

Client: Island Enterprises Inc
Job Number: 94601

X-Ray Fluorescence Spectrometry

The sample was converted to a fine powder by grinding in a stainless steel mill for 5 min. 5 g of the powder was mixed with 0.5 g of an organic binder and the mixture was pressed under 25 ton pressure into a disk. The sample disk was scanned by XRF for elements on the Periodic Table from boron through uranium. The semi-quantitative results listed below were calculated based on Fundamental Parameters and reported as oxides.

Sample ID: Volcanic Sand

<u>Component</u>	<u>Approximate Weight %</u>
SiO ₂	57
Al ₂ O ₃	19
CaO	7.8
Fe ₂ O ₃	7.4
Na ₂ O	3.2
MgO	2.6
K ₂ O	0.80
TiO ₂	0.69
P ₂ O ₅	0.21
MnO	0.16
WO ₃	0.12
SO ₃	0.059

Date Analyzed: 03-22-07

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Quality Control Summary

For quality control purpose the standard reference material Plastic Clay NBS 98 was prepared and analyzed the same way as the sample

<u>Component</u>	<u>Observed value</u>	<u>Certified value</u>
SiO ₂	56	59.11
Al ₂ O ₃	27	25.54
TiO ₂	1.5	1.43
ZrO ₂	0.033	0.04
Fe ₂ O ₃	2.2	2.05
Na ₂ O	0.27	0.28
K ₂ O	3.7	3.17
MgO	0.88	0.72
CaO	0.2	0.21
Date Analyzed:	03-22-07	