Materials Test Report

AS 2758.1
Concrete aggregate

Client	**Report Number**
Société Le Nickel	**Date Issue**
Client Address	**Authorized Signatory**
2 rue Desjardins, B.P. E5	**Position**
98 848 NOUMEA, NEW CALEDONIA	
Product Name Le Sland	**Accreditation number**
Project Location Vanuatu	
Sample Location Stockpile -010917	
Material source FerroNicle Slag (FNS)	
Purchase Order	

Sample Details

Sample No:	
Date Sampled:	
Sampled by:	
Sampling Method:	
Material Type:	Sand

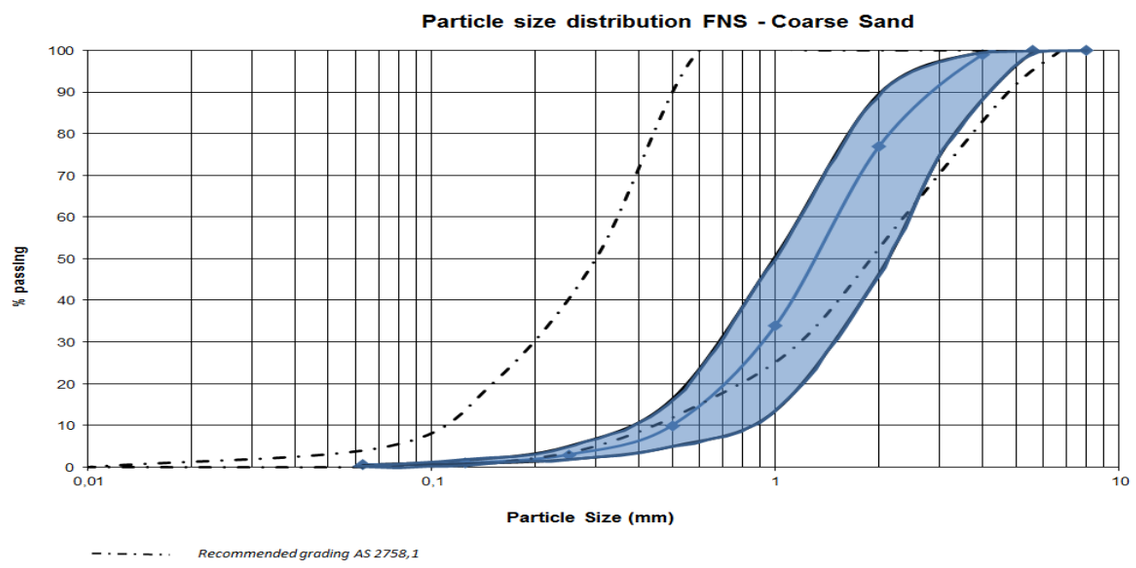
Particle Size Distribution

Test Method:	AS 1141.11.1
Date Tested:	
Specification:	

Sieve Size (mm)	% Passing	Limits
0,075	0	0 - 2
0,15	1	0 - 5
0,3	4	2 - 8
0,425	8	4 - 12
0,6	15	6 - 24
1,18	45	20 - 60
2,36	88	55 - 95
4,75	100	95 - 100
6,7	100	100
9,5	100	100

Other Test Information

Description	*Method*	*Result*	*Limits*
Particle Density (T/m^3)	AS 1141.5		-
Apparent		2.94	
On a dry basis		2.9	
On a saturated surface-dry basis		2.91	
Bulk Density (loose) (T/m^3)		1.3	1.2 - 1.4
Water absorption (%)	AS 1141.5	0.5	0.4 - 0.6
Sodium sulfate soundness (%w. loss)	AS 1141.24	0.9	<6
Clay and fine silt (%)	AS 1141.33	0	0
Chloride (%)	AS 1141.20	< 0.01	
Sulfate (%)	AS 1141.20	0.01	
Presence of sugar	AS 1141.35	NEGATIVE	
Organic impurities other than sugar	AS 1141.34	PASS	
Potential alkaline reactivity	CSIRO	REACTIVE	
AMBT AAR assessment (25%FA/75%OPC)	PASS	(25% Fly Ash recommended)	



Mineralogy	SiO2 : 53 %	50 - 55	No Periclase (reactive MgO)	MnO < 1 %	
	MgO : 33 %	30 - 35		CaO < 1 %	0,2 -0,6
	Fe2O3 : 11 %	10 - 15	Crystalline phase:	Forsterite, ferroan (XRD)	
	Al2O3 : 2 %	1 - 3		Clinoenstatite	

Remarks

Safety screening @ 20 mm. (Max particle size)

Max Ni metal 0,1% No leachable salt, metal

No crystalline silica