

# Seismic Analysis

## Velocity Waveform Analysis

**Serial Number:** 7121  
**Firmware Version:** 0C-06.05  
**Event Date:** 04/06/2016 11:45:46 (UTC -07:00)  
**Event number:** 16  
**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

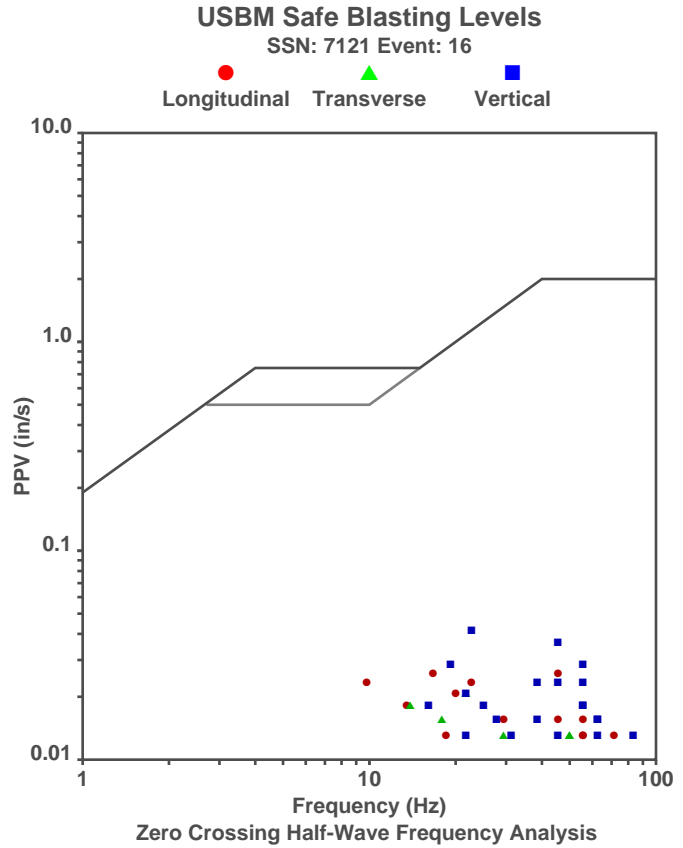
**Summary Data**

	L	T	V
<b>PPV (in/s):</b>	0.025	0.02	0.04
<b>FREQ (HZ):</b>	45.5	21.7	22.7
<b>PD (.001"):</b>	0.4225	0.2375	0.3
<b>PPA (g):</b>	0.01953	0.01302	0.02604

**Peak Vector Sum:** 0.0425 in/s  
**Peak Air Pressure:** 108.7 dB  
 0.0008198 psi @ 4.6 HZ

**Shaketable Calibrated**

**On:** 01/04/2016 (UTC -07:00)  
**By:** Vibra-Tech, Inc.  
 2700 Holloway Road - Suite 113  
 Louisville, KY 40203 U.S.A.

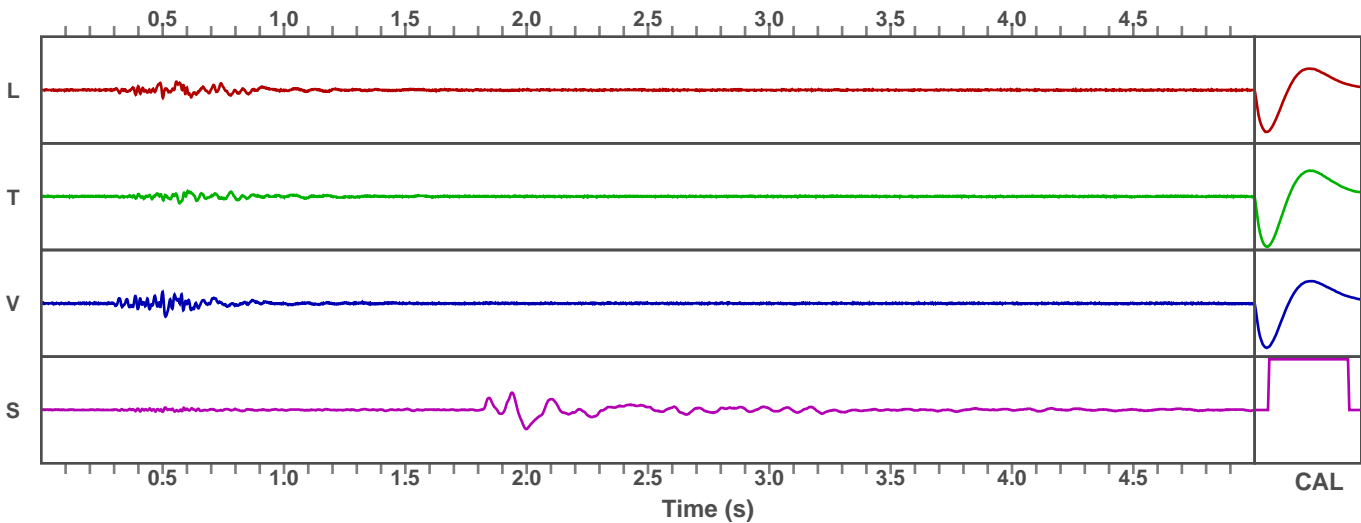


**Waveform Graph Scale**

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

### Velocity Waveform

SSN: 7121 Event: 16



# Vibra-Tech Engineers, Inc. Seismic Analysis

## Stop Event Report

**Serial No:** 10621 v6.5  
**Client:** COUNTY OF MARIN  
**Operation:** SAN RAFAEL ROCK QUARRY  
**Location:** 16 MARIN BAY PARK CT.  
**Distance:**  
**Operator:** VIBRA-TECH IP2  
**Comment:** WILLIAM HOSKEN RES.

**Begin Date:** 04/06/2016 07:00:45 (UTC-7)  
**End Date:** 04/06/2016 13:23:08 (UTC-7)  
**Events over Trigger:** 0 (2-1)  
**Record Time:** 5.0 s  
**Seismic Trigger:** 0.030 in/s  
**Sound Trigger:** N/A  
**Battery Level:** 8.5

### Additional Info:

j-GEO-01252  
N37 59.524, W122 27.373

**Shaketable Calibrated:** 01/07/2016

**By:** GeoSonics Inc.  
359 Northgate Drive  
Warrendale, PA 15086 U.S.A.  
TEL: 724.934.2900 FAX: 724.934.2999

Dynamic Calibration Graph:



### Cal Test Results:

**Longitudinal:** Pass  
**Transverse:** Pass  
**Vertical:** Pass  
**Sound:** Pass

The seismograph located at 16 Marin Bay Park Court (S/N 10621) did not trigger during the shot on April 6, 2016 at approximately 11:45 indicating the ground vibrations produced were below the ground trigger level of 0.030 in/sec.