

Location: 5276 SW 152 Ave

Date:

Time:

PPV:

4/2/2021	11:15 AM	0.083
4/7/2021	1:15 PM	0.143
4/14/2021	11:16 AM	0.09
4/16/2021	11:31 AM	0.058
4/19/2021	11:17 AM	0.063
4/20/2021	11:32 AM	0.055
4/23/2021	1:16 PM	0.13
5/3/2021	2:02 PM	0.1
5/4/2021	1:31 PM	0.11
5/11/2021	1:16 PM	0.075
5/13/2021	11:16 AM	0.08
5/19/2021	2:32 PM	0.09
5/21/2021	1:01 PM	0.073
5/24/2021	1:01 PM	0.095
5/27/2021	1:01 PM	0.073
7/8/2021	1:20 PM	0.08

GeoSonics Inc. Seismic Analysis

USBM/Velocity Waveform Report

Serial No: 5700 v3.85
Date: 04/02/2021 11:15:19
Event No: 1
Record Time: 5.0 s
Client: Miramar
Operation: white rock
Location: 5276 sw 152 Ave
Distance:
Operator:
Comment:
Seismic Trigger: 0.050 in/s

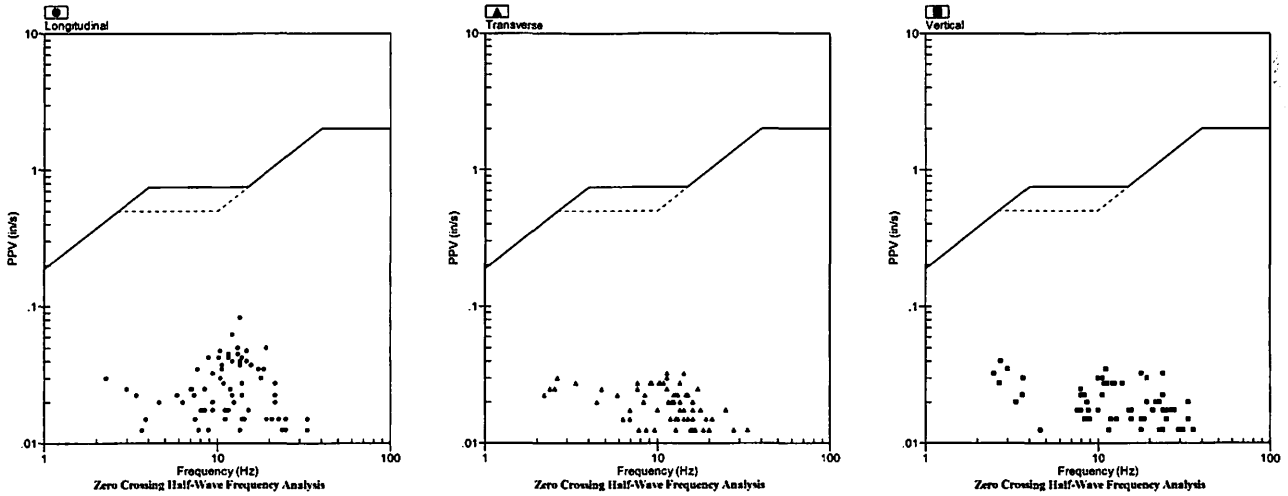
Summary Data

	L	T	V
PPV (in/s)	0.083	0.033	0.040
FREQ (Hz)	13.5	14.3	2.7
PD (.001")	1.52	1.71	2.40
PPA (g)	0.026	0.020	0.020
Peak Vector Sum:	0.083 in/s		
Peak Air Pressure:	95 db		
	0.00032 PSI @ 1.0 Hz		

Additional Info:

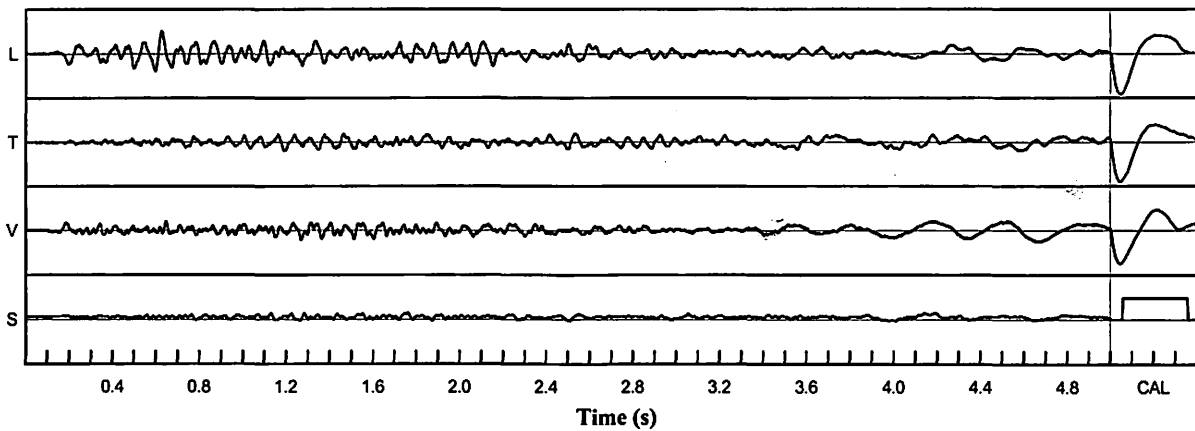
Shaketable Calibrated: 02/15/2021
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

USBM Safe Blasting Levels



Velocity Waveform

SN: 5700 Event: 1



Velocity Waveform Graph Scale

Time Scale: 0.100 s
Seismic Scale: +/- 0.160 in/s
Sound Scale: +/- 0.0023 PSI

GeoSonics Inc. Seismic Analysis

USBM/Velocity Waveform Report

Serial No: 5700 v3.85
Date: 04/07/2021 13:15:26
Event No: 2
Record Time: 5.0 s
Client: Miramar
Operation: white rock
Location: 5276 sw 152 Ave
Distance:
Operator:
Comment:
Seismic Trigger: 0.050 in/s

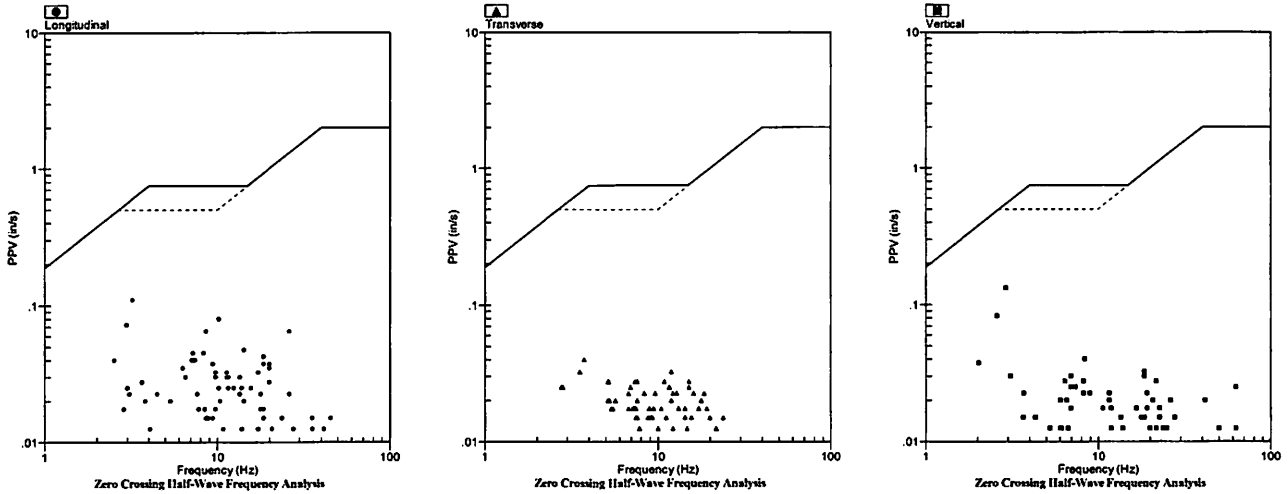
Summary Data

	L	T	V
PPV (in/s)	0.110	0.040	0.143
FREQ (Hz)	3.2	3.8	2.9
PD (.001")	4.86	1.47	7.04
PPA (g)	0.026	0.020	0.020
Peak Vector Sum:	0.153 in/s		
Peak Air Pressure:	98 db		
	0.00039 PSI @ 1.0 Hz		

Additional Info:

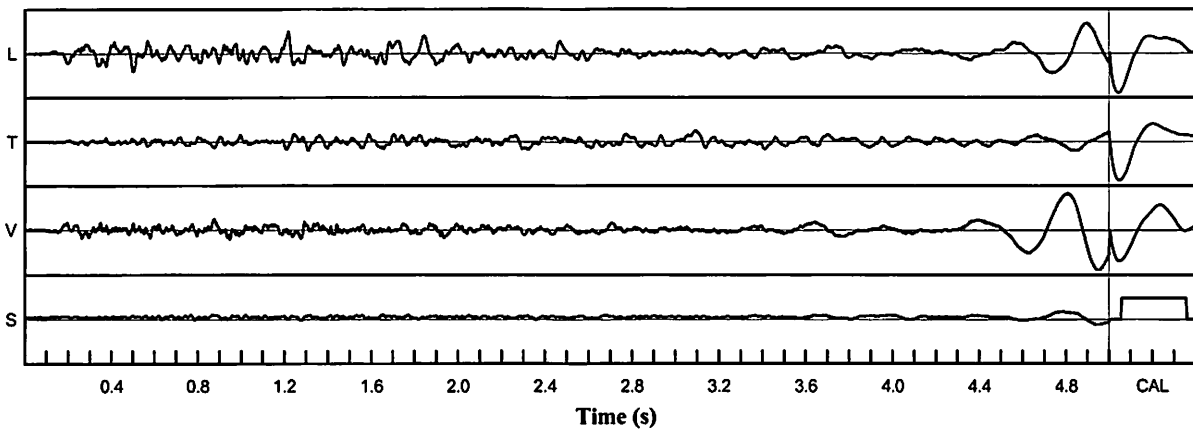
Shaketable Calibrated: 02/15/2021
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

