Title

Permalink
https://escholarship.org/uc/item/1tf759z8

Author
Shackley, M. Steven

Publication Date
2010-09-23

Supplemental Material
https://escholarship.org/uc/item/1tf759z8#supplemental

License
CC BY-NC 4.0
23 September 2010

Mary Prasciunas  
Westland Resources, Inc.  
4001 E Paradise Falls Dr  
Tucson, AZ 85712

Dear Mary,

The three artifacts were produced from very diverse sources in all directions from the site: east to Mule Creek in western New Mexico; north to Government Mountain in the San Francisco Volcanic Field in northern Arizona; and southwest to Los Sitios del Agua in northern Sonora. The Mule Mountains-Mule Creek obsidian is also available in secondary deposits along the Gila River in eastern Arizona, and Los Sitios del Agua is a newly discovered source east of the Piñacate Volcanic Field in far northern Sonora (Martynec et al. 2010; Shackley 2005). This spatial diversity of sources is typical of Archaic and Early Formative contexts in the Southwest (Shackley 2005). The samples were analyzed with a ThermoScientific Quant’X EDXRF spectrometer in the Archaeological XRF Laboratory, El Cerrito, California. Specific instrumental methods can be found at http://www.swxrflab.net/anlysis.htm, and Shackley (2005). Analysis of the USGS RGM-2 standard indicates high machine precision for the elements of interest (Table 1 here).

Sincerely,

M. Steven Shackley, Ph.D.  
Director

VOICE: (510) 642-2533  
INTERNET: shackley@berkeley.edu  
http://www.swxrflab.net/
REFERENCES CITED

Martynec, R., R. Davis, and M.S. Shackley
2010 The Los Sitios Del Agua Obsidian Source (Formerly AZ Unknown A) and Recent Archaeological Investigations Along the Rio Sonoyta, Northern Sonora. *Kiva*, in press.

Shackley, M.S.

Table 1. Elemental concentrations for the archaeological samples. 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>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>8185</td>
<td>1400</td>
<td>550</td>
<td>26551</td>
<td>153</td>
<td>11</td>
<td>80</td>
<td>680</td>
<td>47</td>
<td>Los Sitios del Agua, SON</td>
</tr>
<tr>
<td>8433</td>
<td>702</td>
<td>397</td>
<td>9155</td>
<td>251</td>
<td>16</td>
<td>41</td>
<td>106</td>
<td>28</td>
<td>Mule Mts-Mule Cr, NM</td>
</tr>
<tr>
<td>8434</td>
<td>425</td>
<td>494</td>
<td>8334</td>
<td>103</td>
<td>77</td>
<td>20</td>
<td>77</td>
<td>49</td>
<td>Government Mtn, AZ</td>
</tr>
<tr>
<td>RGM2-S1</td>
<td>1553</td>
<td>309</td>
<td>12973</td>
<td>154</td>
<td>108</td>
<td>25</td>
<td>216</td>
<td>11</td>
<td>standard</td>
</tr>
</tbody>
</table>