



Northern Rivers

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Report on TfNSW CBR and MDD

Client:	Bentley Quarry	Report No:	1199-6-CBR
Client Address:	1465 Bentley Road, Bentley	Report Date:	7/06/2023
Project:	1465 Bentley Road, Bentley	Report Page:	Page 1 of 1
Works Component:	Material Assessment	Project No:	1199
Material Used(Source):	65 Minus Flood Blend	Request/Order:	-
Material Description:	Silty Sandy Gravel	Lot Number:	-
Lot Boundaries:	-	ITP/PCP Number:	-
Lab Test Date/s:	Laboratory testing 01/06/2023 to 07/06/2023	Control Line:	NA

Sample Number	Sample Date	Chainage/Location	Offset	Level of Test	Test Depth
7788	31/05/2023	NA	NA	NA	NA

Parameters	Units	Test Results	Information
Pretreatment Regime	--	No Pretreatment	
Portion Retained on AS Sieve	%	31% on 19mm	Retained material excluded from CBR
Material Plasticity (Liquid Limit)	--	Low (Less than 35%)	By Technician's Assessment
Sample Curing Time	hrs	24	
Soil Particle Density	t/m3	2.67	Nominated value
Maximum Dry Density (MDD)	t/m3	1.929	Standard compactive effort.
Optimum Moisture Content (OMC)	%	15.6	
Field Moisture Content	%	Field 9.7 %	Passing 19.0mm portion
Compaction Moisture Content	%	Achieved 15.8 %	LMR = 102% Specified LMR = 100%
Compaction Dry Density	t/m3	Achieved 1.93 t/m3	LDR = 100% Specified LDR = 100%
Surcharge Load	kg	4.5	
Period of Soaking	Days	Soaked - 4 Days	
Specimen Swell	%	-0.3	
Moisture Content - Top 30mm	%	16.5	After Penetration
Moisture Content - Full Depth	%	15.6	After Penetration

Dry Density Vs Moisture Content	Load-Penetration Curve	Material CBR Value (%)
		17
		California Bearing Ratios CBR_{2.5} = 13 CBR_{5.0} = 17 Including an Applied Correction of 0.0 mm

Sampling & Test Methods (Results relate only to the items sampled/tested)	Report Remarks & Endorsement
TS 02795.01:0.0(T105): Preparation of samples TS 02795.14:0.0(T120): Moisture Content, Oven Drying TS 02795.06:0.0(T111): Laboratory Compaction, MDD Standard TS 02795.11:0.0(T117): California Bearing Ratio CBR The specified sampling methods, test results and statistical analysis (where applicable) conform with the relevant ITP. No samples have been abandoned or untested. ** ** NATA accreditation does not cover the performance of this service	<div style="text-align: center;"> </div> <p>Accredited for compliance with ISO/IEC 17025 - Testing. NATA Accreditation number: 19644</p> <p>Issued By: D.Kennedy <i>Approved Signatory</i></p>