USBM Safe Blasting Levels



Velocity Waveform

SN: 5700 Event: 2



Velocity Waveform Graph Scale

Time Scale: 0.100 s
Seismic Scale: +/- 0.160 in/s
Sound Scale: +/- 0.0023 PSI

GeoSonics Inc. Seismic Analysis

USBM/Velocity Waveform Report

Serial No: 5700 v3.85
Date: 04/14/2021 11:16:07
Event No: 3
Record Time: 5.0 s
Client: Miramar
Operation: white rock
Location: 5276 sw 152 Ave
Distance:
Operator:
Comment:
Seismic Trigger: 0.050 in/s

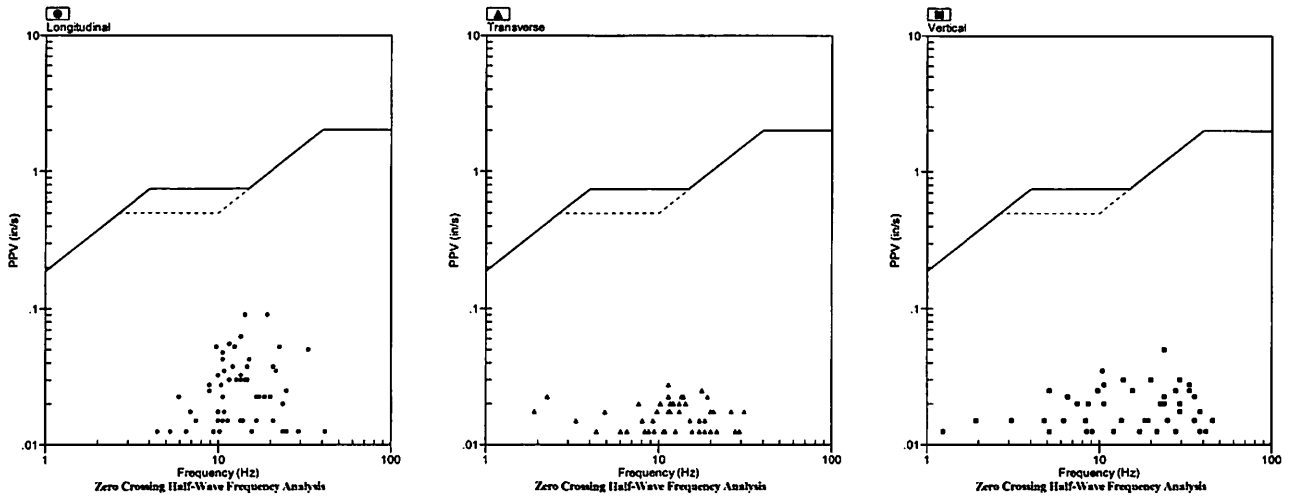
Summary Data

	L	T	V
PPV (in/s)	0.090	0.028	0.050
FREQ (Hz)	14.3	11.4	23.8
PD (.001")	0.93	0.95	1.13
PPA (g)	0.033	0.020	0.026
Peak Vector Sum:	0.095 in/s		
Peak Air Pressure:	95 db		
	0.00032 PSI @ 1.0 Hz		

Additional Info:

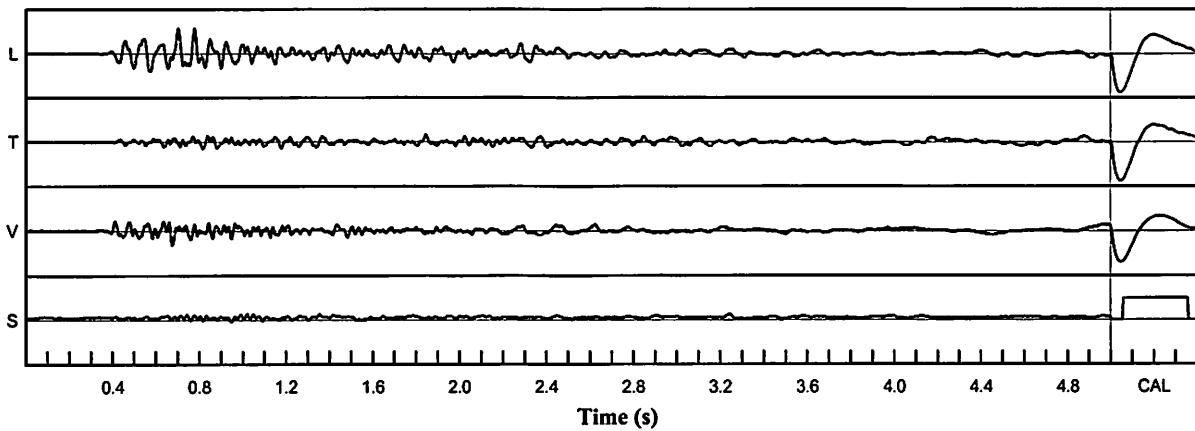
Shaketable Calibrated: 02/15/2021
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

USBM Safe Blasting Levels



Velocity Waveform

SN: 5700 Event: 3



Velocity Waveform Graph Scale

Time Scale: 0.100 s
Seismic Scale: +/- 0.160 in/s
Sound Scale: +/- 0.0023 PSI

GeoSonics Inc. Seismic Analysis

USBM/Velocity Waveform Report

Serial No: 5700 v3.85
Date: 04/16/2021 11:31:27
Event No: 4
Record Time: 5.0 s
Client: Miramar
Operation: white rock
Location: 5276 sw 152 Ave
Distance:
Operator:
Comment:
Seismic Trigger: 0.050 in/s

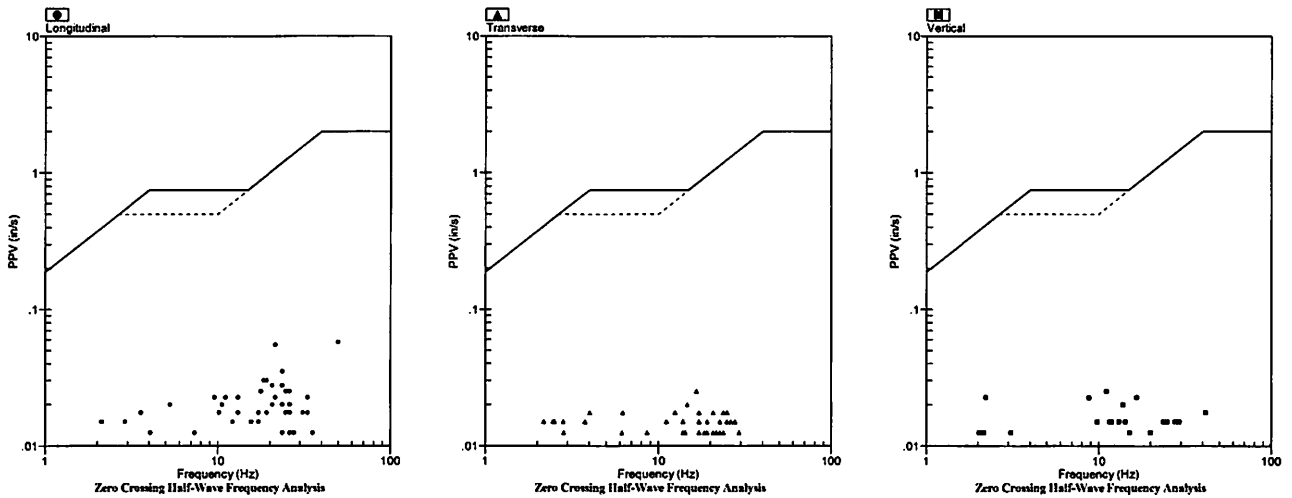
Summary Data

	L	T	V
PPV (in/s)	0.058	0.025	0.028
FREQ (Hz)	23.8	16.7	21.7
PD (.001")	0.96	1.22	1.23
PPA (g)	0.033	0.013	0.020
Peak Vector Sum:	0.060 in/s		
Peak Air Pressure:	93 db		
	0.00028 PSI @ 1.0 Hz		

Additional Info:

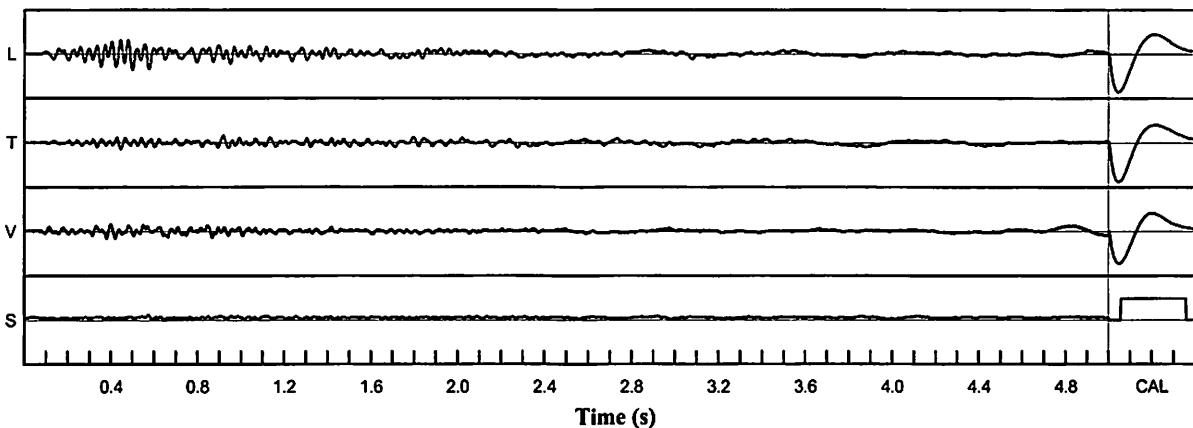
Shaketable Calibrated: 02/15/2021
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

USBM Safe Blasting Levels



Velocity Waveform

SN: 5700 Event: 4



Velocity Waveform Graph Scale

Time Scale: 0.100 s
Seismic Scale: +/- 0.160 in/s
Sound Scale: +/- 0.0023 PSI

GeoSonics Inc. Seismic Analysis

USBM/Velocity Waveform Report

Serial No: 5700 v3.85
Date: 04/19/2021 11:17:29
Event No: 5
Record Time: 5.0 s
Client: Miramar
Operation: white rock
Location: 5276 sw 152 Ave
Distance:
Operator:
Comment:
Seismic Trigger: 0.050 in/s

