Title
An Energy-Dispersive X-Ray Fluorescence Analysis of Obsidian Artifacts from LA 109487, New Mexico

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LETTER REPORT

AN ENERGY-DISPERSIVE X-RAY FLUORESCENCE ANALYSIS OF OBSIDIAN ARTIFACTS FROM LA 109487, NEW MEXICO

2 September 2015

Dr. William Whitehead
SWCA Environmental Consultants
5647 Jefferson Street, NE
Albuquerque, NM 87109

Dear Bill:

The artifacts were all produced from sources in the Jemez Mountain, northern New Mexico (Table 1). I'm not sure where this site is located, so I can't make any specific comments. Specific instrumental methods can be found at http://www.swxrflab.net/anlysis.htm, and Shackley (2005). Source assignment was made by comparison to source standard data in the laboratory. Analysis of the USGS RGM-1 standard indicates high machine precision for the elements of interest (Table 1 here).

Sincerely,

M. Steven Shackley, Ph.D.
Director
REFERENCE CITED

Shackley, M.S.  

Table 1. Elemental concentrations for the archaeological samples and USGS RGM-1 rhyolite standard. All measurements in parts per million (ppm).

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<thead>
<tr>
<th>Sample</th>
<th>Ti</th>
<th>Mn</th>
<th>Fe</th>
<th>Rb</th>
<th>Sr</th>
<th>Y</th>
<th>Zr</th>
<th>Nb</th>
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<td>44</td>
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<td>9901</td>
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<td>13641</td>
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<td>106</td>
<td>24</td>
<td>213</td>
<td>7</td>
<td>standard</td>
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