravels				
43.6	2.4									
43.4	2.6									
43.2	2.8									
43.0	3.0		CL	w<PL	Fb	Sandy CLAY. Low plasticity, orange-brown, fine to coarse grained, trace fine grained gravels				
						End of hole at 3.0 m, target depth reached				

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BH04

CLIENT Wentworth Shire Council
PROJECT Buronga Landfill Expansion Detailed Design
LOCATION Wentworth, NSW

NORTHING 6222840 **ELEVATION (mAHD)** 46
EASTING 610046 **TOTAL DEPTH (mBGL)** 3.00

STARTED 17/03/2023 **COMPLETED** 17/03/2023
CONTRACTOR Berri Drafting & Drilling **LOGGED BY** IPN
EQUIPMENT Rockmaster **CHECKED BY** MA
METHOD PT **PERMIT NO.**

SYMBOL	SWL (mBGL)	DATE	NOTES
▼			Groundwater not encountered
▽			
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TONKIN GEO 21 - DEPTH/AHD 0.2M PHOTO PG2 202597STAGE2.GPJ TONKIN STANDARD TEMPLATE_STRUCTURAL.GDT 31/5/23

<div><div><div>tonkin</div><div></div></div><div><div>97 Pine Avenue Mildura VIC 3500 T +61 3 5021 4486</div></div></div>						BOREHOLE NUMBER <div>BH05</div>					
CLIENT Wentworth Shire Council						NORTHING 6222854		ELEVATION (mAHD) 47.5			
PROJECT Buronga Landfill Expansion Detailed Design						EASTING 610106		TOTAL DEPTH (mBGL) 3.00			
LOCATION Wentworth, NSW											
STARTED 17/03/2023		COMPLETED 17/03/2023		SYMBOL		SWL (mBGL)		DATE			
CONTRACTOR Berri Drafting & Drilling		LOGGED BY IPN		▼							
EQUIPMENT Rockmaster		CHECKED BY MA		▽							
METHOD PT		PERMIT NO.		▼							
NOTES Groundwater not encountered											
DEPTH (mAHD)	DEPTH (mBGL)	GRAPHIC LOG	USCS CLASS.	MOISTURE	DENSITY/ CONSISTENCY	DESCRIPTION AND OBSERVATIONS		SAMPLE	SAMPLE TYPE /ID	IN-SITU TESTING	COMMENTS/OBSERVATIONS
47.3	0.2		SC	D	L MD	Calcareous Clayey SAND. Fine to coarse grained, poorly graded, pale brown, low plasticity fines, with fine to medium grained gravels, sub-angular to sub-rounded, organics to 200 mm depth					
47.1	0.4										
46.9	0.6										
46.7	0.8										
46.5	1.0										
46.3	1.2	SC	D	L MD	Calcareous Clayey SAND. Fine to coarse grained, poorly graded, white, low plasticity fines, with fine to coarse grained gravels, becoming trace gravels from 0.9 mBGL						
46.1	1.4										
45.9	1.6										
45.7	1.8										
45.5	2.0										
45.3	2.2	SC	D	MD	Clayey SAND. Fine to coarse grained, orange-brown, low plasticity fines, trace fine grained gravels						
45.1	2.4										
44.9	2.6										
44.7	2.8				End of hole at 3.0 m, target depth reached						
44.5	3.0										
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BOREHOLE NUMBER

BH05

CLIENT Wentworth Shire Council
PROJECT Buronga Landfill Expansion Detailed Design
LOCATION Wentworth, NSW

NORTHING 6222854 **ELEVATION (mAHD)** 47.5
EASTING 610106 **TOTAL DEPTH (mBGL)** 3.00

STARTED 17/03/2023 **COMPLETED** 17/03/2023
CONTRACTOR Berri Drafting & Drilling **LOGGED BY** IPN
EQUIPMENT Rockmaster **CHECKED BY** MA
METHOD PT **PERMIT NO.**

SYMBOL	SWL (mBGL)	DATE	NOTES
▼			Groundwater not encountered
▽			
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BOREHOLE NUMBER

BH06

CLIENT Wentworth Shire Council
PROJECT Buronga Landfill Expansion Detailed Design
LOCATION Wentworth, NSW

NORTHING 6222852 **ELEVATION (mAHD)** 48.5
EASTING 610217 **TOTAL DEPTH (mBGL)** 3.00

STARTED 17/03/2023 **COMPLETED** 17/03/2023
CONTRACTOR Berri Drafting & Drilling **LOGGED BY** IPN
EQUIPMENT Rockmaster **CHECKED BY** MA
METHOD PT **PERMIT NO.**

SYMBOL	SWL (mBGL)	DATE	NOTES
▼			Groundwater not encountered
▽			
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


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 97 Pine Avenue Mildura VIC 3500 T +61 3 5021 4486						BOREHOLE NUMBER BH07																
CLIENT Wentworth Shire Council PROJECT Buronga Landfill Expansion Detailed Design LOCATION Wentworth, NSW						NORTHING 6222870 EASTING 610312		ELEVATION (mAHD) 45.7 TOTAL DEPTH (mBGL) 3.00														
STARTED 17/03/2023 CONTRACTOR Berri Drafting & Drilling EQUIPMENT Rockmaster METHOD PT		COMPLETED 17/03/2023 LOGGED BY IPN CHECKED BY MA PERMIT NO.		SYMBOL   		SWL (mBGL) 		DATE 		NOTES Groundwater not encountered												
DEPTH (mAHD) 45.5 45.3 45.1 44.9 44.7 44.5 44.3 44.1 43.9 43.7 43.5 43.3 43.1 42.9 42.7		DEPTH (mBGL) 0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6 1.8 2.0 2.2 2.4 2.6 2.8 3.0		GRAPHIC LOG 		USCS CLASS. SC CI CL		MOISTURE D w<PL w<PL w<PL w<PL w<PL w<PL w<PL w<PL w<PL w<PL w<PL w<PL w<PL w<PL			DENSITY/CONSISTENCY MD Fb Fb Fb Fb Fb Fb Fb Fb Fb Fb Fb Fb Fb Fb Fb		DESCRIPTION AND OBSERVATIONS Calcareous Clayey SAND. Fine to coarse grained, poorly graded, pale brown, low plasticity fines, with fine to medium grained gravels, sub-angular to sub-rounded, organics throughout Calcareous Sandy CLAY. Medium plasticity, brown and white, black flecking, fine to coarse grained sands, trace fine grained gravels. CLAY. Medium plasticity, grey with brown mottling, with fine to coarse grained sands, minor calcareous white pockets Sandy CLAY. Low to medium plasticity, pale brown with minor grey mottling, fine to coarse grained sands End of hole at 3.0 m, target depth reached		SAMPLE 		SAMPLE TYPE/ID 		IN-SITU TESTING 		COMMENTS/OBSERVATIONS Inferred to be in situ as a mixture of cobbles and calcareous clayey sand per TP01, but recovery from borehole as per description.	
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BOREHOLE NUMBER

