

Attention : Shaun Fredrickson
Landscape Direct Ltd.

METHOD FOR DETERMINING UNIT MASS & VOIDS CONTENT OF AGGREGATE
***Test Method NZS 3111 : 1986 T-10**

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|---------------------|--------------------------------------|-------------------|---------------------------|
| Job : | Scoria Properties Testing - Takanini | Client : | Landscape Direct Ltd. |
| Date of Order : | 10/8/2018 | Sample Location : | Taupo Quarry |
| Sample Description: | Pumice Sand | Sample Method : | NZS 4407: 2015: 2.4.6.3.1 |
| Sampled By : | EP | Date Sampled : | 10/8/2018 |


Test History : Tested at as received moisture content
Moisture Content - Test Method NZS 4402: 1986 Test 2.1
Solid Density - Test Method NZ 4402: 1986 Test 2.7.1

Test Results :

| Sample No. | Client Reference | *Sample Description | Solid Density t/m ³ | Moisture Content (%) | Loose Poured | | | Compacted | | |
|---------------|-------------------------------|---------------------|--------------------------------|----------------------|----------------------------------|----------------------------------|-------------------|----------------------------------|----------------------------------|-------------------|
| | | | | | Unit Mass (wet) t/m ³ | Unit Mass (dry) t/m ³ | Voids Content (%) | Unit Mass (Wet) t/m ³ | Unit Mass (dry) t/m ³ | Voids Content (%) |
| ETAM18S-11043 | Pumice (Top Pit) (FINER) | Silty SAND, white | 2.11 | 36.4 | 0.76 | 0.78 | 63 | 0.97 | 0.92. | 54 |
| ETAM18S-11044 | Pumice (Bottom Pit) (COARSER) | Silty SAND, white | 1.64 | 18.9 | 0.59 | 0.59 | 64 | 0.71 | 0.66 | 57 |
| | | | | | | | | | | |

Comments:

*- Not IANZ Endorsed

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|---------------------|---|--------|-------------------------|
| Tested By : | GB & CT | Date : | 13/08/2018 - 27/08/2018 |
| Calculated By : | RC | Date : | 27/8/2018 |
| Checked By : | RC | Date : | 27/8/2018 |
| Approved Signatory: |  | Date : | 27/8/2018 |