

# Seismic Analysis

## USBM/Velocity Waveform Report

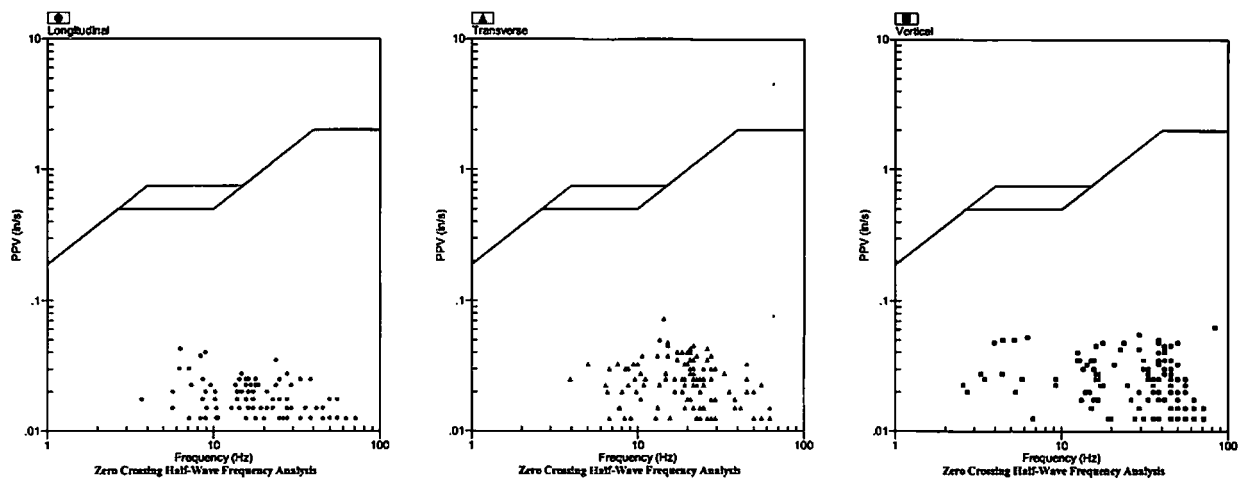
**Serial No:** 5148 v3.67  
**Date:** 04/24/2023 13:20:46  
**Event No:** 1  
**Record Time:** 5.0 s  
**Client:** City of Miramar  
**Operation:** White Rock Quarries  
**Location:** 5276 SW 152 Ave  
**Distance:**  
**Operator:**  
**Comment:**  
**Seismic Trigger:** 0.050 in/s

	L	T	V
<b>PPV (in/s)</b>	0.043	0.073	0.070
<b>FREQ (Hz)</b>	6.3	14.3	35.7
<b>PD (.001")</b>	0.99	0.97	1.73
<b>PPA (g)</b>	0.020	0.039	0.039
<b>Peak Vector Sum:</b>	0.078 in/s		
<b>Peak Air Pressure:</b>	93 db		
	0.00028 PSI @ 29.4 Hz		

**Additional Info:**

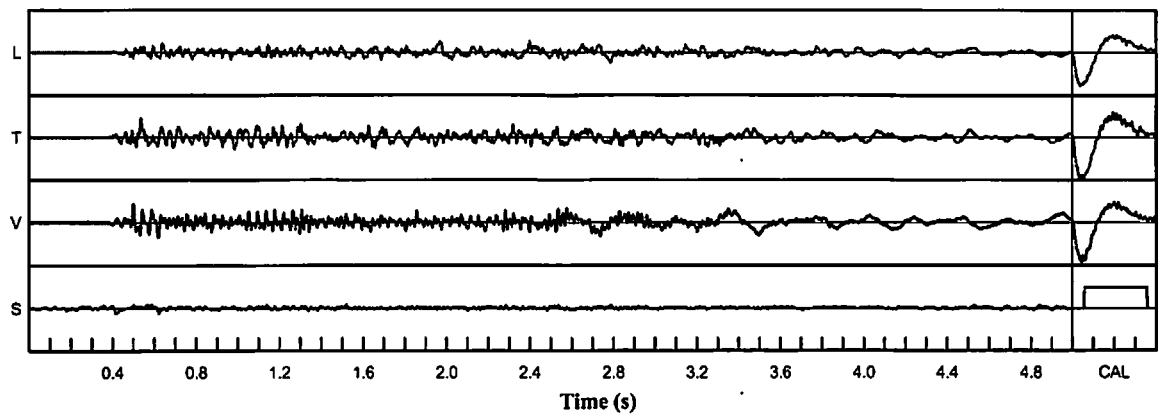
**Shaketable Calibrated:** 06/30/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

### USBM Safe Blasting Levels



### Velocity Waveform

SN: 5148 Event: 1



**Velocity Waveform Graph Scale**  
**Time Scale:** 0.100 s  
**Seismic Scale:** +/- 0.160 in/s  
**Sound Scale:** +/- 0.0023 PSI

# Seismic Analysis

## USBM/Velocity Waveform Report

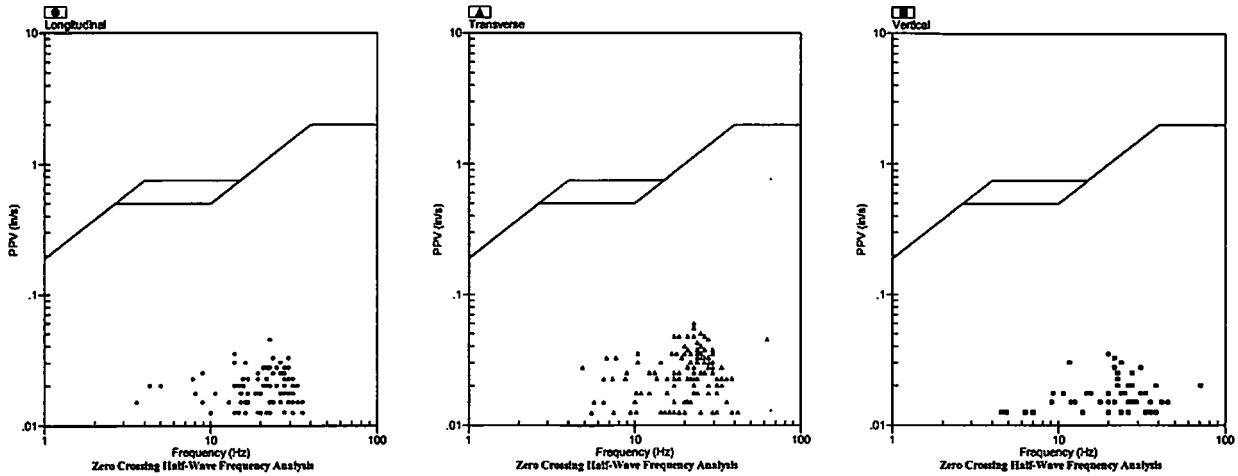
**Serial No:** 5148 v3.67  
**Date:** 04/25/2023 10:30:44  
**Event No:** 2  
**Record Time:** 5.0 s  
**Client:** City of Miramar  
**Operation:** White Rock Quarries  
**Location:** 5276 SW 152 Ave  
**Distance:**  
**Operator:**  
**Comment:**  
**Seismic Trigger:** 0.050 in/s

	L	T	V
<b>PPV (in/s)</b>	0.045	0.060	0.035
<b>FREQ (Hz)</b>	22.7	22.7	20.0
<b>PD (.001")</b>	0.64	0.72	0.35
<b>PPA (g)</b>	0.020	0.033	0.020
<b>Peak Vector Sum:</b>		0.065 in/s	
<b>Peak Air Pressure:</b>		85 db	
		0.00011 PSI @ 3.6 Hz	

**Additional Info:**

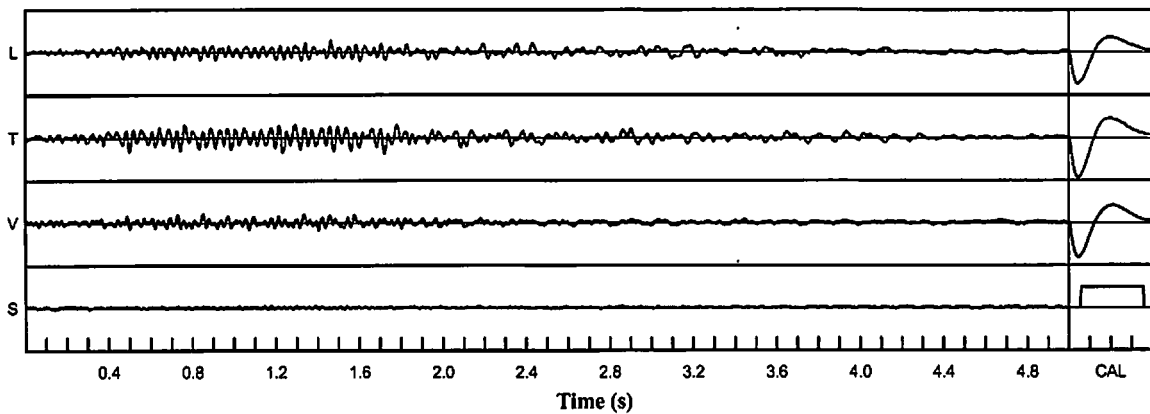
**Shaketable Calibrated:** 06/30/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

### USBM Safe Blasting Levels



### Velocity Waveform

SN: 5148 Event: 2



**Velocity Waveform Graph Scale**  
**Time Scale:** 0.100 s  
**Seismic Scale:** +/- 0.160 in/s  
**Sound Scale:** +/- 0.0023 PSI

# Seismic Analysis

## USBM/Velocity Waveform Report

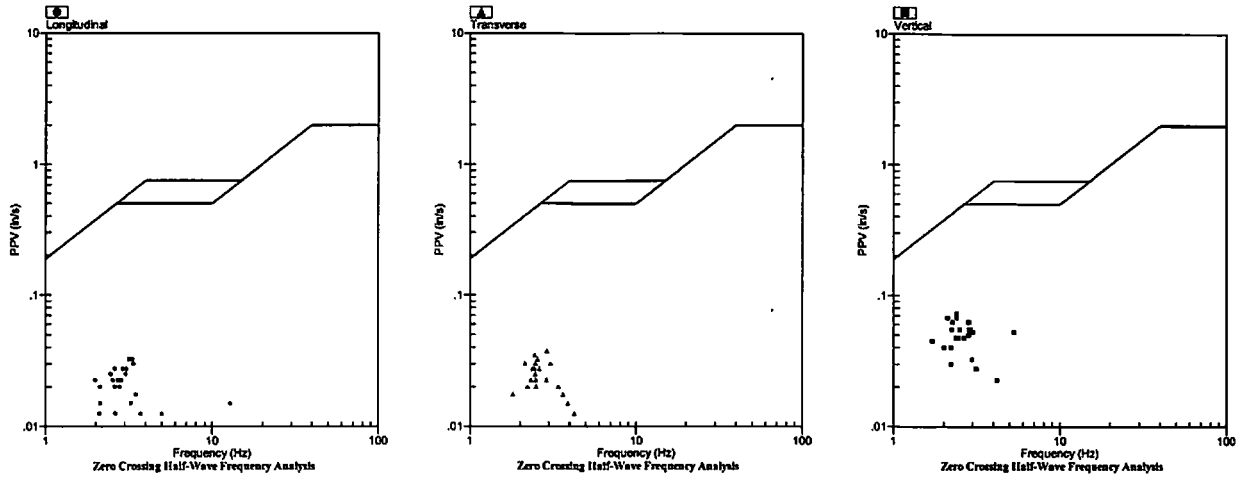
**Serial No:** 5148 v3.67  
**Date:** 04/26/2023 12:00:58  
**Event No:** 3  
**Record Time:** 5.0 s  
**Client:** City of Miramar  
**Operation:** White Rock Quarries  
**Location:** 5276 SW 152 Ave  
**Distance:**  
**Operator:**  
**Comment:**  
**Seismic Trigger:** 0.050 in/s

	Summary Data		
	L	T	V
<b>PPV (in/s)</b>	0.033	0.038	0.073
<b>FREQ (Hz)</b>	3.2	2.9	2.4
<b>PD (.001")</b>	2.00	2.00	5.84
<b>PPA (g)</b>	0.013	0.013	0.013
<b>Peak Vector Sum:</b>	0.075 in/s		
<b>Peak Air Pressure:</b>	90 db		
	0.00021 PSI @ 1.5 Hz		

**Additional Info:**

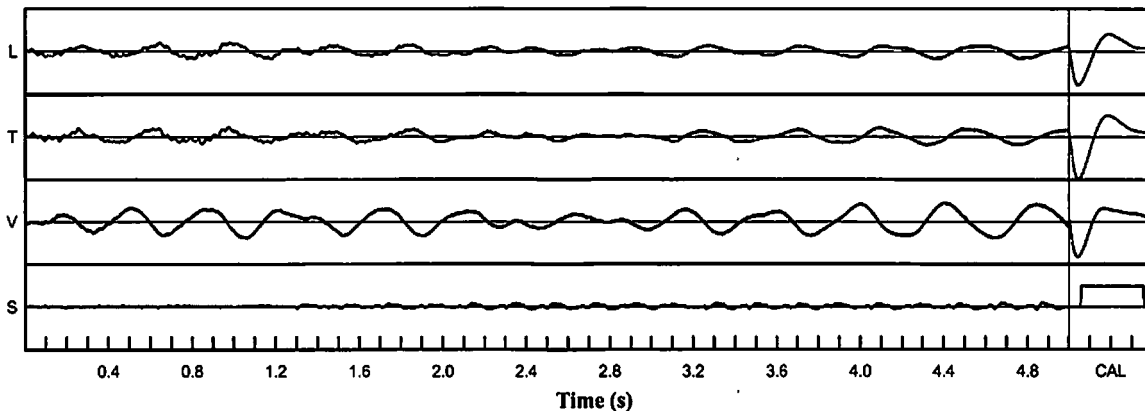
**Shaketable Calibrated:** 06/30/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

### USBM Safe Blasting Levels



### Velocity Waveform

SN: 5148 Event: 3



**Velocity Waveform Graph Scale**  
**Time Scale:** 0.100 s  
**Seismic Scale:** +/- 0.160 in/s  
**Sound Scale:** +/- 0.0023 PSI

# Seismic Analysis

## USBM/Velocity Waveform Report

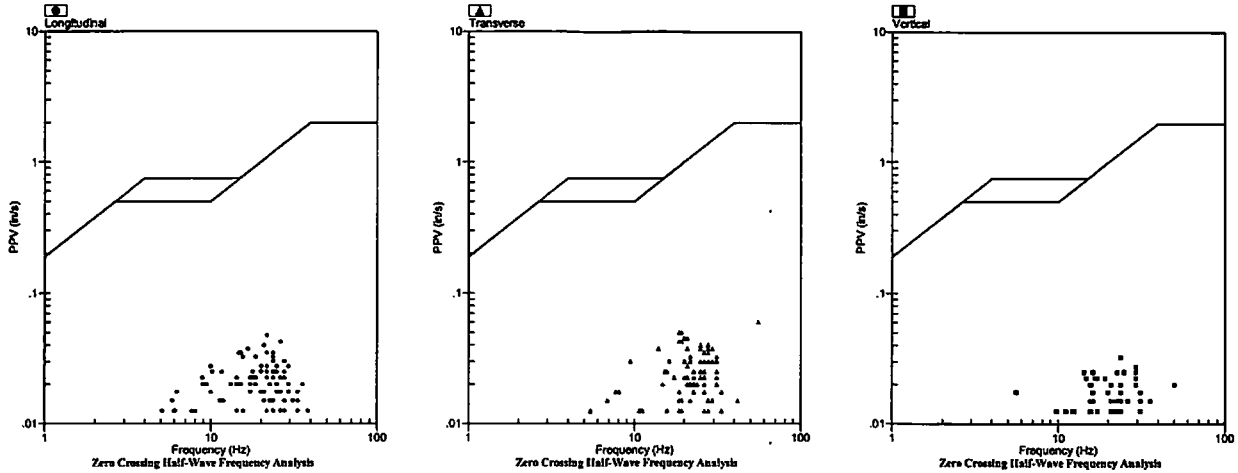
**Serial No:** 5148 v3.67  
**Date:** 04/28/2023 10:30:55  
**Event No:** 4  
**Record Time:** 5.0 s  
**Client:** City of Miramar  
**Operation:** White Rock Quarries  
**Location:** 5276 SW 152 Ave  
**Distance:**  
**Operator:**  
**Comment:**  
**Seismic Trigger:** 0.050 in/s