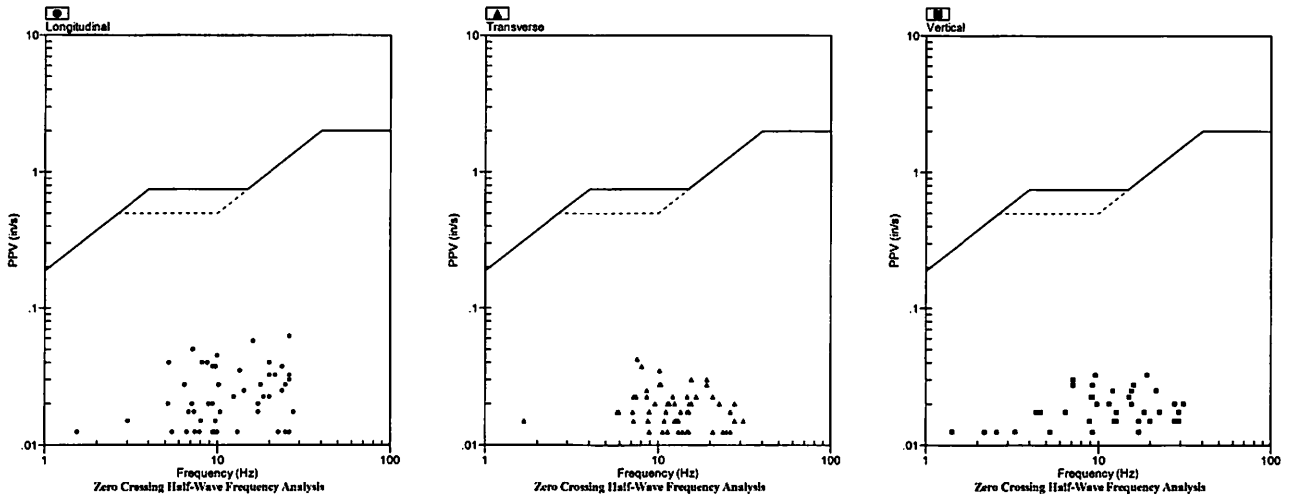
Summary Data

	L	T	V
PPV (in/s)	0.063	0.043	0.045
FREQ (Hz)	15.2	7.6	12.2
PD (.001")	1.14	1.05	0.72
PPA (g)	0.020	0.020	0.020
Peak Vector Sum:	0.065 in/s		
Peak Air Pressure:	98 db		
	0.00039 PSI @ 1.0 Hz		

Additional Info:

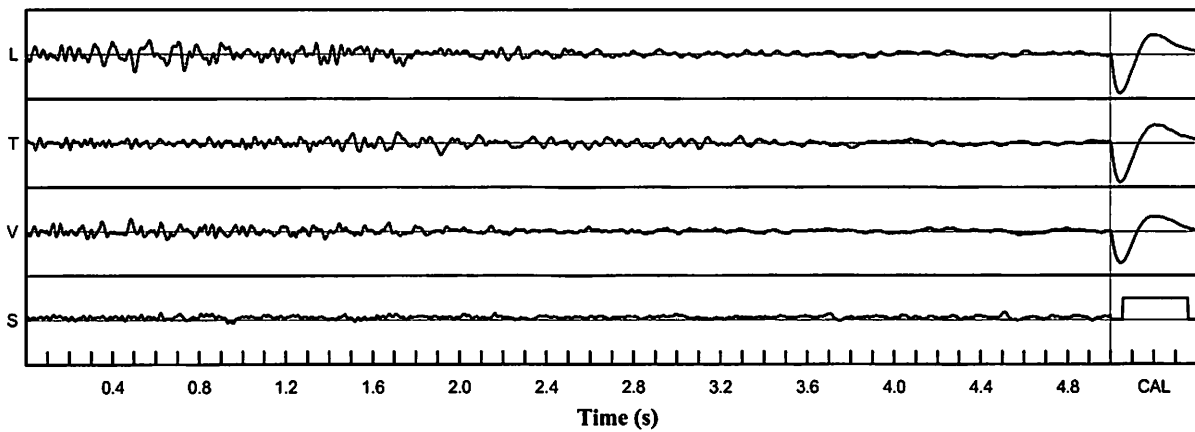
Shaketable Calibrated: 02/15/2021
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

USBM Safe Blasting Levels



Velocity Waveform

SN: 5700 Event: 5



Velocity Waveform Graph Scale

Time Scale: 0.100 s
Seismic Scale: +/- 0.160 in/s
Sound Scale: +/- 0.0023 PSI

GeoSonics Inc. Seismic Analysis

USBM/Velocity Waveform Report

Serial No: 5700 v3.85
Date: 04/20/2021 11:31:38
Event No: 6
Record Time: 5.0 s
Client: Miramar
Operation: white rock
Location: 5276 sw 152 Ave
Distance:
Operator:
Comment:
Seismic Trigger: 0.050 in/s

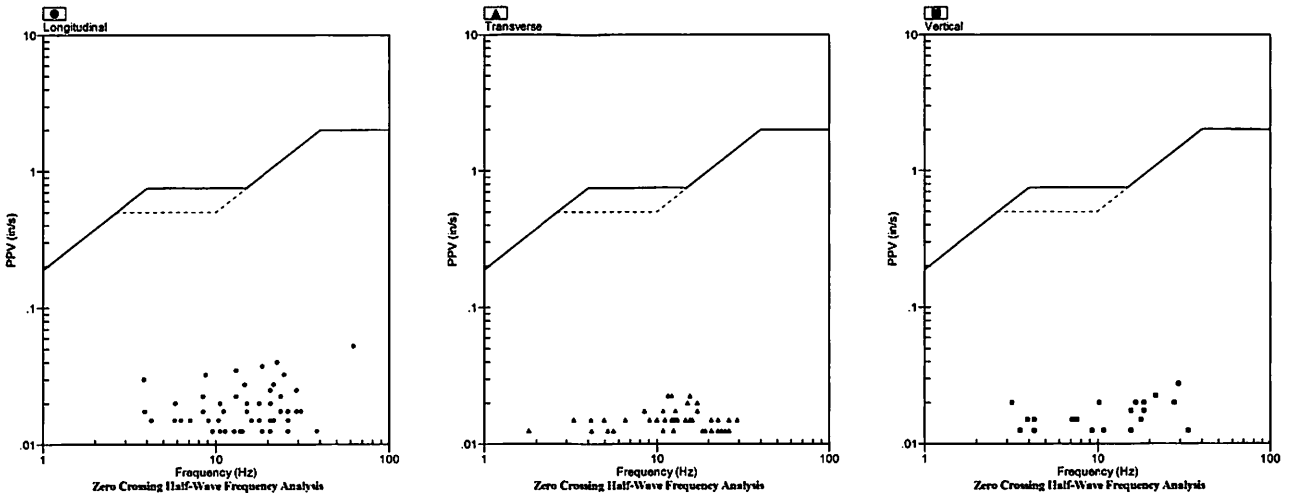
Summary Data

	L	T	V
PPV (in/s)	0.055	0.023	0.035
FREQ (Hz)	25.0	11.6	25.0
PD (.001")	0.83	0.67	0.84
PPA (g)	0.026	0.013	0.026
Peak Vector Sum:	0.058 in/s		
Peak Air Pressure:	93 db		
	0.00028 PSI @ 1.9 Hz		

Additional Info:

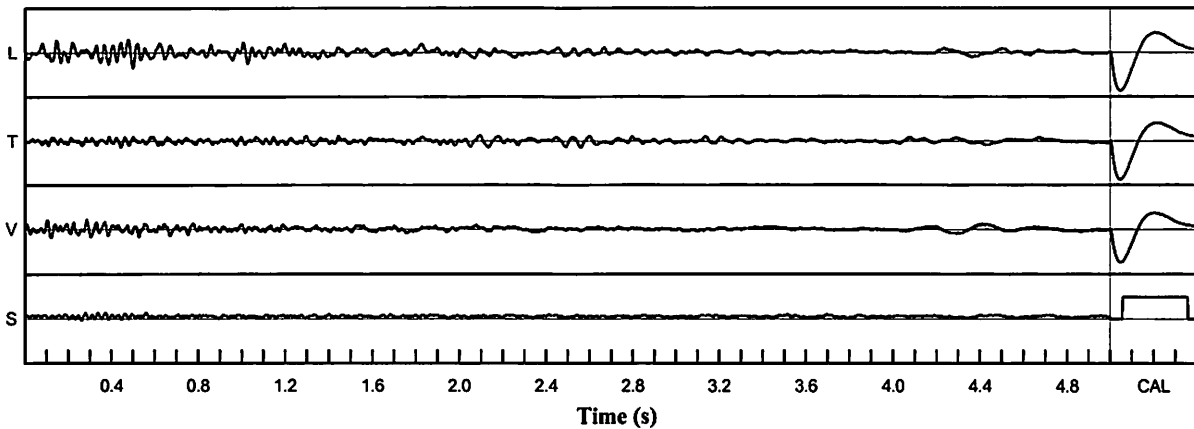
Shaketable Calibrated: 02/15/2021
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

