**Seismic Analysis**

**Velocity Waveform Analysis**

Serial Number: 7543  
Firmware Version: 0C-06.01  
Event Date: 11/12/2015 11:50:55 (UTC -08:00)  
Event number: 20  
Recording Time: 5 s  
Client: COUNTY OF MARIN  
Operation: SAN RAFAEL ROCK QUARRY  
Location: ON QUARRY PROPERTY  
Distance:  
Operator: VIBRA-TECH IP2  
Comment: Seismic Trigger: 0.03 in/s  
Sound Trigger: OFF  
Additional Info: j-GEO-01253, N37 59.481, W122 27.256  

**Summary Data**

<table>
<thead>
<tr>
<th></th>
<th>L</th>
<th>T</th>
<th>V</th>
</tr>
</thead>
<tbody>
<tr>
<td>PPV (in/s):</td>
<td>0.13</td>
<td>0.1</td>
<td>0.1375</td>
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<tr>
<td>FREQ (HZ):</td>
<td>55.6</td>
<td>38.5</td>
<td>62.5</td>
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<tr>
<td>PD (.001&quot;)</td>
<td>0.6425</td>
<td>0.565</td>
<td>0.58</td>
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<tr>
<td>PPA (g):</td>
<td>0.1042</td>
<td>0.0651</td>
<td>0.1432</td>
</tr>
</tbody>
</table>

Peak Vector Sum: 0.16 in/s  
Peak Air Pressure: 113.2 dB  

Shaketable Calibrated  
On: 01/15/2015 (UTC -08:00)  
By: Vibra-Tech, Inc.  
2700 Holloway Road - Suite 113  
Louisville, KY 40203 U.S.A.

**USBM Safe Blasting Levels**

SSN: 7543 Event: 20

<table>
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<tr>
<th></th>
<th>Longitudinal</th>
<th>Transverse</th>
<th>Vertical</th>
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<tbody>
<tr>
<td>PPV (in/s)</td>
<td>0.01</td>
<td>0.1</td>
<td>1.0</td>
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<tr>
<td>Frequency (Hz)</td>
<td>1</td>
<td>10</td>
<td>100</td>
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</tbody>
</table>

**Waveform Graph Scale**

Time Scale: 0.1 s  
Seismic Scale: +/- 0.20625 in/s  
Sound Scale: +/- 0.0023 psi

**Velocity Waveform**

SSN: 7543 Event: 20
Serial Number: 7438
Firmware Version: 0C-06.01
Event Date: 11/12/2015 11:51:03 (UTC -08:00)
Event number: 16
Recording Time: 5 s
Client: COUNTY OF MARIN
Operation: SAN RAFAEL ROCK QUARRY
Location: 16 MARIN BAY PARK CT.
Operator: VIBRA-TECH IP2
Comment: WILLIAM HOSKEN RES.
Seismic Trigger: 0.03 in/s
Sound Trigger: OFF
Additional Info: j-GEO-01252
N37 59.524, W122 27.373

Summary Data

<table>
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<tbody>
<tr>
<td>PPV (in/s):</td>
<td>0.05</td>
<td>0.0425</td>
<td>0.0475</td>
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<td>FREQ (HZ):</td>
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<td>41.7</td>
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<tr>
<td>PD (.001&quot;)</td>
<td>0.265</td>
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<td>0.4225</td>
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<tr>
<td>PPA (g):</td>
<td>0.03255</td>
<td>0.02604</td>
<td>0.04557</td>
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</tbody>
</table>

Peak Vector Sum: 0.065 in/s
Peak Air Pressure: 0.001212 psi @ 1.7 HZ

Shaketable Calibrated On: 01/15/2015 (UTC -08:00)
By: Vibra-Tech, Inc.
2700 Holloway Road - Suite 113
Louisville, KY 40203 U.S.A.

USBM Safe Blasting Levels
SSN: 7438 Event: 16

Velocity Waveform
SSN: 7438 Event: 16

Waveform Graph Scale
Time Scale: 0.1 s
Seismic Scale: +/- 0.16 in/s
Sound Scale: +/- 0.0023 psi