

# Technical Data Sheet Helensville Sand Plant

## Concrete Aggregate

Quarry Source Rock: Kaipara Harbour

Source Sand Characteristics	Test method	Value
Chloride Content	ASTM C1152	<400 mg/kg
Sulphate Content	ASTM C1152	<3 mg/kg

### Concrete Sand

Test	Test Method	Value
Unit Mass Loose Poured - SSD*	NZS3111 Section 10	1440kg/m <sup>3</sup>
-voids		45%
Absorption	NZS3111 Section 16	<1%
Density -Dry		2640kg/m <sup>3</sup>
-SSD*		2660kg/m <sup>3</sup>

\* Saturated Surface Dry

### Fine Aggregate

Product	Moisture Content	SE	4.75m m	2.36m m	1.18m m	0.6mm	0.3mm	0.15m m
Concrete Sand	< 10%	>80	100%	100%	100% - 95%	100% - 95%	85%-70%	< 15%

All testing carried out at an IANZ accredited laboratory. Test results available upon request. All results correct at time of publication, July 2012.