USBM Safe Blasting Levels



Velocity Waveform

SN: 5700 Event: 6



Velocity Waveform Graph Scale

Time Scale: 0.100 s
Seismic Scale: +/- 0.160 in/s
Sound Scale: +/- 0.0023 PSI

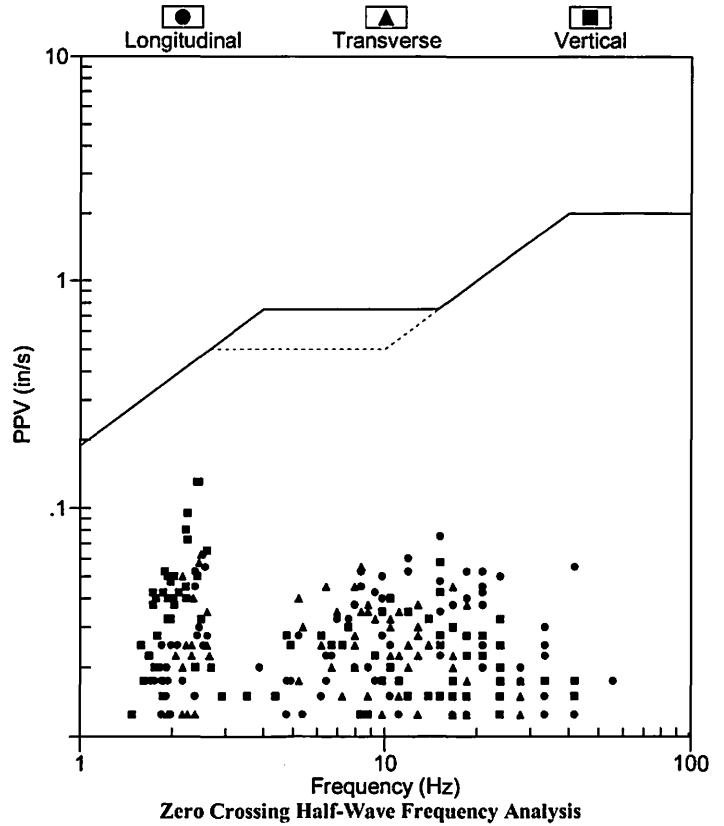
Seismic Analysis

Velocity Waveform Analysis

Serial No: 5150 v3.67
Date: 04/23/2021 13:15:33
Event No: 1
Record Time: 15.0 s
Client: City of Miramar
Operation: White Rock Quarries
Location: 5276 sw 152 ave
Distance:
Operator: Roy A
Comment: In ground
Seismic Trigger: 0.050 in/s

USBM Safe Blasting Levels

SN: 5150 Event: 1



	Summary Data		
	L	T	V
PPV (in/s)	0.075	0.063	0.130
FREQ (Hz)	15.2	2.5	2.5
PD (.001")	4.07	3.72	8.52
PPA (g)	0.039	0.013	0.020
Peak Vector Sum :	0.138 in/s		
Peak Air Pressure:	107 db		
	0.00070 PSI @ 2.6 Hz		

Additional Info:

Shaketable Calibrated: 06/30/2020

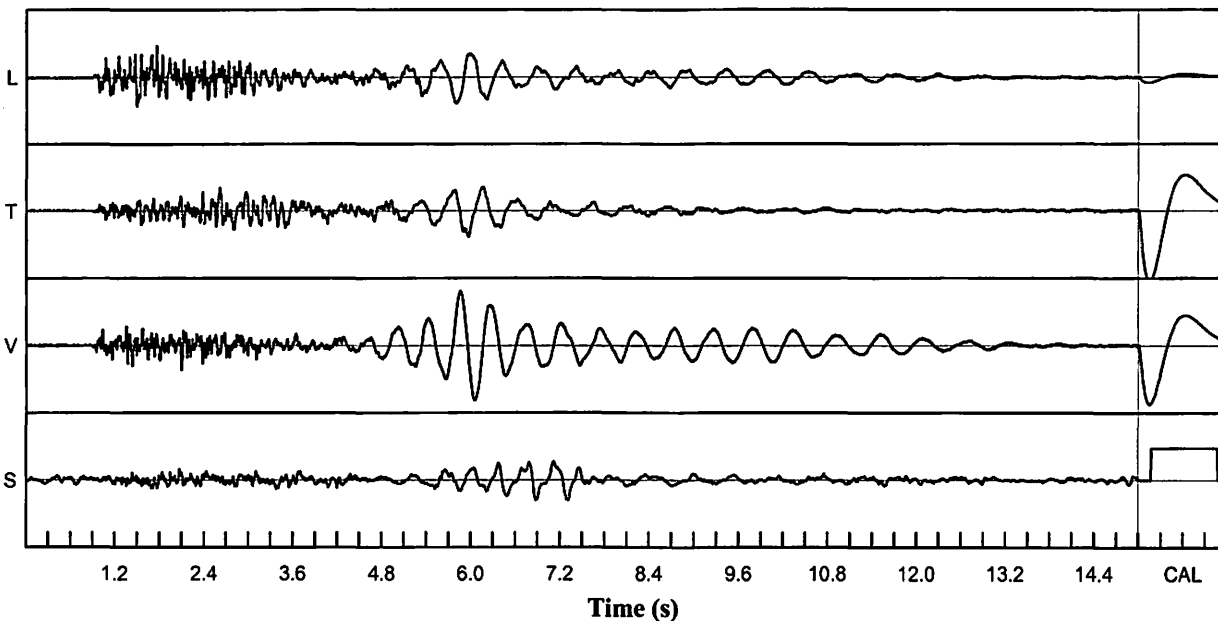
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

Velocity Waveform Graph Scale

Time Scale: 0.300 s
Seismic Scale: +/- 0.160 in/s
Sound Scale: +/- 0.0023 PSI

Velocity Waveform

SN: 5150 Event: 1



Seismic Analysis

Velocity Waveform Analysis

Serial No: 5150 v3.67
Date: 05/03/2021 14:02:10
Event No: 2
Record Time: 15.0 s
Client: City of Miramar
Operation: White Rock Quarries
Location: 5276 sw 152 ave
Distance:
Operator: Roy A
Comment: In ground
Seismic Trigger: 0.050 in/s

USBM Safe Blasting Levels

SN: 5150 Event: 2

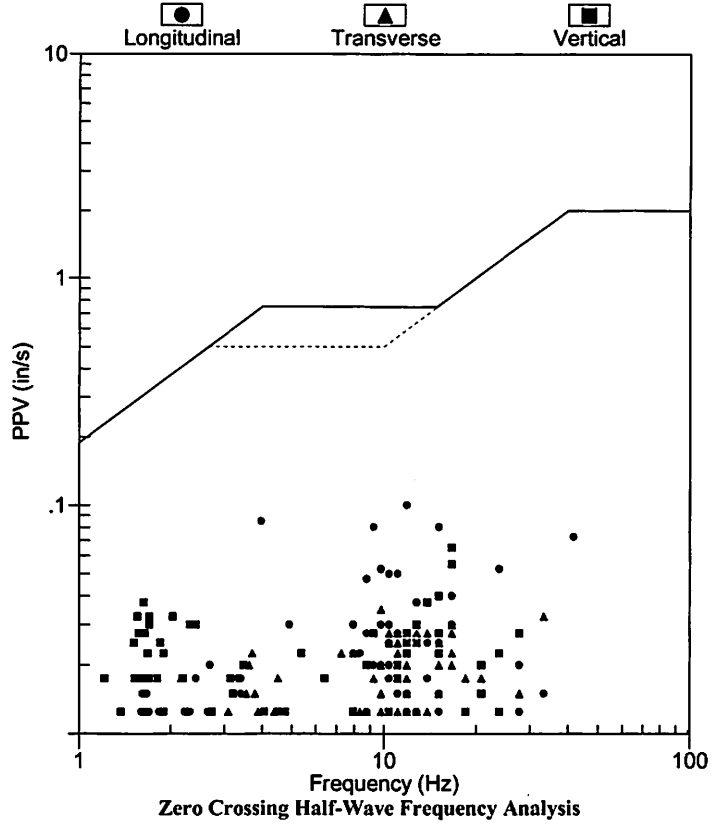
	Summary Data		
	L	T	V
PPV (in/s)	0.100	0.035	0.065
FREQ (Hz)	11.9	9.8	16.7
PD (.001")	4.64	1.11	3.32
PPA (g)	0.033	0.013	0.020
Peak Vector Sum :	0.103 in/s		
Peak Air Pressure:	105 db		
	0.00061 PSI @ 4.1 Hz		

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

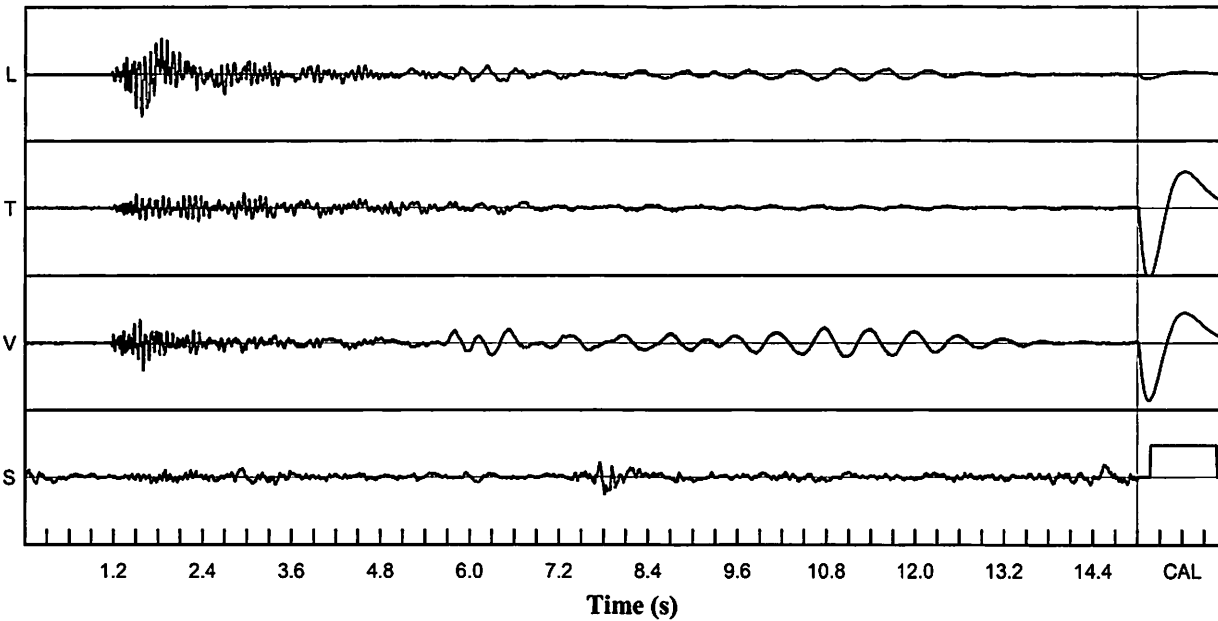
Velocity Waveform Graph Scale

Time Scale: 0.300 s
Seismic Scale: +/- 0.160 in/s
Sound Scale: +/- 0.0023 PSI



Velocity Waveform

SN: 5150 Event: 2



Seismic Analysis

Velocity Waveform Analysis

Serial No: 5150 v3.67
Date: 05/04/2021 13:31:04
Event No: 3
Record Time: 15.0 s
Client: City of Miramar
Operation: White Rock Quarries
Location: 5276 sw 152 ave
Distance:
Operator: Roy A
Comment: In ground
Seismic Trigger: 0.050 in/s