BH07

CLIENT Wentworth Shire Council
PROJECT Buronga Landfill Expansion Detailed Design
LOCATION Wentworth, NSW

NORTHING 6222870 **ELEVATION (mAHD)** 45.7
EASTING 610312 **TOTAL DEPTH (mBGL)** 3.00

STARTED 17/03/2023 **COMPLETED** 17/03/2023
CONTRACTOR Berri Drafting & Drilling **LOGGED BY** IPN
EQUIPMENT Rockmaster **CHECKED BY** MA
METHOD PT **PERMIT NO.**

SYMBOL	SWL (mBGL)	DATE	NOTES
▼			Groundwater not encountered
▽			
▽			

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TONKIN GEO 21 - DEPTH/AHD 0.2M PHOTO PG2 202597STAGE2.GPJ TONKIN STANDARD TEMPLATE_STRUCTURAL.GDT 31/5/23

<div><div>tonkin</div><div><div>97 Pine Avenue Mildura VIC 3500 T +61 3 5021 4486</div></div></div>						BOREHOLE NUMBER <div>BH08</div>					
CLIENT Wentworth Shire Council						NORTHING 6222908		ELEVATION (mAHD) 48.7			
PROJECT Buronga Landfill Expansion Detailed Design						EASTING 610266		TOTAL DEPTH (mBGL) 3.00			
LOCATION Wentworth, NSW											
STARTED 17/03/2023		COMPLETED 17/03/2023		SYMBOL		SWL (mBGL)		DATE			
CONTRACTOR Berri Drafting & Drilling		LOGGED BY IPN		▼							
EQUIPMENT Rockmaster		CHECKED BY MA		▽							
METHOD PT		PERMIT NO.		▼							
								NOTES Groundwater not encountered			
DEPTH (mAHD)	DEPTH (mBGL)	GRAPHIC LOG	USCS CLASS.	MOISTURE	DENSITY/ CONSISTENCY	DESCRIPTION AND OBSERVATIONS		SAMPLE	SAMPLE TYPE /ID		
			-	D	VD	FILL. Granular pavement material recovered as sandy gravel, white, fine to coarse grained gravels, sub-angular to angular, fine to coarse grained sands					
48.5	0.2		SC	D	D	Clayey SAND. Fine to coarse grained, red-brown, low plasticity fines, lenses grade to with clay					
48.3	0.4										
48.1	0.6				L						
47.9	0.8				MD						
47.7	1.0										
47.5	1.2		SC	D	MD	Clayey SAND. Fine to coarse grained, orange-brown, low plasticity fines, trace fine to coarse grained gravels					
47.3	1.4										
47.1	1.6										
46.9	1.8										
46.7	2.0										
46.5	2.2										
46.3	2.4										
46.1	2.6		SC	D	D	Clayey SAND. Fine to coarse grained, orange-brown, low plasticity fines					
45.9	2.8										
45.7	3.0					End of hole at 3.0 m, target depth reached					
PROJECT NO. 202597											



97 Pine Avenue
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BOREHOLE NUMBER

BH08

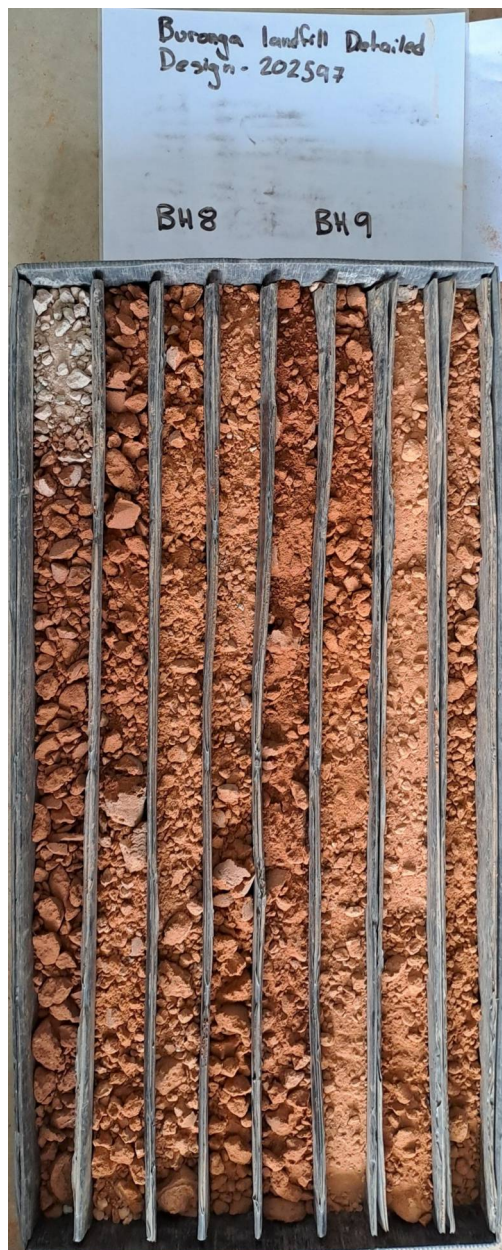
CLIENT Wentworth Shire Council
PROJECT Buronga Landfill Expansion Detailed Design
LOCATION Wentworth, NSW

NORTHING 6222908 **ELEVATION (mAHD)** 48.7
EASTING 610266 **TOTAL DEPTH (mBGL)** 3.00

STARTED 17/03/2023 **COMPLETED** 17/03/2023
CONTRACTOR Berri Drafting & Drilling **LOGGED BY** IPN
EQUIPMENT Rockmaster **CHECKED BY** MA
METHOD PT **PERMIT NO.**

SYMBOL	SWL (mBGL)	DATE	NOTES
▼			Groundwater not encountered
▽			
▽			

PHOTOS





ADDITIONAL NOTES

PROJECT NO. 202597

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TONKIN GEO 21 - DEPTH/AHD 0.2M PHOTO PG2 202597STAGE2.GPJ TONKIN STANDARD TEMPLATE_STRUCTURAL.GDT 31/5/23

