

# Seismic Analysis

## Velocity Waveform Analysis

**Serial Number:** 7438  
**Firmware Version:** 0C-06.01  
**Event Date:** 03/26/2015 11:30:19 (UTC -07:00)  
**Event number:** 3  
**Recording Time:** 5 s  
**Client:** COUNTY OF MARIN  
**Operation:** SAN RAFAEL ROCK QUARRY  
**Location:** 16 MARIN BAY PARK CT.  
**Distance:**  
**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**

	L	T	V
<b>PPV (in/s):</b>	0.0325	0.015	0.025
<b>FREQ (HZ):</b>	21.7	27.8	26.3
<b>PD (.001'')</b>	0.25	0.16	0.1875
<b>PPA (g):</b>	0.01302	0.01302	0.01953

**Peak Vector Sum:** 0.035 in/s  
**Peak Air Pressure:** 110.6 dB  
 0.001016 psi @ 4 HZ

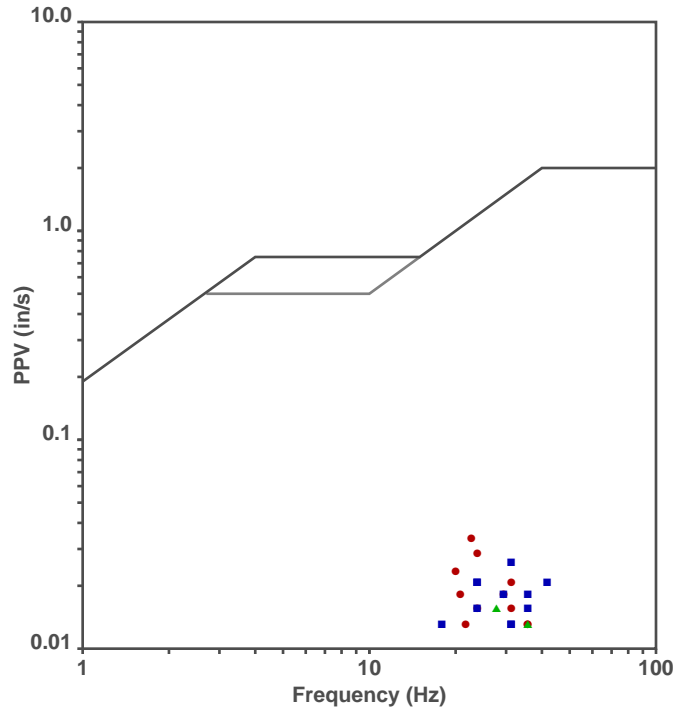
**Shaketable Calibrated**

**On:** 01/15/2015 (UTC -07:00)  
**By:** Vibra-Tech, Inc.  
 2700 Holloway Road - Suite 113  
 Louisville, KY 40203 U.S.A.

