



A CRH COMPANY

FAX COVER SHEET

TILCON NEW YORK INC.
9 Entin Road
Parsippany, NJ 07054

TO: Ms. Iris Heredia

FROM: Daniel Naiman – Pompton Lakes Assistant Plant Manager

SUBJECT: Monthly Explosives Use Report

TELEPHONE: (973) 294-9299

DATE: 6/5/2023

TOTAL PAGES: 10 (Including Cover)

MESSAGE: Monthly explosives use report for Pompton Lakes Quarry

Month of May 2023

Monthly Explosives Use Report

NOTE: COMPLETE ALL APPLICABLE ENTRIES ON FRONT AND REVERSE SIDES OF THIS FORM. THE COMPLETED FORM IS TO BE MAILED TO THE OFFICE OF SAFETY COMPLIANCE WITHIN 10 DAYS AFTER THE END OF THE MONTH FOR WHICH THE REPORT IS DUE.

Name <u>Tilcon - Pompton Lakes Facility</u>	Phone No. <u>(973) 835-0028</u>
Street Address <u>Foot of Broad Street</u>	City <u>Pompton Lakes</u>
State <u>NJ</u>	Zip <u>07442</u>

MONTH AND YEAR OF REPORT May 2023	Explosives Lbs.	Detonator (Caps) No.	Gunpowder (Primer)	Other
Beginning Actual Count Inventory First of Month	-	-	-	
Purchases During the Month	134,545	922	-	
Total (Item 1 plus Item 2)	134,545	922	-	
Blasting Summary	134,545	922	-	
Miscellaneous Adjustments	-	-	-	
Month Ending Inventory on Hand by actual Count	-	-	-	
Name of Supplier :	DATE	INV. #		
Maine D&B	5/3/2023	146407	6,816	97
Maurer & Scott	5/4/2023	72089	6,365	152
Maine D&B	5/9/2023	72145	25,661	70
Maine D&B	5/9/2023	146696	5,461	95
Maurer & Scott	5/11/2023	146881	4,542	69
Maurer & Scott	5/17/2023	72317	52,900	164
Maurer & Scott	5/25/2023	72469	32,800	275
				-
				-
				-

TOTAL NUMBER OF BLASTS - 7

Comments:

MAIL TO OFFICE OF PUBLIC SAFETY COMPLIANCE, PO BOX 386, TRENTON, NEW JERSEY 08625-0386
 PHONE: (609) 292-2096 FAX: (609) 777-4589

Tilcon - Pompton Lakes Facility

 (LICENSEE SIGNATURE)


EXPLOSIVES USED IN BLASTING

Shots	Date	Time	Site Location	Name of Blaster	Permit #	High Explo. Lbs.	Caps or Det.	Max. lbs. Per Delay	Nearest Structure (Feet)	Seismic PPV and Frequency		Seismic D B Level	Type of Shot (Bank, Trench, Etc.)	
										Trans.	Vert.	Long.		
SHOT 87ER-23	5/3	1:00PM	Tilcon Pompton Lakes	John Currier	006140	6,816	97	425	417	PPV: .092 HZ: 26.6	.12	.1	119.1	Mass
SHOT 05-23	5/4	10:30AM	Tilcon Pompton Lakes	Kyle Boyer	6191	6,365	152	105	2,009	PPV: 0 HZ: 0	0	0	-	Mass
SHOT 7-23	5/9	10:15AM	Tilcon Pompton Lakes	Kyle Boyer	6191	25,661	70	721	2,260	PPV: .26 HZ: 25.0	.245	.155	123.5	Mass
SHOT 88ER-23	5/9	12:30PM	Tilcon Pompton Lakes	John Currier	006140	5,461	95	364	465	PPV: .298 HZ: 18.5	.224	.441	118.6	Mass
SHOT 89ER-23	5/11	11:06AM	Tilcon Pompton Lakes	John Currier	006140	4,542	69	255	502	PPV: .327 HZ: 27.7	.108	.202	116.7	Mass
SHOT 8-23	5/17	10:30AM	Tilcon Pompton Lakes	Kyle Boyer	6191	52,900	164	735	2,288	PPV: .11 HZ: 22.7	.1	.163	123.5	Mass
SHOT 9-23	5/25	10:30AM	Tilcon Pompton Lakes	Kyle Boyer	6191	32,800	275	292	2,113	PPV: 0.063 HZ: 41.7	.055	.058	120.0	Mass
SHOT										PPV:				
SHOT										HZ:				
SHOT										PPV:				
SHOT										HZ:				
SHOT										PPV:				
SHOT										HZ:				
SHOT										PPV:				
SHOT										HZ:				
SHOT										PPV:				
SHOT										HZ:				
SHOT										PPV:				
SHOT										HZ:				
TOTALS						134,545	922							