<div><div><div>tonkin</div><div></div></div><div><div>97 Pine Avenue Mildura VIC 3500 T +61 3 5021 4486</div></div></div>						BOREHOLE NUMBER <div>BH09</div>					
CLIENT Wentworth Shire Council						NORTHING 6223099		ELEVATION (mAHD) 46.25			
PROJECT Buronga Landfill Expansion Detailed Design						EASTING 610295		TOTAL DEPTH (mBGL) 3.00			
LOCATION Wentworth, NSW											
STARTED 17/03/2023		COMPLETED 17/03/2023		SYMBOL		SWL (mBGL)		DATE			
CONTRACTOR Berri Drafting & Drilling		LOGGED BY IPN		▼							
EQUIPMENT Rockmaster		CHECKED BY MA		▽							
METHOD PT		PERMIT NO.		▼							
								NOTES Groundwater not encountered			
DEPTH (mAHD)	DEPTH (mBGL)	GRAPHIC LOG	USCS CLASS.	MOISTURE	DENSITY/ CONSISTENCY	DESCRIPTION AND OBSERVATIONS		SAMPLE	SAMPLE TYPE /ID	IN-SITU TESTING	COMMENTS/OBSERVATIONS
46.1	0.2		SC	D	MD D	Clayey SAND. Fine to coarse grained, red-brown, low plasticity fines, grades to with clay in places.					
45.9	0.4		SC	D	MD	Clayey SAND. Fine to coarse grained, orange-brown, low plasticity fines, trace fine grained gravels, lenses grade to Sandy CLAY					
45.7	0.6										
45.5	0.8										
45.3	1.0										
45.1	1.2	SC	D	MD	Calcareous Clayey SAND. Fine to coarse grained, poorly graded, pale brown to white, low plasticity fines, with fine to medium grained gravels, sub-angular to sub-rounded						
44.9	1.4										
44.7	1.6										
44.5	1.8	SP	D	MD	SAND. Fine to coarse grained, poorly graded, orange brown to orange and red-brown, with low plasticity fines grading to clayey in places, trace fine to medium grained gravels						
44.3	2.0										
44.1	2.2										
43.9	2.4										
43.7	2.6										
43.5	2.8				End of hole at 3.0 m, target depth reached						
43.3	3.0										
PROJECT NO. 202597											



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BOREHOLE NUMBER

BH09

CLIENT Wentworth Shire Council
PROJECT Buronga Landfill Expansion Detailed Design
LOCATION Wentworth, NSW

NORTHING 6223099 **ELEVATION (mAHD)** 46.25
EASTING 610295 **TOTAL DEPTH (mBGL)** 3.00

STARTED 17/03/2023 **COMPLETED** 17/03/2023
CONTRACTOR Berri Drafting & Drilling **LOGGED BY** IPN
EQUIPMENT Rockmaster **CHECKED BY** MA
METHOD PT **PERMIT NO.**

SYMBOL	SWL (mBGL)	DATE	NOTES
▼			Groundwater not encountered
▽			
▽			







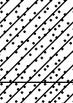


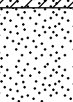
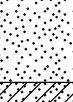



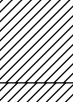




PHOTOS



ADDITIONAL NOTES

PROJECT NO. 202597

PAGE 2 OF 2

 <div> 97 Pine Avenue Mildura VIC 3500 T +61 3 5021 4486 </div>					BOREHOLE NUMBER <div>BH10</div>						
CLIENT Wentworth Shire Council PROJECT Buronga Landfill Expansion Detailed Design LOCATION Wentworth, NSW					NORTHING 6223689 EASTING 610560		ELEVATION (mAHD) 39.3 TOTAL DEPTH (mBGL) 4.00				
STARTED 17/03/2023 CONTRACTOR Berri Drafting & Drilling EQUIPMENT Rockmaster METHOD PT		COMPLETED 17/03/2023 LOGGED BY IPN CHECKED BY MA PERMIT NO.		SYMBOL   	SWL (mBGL) 	DATE 	NOTES Groundwater not encountered				
DEPTH (mAHD)	DEPTH (mBGL)	GRAPHIC LOG	USCS CLASS.	MOISTURE	DENSITY/CONSISTENCY	DESCRIPTION AND OBSERVATIONS		SAMPLE	SAMPLE TYPE/ID	IN-SITU TESTING	COMMENTS/OBSERVATIONS
39.1	0.2		-	D	MD	TOPSOIL. Silty Sand, fine to coarse grained, brown, non plastic fines, trace fine to medium grained gravels					
38.9	0.4		SC	D	MD	Calcareous Clayey SAND. Fine to coarse grained, pale brown, low plasticity fines, with fine to medium grained gravels, sub-rounded to sub-angular.					
38.7	0.6										
38.5	0.8		SC	D	MD	Calcareous Clayey SAND. Fine to coarse grained, white, low plasticity fines, trace fine to medium grained gravels, sub-rounded					
38.3	1.0										
38.1	1.2										
37.9	1.4										
37.7	1.6		SP	D	MD	SAND. Fine to coarse grained, orange-brown, with low plasticity fines, trace gravels, possibly calcareous					
37.5	1.8										
37.3	2.0		SC	D	MD	Becomes Clayey SAND. Fine to coarse grained, orange-brown, low plasticity fines, trace gravels, possibly calcareous					
37.1	2.2										
36.9	2.4		CL	w<PL	Fb	Calcareous Sandy CLAY. Low to medium plasticity, orange-brown and white, minor black flecking, fine to coarse grained, trace fine to medium grained gravels					
36.7	2.6										
36.5	2.8										
36.3	3.0										
36.1	3.2		CL	w<PL	Fb	Calcareous CLAY. Low to medium plasticity, grey, white and pale brown, with fine to medium grained sands, possibly calcareous					
35.9	3.4										
35.7	3.6										
35.5	3.8					Becoming red-brown with minor grey					
35.3	4.0					End of hole at 4.0 m, target depth reached					
PROJECT NO. 202597 <div>PAGE 1 OF 2</div>											