	L	T	V
<b>PPV (in/s)</b>	0.048	0.060	0.033
<b>FREQ (Hz)</b>	21.7	23.8	23.8
<b>PD (.001")</b>	0.55	0.70	0.56
<b>PPA (g)</b>	0.020	0.033	0.020
<b>Peak Vector Sum:</b>	0.070 in/s		
<b>Peak Air Pressure:</b>	85 db		
	0.00011 PSI @ 1.0 Hz		

**Additional Info:**

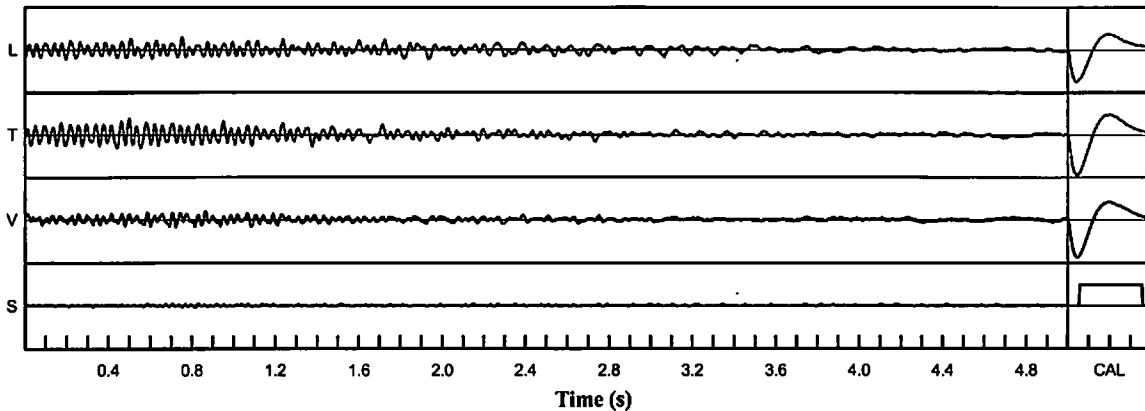
**Shaketable Calibrated:** 06/30/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

### USBM Safe Blasting Levels



### Velocity Waveform

SN: 5148 Event: 4



**Velocity Waveform Graph Scale**  
**Time Scale:** 0.100 s  
**Seismic Scale:** +/- 0.160 in/s  
**Sound Scale:** +/- 0.0023 PSI

# Seismic Analysis

## USBM/Velocity Waveform Report

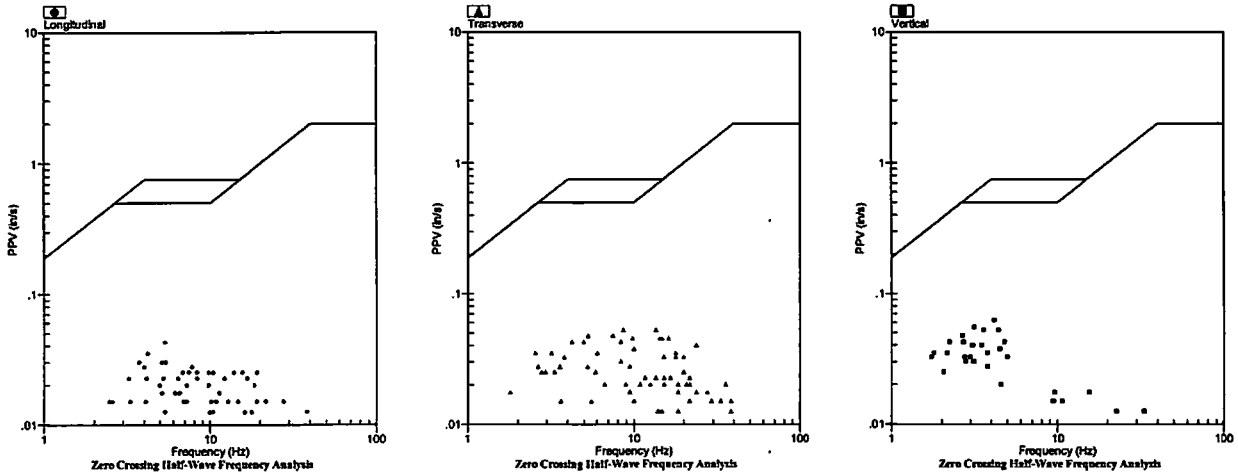
**Serial No:** 5148 v3.67  
**Date:** 05/01/2023 12:46:43  
**Event No:** 5  
**Record Time:** 5.0 s  
**Client:** City of Miramar  
**Operation:** White Rock Quarries  
**Location:** 5276 SW 152 Ave  
**Distance:**  
**Operator:**  
**Comment:**  
**Seismic Trigger:** 0.050 in/s

	Summary Data		
	L	T	V
PPV (in/s)	0.043	0.053	0.063
FREQ (Hz)	5.4	4.2	4.2
PD (.001")	1.21	1.82	2.67
PPA (g)	0.013	0.020	0.020
Peak Vector Sum:	0.068 in/s		
Peak Air Pressure:	96 db		
	0.00036 PSI @ 41.7 Hz		

**Additional Info:**

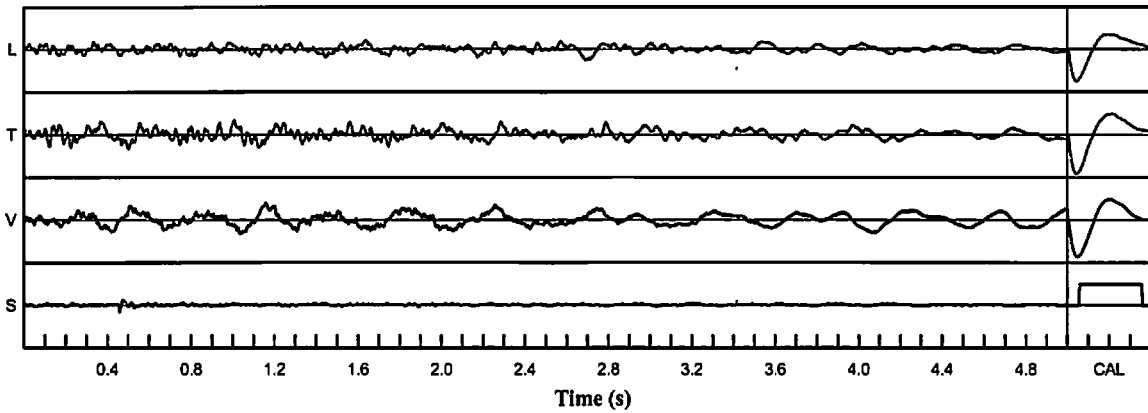
**Shaketable Calibrated:** 06/30/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
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### USBM Safe Blasting Levels



### Velocity Waveform

SN: 5148 Event: 5



**Velocity Waveform Graph Scale**  
**Time Scale:** 0.100 s  
**Seismic Scale:** +/- 0.160 in/s  
**Sound Scale:** +/- 0.0023 PSI

# Seismic Analysis

## USBM/Velocity Waveform Report

**Serial No:** 5149 v3.67  
**Date:** 05/19/2023 12:17:58  
**Event No:** 28  
**Record Time:** 10.0 s  
**Client:** City Of Miramar  
**Operation:** White Rock  
**Location:** 5276 SW 152 Ave  
**Distance:**  
**Operator:**  
**Comment:**  
**Seismic Trigger:** 0.050 in/s

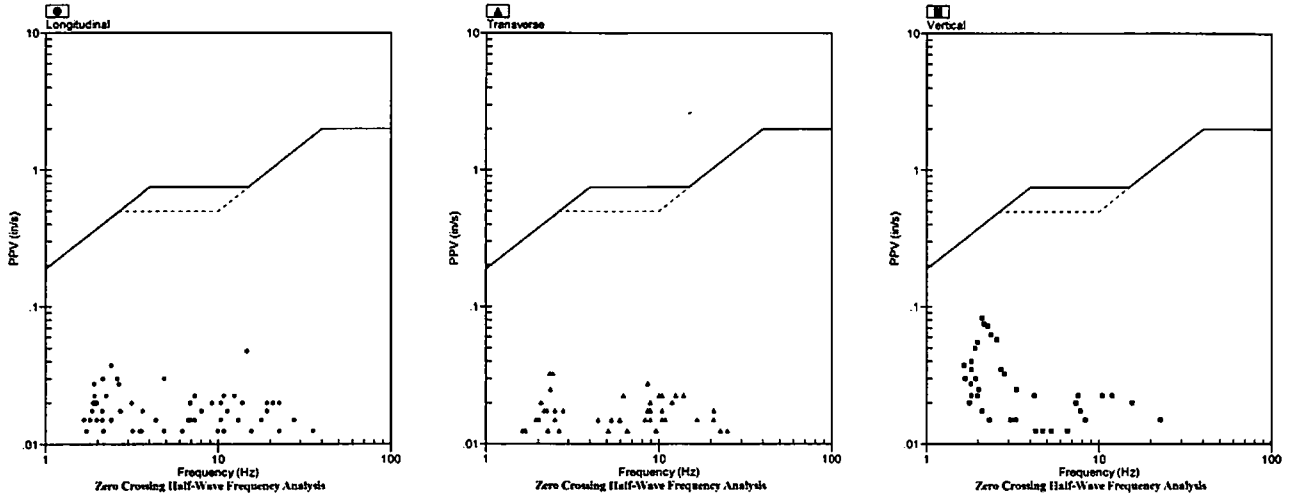
### Summary Data

	L	T	V
PPV (in/s)	0.055	0.033	0.083
FREQ (Hz)	9.3	2.4	2.1
PD (.001")	2.48	2.22	5.72
PPA (g)	0.013	0.013	0.013
Peak Vector Sum:	0.085 in/s		
Peak Air Pressure:	110 db		
	0.00089 PSI @ 1.0 Hz		

### Additional Info:

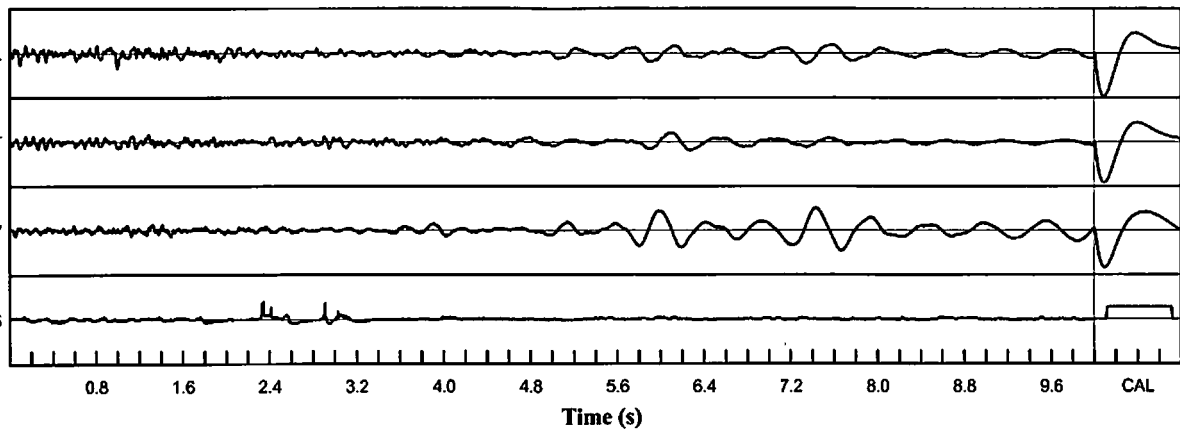
**Shaketable Calibrated:** 03/12/2021  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

### USBM Safe Blasting Levels



### Velocity Waveform

SN: 5149 Event: 28



### Velocity Waveform Graph Scale

**Time Scale:** 0.200 s  
**Seismic Scale:** +/- 0.160 in/s  
**Sound Scale:** +/- 0.0023 PSI

# Seismic Analysis

## USBM/Velocity Waveform Report

**Serial No:** 5149 v3.67  
**Date:** 05/23/2023 10:15:35  
**Event No:** 29  
**Record Time:** 10.0 s  
**Client:** City Of Miramar  
**Operation:** White Rock  
**Location:** 5276 SW 152 Ave  
**Distance:**  
**Operator:**  
**Comment:**  
**Seismic Trigger:** 0.050 in/s

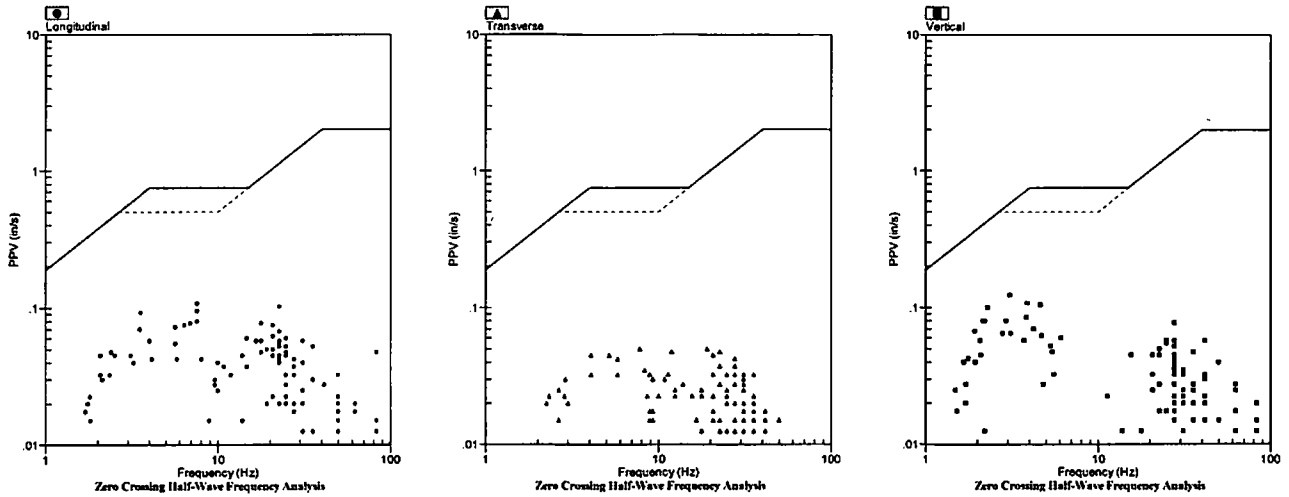
### Summary Data

	L	T	V
PPV (in/s)	0.108	0.050	0.123
FREQ (Hz)	7.6	19.2	3.1
PD (.001")	3.41	1.58	6.29
PPA (g)	0.039	0.026	0.052
Peak Vector Sum:	0.148 in/s		
Peak Air Pressure:	82 db		
	0.00009 PSI @ 250.0 Hz		

### Additional Info:

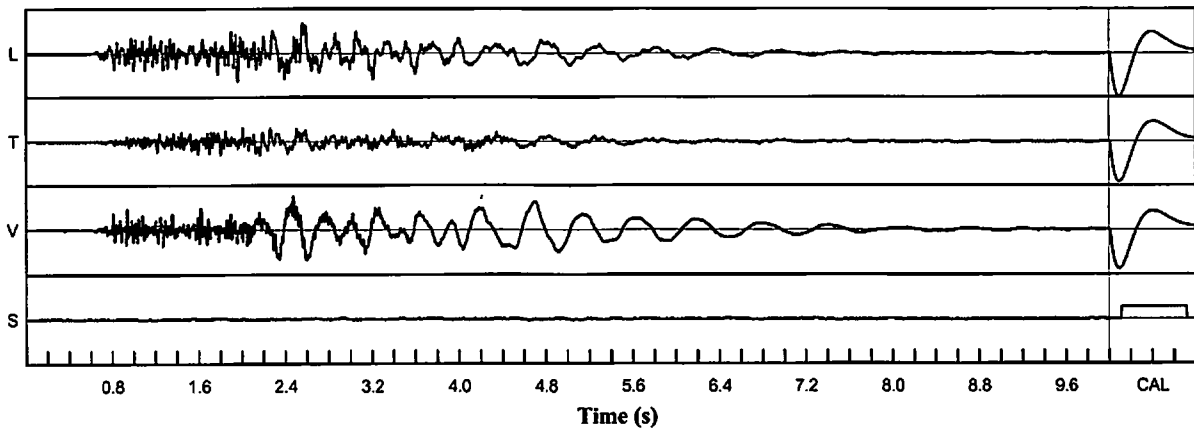
**Shaketable Calibrated:** 03/12/2021  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

