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Chemical, Metallurgical, Mechanical, Nondestructive, Environmental Testing, Analyses and Field Service.

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Attention: Chris Turley

REPORT OF ANALYSIS

MATERIAL: Stones labeled Mexico, Peru, and Chilean

SUBJECT: Compositional Characterization

PROCEDURE:

The following analysis was conducted using an energy-dispersive spectrometer (EDS) equipped scanning electron microscope (SEM). The EDS is capable of qualitative and semi-quantitative chemical analysis of elements atomic numbers 6 through 94. The detected elements are normalized to total 100%. The nominal detection limit for most elements is 0.5%.

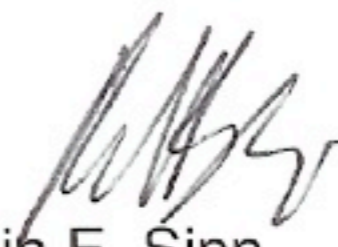
RESULTS:

EDS analysis of each of the submitted samples disclosed the presence of primarily silicon dioxide, iron oxide, and aluminum oxide with lesser concentrations of sodium, magnesium, potassium, calcium, and titanium. The concentrations of these elements were relatively similar in each of the samples. See the enclosed spectrum printouts.

CONCLUSION:

Each of the submitted samples exhibited a composition consistent with that of basalt.

None of the samples were consistent with the composition of agate, which is a form of quartz (typically has a composition of around 90% SiO₂).


Robin E. Sinn
Laboratory Director

RES/slw



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