

# Seismic Analysis

## Velocity Waveform Analysis

**Serial Number:** 7438  
**Firmware Version:** 0C-06.01  
**Event Date:** 06/25/2015 11:38:18 (UTC -07:00)  
**Event number:** 9  
**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>	0.04	0.0325	0.05
<b>FREQ (HZ):</b>	22.7	31.3	35.7
<b>PD (.001"):</b>	0.445	0.295	0.35
<b>PPA (g):</b>	0.02604	0.01953	0.03906

**Peak Vector Sum:** 0.0525 in/s  
**Peak Air Pressure:** 110.6 dB  
 0.001016 psi @ 3.3 HZ

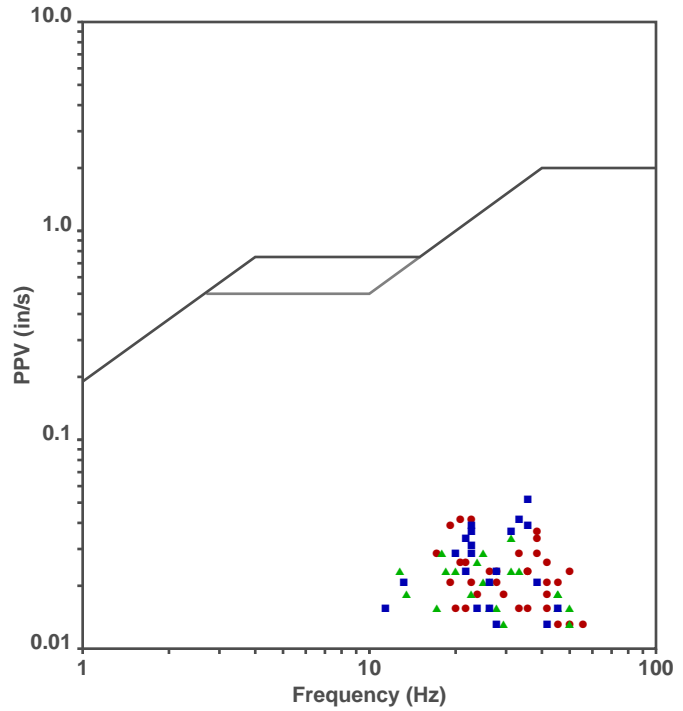
**Shaketable Calibrated**

**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: 9

● Longitudinal    ▲ Transverse    ■ Vertical



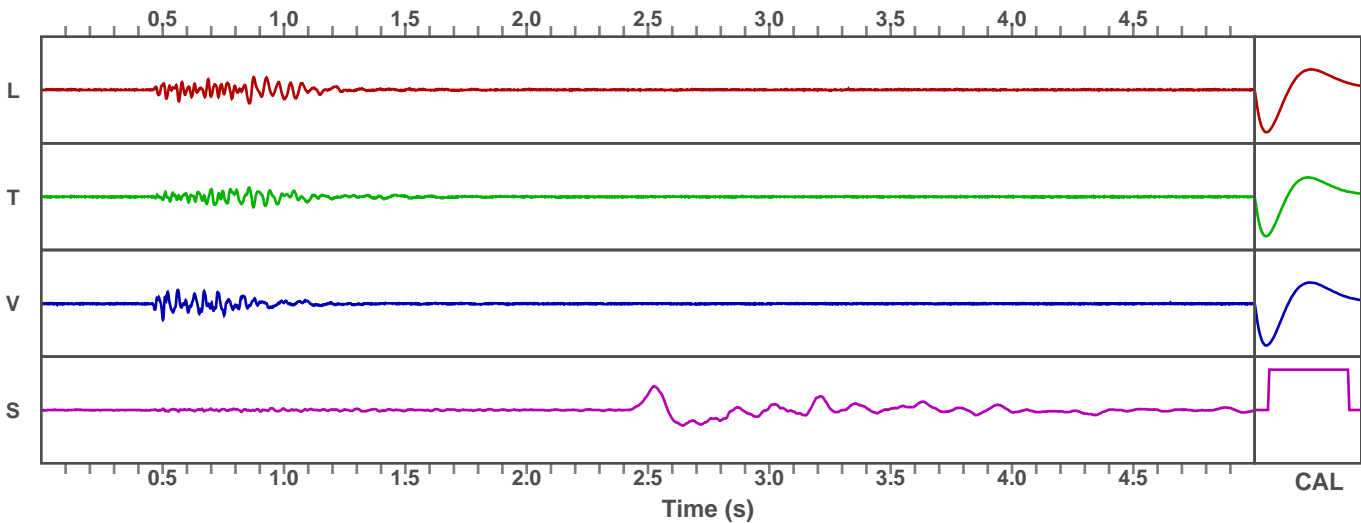
Zero Crossing Half-Wave Frequency Analysis

**Waveform Graph Scale**

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

### Velocity Waveform

SSN: 7438 Event: 9



# Seismic Analysis

## Velocity Waveform Analysis

**Serial Number:** 7543  
**Firmware Version:** 0C-06.01  
**Event Date:** 06/25/2015 11:38:20 (UTC -07:00)  
**Event number:** 11  
**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

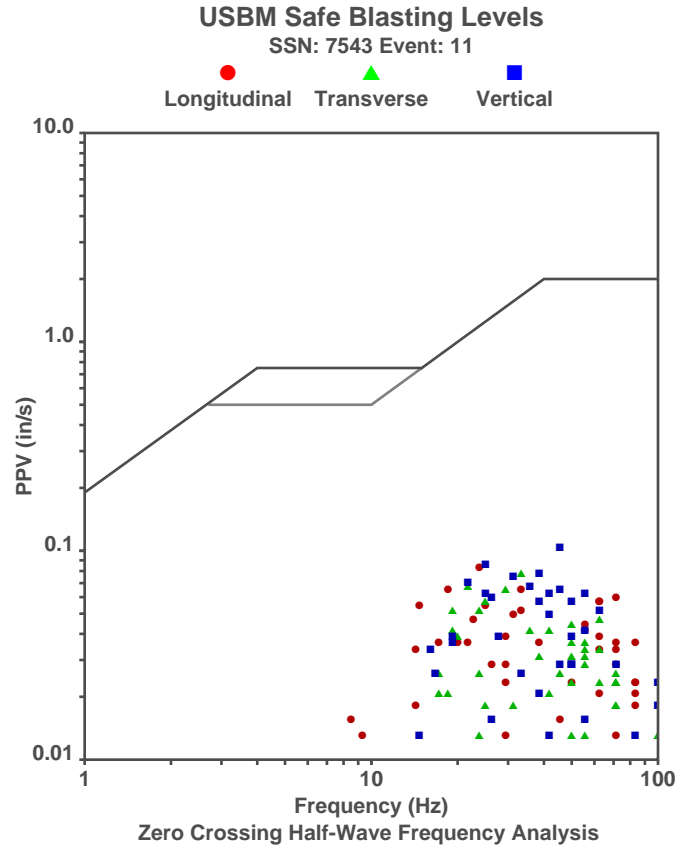
**Summary Data**

	L	T	V
<b>PPV (in/s):</b>	0.08	0.075	0.1
<b>FREQ (HZ):</b>	23.8	33.3	45.5
<b>PD (.001'')</b>	0.6025	0.64	0.5225
<b>PPA (g):</b>	0.0651	0.04557	0.07161

**Peak Vector Sum:** 0.1125 in/s  
**Peak Air Pressure:** 111.7 dB  
 0.001194 psi @ 3.7 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: 11