### USBM Safe Blasting Levels



### Velocity Waveform

SN: 5149 Event: 29



### Velocity Waveform Graph Scale

**Time Scale:** 0.200 s  
**Seismic Scale:** +/- 0.160 in/s  
**Sound Scale:** +/- 0.0023 PSI

# Seismic Analysis

## USBM/Velocity Waveform Report

**Serial No:** 5149 v3.67  
**Date:** 05/24/2023 10:34:13  
**Event No:** 30  
**Record Time:** 10.0 s  
**Client:** City Of Miramar  
**Operation:** White Rock  
**Location:** 5276 SW 152 Ave  
**Distance:**  
**Operator:**  
**Comment:**  
**Seismic Trigger:** 0.050 in/s

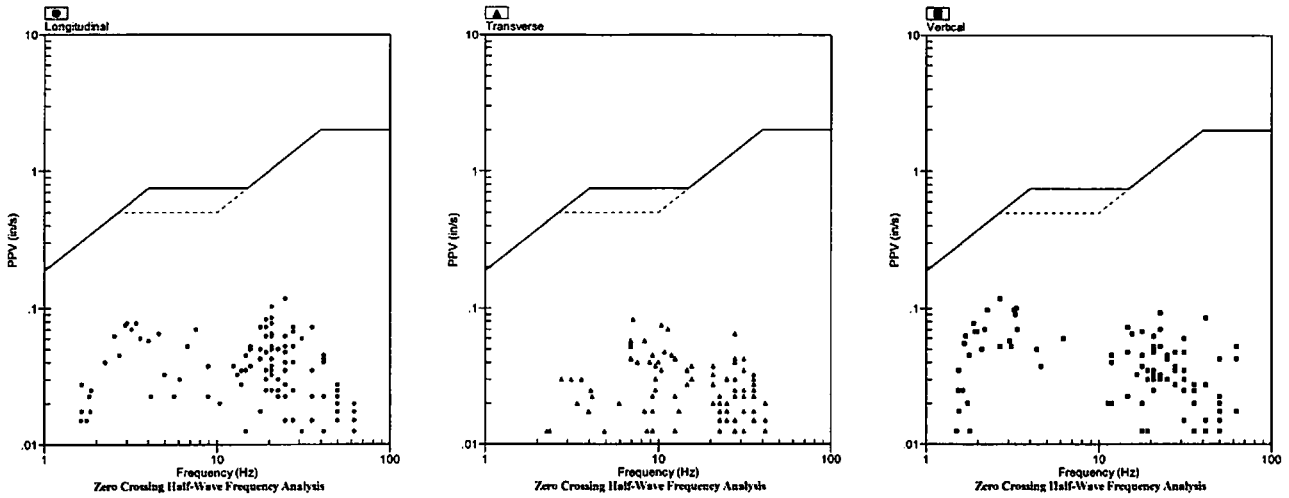
### Summary Data

	L	T	V
<b>PPV (in/s)</b>	0.118	0.083	0.118
<b>FREQ (Hz)</b>	25.0	7.1	2.7
<b>PD (.001")</b>	3.38	1.72	6.75
<b>PPA (g)</b>	0.046	0.033	0.059
<b>Peak Vector Sum:</b>	0.125 in/s		
<b>Peak Air Pressure:</b>	94 db		
	0.00021 PSI @ 17.9 Hz		

### Additional Info:

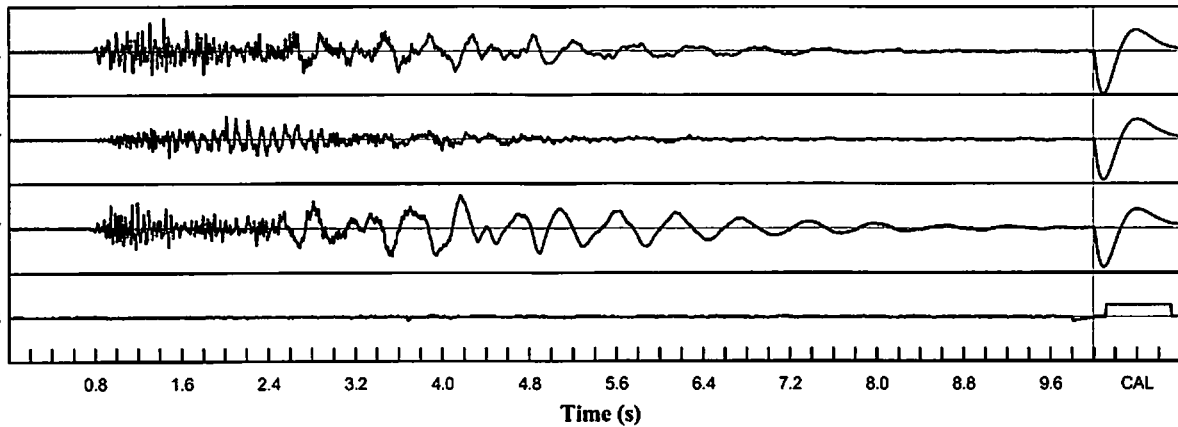
**Shaketable Calibrated:** 03/12/2021  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

### USBM Safe Blasting Levels



### Velocity Waveform

SN: 5149 Event: 30



### Velocity Waveform Graph Scale

**Time Scale:** 0.200 s  
**Seismic Scale:** +/- 0.160 in/s  
**Sound Scale:** +/- 0.0023 PSI



# Seismic Analysis

## USBM/Velocity Waveform Report

**Serial No:** 5149 v3.67  
**Date:** 05/25/2023 10:31:17  
**Event No:** 31  
**Record Time:** 10.0 s  
**Client:** City Of Miramar  
**Operation:** White Rock  
**Location:** 5276 SW 152 Ave  
**Distance:**  
**Operator:**  
**Comment:**  
**Seismic Trigger:** 0.050 in/s

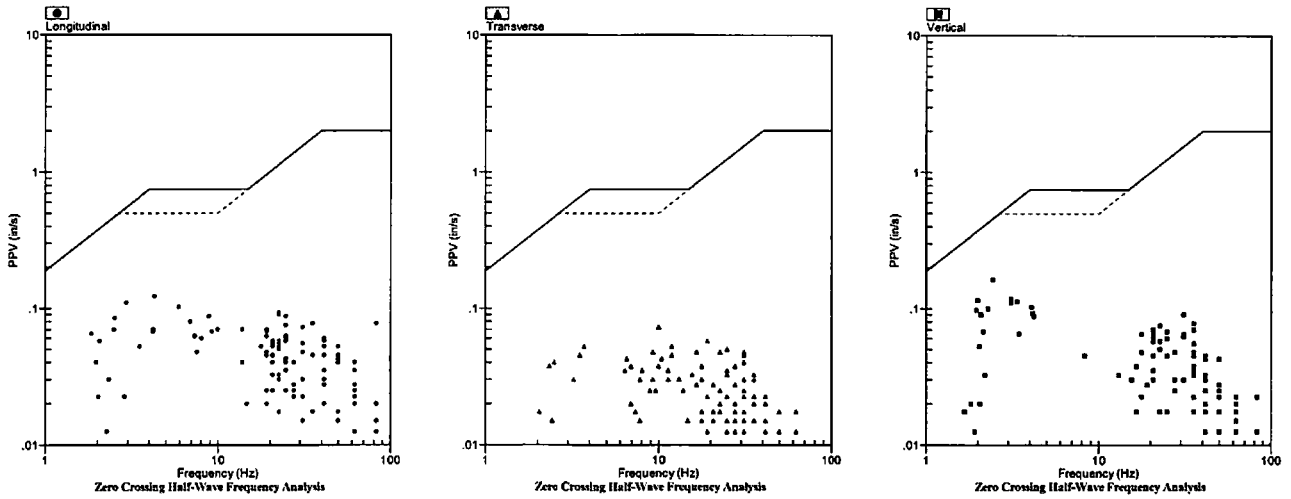
### Summary Data

	L	T	V
<b>PPV (in/s)</b>	0.123	0.073	0.163
<b>FREQ (Hz)</b>	4.3	10.0	2.5
<b>PD (.001")</b>	4.43	2.35	9.87
<b>PPA (g)</b>	0.059	0.026	0.052
<b>Peak Vector Sum:</b>	0.168 in/s		
<b>Peak Air Pressure:</b>	79 db		
	0.00005 PSI @ 1.0 Hz		

### Additional Info:

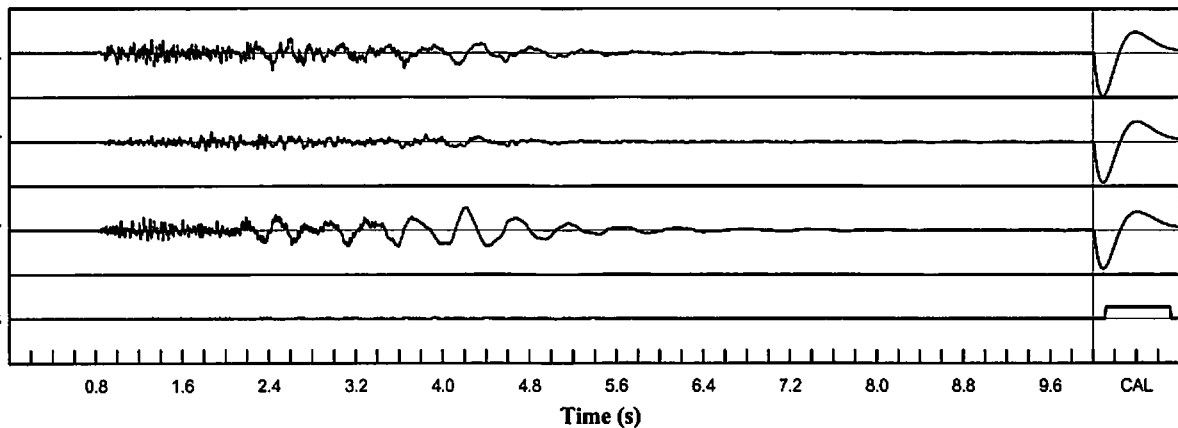
**Shaketable Calibrated:** 03/12/2021  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

### USBM Safe Blasting Levels



### Velocity Waveform

SN: 5149 Event: 31



### Velocity Waveform Graph Scale

**Time Scale:** 0.200 s  
**Seismic Scale:** +/- 0.320 in/s  
**Sound Scale:** +/- 0.0023 PSI

# Seismic Analysis

## USBM/Velocity Waveform Report

**Serial No:** 5149 v3.67  
**Date:** 05/26/2023 10:34:21  
**Event No:** 32  
**Record Time:** 10.0 s  
**Client:** City Of Miramar  
**Operation:** White Rock  
**Location:** 5276 SW 152 Ave  
**Distance:**  
**Operator:**  
**Comment:**  
**Seismic Trigger:** 0.050 in/s

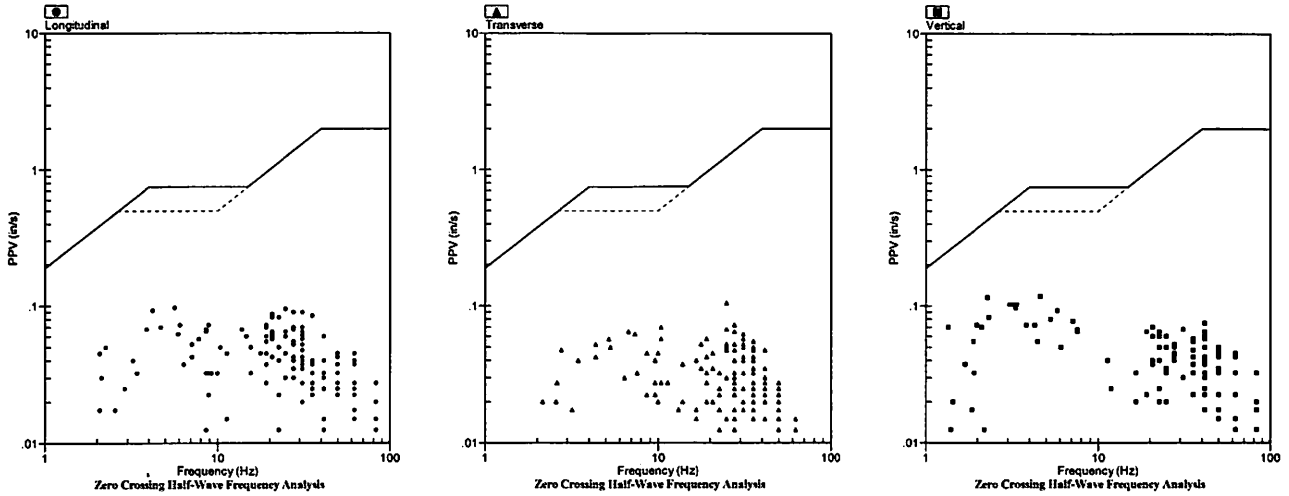
### Summary Data

	L	T	V
<b>PPV (in/s)</b>	0.098	0.105	0.118
<b>FREQ (Hz)</b>	5.7	25.0	4.6
<b>PD (.001")</b>	3.17	1.91	6.44
<b>PPA (g)</b>	0.059	0.039	0.052
<b>Peak Vector Sum:</b>	0.140 in/s		
<b>Peak Air Pressure:</b>	79 db		
	0.00005 PSI @ 1.0 Hz		

### Additional Info:

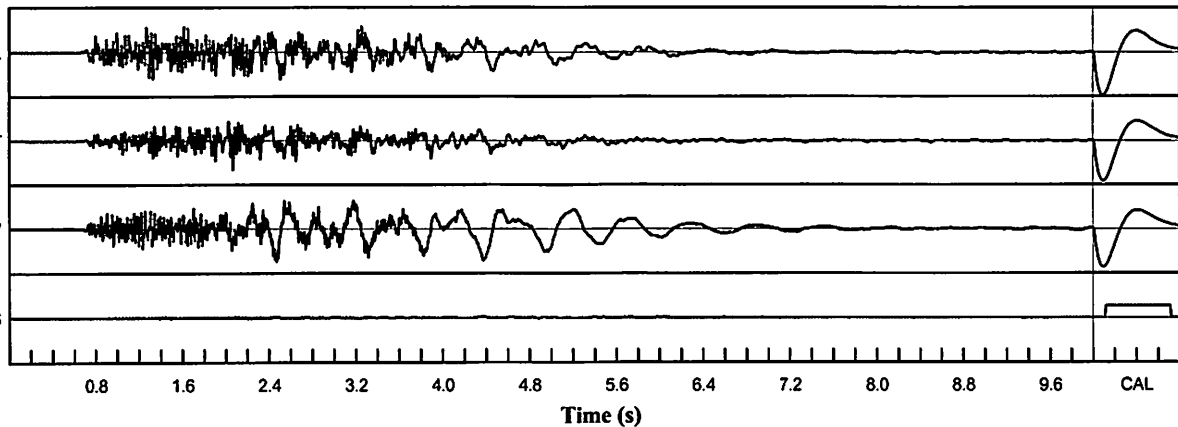
**Shaketable Calibrated:** 03/12/2021  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

### USBM Safe Blasting Levels



### Velocity Waveform

SN: 5149 Event: 32



### Velocity Waveform Graph Scale

**Time Scale:** 0.200 s  
**Seismic Scale:** +/- 0.160 in/s  
**Sound Scale:** +/- 0.0023 PSI

# Seismic Analysis

## USBM/Velocity Waveform Report

**Serial No:** 5149 v3.67  
**Date:** 05/30/2023 10:02:32  
**Event No:** 33  
**Record Time:** 10.0 s  
**Client:** City Of Miramar  
**Operation:** White Rock  
**Location:** 5276 SW 152 Ave  
**Distance:**  
**Operator:**  
**Comment:**  
**Seismic Trigger:** 0.050 in/s