USBM Safe Blasting Levels

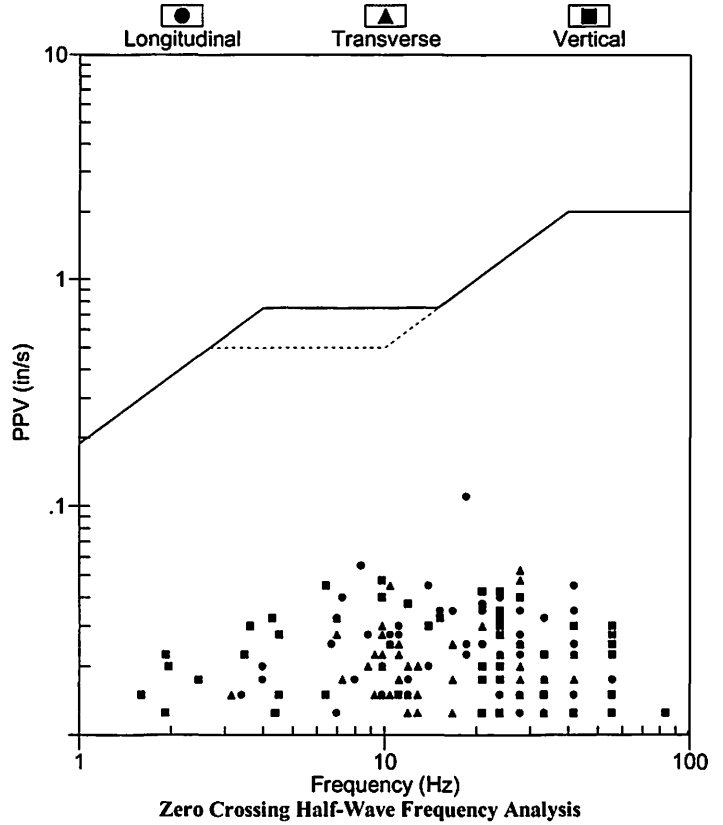
SN: 5150 Event: 3

	Summary Data		
	L	T	V
PPV (in/s)	0.110	0.053	0.058
FREQ (Hz)	18.5	27.8	15.2
PD (.001")	1.32	0.76	1.64
PPA (g)	0.033	0.020	0.033
Peak Vector Sum :	0.113 in/s		
Peak Air Pressure:	109 db		
	0.00082 PSI @ 20.8 Hz		

Additional Info:

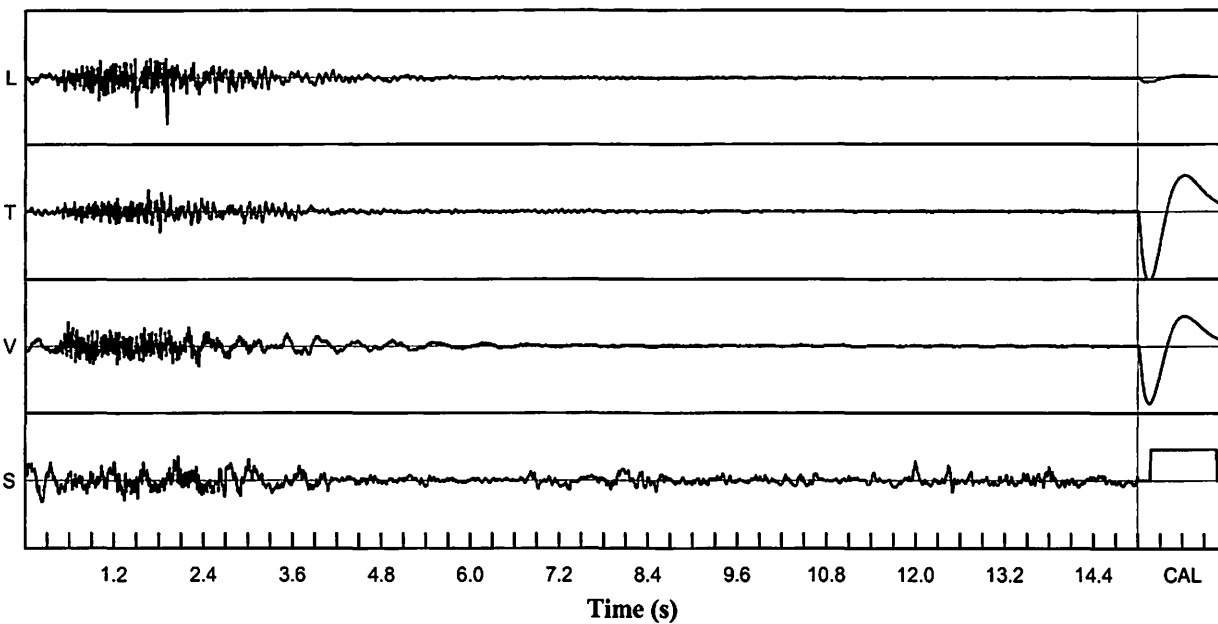
Shaketable Calibrated: 06/30/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

Velocity Waveform Graph Scale
Time Scale: 0.300 s
Seismic Scale: +/- 0.160 in/s
Sound Scale: +/- 0.0023 PSI



Velocity Waveform

SN: 5150 Event: 3



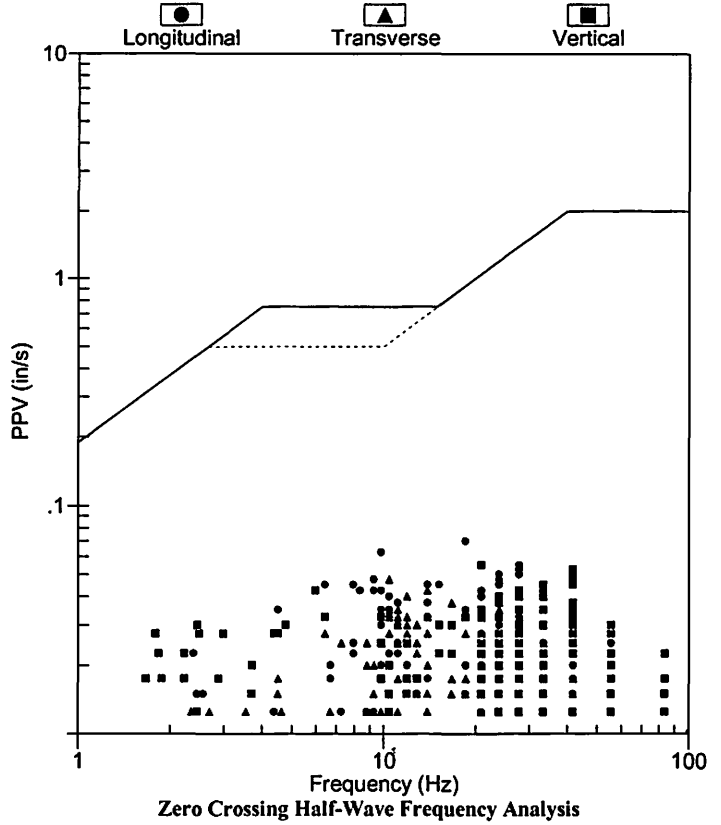
Seismic Analysis

Velocity Waveform Analysis

Serial No: 5150 v3.67
Date: 05/11/2021 13:16:15
Event No: 4
Record Time: 15.0 s
Client: City of Miramar
Operation: White Rock Quarries
Location: 5276 sw 152 ave
Distance:
Operator: Roy A
Comment: In ground
Seismic Trigger: 0.050 in/s

USBM Safe Blasting Levels

SN: 5150 Event: 4



	Summary Data		
	L	T	V
PPV (in/s)	0.075	0.048	0.058
FREQ (Hz)	15.2	23.8	41.7
PD (.001")	1.85	1.15	2.21
PPA (g)	0.033	0.020	0.033
Peak Vector Sum :	0.085 in/s		
Peak Air Pressure:	103 db		
	0.00046 PSI @ 4.0 Hz		

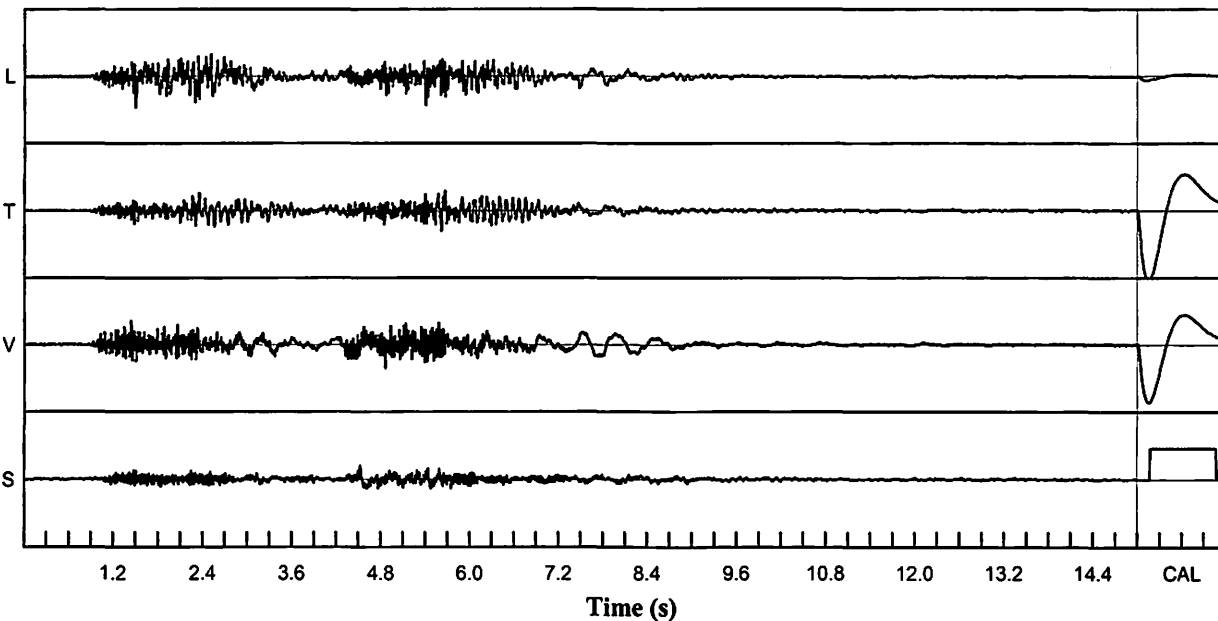
Additional Info:

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

Velocity Waveform Graph Scale
Time Scale: 0.300 s
Seismic Scale: +/- 0.160 in/s
Sound Scale: +/- 0.0023 PSI

Velocity Waveform

SN: 5150 Event: 4



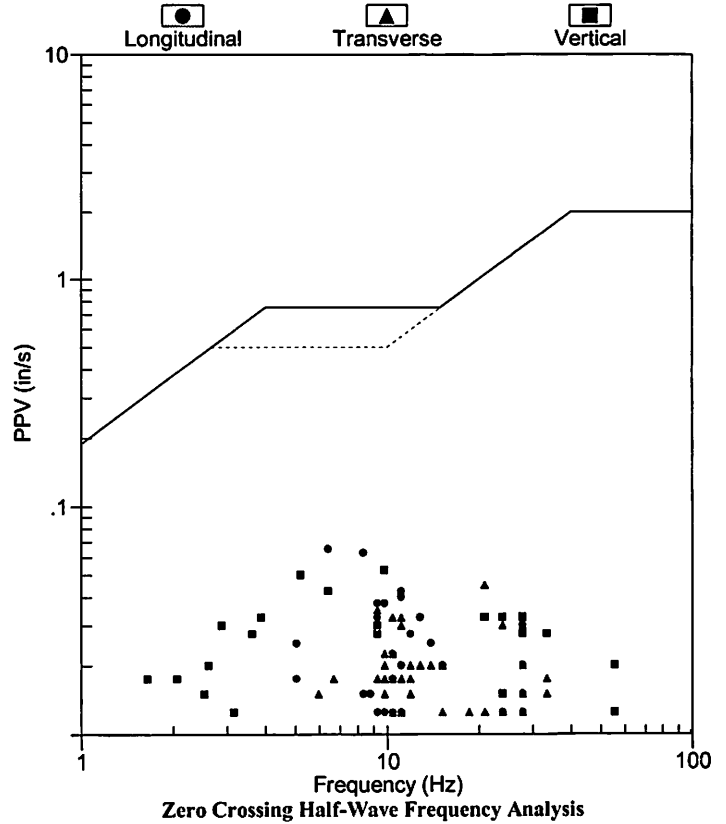
Seismic Analysis

Velocity Waveform Analysis

Serial No: 5150 v3.67
Date: 05/13/2021 11:16:21
Event No: 5
Record Time: 15.0 s
Client: City of Miramar
Operation: White Rock Quarries
Location: 5276 sw 152 ave
Distance:
Operator: Roy A
Comment: In ground
Seismic Trigger: 0.050 in/s

USBM Safe Blasting Levels

SN: 5150 Event: 5



	Summary Data		
	L	T	V
PPV (in/s)	0.080	0.050	0.053
FREQ (Hz)	6.2	16.7	9.8
PD (.001")	2.14	0.82	1.41
PPA (g)	0.033	0.020	0.026
Peak Vector Sum :	0.085 in/s		
Peak Air Pressure:	100 db		
	0.00030 PSI @ 41.7 Hz		

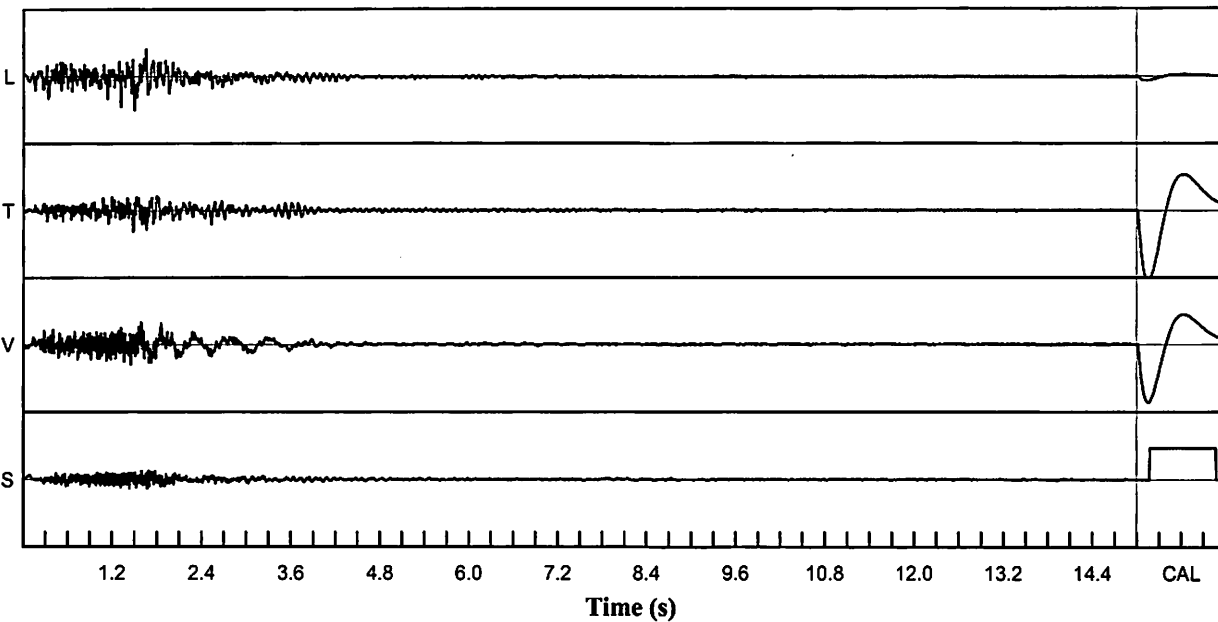
Additional Info:

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

Velocity Waveform Graph Scale
Time Scale: 0.300 s
Seismic Scale: +/- 0.160 in/s
Sound Scale: +/- 0.0023 PSI

Velocity Waveform

SN: 5150 Event: 5



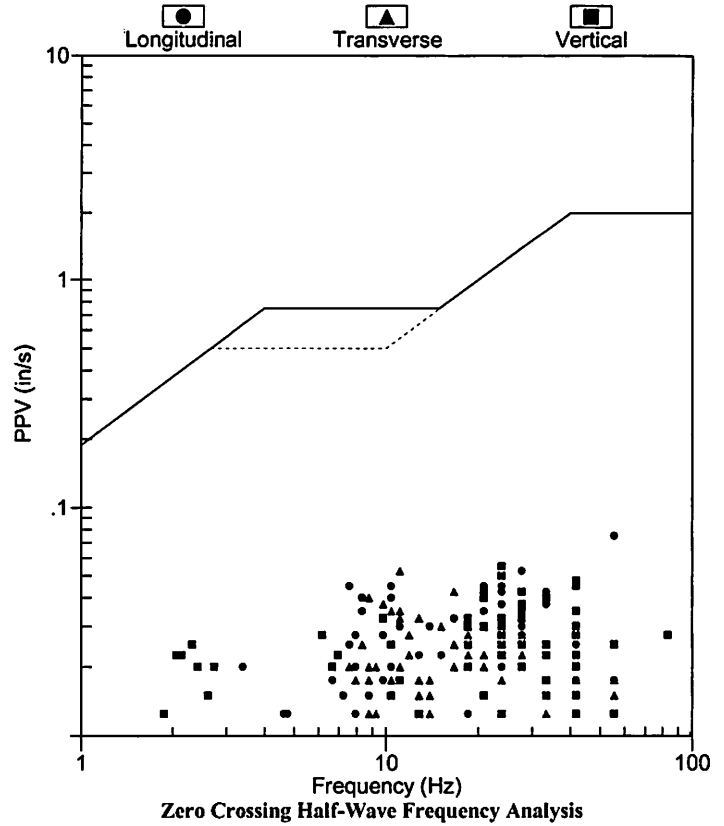
Seismic Analysis

Velocity Waveform Analysis

Serial No: 5150 v3.67
Date: 05/19/2021 14:31:37
Event No: 6
Record Time: 15.0 s
Client: City of Miramar
Operation: White Rock Quarries
Location: 5276 sw 152 ave
Distance:
Operator: Roy A
Comment: In ground
Seismic Trigger: 0.050 in/s

USBM Safe Blasting Levels

SN: 5150 Event: 6



	Summary Data		
	L	T	V
PPV (in/s)	0.090	0.053	0.065
FREQ (Hz)	18.5	11.1	20.8
PD (.001")	1.95	1.18	2.08
PPA (g)	0.033	0.020	0.033
Peak Vector Sum :	0.095 in/s		
Peak Air Pressure:	105 db		
	0.00059 PSI @ 3.5 Hz		

Additional Info:

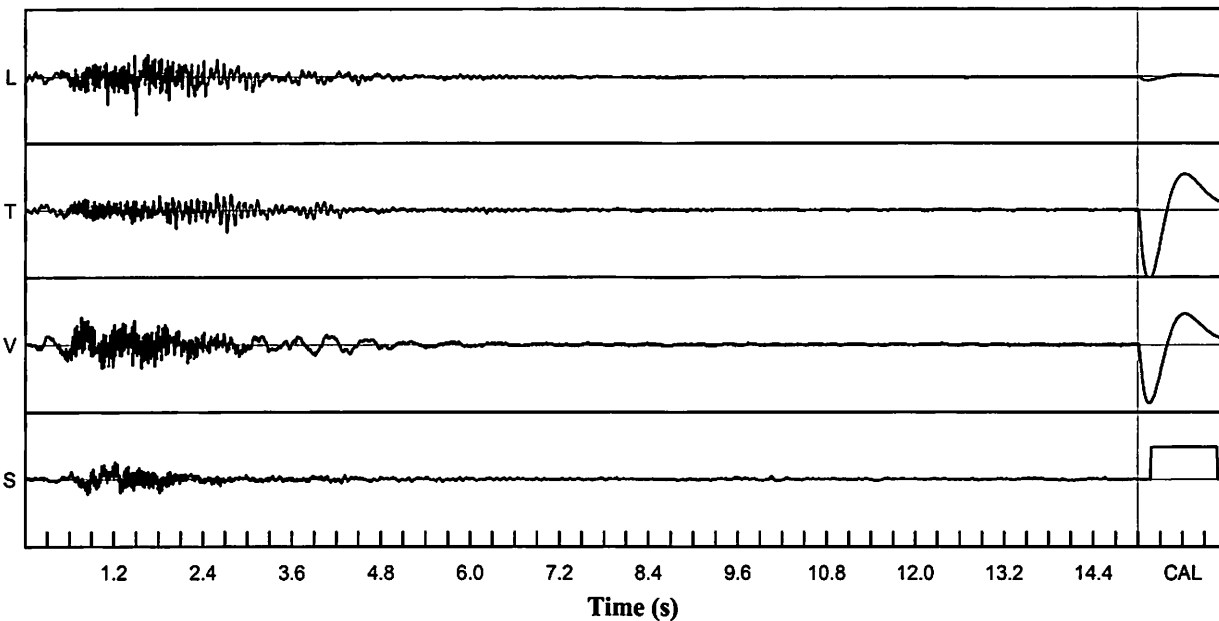
Shaketable Calibrated: 06/30/2020
By: GeoSonics Inc.
 359 Northgate Drive
 Warrendale, PA 15086 U.S.A.
 TEL: 724.934.2900 FAX: 724.934.2999