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BOREHOLE NUMBER

BH10

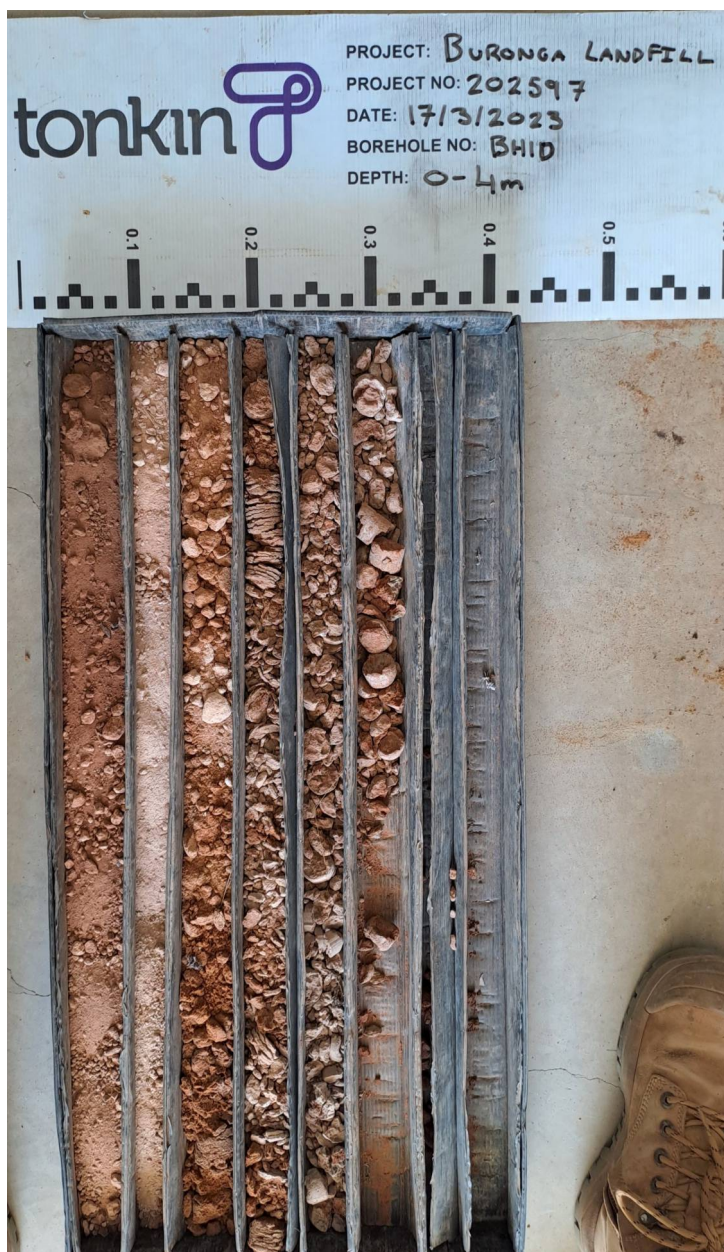
CLIENT Wentworth Shire Council
PROJECT Buronga Landfill Expansion Detailed Design
LOCATION Wentworth, NSW

NORTHING 6223689 **ELEVATION (mAHD)** 39.3
EASTING 610560 **TOTAL DEPTH (mBGL)** 4.00

STARTED 17/03/2023 **COMPLETED** 17/03/2023
CONTRACTOR Berri Drafting & Drilling **LOGGED BY** IPN
EQUIPMENT Rockmaster **CHECKED BY** MA
METHOD PT **PERMIT NO.**

SYMBOL	SWL (mBGL)	DATE	NOTES
▼			Groundwater not encountered
▽			
▽			





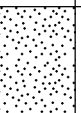
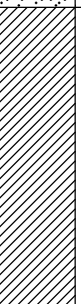

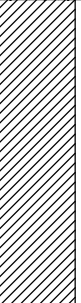


PHOTOS



ADDITIONAL NOTES

PROJECT NO. 202597

PAGE 2 OF 2

 97 Pine Avenue Mildura VIC 3500 T +61 3 5021 4486					BOREHOLE NUMBER <div style="text-align: right; font-size: 2em; font-weight: bold;">BH11</div>								
CLIENT Wentworth Shire Council PROJECT Buronga Landfill Expansion Detailed Design LOCATION Wentworth, NSW					NORTHING 6223506 EASTING 611220		ELEVATION (mAHD) 38.75 TOTAL DEPTH (mBGL) 4.00						
STARTED 17/03/2023 CONTRACTOR Berri Drafting & Drilling EQUIPMENT Rockmaster METHOD PT		COMPLETED 17/03/2023 LOGGED BY IPN CHECKED BY MA PERMIT NO.		SYMBOL   	SWL (mBGL) 	DATE 	NOTES Groundwater not encountered						
DEPTH (mAHD)	DEPTH (mBGL)	GRAPHIC LOG	USCS CLASS.	MOISTURE	DENSITY/CONSISTENCY	DESCRIPTION AND OBSERVATIONS		SAMPLE	SAMPLE TYPE/ID	IN-SITU TESTING	COMMENTS/OBSERVATIONS		
38.6	0.2		SP	D	MD	SAND. Fine to coarse grained, poorly graded, pale orange brown, grey and black, with low plasticity clay, trace fine to medium grained calcareous gravels							
38.4	0.4		CL	w<PL	Fb	Sandy CLAY. Low plasticity, pale orange brown, fine to coarse grained sands, trace fine to medium grained calcareous gravels, sub-rounded to sub-angular							
38.2	0.6												
38.0	0.8												
37.8	1.0												
37.6	1.2		SC	D	MD	Clayey SAND. Fine to coarse grained, poorly graded, orange-brown, low plasticity fines, possibly calcareous							
37.4	1.4												
37.2	1.6												
37.0	1.8												
36.8	2.0		CL	w<PL	Fb	Sandy CLAY. Low to medium plasticity, grey with minor orange and white mottling, trace fine to medium grained gravels, calcareous in pockets							
36.6	2.2												
36.4	2.4												
36.2	2.6												
36.0	2.8												
35.8	3.0												
35.6	3.2		CI	w<PL	Fb	Sandy CLAY. Medium to high plasticity, grey with white and red-brown mottling, fine to coarse grained sands, calcareous in pockets							
35.4	3.4												
35.1	3.6		GP	D	D	Sandy GRAVEL. Fine grained, poorly graded, subangular to subrounded, grey, white and minor red-brown, fine to coarse grained sands							
34.9	3.8		CI	w<PL	Fb	Sandy CLAY. Medium to high plasticity, grey, fine to coarse grained sands							
34.7	4.0					End of Hole at 4.0 m, target depth reached							
PROJECT NO. 202597												PAGE 1 OF 2	



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BOREHOLE NUMBER

BH11

CLIENT Wentworth Shire Council
PROJECT Buronga Landfill Expansion Detailed Design
LOCATION Wentworth, NSW

NORTHING 6223506 **ELEVATION (mAHD)** 38.75
EASTING 611220 **TOTAL DEPTH (mBGL)** 4.00

STARTED 17/03/2023 **COMPLETED** 17/03/2023
CONTRACTOR Berri Drafting & Drilling **LOGGED BY** IPN
EQUIPMENT Rockmaster **CHECKED BY** MA
METHOD PT **PERMIT NO.**