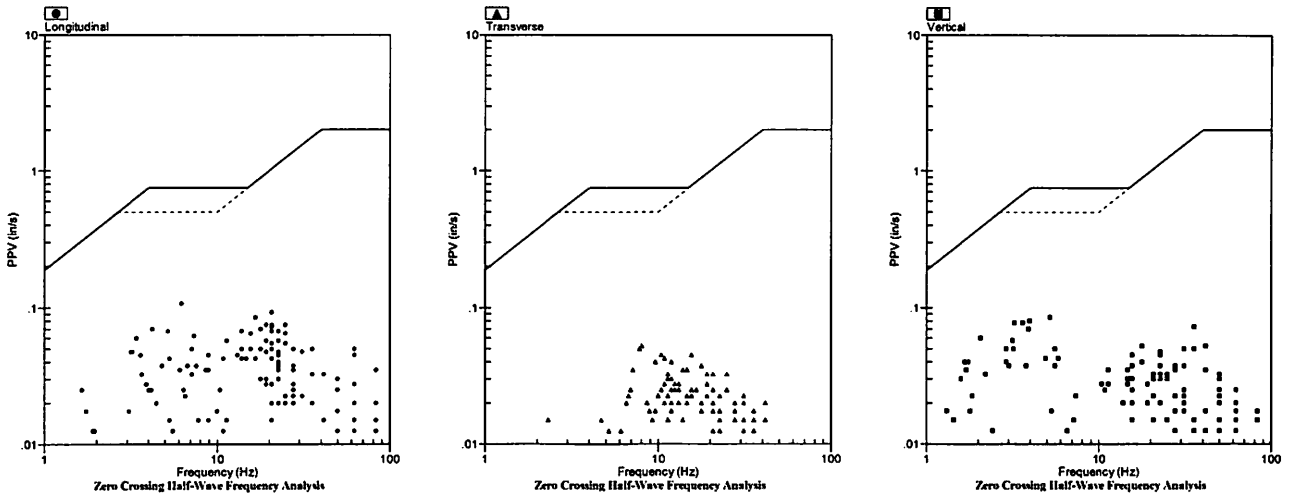
### Summary Data

	L	T	V
PPV (in/s)	0.108	0.053	0.085
FREQ (Hz)	6.3	8.1	5.2
PD (.001")	2.74	1.19	3.68
PPA (g)	0.052	0.020	0.046
Peak Vector Sum:	0.120 in/s		
Peak Air Pressure:	119 db		
	0.00280 PSI @ 2.8 Hz		

### Additional Info:

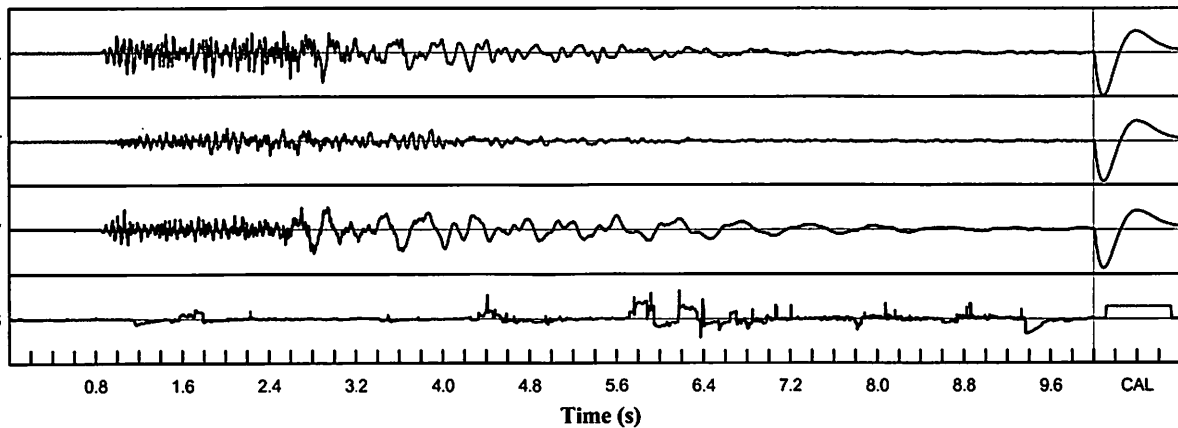
**Shaketable Calibrated:** 03/12/2021  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

### USBM Safe Blasting Levels



### Velocity Waveform

SN: 5149 Event: 33



### Velocity Waveform Graph Scale

**Time Scale:** 0.200 s  
**Seismic Scale:** +/- 0.160 in/s  
**Sound Scale:** +/- 0.0045 PSI

# Seismic Analysis

## USBM/Velocity Waveform Report

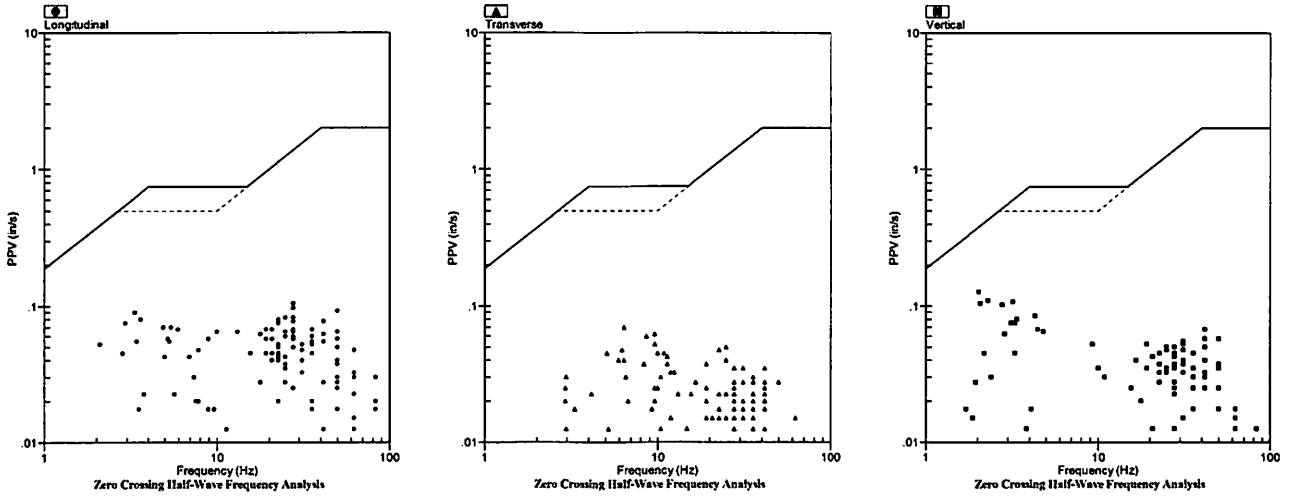
**Serial No:** 5149 v3.67  
**Date:** 06/01/2023 10:30:35  
**Event No:** 34  
**Record Time:** 10.0 s  
**Client:** City Of Miramar  
**Operation:** White Rock  
**Location:** 5276 SW 152 Ave  
**Distance:**  
**Operator:**  
**Comment:**  
**Seismic Trigger:** 0.050 in/s

Summary Data			
	L	T	V
PPV (in/s)	0.105	0.070	0.128
FREQ (Hz)	27.8	6.4	2.0
PD (.001")	3.82	1.72	7.96
PPA (g)	0.059	0.033	0.052
Peak Vector Sum:	0.133 in/s		
Peak Air Pressure:	106 db		
	0.00068 PSI @ 7.4 Hz		

**Additional Info:**

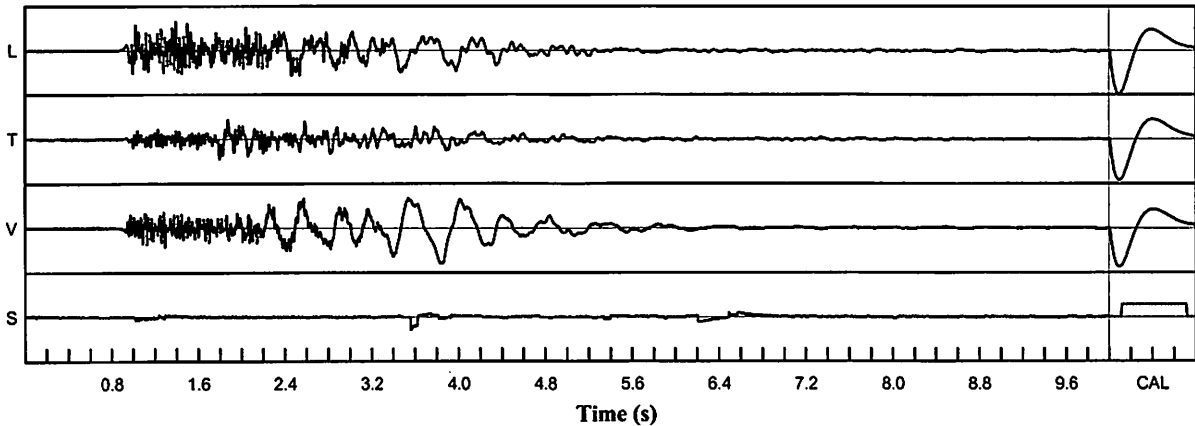
**Shaketable Calibrated:** 03/12/2021  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

### USBM Safe Blasting Levels



### Velocity Waveform

SN: 5149 Event: 34



**Velocity Waveform Graph Scale**  
**Time Scale:** 0.200 s  
**Seismic Scale:** +/- 0.160 in/s  
**Sound Scale:** +/- 0.0023 PSI

# Seismic Analysis

## USBM/Velocity Waveform Report

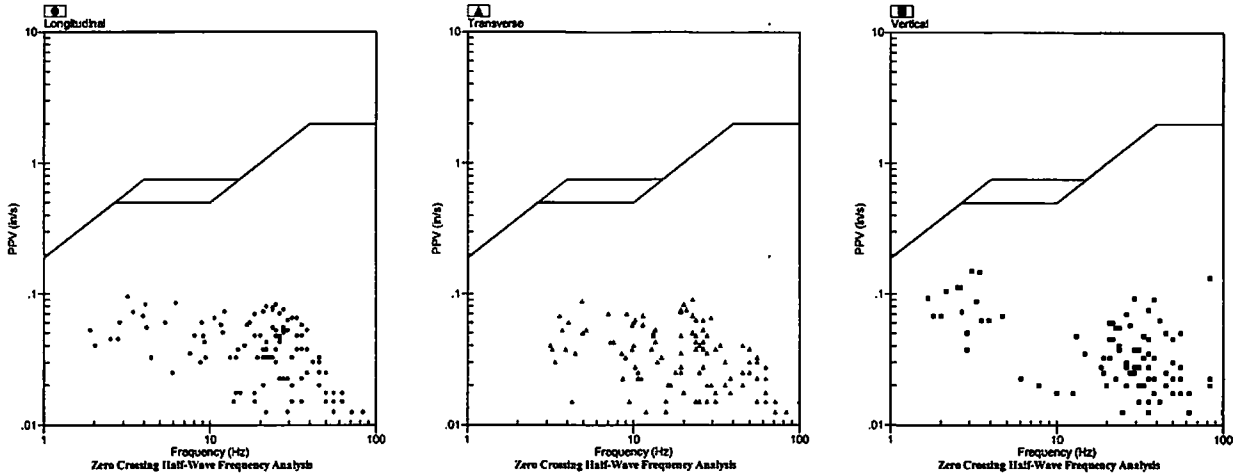
**Serial No:** 5148 v3.67  
**Date:** 06/02/2023 11:32:44  
**Event No:** 6  
**Record Time:** 5.0 s  
**Client:** City of Miramar  
**Operation:** White Rock Quarries  
**Location:** 5276 SW 152 Ave  
**Distance:**  
**Operator:**  
**Comment:**  
**Seismic Trigger:** 0.050 in/s

	L	T	V
<b>PPV (in/s)</b>	0.095	0.090	0.150
<b>FREQ (Hz)</b>	3.2	22.7	3.1
<b>PD (.001")</b>	4.04	2.59	8.35
<b>PPA (g)</b>	0.052	0.052	0.091
<b>Peak Vector Sum:</b>	0.155 in/s		
<b>Peak Air Pressure:</b>	91 db		
	0.00025 PSI @ 50.0 Hz		

**Additional Info:**

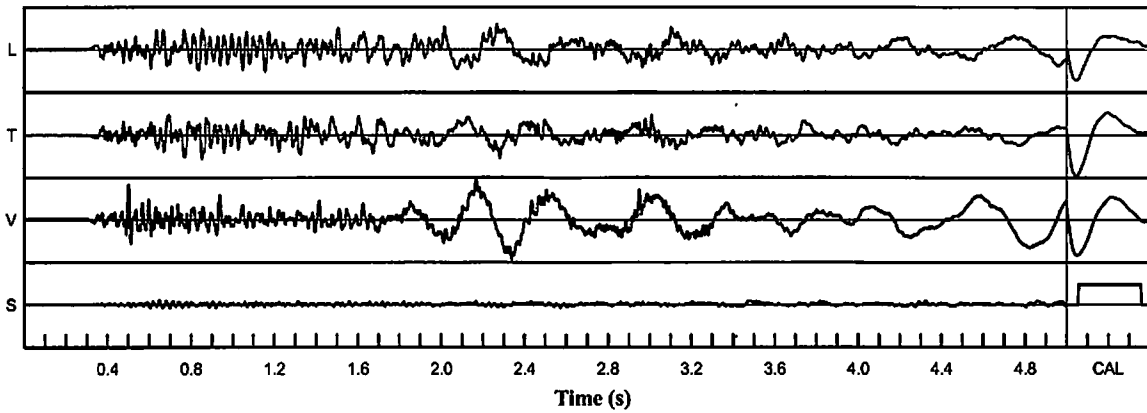
**Shaketable Calibrated:** 06/30/2020  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

### USBM Safe Blasting Levels



### Velocity Waveform

SN: 5148 Event: 6



**Velocity Waveform Graph Scale**  
**Time Scale:** 0.100 s  
**Seismic Scale:** +/- 0.160 in/s  
**Sound Scale:** +/- 0.0023 PSI

# Seismic Analysis

## USBM/Velocity Waveform Report

**Serial No:** 5764 v3.85  
**Date:** 07/19/2023 17:01:27  
**Event No:** 3  
**Record Time:** 10.0 s  
**Client:** City of Miramar  
**Operation:** White Rock Quarries  
**Location:** 5276 SW 152 Ave  
**Distance:**  
**Operator:** Roy  
**Comment:**  
**Seismic Trigger:** 0.050 in/s

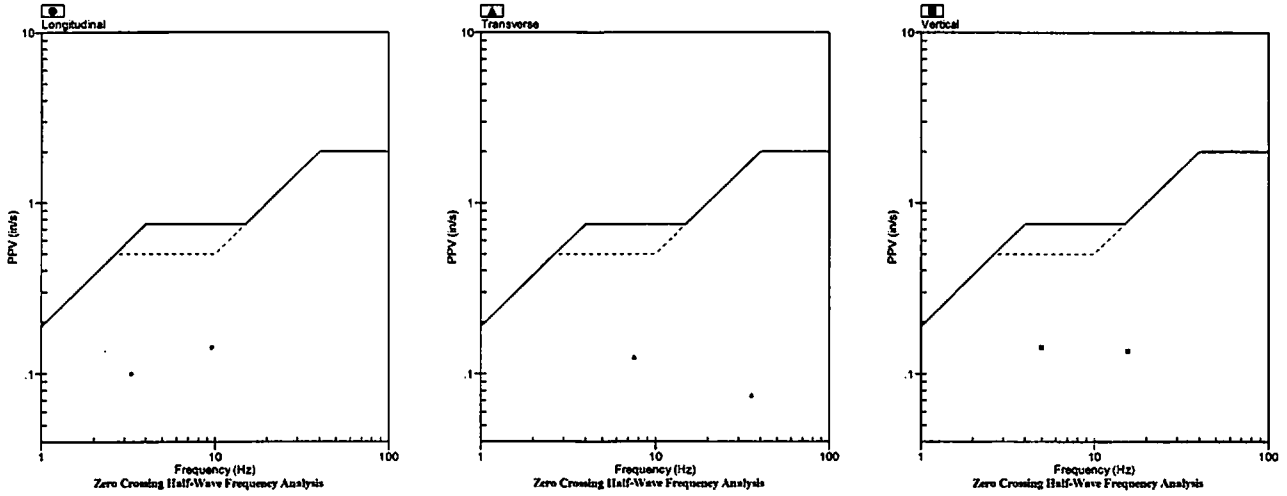
### Summary Data

	L	T	V
<b>PPV (in/s)</b>	0.143	0.125	0.143
<b>FREQ (Hz)</b>	9.6	7.6	5.0
<b>PD (.001")</b>	3.22	2.09	2.84
<b>PPA (g)</b>	0.065	0.065	0.059
<b>Peak Vector Sum:</b>	0.175 in/s		
<b>Peak Air Pressure:</b>	107 db		
	0.00071 PSI @ 83.3 Hz		