Velocity Waveform Graph Scale

Time Scale: 0.300 s
Seismic Scale: +/- 0.160 in/s
Sound Scale: +/- 0.0023 PSI

Velocity Waveform

SN: 5150 Event: 6



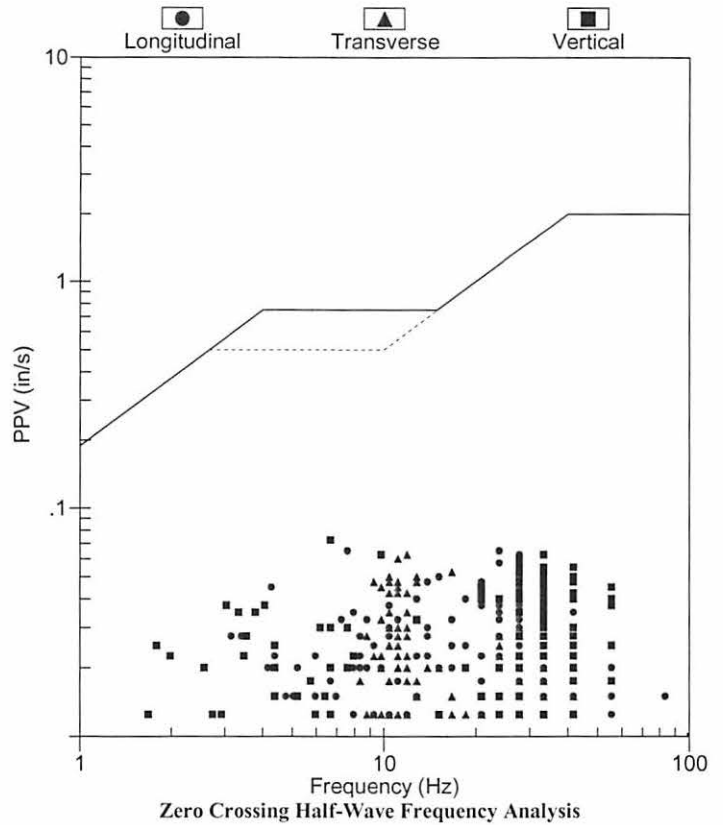
Seismic Analysis

Velocity Waveform Analysis

Serial No: 5148 v3.67
Date: 05/21/2021 13:00:53
Event No: 8
Record Time: 15.0 s
Client: City of Miramar
Operation: White Rock Quarries
Location: 5276 SW 152 Ave
Distance:
Operator: Roy A
Comment: In Ground
Seismic Trigger: 0.030 in/s

USBM Safe Blasting Levels

SN: 5148 Event: 8



	Summary Data		
	L	T	V
PPV (in/s)	0.065	0.063	0.073
FREQ (Hz)	7.6	11.9	6.7
PD (.001")	1.57	1.09	1.77
PPA (g)	0.026	0.026	0.039
Peak Vector Sum :	0.088 in/s		
Peak Air Pressure:	101 db		
	0.00046 PSI @ 33.3 Hz		

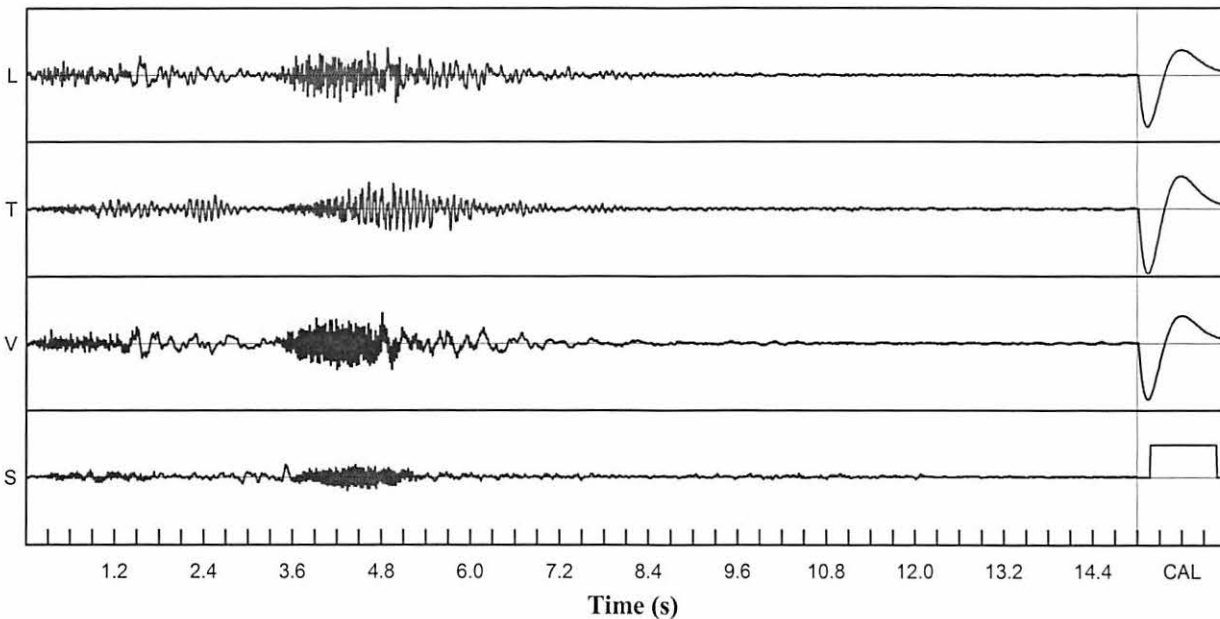
Additional Info:

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

Velocity Waveform Graph Scale
Time Scale: 0.300 s
Seismic Scale: +/- 0.160 in/s
Sound Scale: +/- 0.0023 PSI

Velocity Waveform

SN: 5148 Event: 8



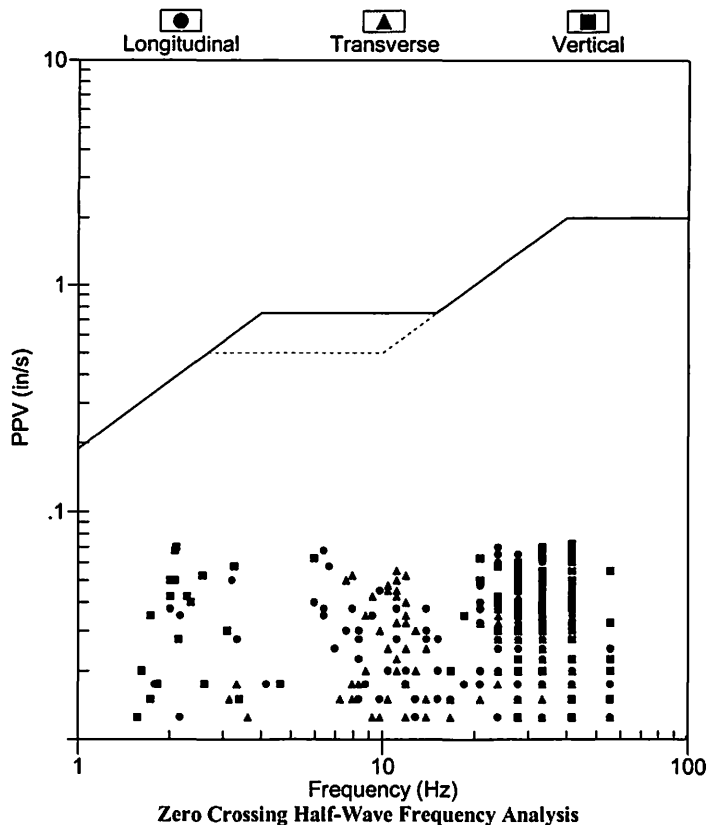
Seismic Analysis

Velocity Waveform Analysis

Serial No: 5148 v3.67
Date: 05/27/2021 13:01:17
Event No: 10
Record Time: 15.0 s
Client: City of Miramar
Operation: White Rock Quarries
Location: 5276 SW 152 Ave
Distance:
Operator: Roy A
Comment: In Ground
Seismic Trigger: 0.030 in/s

USBM Safe Blasting Levels

SN: 5148 Event: 10



	Summary Data		
	L	T	V
PPV (in/s)	0.070	0.055	0.073
FREQ (Hz)	23.8	11.1	41.7
PD (.001")	2.46	1.08	4.33
PPA (g)	0.033	0.020	0.046
Peak Vector Sum :	0.093 in/s		
Peak Air Pressure:	104 db		
	0.00053 PSI @ 6.7 Hz		