SYMBOL	SWL (mBGL)	DATE	NOTES
▼			Groundwater not encountered
▽			
▽			






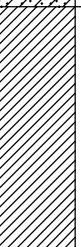



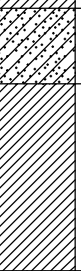



PHOTOS



ADDITIONAL NOTES

PROJECT NO. 202597

PAGE 2 OF 2

 97 Pine Avenue Mildura VIC 3500 T +61 3 5021 4486						BOREHOLE NUMBER <h1 style="margin: 0;">BH12</h1>								
CLIENT Wentworth Shire Council PROJECT Buronga Landfill Expansion Detailed Design LOCATION Wentworth, NSW						NORTHING 6222786 EASTING 611156		ELEVATION (mAHD) 41.6 TOTAL DEPTH (mBGL) 4.00						
STARTED 17/03/2023 CONTRACTOR Berri Drafting & Drilling EQUIPMENT Rockmaster METHOD PT		COMPLETED 17/03/2023 LOGGED BY IPN CHECKED BY MA PERMIT NO.		SYMBOL   		SWL (mBGL) 		DATE 		NOTES Groundwater not encountered				
DEPTH (mAHD)	DEPTH (mBGL)	GRAPHIC LOG	USCS CLASS.	MOISTURE	DENSITY/CONSISTENCY	DESCRIPTION AND OBSERVATIONS			SAMPLE	SAMPLE TYPE/ID	IN-SITU TESTING	COMMENTS/OBSERVATIONS		
41.4	0.2		SC	D	MD	Calcareous Clayey SAND. Fine to coarse grained, poorly graded, pale brown and white, low plasticity fines, fine to coarse grained gravels.								
41.2	0.4			CL	w<PL	Fb	Sandy CLAY. Low plasticity, pale orange brown, fine to coarse grained sands, trace fine to medium grained calcareous gravels, sub-rounded to sub-angular							
41.0	0.6													
40.8	0.8													
40.6	1.0		CI	w<PL	Fb	CLAY. Medium plasticity, orange-brown with pale brown mottles, with fine to medium grained sands, trace fine grained gravels, possibly calcareous								
40.4	1.2													
40.2	1.4													
40.0	1.6		SC	D	MD	Clayey SAND. Fine to coarse grained, poorly graded, orange-brown, low plasticity fines								
39.8	1.8													
39.6	2.0													
39.4	2.2		CL	w<PL	Fb	Sandy CLAY. Low plasticity, orange brown with minor dark brown mottling, fine to coarse grained sands								
39.2	2.4					Coarse grained content increasing from 2.25 m								
39.0	2.6													
38.8	2.8		SC	D	D	Clayey SAND. Fine to coarse grained, poorly graded, orange-brown, low plasticity fines								
38.6	3.0													
38.4	3.2													
38.2	3.4		CL	w<PL	Fb	Sandy CLAY. Low plasticity, orange brown with minor dark brown mottling, fine to coarse grained sands								
38.0	3.6													
37.8	3.8													
37.6	4.0		SC	D	D	Clayey SAND. Fine to coarse grained, poorly graded, orange-brown, low plasticity fines								
			CI	w<PL	Fb	Sandy CLAY. Medium plasticity, orange-brown and grey, fine to coarse grained sands								
						End of Hole at 4.0 m, target depth reached								
PROJECT NO. 202597													PAGE 1 OF 2	



97 Pine Avenue
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BOREHOLE NUMBER

BH12

CLIENT Wentworth Shire Council
PROJECT Buronga Landfill Expansion Detailed Design
LOCATION Wentworth, NSW

NORTHING 6222786 **ELEVATION (mAHD)** 41.6
EASTING 611156 **TOTAL DEPTH (mBGL)** 4.00

STARTED 17/03/2023 **COMPLETED** 17/03/2023
CONTRACTOR Berri Drafting & Drilling **LOGGED BY** IPN
EQUIPMENT Rockmaster **CHECKED BY** MA
METHOD PT **PERMIT NO.**

SYMBOL	SWL (mBGL)	DATE	NOTES
▼			Groundwater not encountered
▽			
▽			

PHOTOS



ADDITIONAL NOTES




PROJECT NO. 202597

PAGE 2 OF 2

CLIENT	Wentworth Shire Council
PROJECT	Buronga Landfill Expansion Detailed Design
LOCATION	Wentworth, NSW

NORTHING	6222861.157	ELEVATION (mAHD)	44.244
EASTING	609969.976	TOTAL DEPTH (mBGL)	1.2

STARTED	21/03/2023	COMPLETED	21/03/2023
CONTRACTOR	Wentworth Shire Council	LOGGED BY	IPN
EQUIPMENT	25t Excavator	CHECKED BY	MA
METHOD	E	PERMIT NO.	

SYMBOL	SWL (mBGL)	DATE	NOTES Groundwater not encountered
			
			
			

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PHOTO / SKETCH






ADDITIONAL NOTES

Located in drop off area

CLIENT	Wentworth Shire Council
PROJECT	Buronga Landfill Expansion Detailed Design
LOCATION	Wentworth, NSW

NORTHING	6222975.596	ELEVATION (mAHD)	45.060
EASTING	610545.848	TOTAL DEPTH (mBGL)	0.9

STARTED	21/03/2023	COMPLETED	21/03/2023
CONTRACTOR	Wentworth Shire Council	LOGGED BY	IPN
EQUIPMENT	25t Excavator	CHECKED BY	MA
METHOD	E	PERMIT NO.	

SYMBOL	SWL (mBGL)	DATE	NOTES Groundwater not encountered
			
			
			

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PHOTO / SKETCH







ADDITIONAL NOTES

Edge of exiting landfill

CLIENT	Wentworth Shire Council
PROJECT	Buronga Landfill Expansion Detailed Design
LOCATION	Wentworth, NSW

NORTHING	6223001.724	ELEVATION (mAHD)	40.524
EASTING	610691.21	TOTAL DEPTH (mBGL)	1.0

STARTED	21/03/2023	COMPLETED	21/03/2023
CONTRACTOR	Wentworth Shire Council	LOGGED BY	IPN
EQUIPMENT	25t Excavator	CHECKED BY	MA
METHOD	E	PERMIT NO.	

