Waikato Laboratory



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0800 LABORATORY Report No: MAT:WAI21S-02049 Issue No: 1 **Material Test Report** The tests reported herein (unless otherwise indicated) have been performed in accordance with the laboratory's scope of accreditation. Client: CCREDITED Manukau Quarries LP Samples are tested as received in natural condition unless stated P O Box 202230 vise in the comments. This report may only be reproduced in full. Takanini Auckland 2246 Approved Signatory: Ross Lambert (IANZ/Bituminous Supervisor) IANZ Accreditation No:561 NZ The results in this report relate only to the items / **Project:** samples that were tested Laboratory Testing Date of Issue: 17/06/2021 Other Test Results **Sample Details** Sample ID: WAI21S-02049 Description Method Limits Result Moisture Content (%) **Client Sample ID:** Manarc 40 MR 9 NZS 4407:2015 Test 3.1 5.1 Material: Sand Equivalent NZS 4407:2015 Test 3.6 34.0 ≥25 Sample Source: Shaking Method Mechanical **Preparation Method** Site/Sampled From: Brushed Date Sampled: Plasticity Index NZS 4407:2015 3.4 04/06/2021 11 Specification: Clevedon - Manarc 40 MR 9 Plastic Limit NZS 4407:2015 3.3 21 Sampled By: Unknown **Cone Penetration Limit** NZS 4407:2015 3.2 32 Sampling Method: Not Advised - Not Accredited Sample History Air-dried **Date Tested:** Test performed on Fraction passing 425µm sieve 10/06/2021 Technician: Rijo Koshy Sampling Endorsed?: No Particle Size Distribution Method: NZS 4407:2015 Test 3.8.1 % Passing Tested By: Rijo Koshy 100 Note: ^a Obtained by difference. 90 % Passing **Sieve Size** Limits 53.0mm 80 100 100 - 10037.5mm 100 100 - 10070 26.5mm 96 19.0mm 85 61 - 8060 13.2mm 72 9.5mm 60 38 - 5750 6.7mm 48 4.75mm 38 23 - 4340 2.36mm 26 14 - 3330 1.18mm 18 7 - 25

Comments

20

10

0

75µm

N/A

50um

00

600µm

.18mm

2.36m 2.36m 1.75mm

9.5mm

37.5mm 53.0mm

9.0mm

600µm

300µm

150µm

75µm

13

10

8

6^a

2 - 19

0 - 14

0 - 10

0 - 7