### Additional Info:

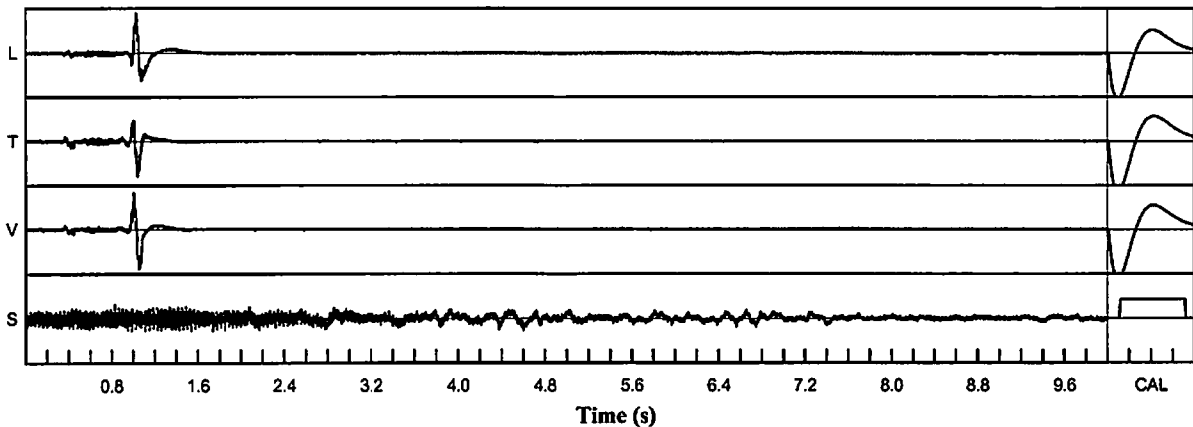
**Shaketable Calibrated:** 06/17/2022  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

### USBM Safe Blasting Levels



### Velocity Waveform

SN: 5764 Event: 3



### Velocity Waveform Graph Scale

**Time Scale:** 0.200 s  
**Seismic Scale:** +/- 0.160 in/s  
**Sound Scale:** +/- 0.0023 PSI

# Seismic Analysis

## USBM/Velocity Waveform Report

**Serial No:** 5764 v3.85  
**Date:** 07/19/2023 17:11:40  
**Event No:** 4  
**Record Time:** 10.0 s  
**Client:** City of Miramar  
**Operation:** White Rock Quarries  
**Location:** 5276 SW 152 Ave  
**Distance:**  
**Operator:** Roy  
**Comment:**  
**Seismic Trigger:** 0.050 in/s

### Summary Data

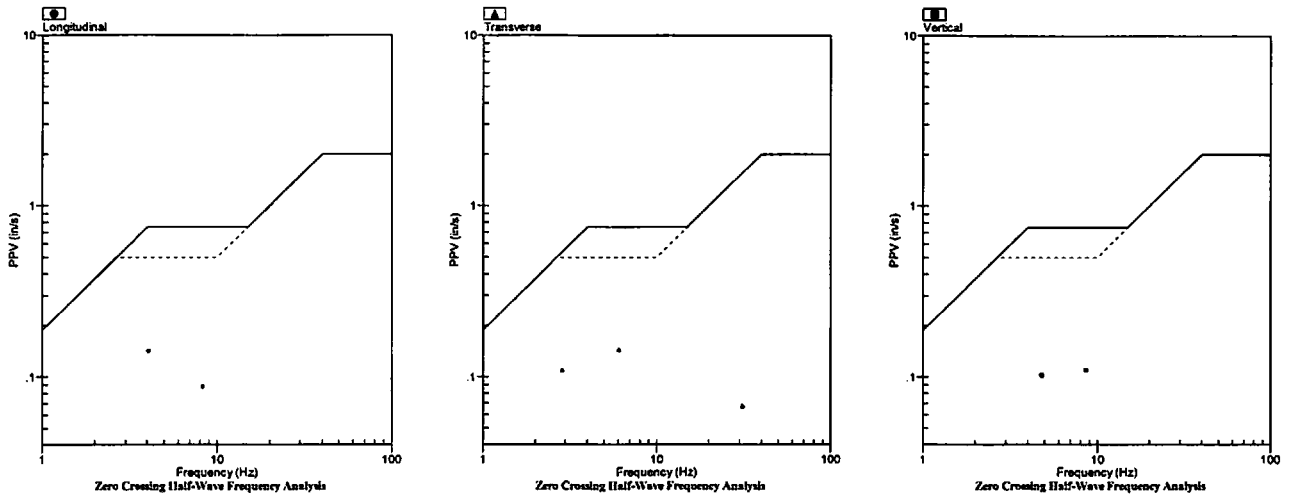
	L	T	V
PPV (in/s)	0.143	0.145	0.110
FREQ (Hz)	4.1	6.1	3.8
PD (.001")	3.91	3.31	3.14
PPA (g)	0.033	0.046	0.059
Peak Vector Sum:	0.205 in/s		
Peak Air Pressure:	112 db		
	0.00128 PSI @ 125.0 Hz		

**Shaketable Calibrated:** 06/17/2022

### Additional Info:

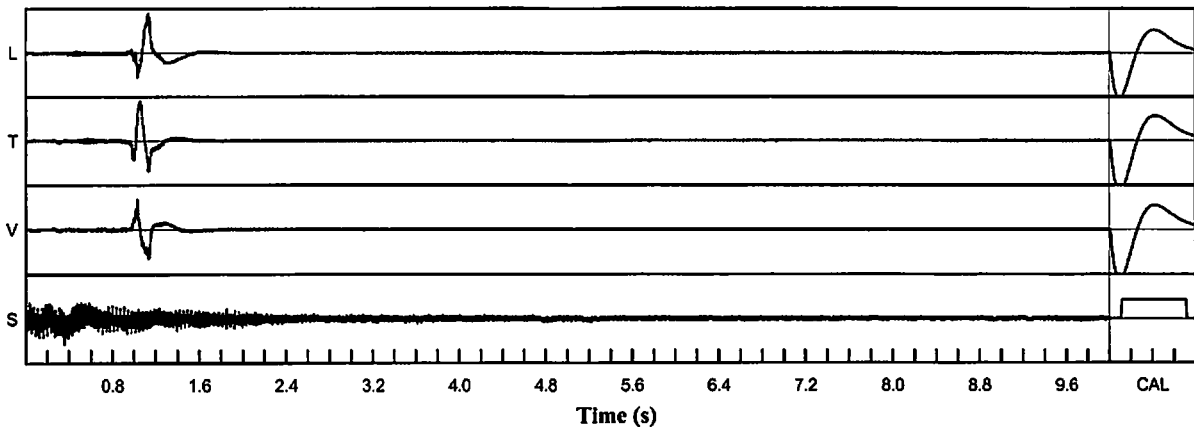
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

### USBM Safe Blasting Levels



### Velocity Waveform

SN: 5764 Event: 4



**Velocity Waveform Graph Scale**  
**Time Scale:** 0.200 s  
**Seismic Scale:** +/- 0.160 in/s  
**Sound Scale:** +/- 0.0023 PSI

# Seismic Analysis

## USBM/Velocity Waveform Report

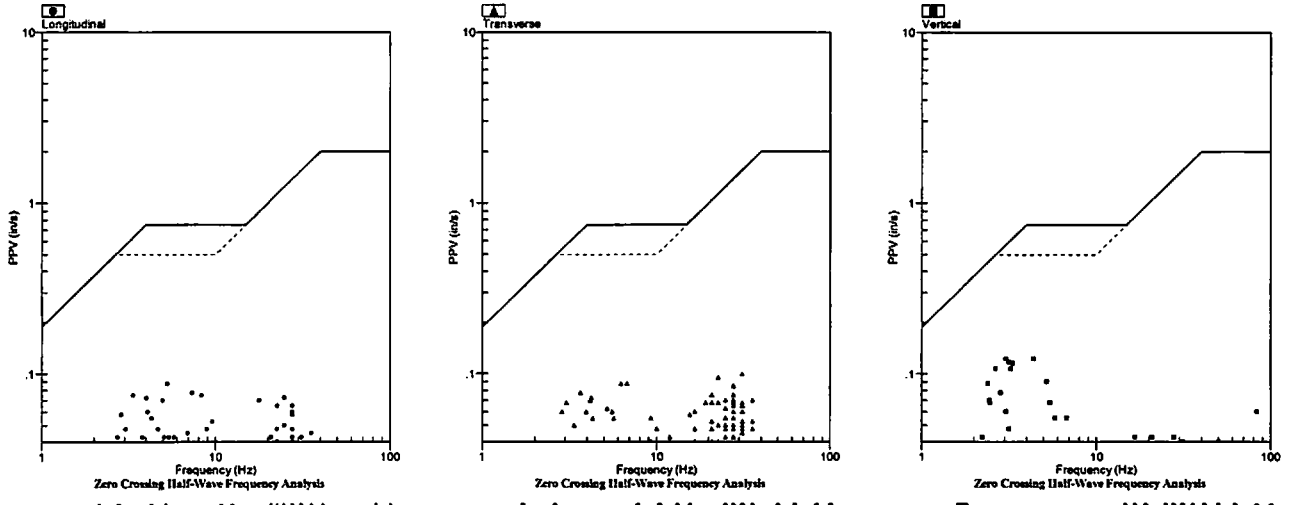
**Serial No:** 5764 v3.85  
**Date:** 07/20/2023 13:00:56  
**Event No:** 5  
**Record Time:** 10.0 s  
**Client:** City of Miramar  
**Operation:** White Rock Quarries  
**Location:** 5276 SW 152 Ave  
**Distance:**  
**Operator:** Roy  
**Comment:**  
**Seismic Trigger:** 0.050 in/s

Summary Data			
	L	T	V
PPV (in/s)	0.088	0.100	0.123
FREQ (Hz)	5.3	31.3	4.4
PD (.001")	3.18	3.44	6.03
PPA (g)	0.046	0.052	0.046
Peak Vector Sum:	0.133 in/s		
Peak Air Pressure:	106 db		
	0.00057 PSI @ 5.2 Hz		

**Additional Info:**

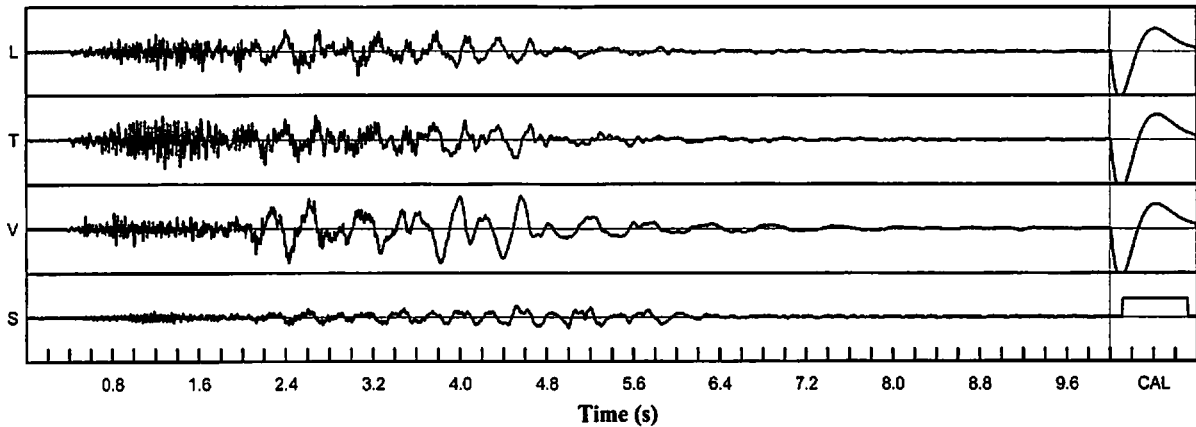
**Shaketable Calibrated:** 06/17/2022  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

### USBM Safe Blasting Levels



### Velocity Waveform

SN: 5764 Event: 5



**Velocity Waveform Graph Scale**

**Time Scale:** 0.200 s  
**Seismic Scale:** +/- 0.160 in/s  
**Sound Scale:** +/- 0.0023 PSI



# Seismic Analysis

## USBM/Velocity Waveform Report

**Serial No:** 5764 v3.85  
**Date:** 07/21/2023 10:00:54  
**Event No:** 6  
**Record Time:** 10.0 s  
**Client:** City of Miramar  
**Operation:** White Rock Quarries  
**Location:** 5276 SW 152 Ave  
**Distance:**  
**Operator:** Roy  
**Comment:**  
**Seismic Trigger:** 0.050 in/s

### Summary Data

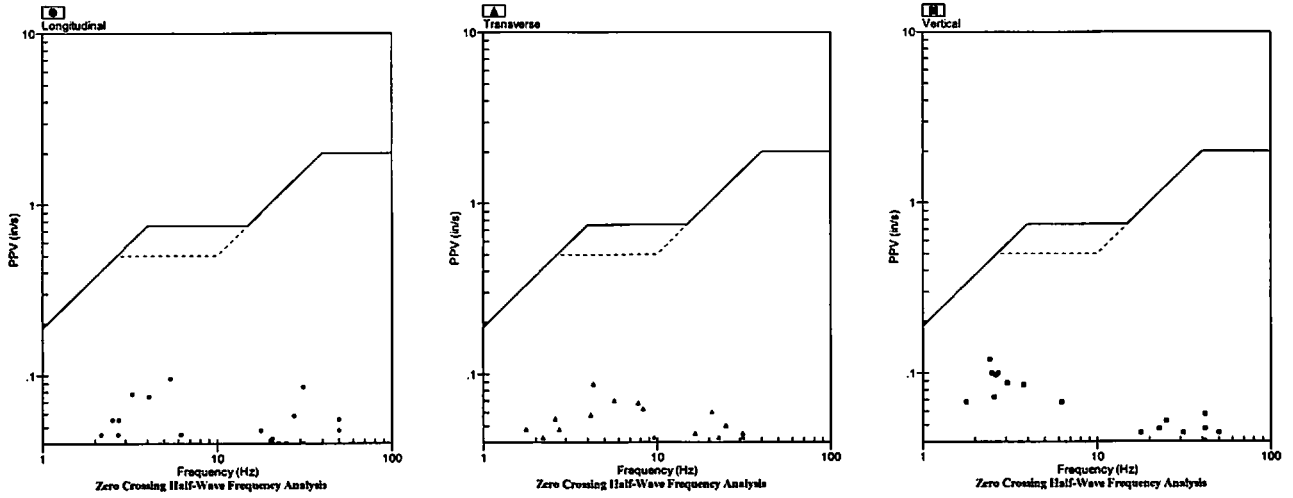
	L	T	V
PPV (in/s)	0.095	0.088	0.120
FREQ (Hz)	5.4	4.3	2.4
PD (.001")	3.17	2.85	7.01
PPA (g)	0.046	0.033	0.046
Peak Vector Sum:	0.138 in/s		
Peak Air Pressure:	108 db		
	0.00078 PSI @ 3.0 Hz		

**Shaketable Calibrated:** 06/17/2022

### Additional Info:

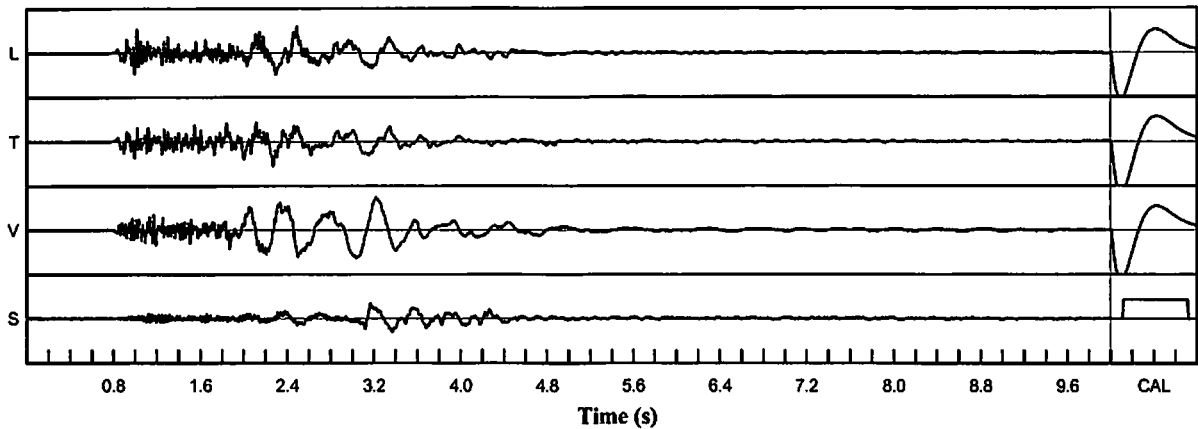
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

### USBM Safe Blasting Levels



### Velocity Waveform

SN: 5764 Event: 6



### Velocity Waveform Graph Scale

**Time Scale:** 0.200 s  
**Seismic Scale:** +/- 0.160 in/s  
**Sound Scale:** +/- 0.0023 PSI

# Seismic Analysis

## USBM/Velocity Waveform Report

**Serial No:** 5764 v3.85  
**Date:** 07/26/2023 13:19:56  
**Event No:** 7  
**Record Time:** 10.0 s  
**Client:** City of Miramar  
**Operation:** White Rock Quarries  
**Location:** 5276 SW 152 Ave  
**Distance:**  
**Operator:** Roy  
**Comment:**  
**Seismic Trigger:** 0.050 in/s

