

Seismic Analysis

Velocity Waveform Analysis

Serial Number: 7121
Firmware Version: 0C-06.05
Event Date: 06/15/2016 11:32:06 (UTC -07:00)
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

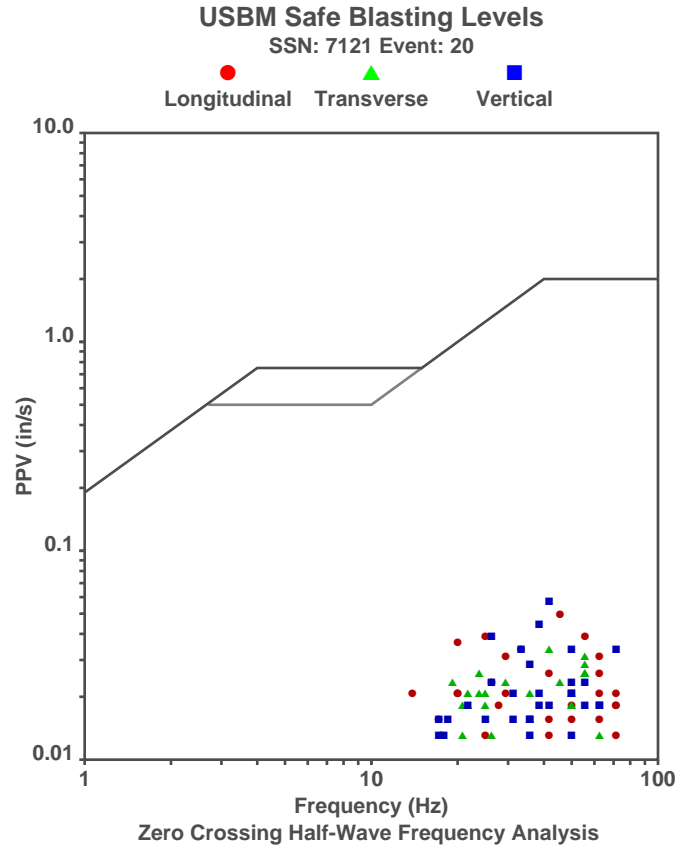
Summary Data

	L	T	V
PPV (in/s):	0.0475	0.0325	0.055
FREQ (HZ):	45.5	41.7	38.5
PD (.001'')	0.34	0.1925	0.2225
PPA (g):	0.03906	0.03255	0.03906

Peak Vector Sum: 0.0725 in/s
Peak Air Pressure: 102 dB
 0.0004099 psi @ 4.3 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.

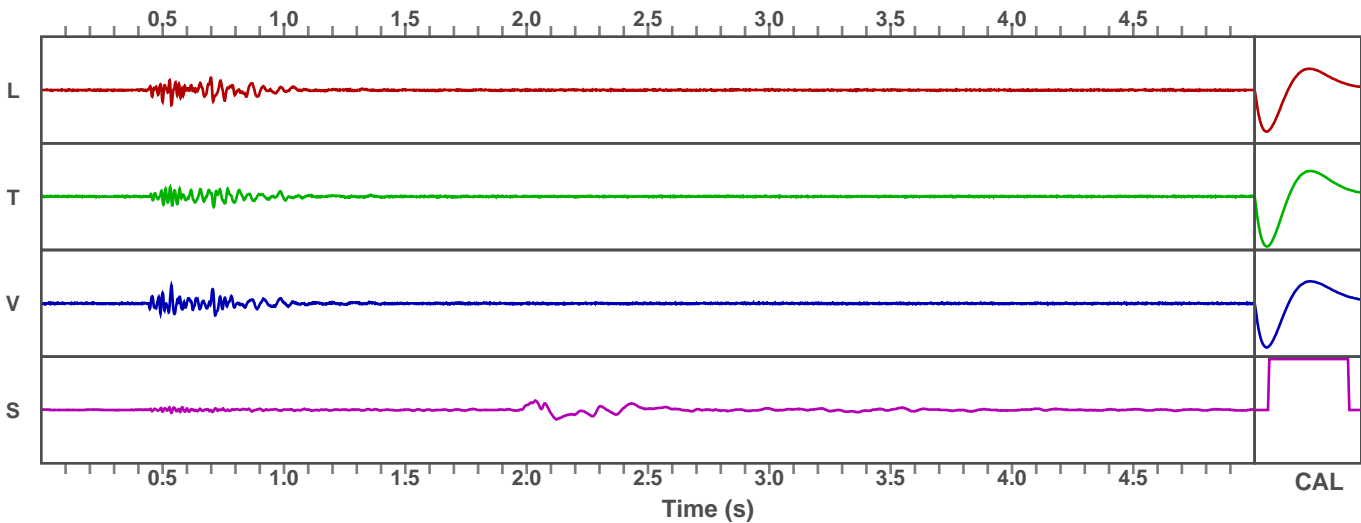


Waveform Graph Scale

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

Velocity Waveform

SSN: 7121 Event: 20



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: 06/15/2016 07:01:48 (UTC-7)
End Date: 06/15/2016 12:50:51 (UTC-7)
Events over Trigger: 0 (0--1)
Record Time: 5.0 s
Seismic Trigger: 0.030 in/s
Sound Trigger: N/A
Battery Level: 8.5

Additional Info:
VIRTUAL CHECK
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 June 15, 2016 at approximately 11:32 indicating the ground vibrations produced were below the ground trigger level of 0.030 in/sec.