**USBM Safe Blasting Levels**

SSN: 7438 Event: 3

● Longitudinal    ▲ Transverse    ■ Vertical



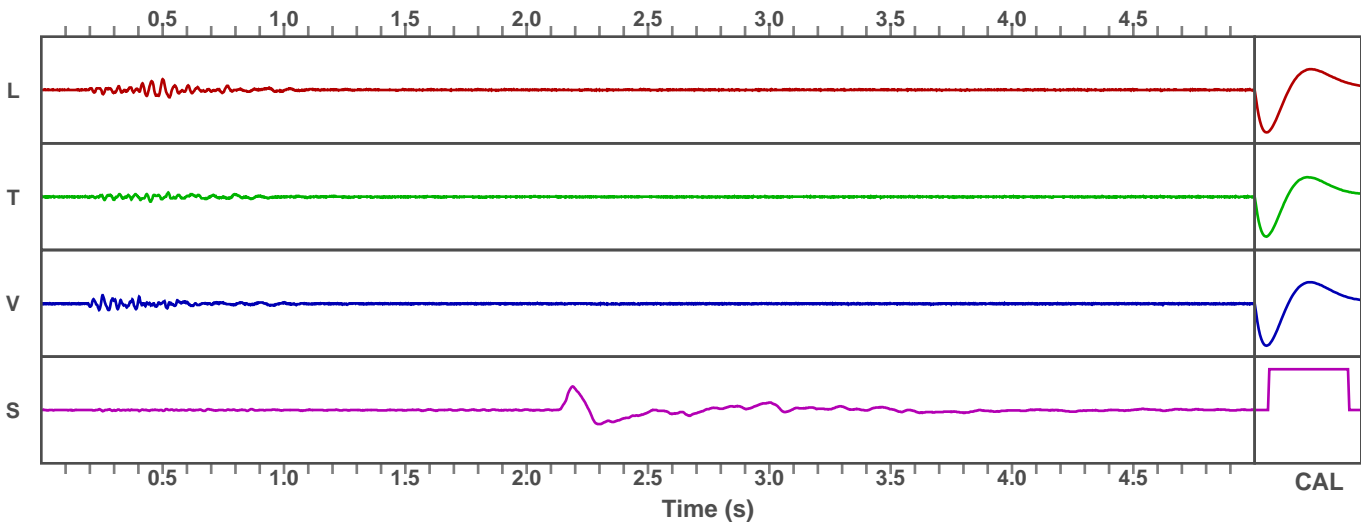
Zero Crossing Half-Wave Frequency Analysis

**Waveform Graph Scale**

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

### Velocity Waveform

SSN: 7438 Event: 3



# Seismic Analysis

## Velocity Waveform Analysis

**Serial Number:** 7543  
**Firmware Version:** 0C-06.01  
**Event Date:** 03/26/2015 11:30:16 (UTC -07:00)  
**Event number:** 3  
**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

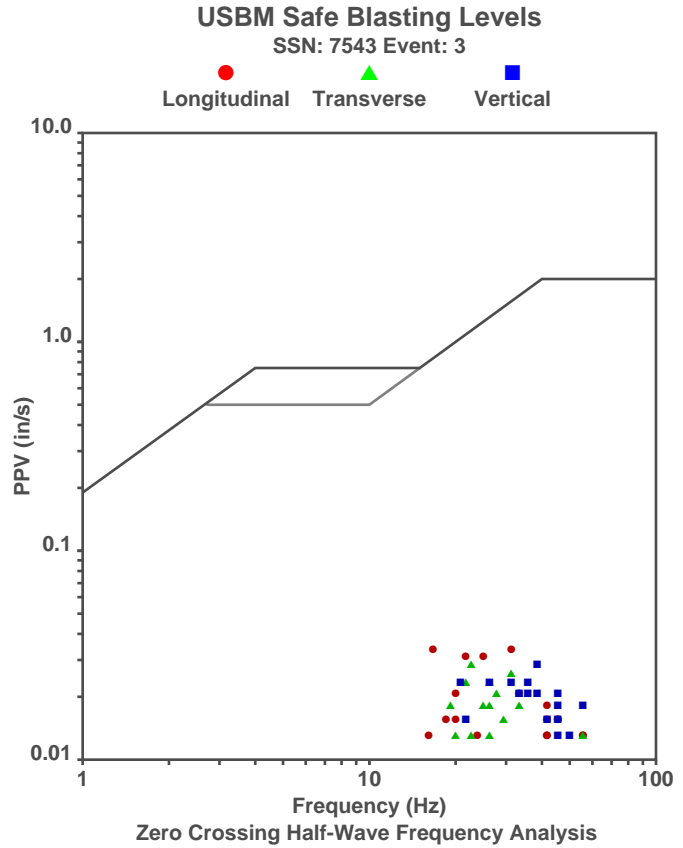
**Summary Data**

	L	T	V
<b>PPV (in/s):</b>	0.0325	0.0275	0.0275
<b>FREQ (HZ):</b>	16.1	22.7	33.3
<b>PD (.001"):</b>	0.295	0.215	0.1775
<b>PPA (g):</b>	0.01953	0.01953	0.01953

**Peak Vector Sum:** 0.04 in/s  
**Peak Air Pressure:** 112 dB  
 0.001248 psi @ 4.6 HZ

**Shaketable Calibrated**

**On:** 01/15/2015 (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: 7543 Event: 3