SYMBOL	SWL (mBGL)	DATE	NOTES Groundwater not encountered
			
			
			
			


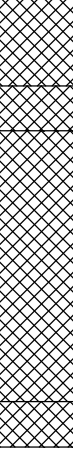

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

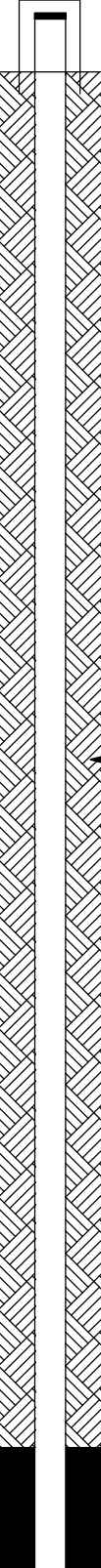
PHOTO / SKETCH





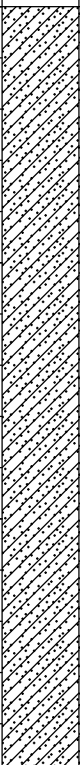


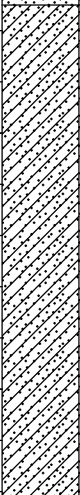









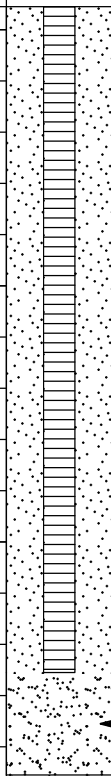


ADDITIONAL NOTES





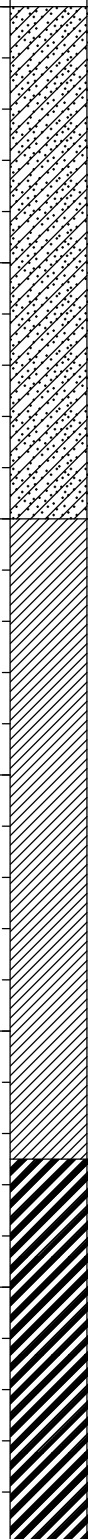
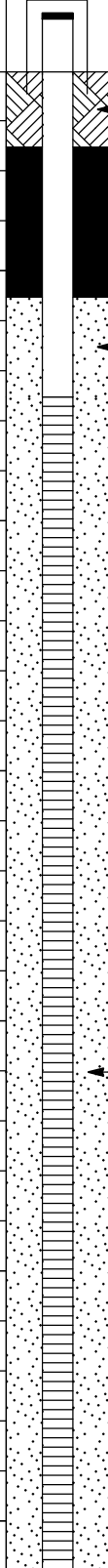
Edge of exiting landfill






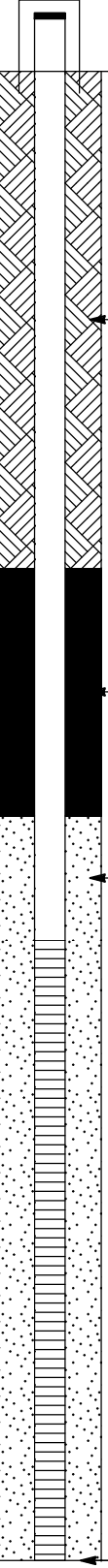




<div> <div>  <div> 97 Pine Avenue Mildura VIC 3500 T +61 3 5021 4486 </div> </div> </div>					TEST PIT NUMBER <div>TP04</div>						
CLIENT Wentworth Shire Council PROJECT Buronga Landfill Expansion Detailed Design LOCATION Wentworth, NSW					NORTHING 6222963.076 ELEVATION (mAHD) 39.611 EASTING 610765.52 TOTAL DEPTH (mBGL) 0.9						
STARTED 21/03/2023 COMPLETED 21/03/2023 CONTRACTOR Wentworth Shire Council LOGGED BY IPN EQUIPMENT 25t Excavator CHECKED BY MA METHOD E PERMIT NO.					SYMBOL	SWL (mBGL)	DATE	NOTES Groundwater not encountered			
					▼						
					▽						
					⚡						
DEPTH (mAHD)	DEPTH (mBGL)	GRAPHIC LOG	USCS CLASS.	MOISTURE	DENSITY/CONSISTENCY	DESCRIPTION AND OBSERVATIONS		SAMPLE	SAMPLE TYPE /ID	COMMENTS/OBSERVATIONS	
39.5	0.1		-	M D	MD	FILL. Calcareous clayey sand, pale brown and orange, low plasticity, with fine to coarse grained gravels, organics throughout					
39.4	0.2		-	D	MD	FILL. Sand, fine to coarse grained, poorly graded, grey, trace low plasticity fines, organics throughout					
39.3	0.3		-	D	MD	FILL. Calcareous clayey sand, pale brown and orange, low plasticity, with fine to coarse grained gravels, waste inclusions					
39.2	0.4										
39.1	0.5										
39.0	0.6										
38.9	0.7										
38.8	0.8										
38.7	0.9		-	-	-	Waste. Mixed, plastic bags, chip packets, plastics, cardboard.					
					End of hole at 1.0 m. Waste encountered.						
<div> <div> <div>PHOTO / SKETCH</div>  </div> <div> <div>ADDITIONAL NOTES</div> <div>Edge of exiting landfill</div> </div> </div>											
PROJECT NO. 202597										PAGE 1 OF 1	