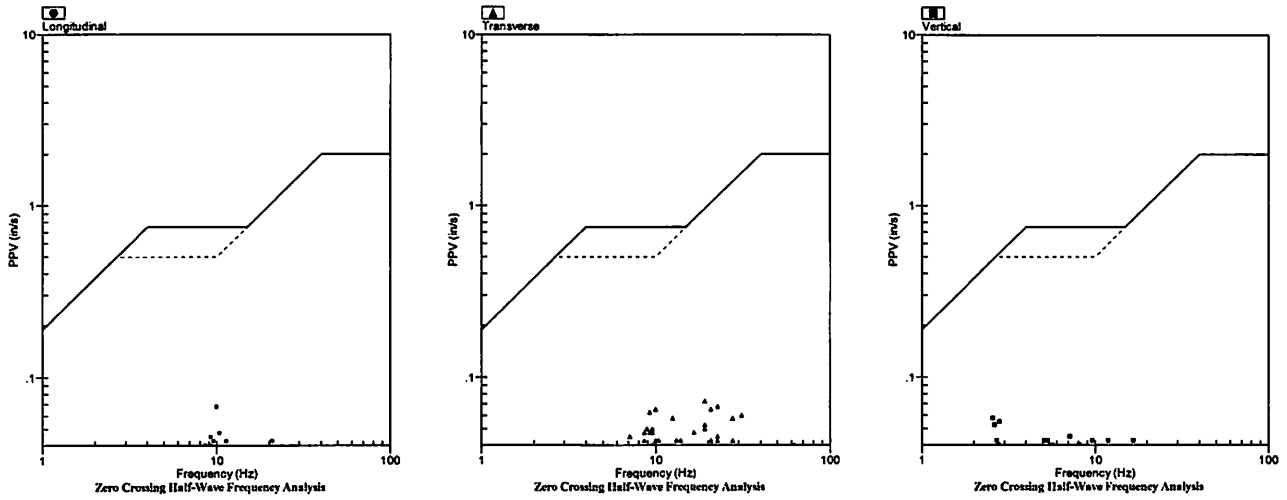
### Summary Data

	L	T	V
PPV (in/s)	0.068	0.073	0.058
FREQ (Hz)	10.0	19.2	2.6
PD (.001")	1.17	1.89	2.90
PPA (g)	0.026	0.033	0.033
Peak Vector Sum:	0.080 in/s		
Peak Air Pressure:	93 db		
	0.00028 PSI @ 11.4 Hz		

### Additional Info:

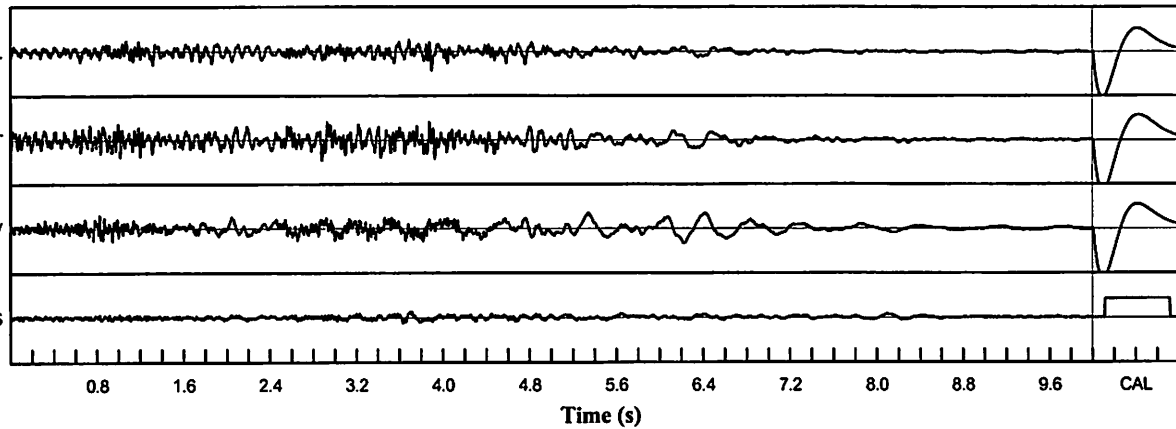
**Shaketable Calibrated:** 06/17/2022  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

### USBM Safe Blasting Levels



### Velocity Waveform

SN: 5764 Event: 7



### Velocity Waveform Graph Scale

**Time Scale:** 0.200 s  
**Seismic Scale:** +/- 0.160 in/s  
**Sound Scale:** +/- 0.0023 PSI

# Seismic Analysis

## USBM/Velocity Waveform Report

**Serial No:** 5764 v3.85  
**Date:** 07/26/2023 14:21:06  
**Event No:** 8  
**Record Time:** 10.0 s  
**Client:** City of Miramar  
**Operation:** White Rock Quarries  
**Location:** 5276 SW 152 Ave  
**Distance:**  
**Operator:** Roy  
**Comment:**  
**Seismic Trigger:** 0.050 in/s

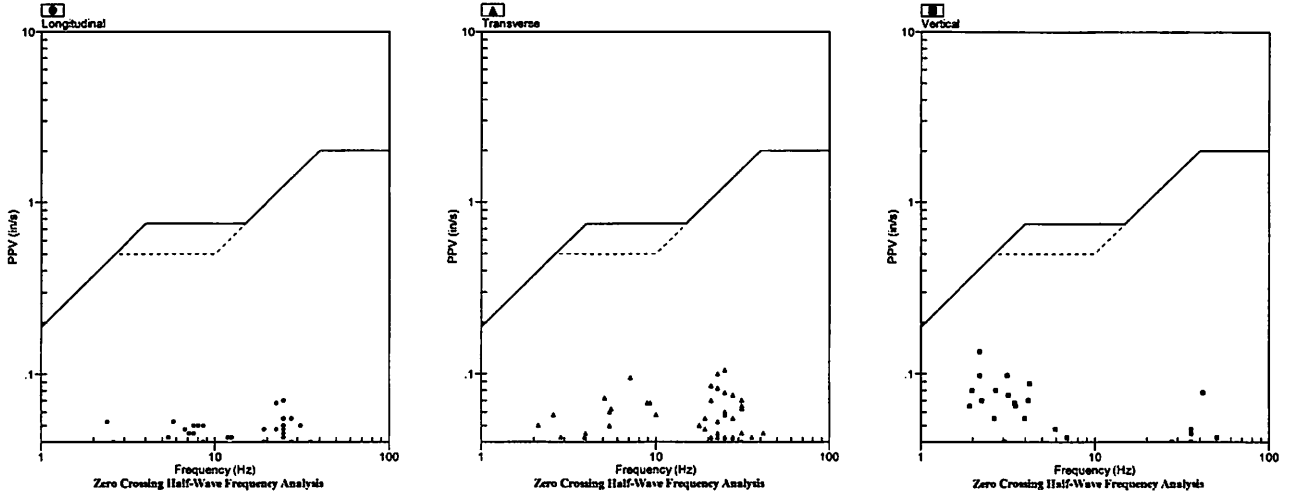
### Summary Data

	L	T	V
PPV (in/s)	0.070	0.105	0.135
FREQ (Hz)	25.0	25.0	2.2
PD (.001")	2.87	3.47	8.62
PPA (g)	0.033	0.052	0.059
Peak Vector Sum:	0.140 in/s		
Peak Air Pressure:	107 db		
	0.00075 PSI @ 4.7 Hz		

### Additional Info:

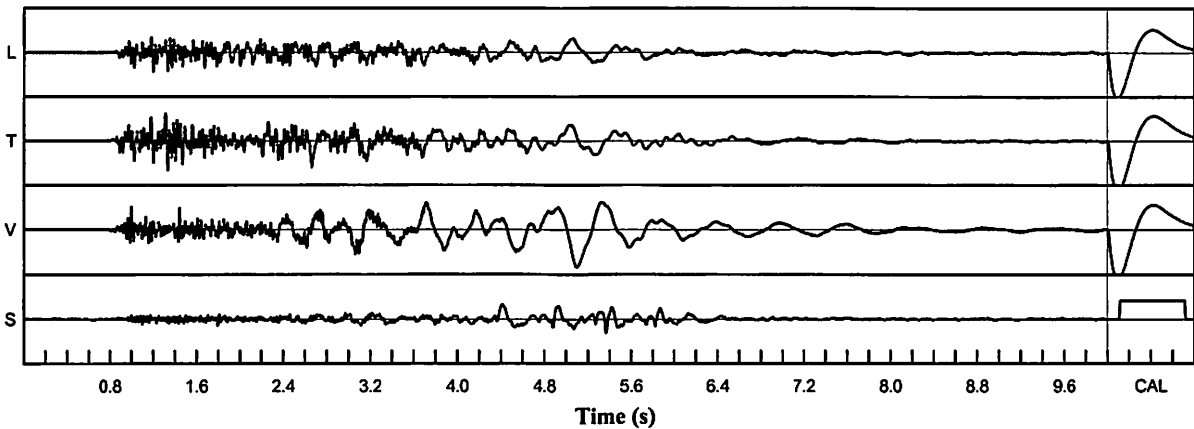
**Shaketable Calibrated:** 06/17/2022  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

### USBM Safe Blasting Levels



### Velocity Waveform

SN: 5764 Event: 8



### Velocity Waveform Graph Scale

**Time Scale:** 0.200 s  
**Seismic Scale:** +/- 0.160 in/s  
**Sound Scale:** +/- 0.0023 PSI

# Seismic Analysis

## USBM/Velocity Waveform Report

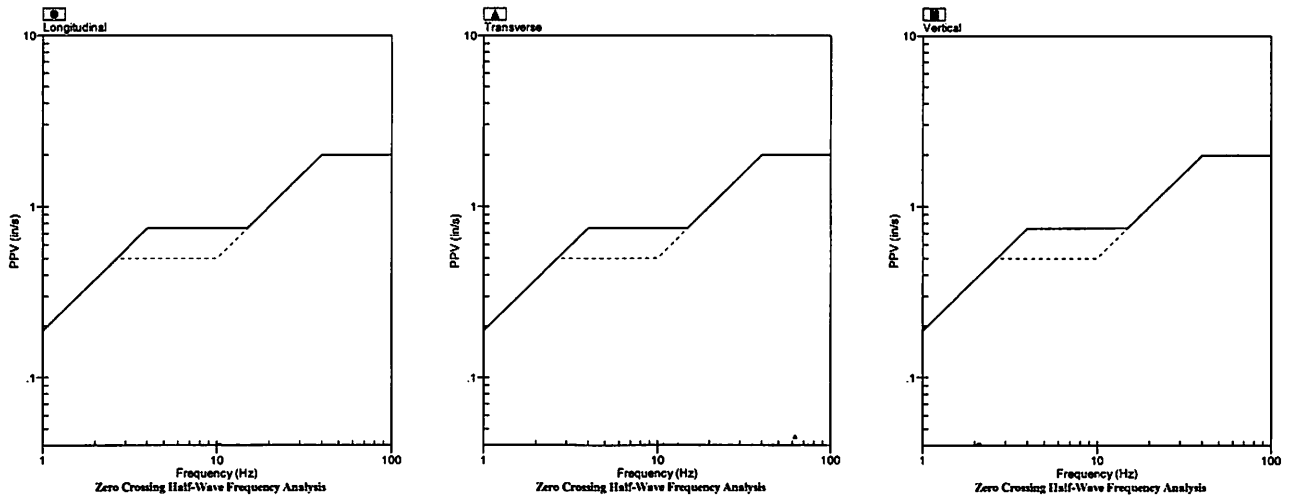
**Serial No:** 5764 v3.85  
**Date:** 07/27/2023 11:52:24  
**Event No:** 9  
**Record Time:** 10.0 s  
**Client:** City of Miramar  
**Operation:** White Rock Quarries  
**Location:** 5276 SW 152 Ave  
**Distance:**  
**Operator:** Roy  
**Comment:**  
**Seismic Trigger:** 0.050 in/s

Summary Data			
	L	T	V
PPV (in/s)	0.040	0.053	0.040
FREQ (Hz)	10.4	20.8	2.1
PD (.001")	0.86	1.25	2.30
PPA (g)	0.013	0.026	0.013
Peak Vector Sum:	0.055 in/s		
Peak Air Pressure:	90 db		
	0.00021 PSI @ 10.0 Hz		

**Additional Info:**

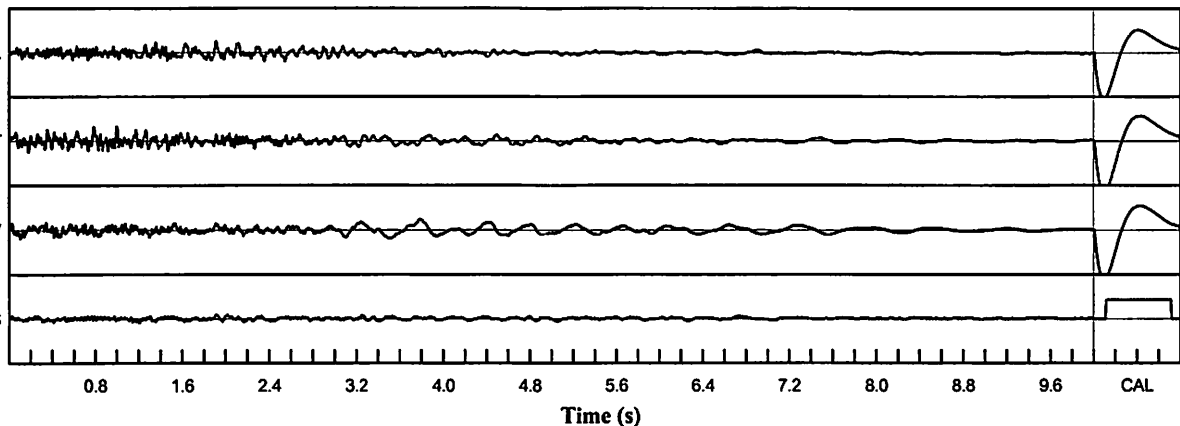
**Shaketable Calibrated:** 06/17/2022  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

### USBM Safe Blasting Levels



### Velocity Waveform

SN: 5764 Event: 9



**Velocity Waveform Graph Scale**  
**Time Scale:** 0.200 s  
**Seismic Scale:** +/- 0.160 in/s  
**Sound Scale:** +/- 0.0023 PSI

# Seismic Analysis

## USBM/Velocity Waveform Report

**Serial No:** 5764 v3.85  
**Date:** 08/01/2023 12:31:31  
**Event No:** 10  
**Record Time:** 10.0 s  
**Client:** City of Miramar  
**Operation:** White Rock Quarries  
**Location:** 5276 SW 152 Ave  
**Distance:**  
**Operator:** Roy  
**Comment:**  
**Seismic Trigger:** 0.050 in/s

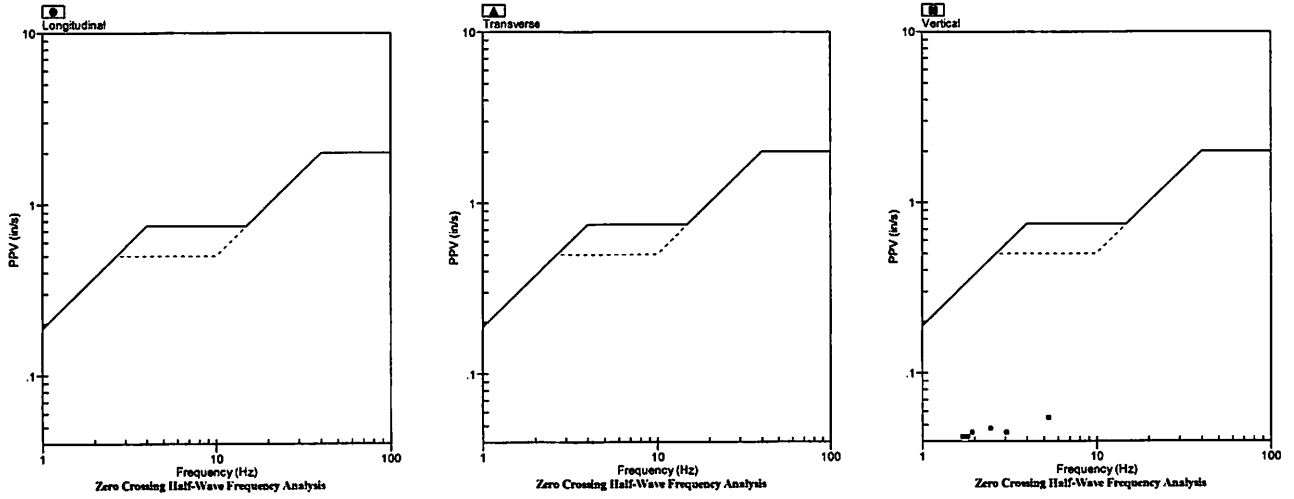
### Summary Data

	L	T	V
<b>PPV (in/s)</b>	0.023	0.038	0.055
<b>FREQ (Hz)</b>	5.4	3.4	3.2
<b>PD (.001")</b>	1.01	1.68	3.77
<b>PPA (g)</b>	0.013	0.013	0.007
<b>Peak Vector Sum:</b>	0.060 in/s		
<b>Peak Air Pressure:</b>	93 db		
	0.00028 PSI @ 5.3 Hz		