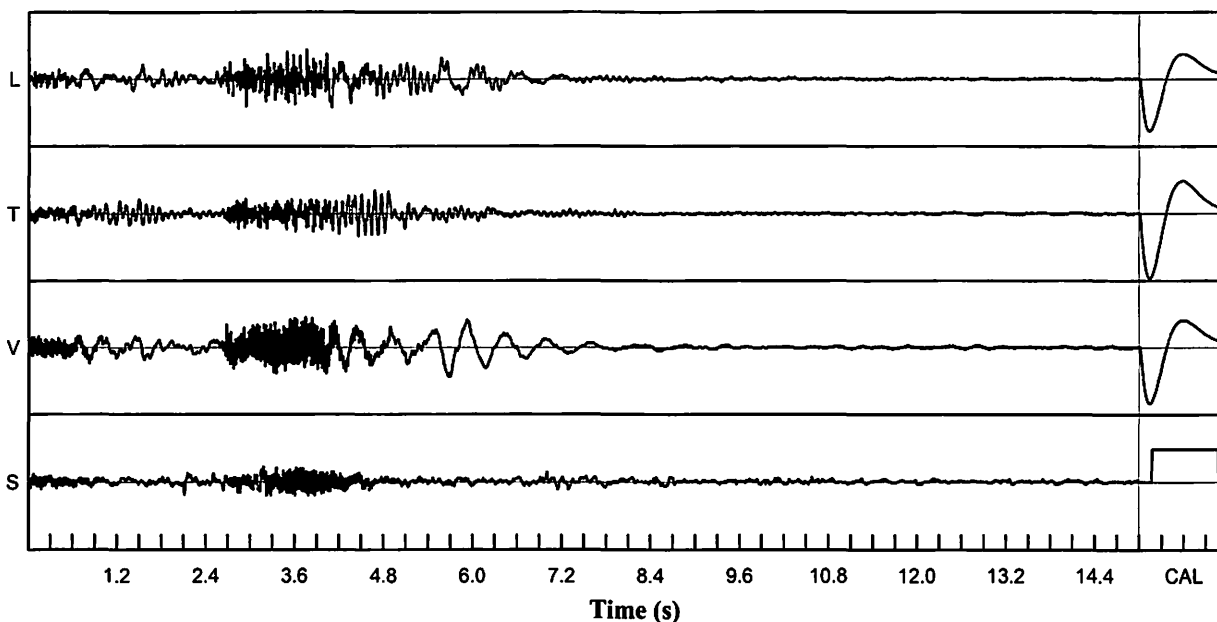
Additional Info:

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

Velocity Waveform Graph Scale
Time Scale: 0.300 s
Seismic Scale: +/- 0.160 in/s
Sound Scale: +/- 0.0023 PSI

Velocity Waveform

SN: 5148 Event: 10



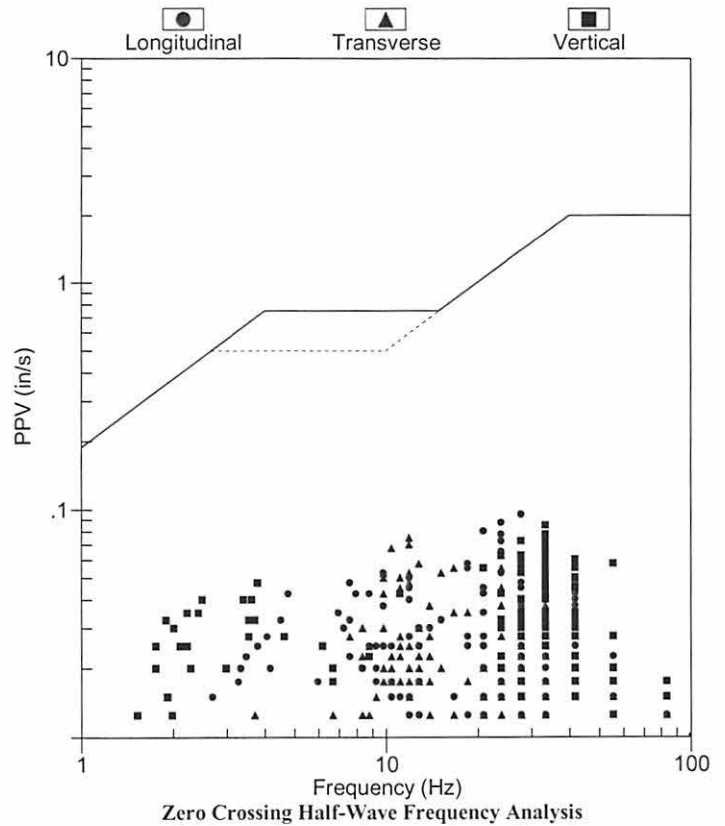
Seismic Analysis

Velocity Waveform Analysis

Serial No: 5148 v3.67
Date: 05/24/2021 13:01:04
Event No: 9
Record Time: 15.0 s
Client: City of Miramar
Operation: White Rock Quarries
Location: 5276 SW 152 Ave
Distance:
Operator: Roy A
Comment: In Ground
Seismic Trigger: 0.030 in/s

USBM Safe Blasting Levels

SN: 5148 Event: 9



	Summary Data		
	L	T	V
PPV (in/s)	0.095	0.075	0.085
FREQ (Hz)	27.8	11.9	33.3
PD (.001")	1.62	1.09	2.62
PPA (g)	0.046	0.026	0.052
Peak Vector Sum :	0.105 in/s		
Peak Air Pressure:	98 db		
	0.00039 PSI @ 23.8 Hz		

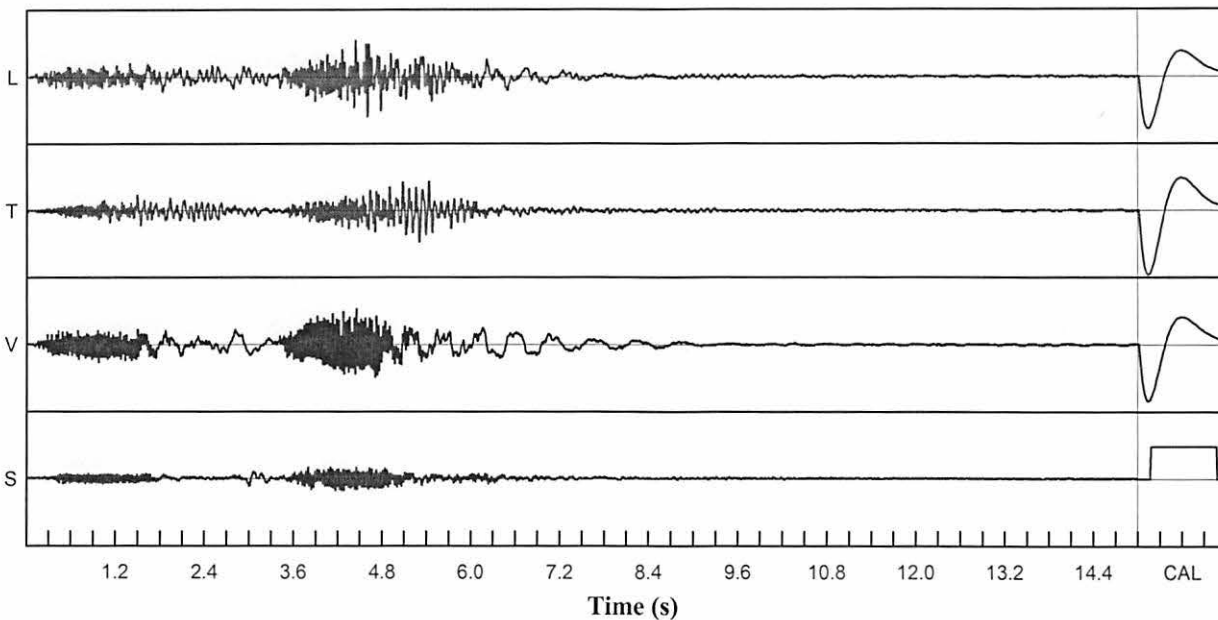
Additional Info:

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

Velocity Waveform Graph Scale
Time Scale: 0.300 s
Seismic Scale: +/- 0.160 in/s
Sound Scale: +/- 0.0023 PSI

Velocity Waveform

SN: 5148 Event: 9



Seismic Analysis

Velocity Waveform Analysis

Serial No: 5149 v3.67
Date: 07/08/2021 13:19:46
Event No: 1
Record Time: 5.0 s
Client:
Operation:
Location:
Distance:
Operator:
Comment:
Seismic Trigger: 0.050 in/s

USBM Safe Blasting Levels

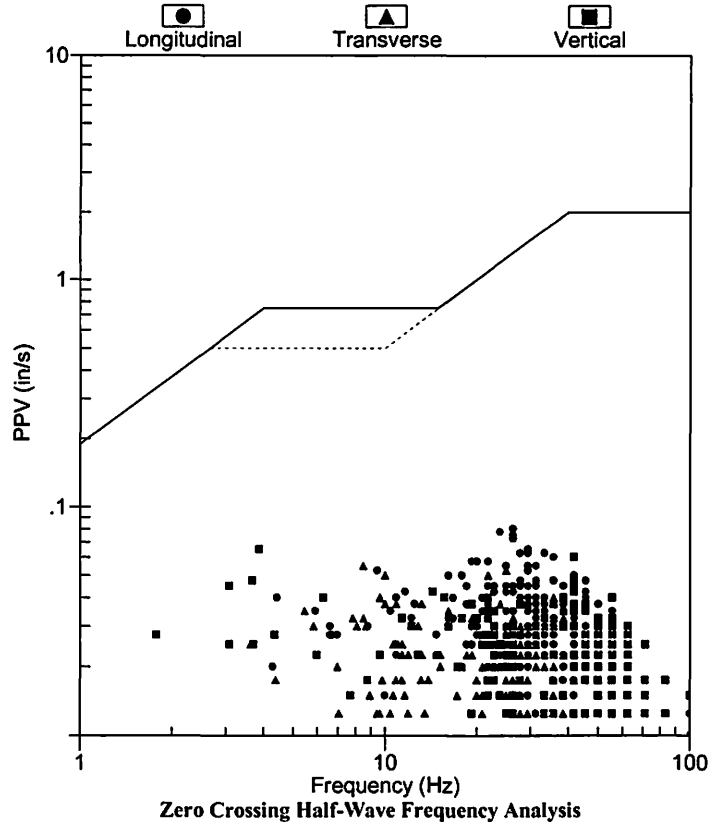
SN: 5149 Event: 1

	Summary Data		
	L	T	V
PPV (in/s)	0.080	0.055	0.065
FREQ (Hz)	26.3	8.5	3.9
PD (.001")	1.36	1.07	2.26
PPA (g)	0.046	0.033	0.039
Peak Vector Sum :	0.080 in/s		
Peak Air Pressure:	106 db		
	0.00066 PSI @ 6.7 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

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



Velocity Waveform

SN: 5149 Event: 1