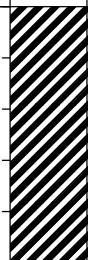
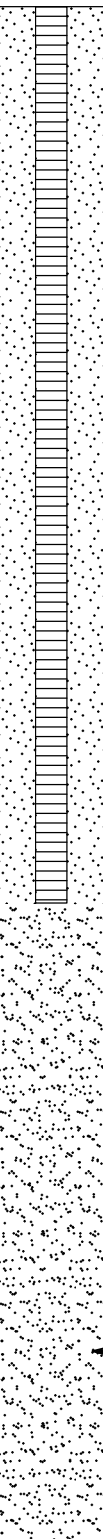
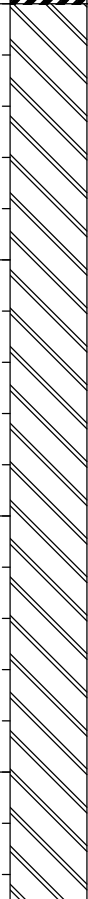
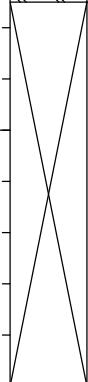
 97 Pine Avenue Mildura VIC 3500 T +61 3 5021 4486				BOREHOLE NUMBER <div style="text-align: right; font-size: 2em; font-weight: bold;">MW1</div>																	
CLIENT Wentworth Shire Council PROJECT Buronga Landfill Expansion Detailed Design LOCATION Wentworth, NSW				NORTHING 6223212.34 EASTING 610277.539		ELEVATION (mAHD) 44.09 TOTAL DEPTH (m BGL) 15.25															
STARTED 17/04/2023 CONTRACTOR In-Depth Drilling EQUIPMENT Rockmaster METHOD AU		COMPLETED 17/04/2023 LOGGED BY IPN CHECKED BY MA PERMIT NO.		SYMBOL   	SWL (mTOC) 12.3 12.5	DATE 17/04/2023 18/04/2023	NOTES Stickup finish in yellow steel standpipe Monitoring Point Elevation to top of PVC 45.014 mAHD														
DEPTH (m)		GRAPHIC LOG		USCS CLASS.		MOISTURE		DESCRIPTION AND OBSERVATIONS		SAMPLE		SAMPLE ID		SPT (N Value)		ELEV (m AHD)		WELL CONSTRUCTION			
1.0				SP		D		SAND. Fine to coarse grained, poorly graded, pale brown, with low plasticity fines, with fine to coarse grained gravels, rounded								44.0		 Concrete Grout			
2.0						D		Becoming trace gravels, sub-rounded, colour becoming pale orange-brown								43.0					
3.0																42.0					
4.0				SC		D		Calcareous Clayey SAND. Fine to coarse grained, poorly graded, orange-brown darkening with depth, low plasticity fines								41.0					
5.0				SC		D		Clayey SAND. Fine to coarse grained, poorly graded, orange-brown, minor black flecking, trace fine to medium grained gravels, pockets of low plasticity CLAY								40.0					
																39.0					
PROJECT NO. 202597																				PAGE 1 OF 3	


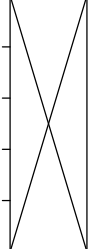

 97 Pine Avenue Mildura VIC 3500 T +61 3 5021 4486				BOREHOLE NUMBER <div style="text-align: right; font-size: 2em; font-weight: bold;">MW1</div>						
CLIENT Wentworth Shire Council PROJECT Buronga Landfill Expansion Detailed Design LOCATION Wentworth, NSW				NORTHING 6223212.34 EASTING 610277.539		ELEVATION (mAHD) 44.09 TOTAL DEPTH (m BGL) 15.25				
STARTED 17/04/2023 CONTRACTOR In-Depth Drilling EQUIPMENT Rockmaster METHOD AU		COMPLETED 17/04/2023 LOGGED BY IPN CHECKED BY MA PERMIT NO.		SYMBOL   	SWL (mTOC) 12.3 12.5 	DATE 17/04/2023 18/04/2023	NOTES Stickup finish in yellow steel standpipe Monitoring Point Elevation to top of PVC 45.014 mAHD			
DEPTH (m)	GRAPHIC LOG	USCS CLASS.	MOISTURE	DESCRIPTION AND OBSERVATIONS	SAMPLE	SAMPLE ID		SPT (N Value)	ELEV (m AHD)	WELL CONSTRUCTION
7.0		SC	D	Clayey SAND. Fine to coarse grained, poorly graded, orange-brown, minor black flecking, trace fine to medium grained gravels, pockets of low plasticity CLAY (continued)					38.0	 Bentonite Seal  Gravel Filter Pack
9.0		SP	M D	SAND. Fine to coarse grained, poorly graded, orange-brown, with low plasticity fines					37.0	
10.0		SC	M D	Clayey SAND. Fine to coarse grained, poorly graded, dark orange-brown, low plasticity fines.				36.0		
11.0				Becoming trace fine grained gravels, rounded				35.0		
		CH	w<PL	CLAY. High plasticity, red-brown, minor white flecking, with fine to coarse grained sands, calcareous in places				34.0		
								33.0	 Screen	
PROJECT NO. 202597										PAGE 2 OF 3

 97 Pine Avenue Mildura VIC 3500 T +61 3 5021 4486				BOREHOLE NUMBER <div style="text-align: right; font-size: 24pt; font-weight: bold;">MW1</div>																
CLIENT Wentworth Shire Council PROJECT Buronga Landfill Expansion Detailed Design LOCATION Wentworth, NSW				NORTHING 6223212.34 EASTING 610277.539		ELEVATION (mAHD) 44.09 TOTAL DEPTH (m BGL) 15.25														
STARTED 17/04/2023 CONTRACTOR In-Depth Drilling EQUIPMENT Rockmaster METHOD AU		COMPLETED 17/04/2023 LOGGED BY IPN CHECKED BY MA PERMIT NO.		SYMBOL   	SWL (mTOC) 12.3 12.5	DATE 17/04/2023 18/04/2023	NOTES Stickup finish in yellow steel standpipe Monitoring Point Elevation to top of PVC 45.014 mAHD													
DEPTH (m)		GRAPHIC LOG		USCS CLASS.		MOISTURE		DESCRIPTION AND OBSERVATIONS		SAMPLE		SAMPLE ID		SPT (N Value)		ELEV (m AHD)		WELL CONSTRUCTION		
13.0				CH		w<PL		Sandy CLAY. Medium to high plasticity, red-brown, minor white flecking, with fine to coarse grained sands, calcareous in places								32.0				
14.0				CH		w<PL w~PL		CLAY. Medium to high plasticity, red-brown, minor white flecking, with fine to coarse grained sands, calcareous in places Becoming pale red-brown								31.0 30.0				
15.0				SC		W		Clayey SAND. Fine to coarse grained, yellow and minor red-brown, medium plasticity fines.								29.0		Collapse		
								End of hole at 15.25m								28.0				
																27.0				

 97 Pine Avenue Mildura VIC 3500 T +61 3 5021 4486				BOREHOLE NUMBER <div style="text-align: right; font-size: 24pt; font-weight: bold;">MW2</div>						
CLIENT Wentworth Shire Council PROJECT Buronga Landfill Expansion Detailed Design LOCATION Wentworth, NSW				NORTHING 6223123.65 EASTING 610952.866		ELEVATION (mAHD) 37.795 TOTAL DEPTH (m BGL) 12.00				
STARTED 17/04/2023 CONTRACTOR In-Depth Drilling EQUIPMENT Rockmaster METHOD AU		COMPLETED 17/04/2023 LOGGED BY IPN CHECKED BY MA PERMIT NO.		SYMBOL   	SWL (mTOC) 5.1 6.1	DATE 17/04/2023 18/04/2023	NOTES Stickup finish in yellow steel standpipe Monitoring Point Elevation to top of PVC 38.783 mAHD			
DEPTH (m)	GRAPHIC LOG	USCS CLASS.	MOISTURE	DESCRIPTION AND OBSERVATIONS	SAMPLE	SAMPLE ID		SPT (N Value)	ELEV (m AHD)	WELL CONSTRUCTION
1.0		SC	D	Calcareous Clayey SAND. Fine to coarse grained, poorly graded, orange-brown, low plasticity fines, trace fine to medium grained gravels, sub angular to sub-rounded					37.0	 _ Concrete Grout _ Bentonite Seal _ Gravel Filter Pack _ Screen
2.0		CH	w<PL	Calcareous Sandy CLAY. Low to medium plasticity, brown and white, fine to coarse grained sands, trace fine grained gravels Colour darkens					36.0	
3.0		CH	w-PL	CLAY. High plasticity, brown and grey, with fine to coarse grained sands				35.0		
4.0								34.0		
5.0								33.0		
								32.0		