### Additional Info:

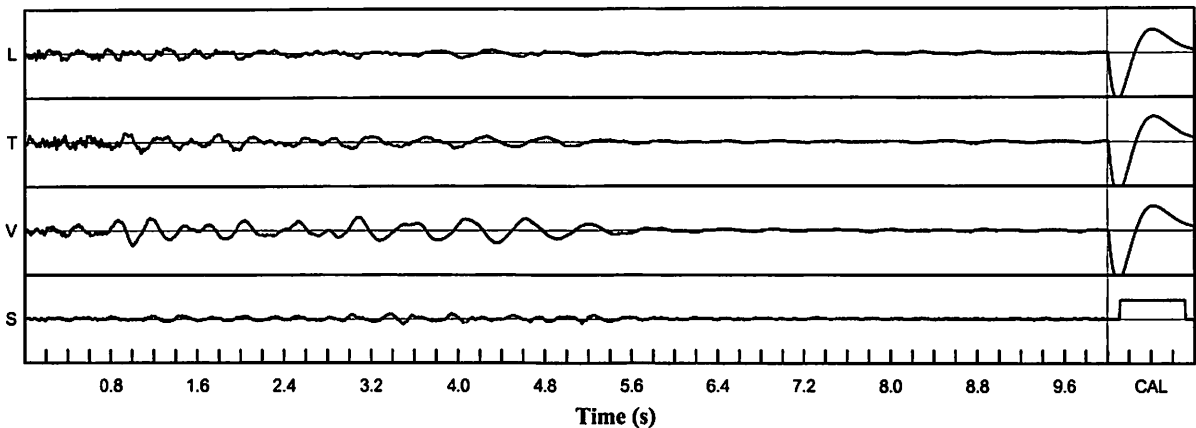
**Shaketable Calibrated:** 06/17/2022  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

### USBM Safe Blasting Levels



### Velocity Waveform

SN: 5764 Event: 10



### Velocity Waveform Graph Scale

**Time Scale:** 0.200 s  
**Seismic Scale:** +/- 0.160 in/s  
**Sound Scale:** +/- 0.0023 PSI

# Seismic Analysis

## USBM/Velocity Waveform Report

**Serial No:** 5764 v3.85  
**Date:** 08/04/2023 13:31:35  
**Event No:** 11  
**Record Time:** 10.0 s  
**Client:** City of Miramar  
**Operation:** White Rock Quarries  
**Location:** 5276 SW 152 Ave  
**Distance:**  
**Operator:** Roy  
**Comment:**  
**Seismic Trigger:** 0.050 in/s

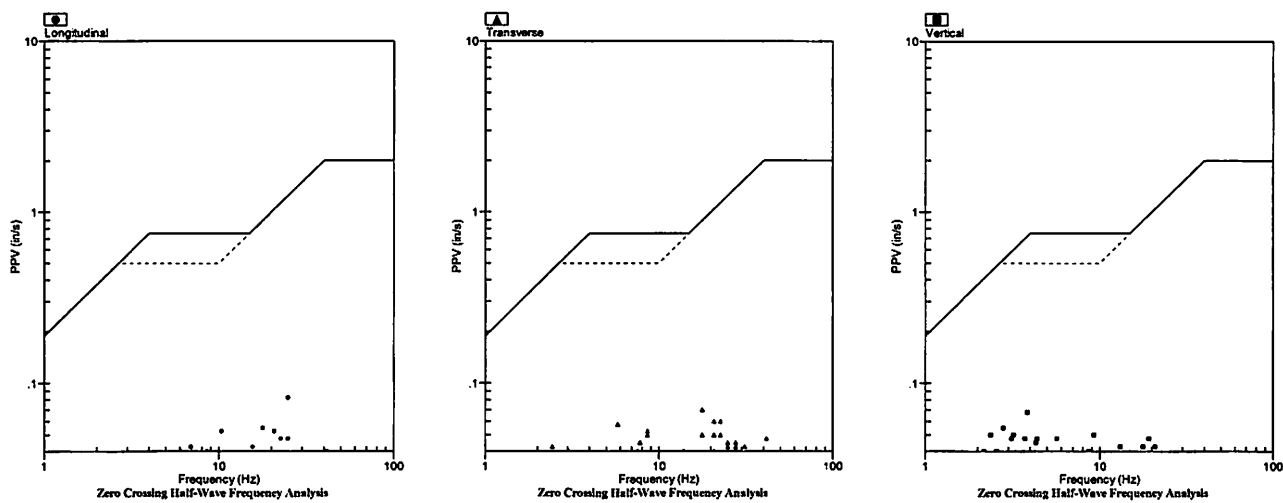
### Summary Data

	L	T	V
PPV (in/s)	0.083	0.070	0.068
FREQ (Hz)	25.0	17.9	3.8
PD (.001")	1.27	1.81	3.18
PPA (g)	0.039	0.039	0.033
Peak Vector Sum:	0.090 in/s		
Peak Air Pressure:	90 db		
	0.00021 PSI @ 7.4 Hz		

### Additional Info:

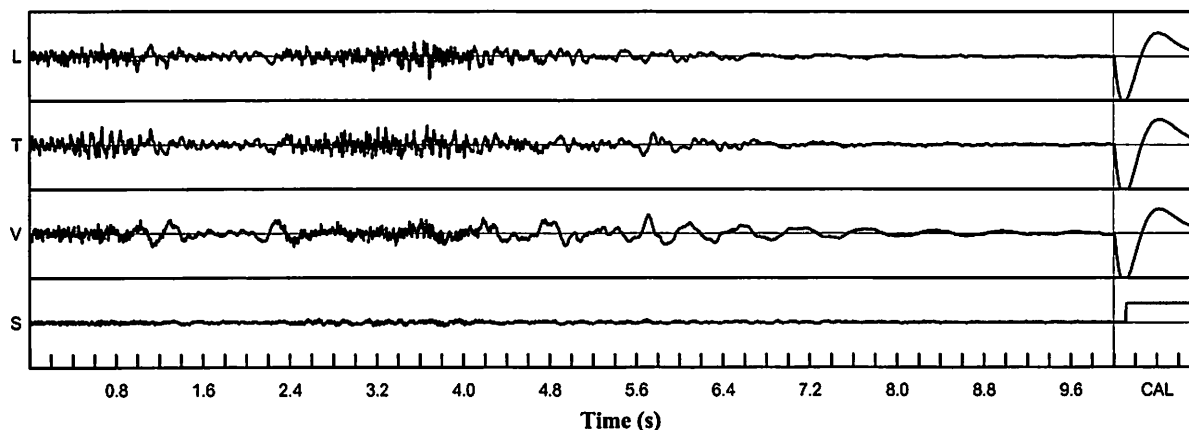
**Shaketable Calibrated:** 06/17/2022  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

### USBM Safe Blasting Levels



### Velocity Waveform

SN: 5764 Event: 11



### Velocity Waveform Graph Scale

**Time Scale:** 0.200 s  
**Seismic Scale:** +/- 0.160 in/s  
**Sound Scale:** +/- 0.0023 PSI

# Seismic Analysis

## USBM/Velocity Waveform Report

**Serial No:** 5764 v3.85  
**Date:** 08/07/2023 12:51:58  
**Event No:** 12  
**Record Time:** 10.0 s  
**Client:** City of Miramar  
**Operation:** White Rock Quarries  
**Location:** 5276 SW 152 Ave  
**Distance:**  
**Operator:** Roy  
**Comment:**  
**Seismic Trigger:** 0.050 in/s

### Summary Data

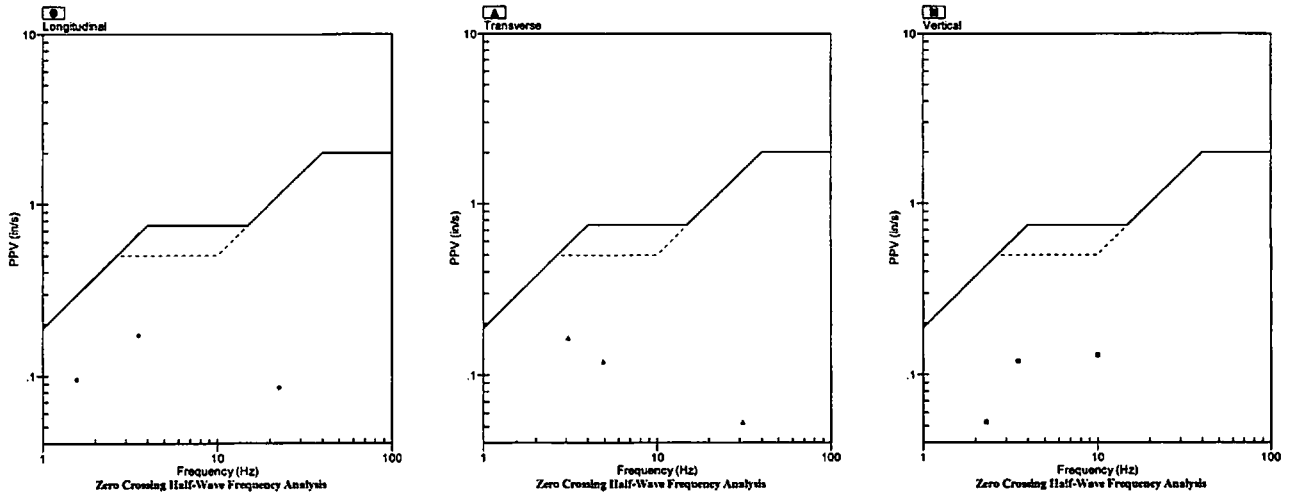
	L	T	V
PPV (in/s)	0.173	0.165	0.130
FREQ (Hz)	3.6	3.1	4.8
PD (.001")	7.70	6.77	5.00
PPA (g)	0.059	0.039	0.046
Peak Vector Sum:	0.238 in/s		
Peak Air Pressure:	108 db		
	0.00085 PSI @ 250.0 Hz		

**Shaketable Calibrated:** 06/17/2022

### Additional Info:

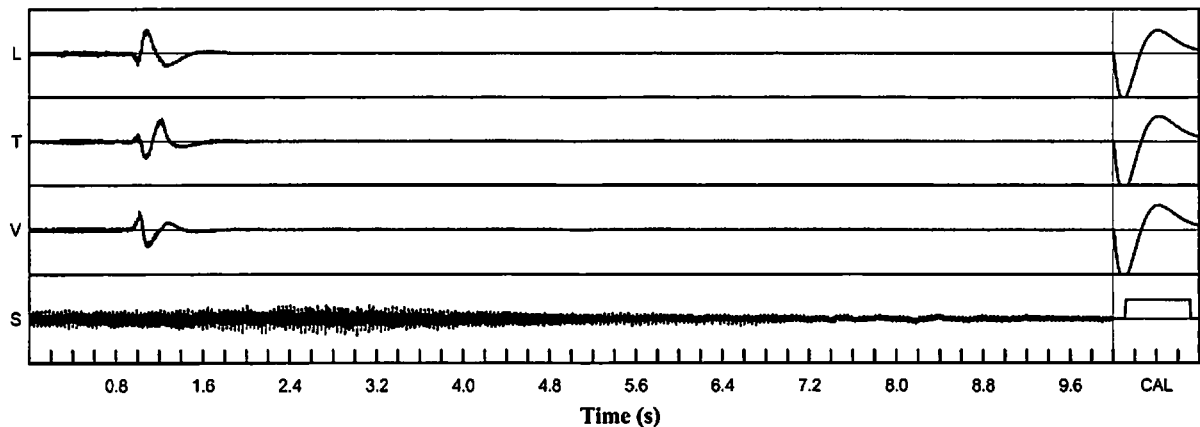
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

### USBM Safe Blasting Levels



### Velocity Waveform

SN: 5764 Event: 12



**Velocity Waveform Graph Scale**  
**Time Scale:** 0.200 s  
**Seismic Scale:** +/- 0.320 in/s  
**Sound Scale:** +/- 0.0023 PSI

# Seismic Analysis

## USBM/Velocity Waveform Report

**Serial No:** 5764 v3.85  
**Date:** 08/07/2023 16:02:44  
**Event No:** 13  
**Record Time:** 10.0 s  
**Client:** City of Miramar  
**Operation:** White Rock Quarries  
**Location:** 5276 SW 152 Ave  
**Distance:**  
**Operator:** Roy  
**Comment:**  
**Seismic Trigger:** 0.050 in/s

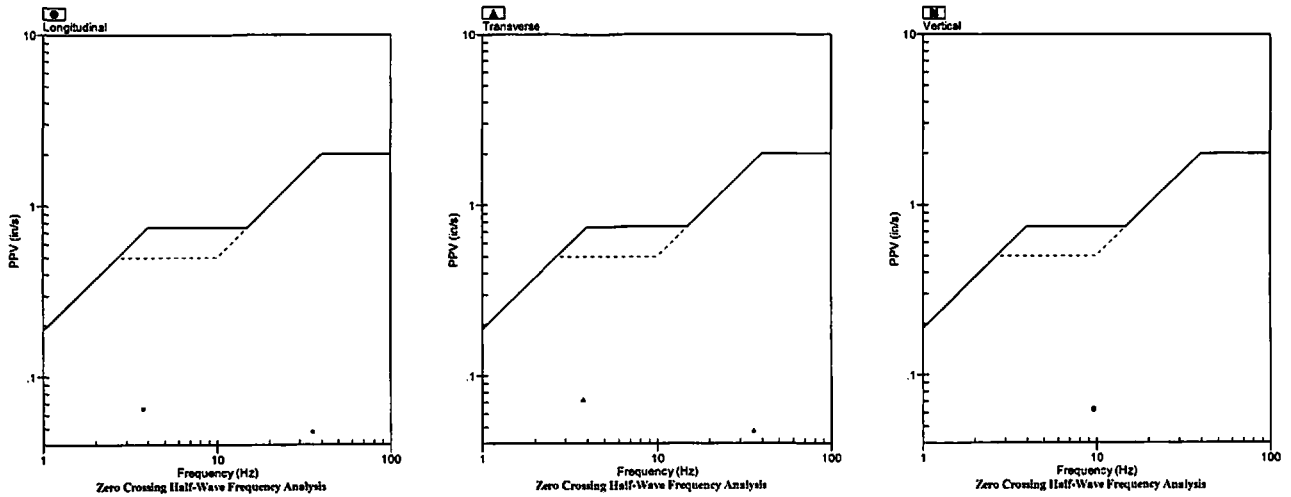
### Summary Data

	L	T	V
PPV (in/s)	0.073	0.075	0.063
FREQ (Hz)	4.6	13.9	9.6
PD (.001")	1.66	1.98	1.01
PPA (g)	0.033	0.046	0.033
Peak Vector Sum:	0.120 in/s		
Peak Air Pressure:	111 db		
	0.00114 PSI @ 83.3 Hz		

