

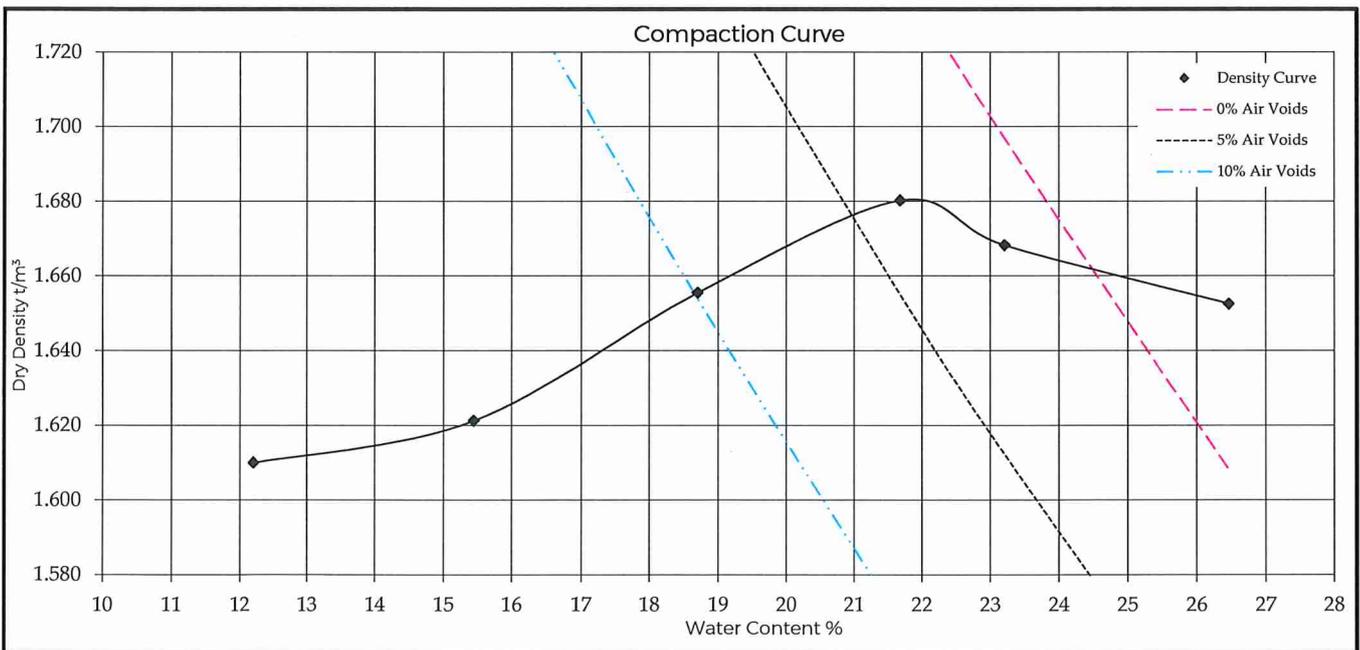
**DRY DENSITY / WATER CONTENT RELATIONSHIP  
STANDARD COMPACTION**



Project : Quality Assurance  
 Location : Front Sand Pit  
 Client : Wilson Resources Limited  
 Contractor : -  
 Sampled by : Client  
 Date sampled : Not Stated  
 Sampling method : Bulk Sample  
 Sample description : Pit Sand  
 Sample condition : As received (Moist)  
 Solid density : 2.80 t/m<sup>3</sup> (Assumed)  
 Source : Front Sand Pit

Project No : 2-68123.00  
 Lab Ref No : HA11611\_MDD  
 Client Ref No :

Test Results							
Maximum dry density	1.68	t/m <sup>3</sup>	Natural water content		9.1	%	
Optimum water content	22	%	Fraction tested		100%	Passing 19mm sieve	
Sample ID	Nat	75	150	225	300	375	450
Bulk density	t/m <sup>3</sup>	-	1.807	1.872	1.965	2.045	2.090
Water content	%	9.1	12.2	15.4	18.7	21.7	26.5
Dry density	t/m <sup>3</sup>	-	1.610	1.621	1.656	1.680	1.653
Sample condition		Loose Moist	Loose Moist	M. Dense Wet	M. Dense Wet-sat.	M. Dense Sat.	Loose Sat.



Test Methods	Notes
Compaction NZS 4402 : 1986 Test 4.1.1 (Standard)	All information supplied by Client

Date tested : 19/09/23  
 Date reported : 25/09/23

Sampling is not covered by IANZ Accreditation. Results apply only to sample tested.  
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IANZ Approved Signatory

Designation : Senior Civil Engineering Technician  
 Date : 25/09/23



Test results indicated as not accredited are outside the scope of the laboratory's accreditation