Title
An Energy-Dispersive X-Ray Fluorescence Analysis of an Obsidian Artifact from CA-SBR-12662

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LETTER REPORT

AN ENERGY-DISPERSIVE X-RAY FLUORESCENCE ANALYSIS OF AN OBSIDIAN ARTIFACT FROM CA-SBR-12662

9 May 2014

Dr. Tiffany Clark
Applied EarthWorks, Inc.
133 N San Gabriel Blvd., Ste 201
Pasadena, CA 91107-3414

Dear Tiffany:

The one piece of obsidian debitage was produced from one of the domes at the Coso Volcanic Field, Inyo County, California. Specific instrumental methods can be found at http://www.swxrflab.net/anlysis.htm, and Shackley (2005). Source assignment was made by comparison to Ericson and Glascock (2004) and Hughes (1988). 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

VOICE: 510-393-3931
INTERNET: shackley@berkeley.edu
http://www.swxrflab.net/
REFERENCES CITED

Ericson, J.E., and M.D. Glascock

Hughes, R.E.

Shackley, M.S.

Table 1. Elemental concentrations for the archaeological sample. All measurements in parts per million (ppm).

<table>
<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>
<th>Pb</th>
<th>Th</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>SBR-12662-1</td>
<td>442</td>
<td>325</td>
<td>9812</td>
<td>269</td>
<td>5</td>
<td>50</td>
<td>115</td>
<td>40</td>
<td>31</td>
<td>35</td>
<td>Coso Volc. Field</td>
</tr>
<tr>
<td>RGM1-S4</td>
<td>1571</td>
<td>292</td>
<td>1303</td>
<td>149</td>
<td>105</td>
<td>24</td>
<td>223</td>
<td>9</td>
<td>26</td>
<td>19</td>
<td>standard</td>
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