### Additional Info:

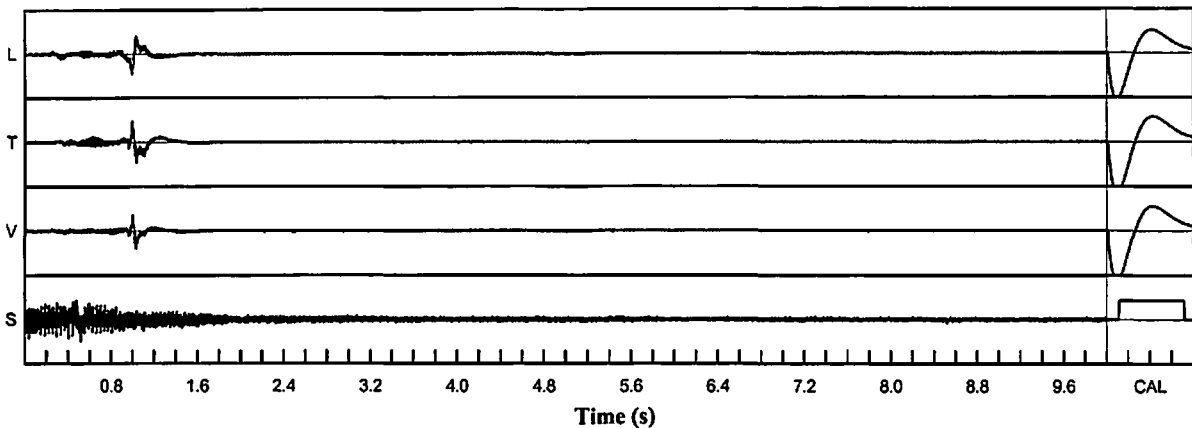
**Shaketable Calibrated:** 06/17/2022  
**By:** GeoSonics Inc.  
 359 Northgate Drive  
 Warrendale, PA 15086 U.S.A.  
 TEL: 724.934.2900 FAX: 724.934.2999

### USBM Safe Blasting Levels



### Velocity Waveform

SN: 5764 Event: 13



### Velocity Waveform Graph Scale

**Time Scale:** 0.200 s  
**Seismic Scale:** +/- 0.160 in/s  
**Sound Scale:** +/- 0.0023 PSI



# GeoSonics Inc. Seismic Analysis

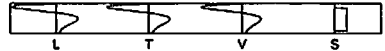
## USBM/Velocity Waveform Report

<b>Serial Number</b>	5149 v3.67	<b>Tran</b>	<b>Vert</b>
<b>Event Date</b>	August 14, 2023 11:01:31	<b>PPV (in/s)</b>	0.025      0.015      0.055
<b>Event Number</b>	44	<b>PD (.001")</b>	1.68      0.87      4.02
<b>Recording Time</b>	10.0 s	<b>PPA (g)</b>	0.007      0.007      0.007
<b>Seismic Trigger Level</b>	0.050 in/s	<b>FREQ (Hz)</b>	2.2      2.4      2.0
<b>Sound Trigger Level</b>	0 db	<b>Peak Vector Sum</b>	0.058 in/s
<b>Sample Rate</b>	1000 samples/second		

<b>Notes</b>	<b>Microphone</b>
<b>Client:</b> City Of Miramar	N/A
<b>Location:</b> White Rock	<b>PSPL</b> 105 db
<b>User:</b>	0.00059 psi
<b>Seis Location:</b> 5276 SW 152 Ave	
<b>Distance:</b>	
<b>Comment:</b>	

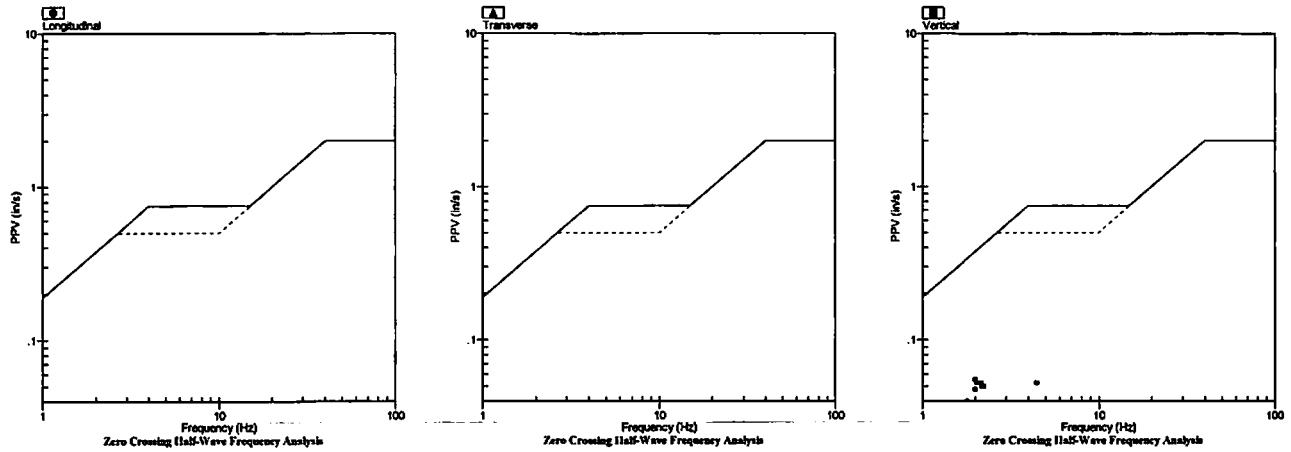
**Additional Notes**

**Dynamic Geo Cal**  
**Calibration**  
**Battery Level**



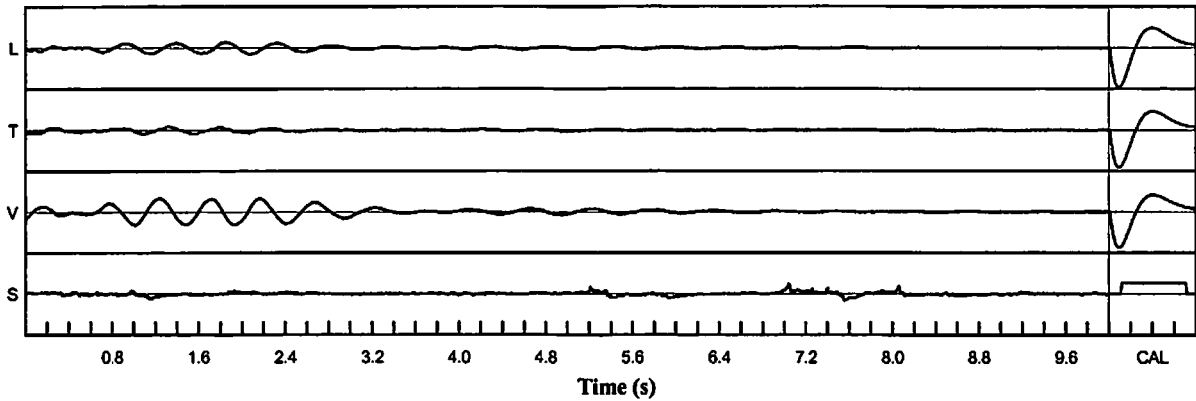
March 12, 2021 By GeoSonics Inc.  
13.1

### USBM Safe Blasting Levels



### Velocity Waveform

SN: 5149 Event: 44



**Velocity Waveform Graph Scale**  
**Time Scale:** 0.200 s  
**Seismic Scale:** +/- 0.160 in/s  
**Sound Scale:** +/- 0.0023 PSI

# GeoSonics Inc. Seismic Analysis

## USBM/Velocity Waveform Report

**Serial Number** 5149 v3.67  
**Event Date** August 17, 2023 12:31:22  
**Event Number** 45  
**Recording Time** 10.0 s  
**Seismic Trigger Level** 0.050 in/s  
**Sound Trigger Level** 0 db  
**Sample Rate** 1000 samples/second

**Tran**  
**PPV (in/s)** 0.063      0.080      0.065  
**PD (.001")** 1.55      1.45      2.91  
**PPA (g)** 0.026      0.020      0.020  
**FREQ (Hz)** 8.6      7.4      3.7

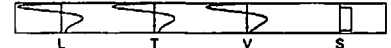
**Peak Vector Sum** 0.085 in/s

**Notes**  
**Client:** City Of Miramar  
**Location:** White Rock  
**User:**  
**Seis Location:** 5276 SW 152 Ave  
**Distance:**  
**Comment:**

**Microphone** N/A  
**PSPL** 86 db  
 0.00012 psi

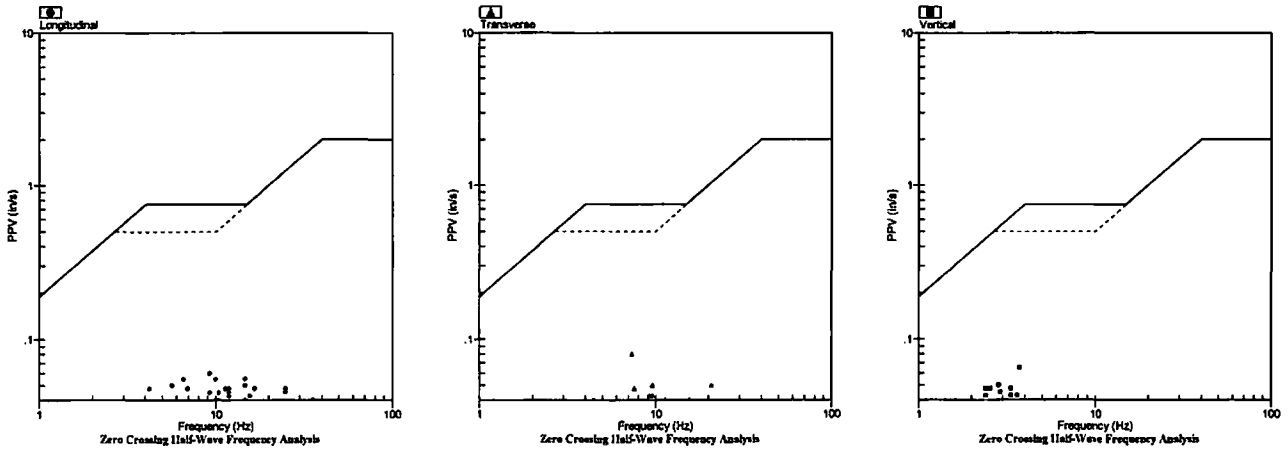
**Additional Notes**

**Dynamic Geo Cal**  
**Calibration**  
**Battery Level**



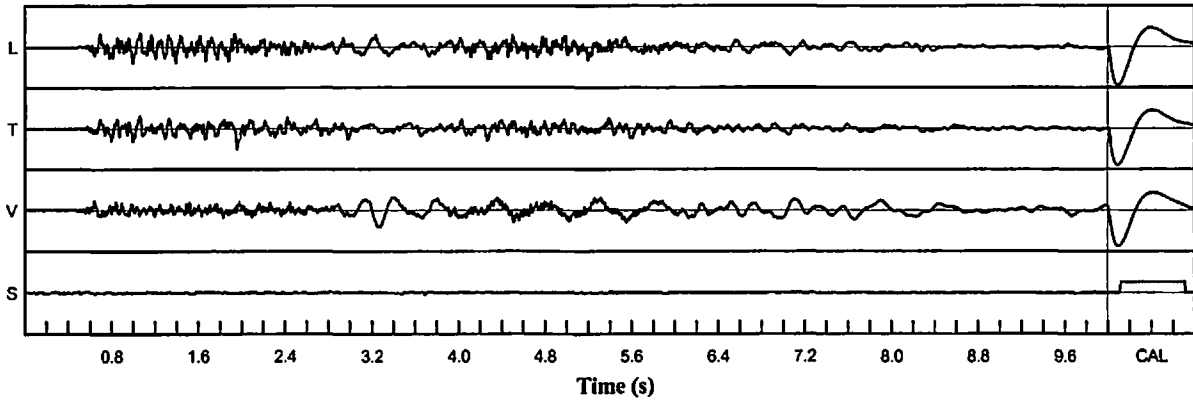
March 12, 2021 By GeoSonics Inc.  
 12.8

### USBM Safe Blasting Levels



### Velocity Waveform

SN: 5149 Event: 45



**Velocity Waveform Graph Scale**  
**Time Scale:** 0.200 s  
**Seismic Scale:** +/- 0.160 in/s  
**Sound Scale:** +/- 0.0023 PSI

# GeoSonics Inc. Seismic Analysis

## USBM/Velocity Waveform Report

**Serial Number** 5149 v3.67  
**Event Date** August 22, 2023 12:01:15  
**Event Number** 46  
**Recording Time** 10.0 s  
**Seismic Trigger Level** 0.050 in/s  
**Sound Trigger Level** 0 db  
**Sample Rate** 1000 samples/second

**Tran**  
**PPV (in/s)** 0.080      0.043      0.063  
**PD (.001")** 1.77      1.35      3.56  
**PPA (g)** 0.026      0.020      0.026  
**FREQ (Hz)** 5.1      8.6      2.6

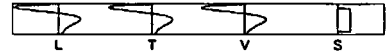
**Peak Vector Sum** 0.093 in/s

**Notes**  
**Client:** City Of Miramar  
**Location:** White Rock  
**User:**  
**Seis Location:** 5276 SW 152 Ave  
**Distance:**  
**Comment:**

**Microphone** N/A  
**PSPL** 84 db  
 0.00011 psi

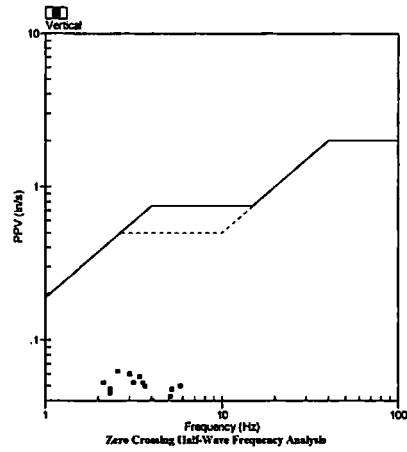
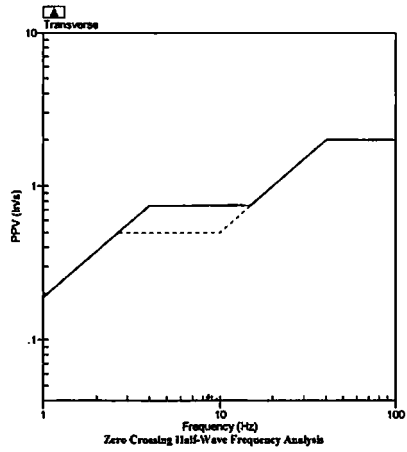
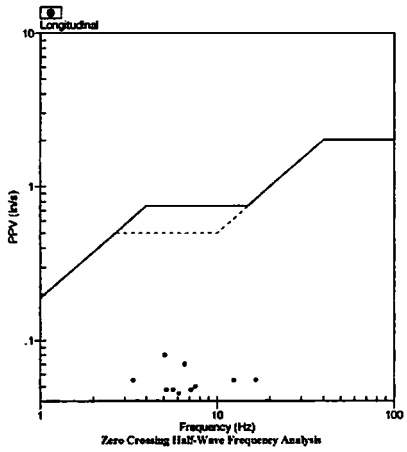
**Additional Notes**

**Dynamic Geo Cal**  
**Calibration**  
**Battery Level**



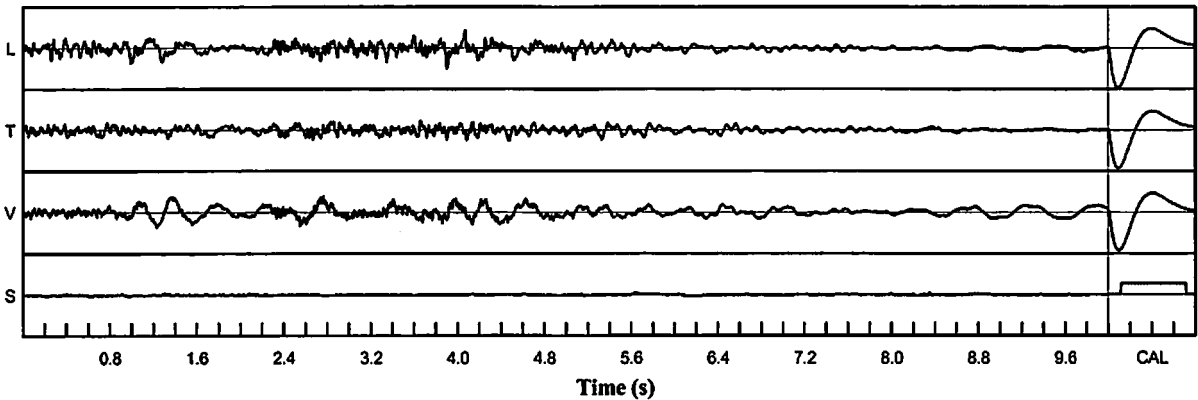
March 12, 2021 By GeoSonics Inc.  
 12.8

### USBM Safe Blasting Levels



### Velocity Waveform

SN: 5149 Event: 46



**Velocity Waveform Graph Scale**

**Time Scale:** 0.200 s  
**Seismic Scale:** +/- 0.160 in/s  
**Sound Scale:** +/- 0.0023 PSI