12-20-2021

Letter report, re: analysis of three obsidian projectile points from Pete Creek (41CB1)

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Sunday Eiselt  
Department of Anthropology  
Southern Methodist University  
Dallas, Texas 75205  

December 20, 2021  

Re: Analysis of three obsidian projectile points from Pete Creek (41CB1)  

Dear Sunday,  

I have completed the XRF analysis of the three obsidian projectile points you provided from Pete Creek (41CB1). Analytical protocols used for its analysis are identical to those reported in the report I sent to you on November 29.  

The elemental abundances determined for these artifacts are reported below. It appears as if two of points (PETE038 & PETE039) are made on Cerro Toledo obsidian and the other (PETE040) is consistent with Valle Grande rhyolite obsidian (aka Cerro del Medio).  

Sincerely,  

Matthew T. Boulanger
Table 1. Elemental abundances determined for one obsidian flake (Lot #46) from Pete Creek.

<table>
<thead>
<tr>
<th></th>
<th>Ti</th>
<th>Mn</th>
<th>Fe</th>
<th>Zn</th>
<th>Ga</th>
<th>Rb</th>
<th>Sr</th>
<th>Y</th>
<th>Zr</th>
<th>Nb</th>
<th>Ba</th>
<th>Th</th>
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</thead>
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<tr>
<td>PETE038</td>
<td>&lt; LOD</td>
<td>438</td>
<td>7315</td>
<td>78</td>
<td>21</td>
<td>189</td>
<td>&lt; LOD</td>
<td>55</td>
<td>157</td>
<td>88</td>
<td>&lt; LOD</td>
<td>21</td>
</tr>
<tr>
<td>PETE039</td>
<td>310</td>
<td>535</td>
<td>7729</td>
<td>86</td>
<td>24</td>
<td>204</td>
<td>&lt; LOD</td>
<td>60</td>
<td>170</td>
<td>94</td>
<td>&lt; LOD</td>
<td>23</td>
</tr>
<tr>
<td>PETE040</td>
<td>&lt; LOD</td>
<td>355</td>
<td>7389</td>
<td>61</td>
<td>16</td>
<td>158</td>
<td>3</td>
<td>39</td>
<td>158</td>
<td>50</td>
<td>&lt; LOD</td>
<td>16</td>
</tr>
<tr>
<td>RGM-1 (μ 4)</td>
<td>1530</td>
<td>317</td>
<td>12958</td>
<td>35</td>
<td>17</td>
<td>151</td>
<td>111</td>
<td>21</td>
<td>239</td>
<td>9</td>
<td>844</td>
<td>14</td>
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