 97 Pine Avenue Mildura VIC 3500 T +61 3 5021 4486				BOREHOLE NUMBER <div style="text-align: right; font-size: 24pt; font-weight: bold;">MW3</div>					
CLIENT Wentworth Shire Council PROJECT Buronga Landfill Expansion Detailed Design LOCATION Wentworth, NSW				NORTHING 6223245.46 EASTING 610893.05		ELEVATION (mAHD) 39.566 TOTAL DEPTH (m BGL) 13.00			
STARTED 17/04/2023 CONTRACTOR In-Depth Drilling EQUIPMENT Rockmaster METHOD AU		COMPLETED 17/04/2023 LOGGED BY IPN CHECKED BY MA PERMIT NO.		SYMBOL   	SWL (mTOC) 7.8	DATE 18/04/2023	NOTES Stickup finish in yellow steel standpipe Monitoring Point Elevation to top of PVC 40.524 mAHD		
DEPTH (m)	GRAPHIC LOG	USCS CLASS.	MOISTURE	DESCRIPTION AND OBSERVATIONS	SAMPLE	SAMPLE ID	SPT (N Value)	ELEV (m AHD)	WELL CONSTRUCTION
1.0		SP	D	SAND. Fine to coarse grained, poorly graded, pale brown, with low plasticity fines, trace fine to medium grained gravels, sub angular to sub rounded, minor roots top 200 mm, calcareous.				39.0	 <div style="position: absolute; left: 830px; top: 365px;">Concrete Grout</div> <div style="position: absolute; left: 830px; top: 540px;">Bentonite Seal</div> <div style="position: absolute; left: 830px; top: 625px;">Gravel Filter Pack</div> <div style="position: absolute; left: 830px; top: 935px;">Screen</div>
2.0		SC	D	Calcareous Clayey SAND. Fine to coarse grained, poorly graded, orange-brown, low plasticity fines, trace fine to medium grained gravels, sub angular to sub-rounded				38.0	
3.0		SC	D	Calcareous Clayey SAND. Fine to coarse grained, poorly graded, orange, low to medium plasticity fines, with fine to medium grained gravels, sub angular to sub rounded, white, calcareous				37.0	
4.0		SC	D	Calcareous Clayey SAND. Fine to coarse grained, poorly graded, red, brown and grey, low plasticity fines, with fine to medium grained gravels, subrounded to sub angular, white, pockets grade to Sandy CLAY				36.0	
5.0		CI	w<PL	Calcareous Sandy CLAY. Medium to high plasticity, grey with red and white gravels, fine to coarse grained sands, trace fine grained gravels, sub-rounded				35.0	
								34.0	

 97 Pine Avenue Mildura VIC 3500 T +61 3 5021 4486				BOREHOLE NUMBER <div style="text-align: right; font-size: 24pt; font-weight: bold;">MW3</div>						
CLIENT Wentworth Shire Council PROJECT Buronga Landfill Expansion Detailed Design LOCATION Wentworth, NSW				NORTHING 6223245.46 EASTING 610893.05		ELEVATION (mAHD) 39.566 TOTAL DEPTH (m BGL) 13.00				
STARTED 17/04/2023 CONTRACTOR In-Depth Drilling EQUIPMENT Rockmaster METHOD AU		COMPLETED 17/04/2023 LOGGED BY IPN CHECKED BY MA PERMIT NO.		SYMBOL   	SWL (mTOC) 7.8 	DATE 18/04/2023 	NOTES Stickup finish in yellow steel standpipe Monitoring Point Elevation to top of PVC 40.524 mAHD			
DEPTH (m)	GRAPHIC LOG	USCS CLASS.	MOISTURE	DESCRIPTION AND OBSERVATIONS	SAMPLE	SAMPLE ID		SPT (N Value)	ELEV (m AHD)	WELL CONSTRUCTION
7.0		CH	w-PL	CLAY. High plasticity, grey with minor yellow mottling, with fine to coarse grained sands					33.0	 Collapse
		CI	w-PL	Sandy CLAY. Medium to high plasticity, brown with red and white mottling, fine to coarse grained sands, trace fine grained gravels					32.0	
8.0				Pockets of grey Clayey Sand				31.0		
9.0			w-PL	Colouring brown only, moisture content increasing				30.0		
10.0				No recovery				29.0		
11.0								28.0		

 <div>97 Pine Avenue Mildura VIC 3500 T +61 3 5021 4486</div>				BOREHOLE NUMBER MW3						
CLIENT Wentworth Shire Council				NORTHING 6223245.46		ELEVATION (mAHD) 39.566				
PROJECT Buronga Landfill Expansion Detailed Design				EASTING 610893.05		TOTAL DEPTH (m BGL) 13.00				
LOCATION Wentworth, NSW										
STARTED 17/04/2023		COMPLETED 17/04/2023		SYMBOL	SWL (mTOC)	DATE	NOTES Stickup finish in yellow steel standpipe Monitoring Point Elevation to top of PVC 40.524 mAHD			
CONTRACTOR In-Depth Drilling		LOGGED BY IPN		▼	7.8	18/04/2023				
EQUIPMENT Rockmaster		CHECKED BY MA		▽						
METHOD AU		PERMIT NO.		▼						
DEPTH (m)	GRAPHIC LOG	USCS CLASS.	MOISTURE	DESCRIPTION AND OBSERVATIONS		SAMPLE	SAMPLE ID	SPT (N Value)	ELEV (m AHD)	WELL CONSTRUCTION
13.0				No recovery (continued)					27.0	
				End of hole at 13.0 m, hole collapsing					26.0	
									25.0	
									24.0	
									23.0	
									22.0	
PROJECT NO. 202597										