Barry Construction Site
 Road St
 Ton Lakes, New Jersey
 Mo At:
 cPherson Hall

Record: dz2sbg06.evt
 Number: 0006
 Seismograph: Mini-Seis III 7964
 Type of Record: Waveform
 Date: 5/3/2023 1:00:13 PM
 Duration: 4.25 Seconds
 Sample Rate: 4096
 Pre-Trigger: 0.25 Seconds
 Seismic Trigger: 0.055 in/s
 Acoustic Trigger: 116.1 dB
 Seismic Gain: 10.24
 Acoustic Gain: 148.2 dB
 Voltage: 6.32

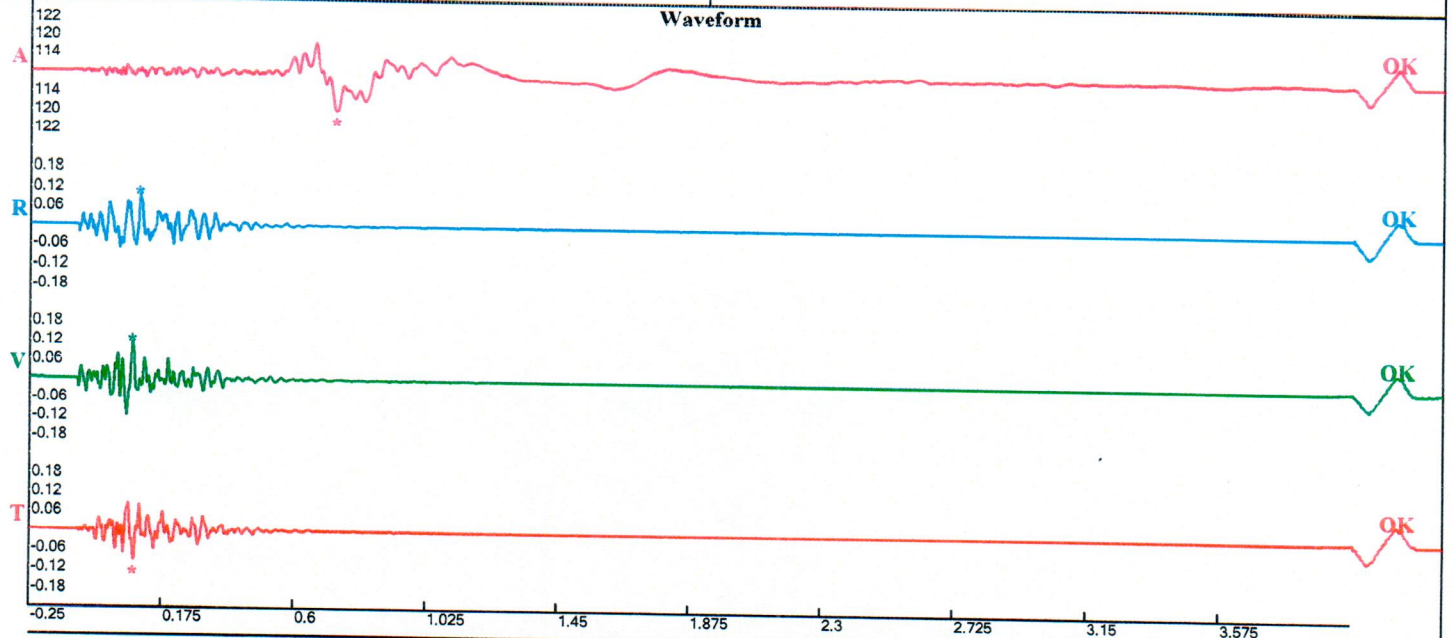
Peaks and Frequencies

PPV Maximum (Geo #1): 0.12 in/s
 Acoustic #1: 119.1 dB @ 3.1 Hz (0.7331543 s)
 Radial #1: 0.1 in/s @ 27.7 Hz (0.1022949 s)
 Vertical #1: 0.12 in/s @ 30.6 Hz (0.08032227 s)
 Transverse #1: 0.0922 in/s @ 26.6 Hz (0.0847168 s)
 Displacement (Geo #1): 0.000732 in
 Acceleration (Geo #1): 0.0961 g's
 Last Calibration Date: 4/7/2023

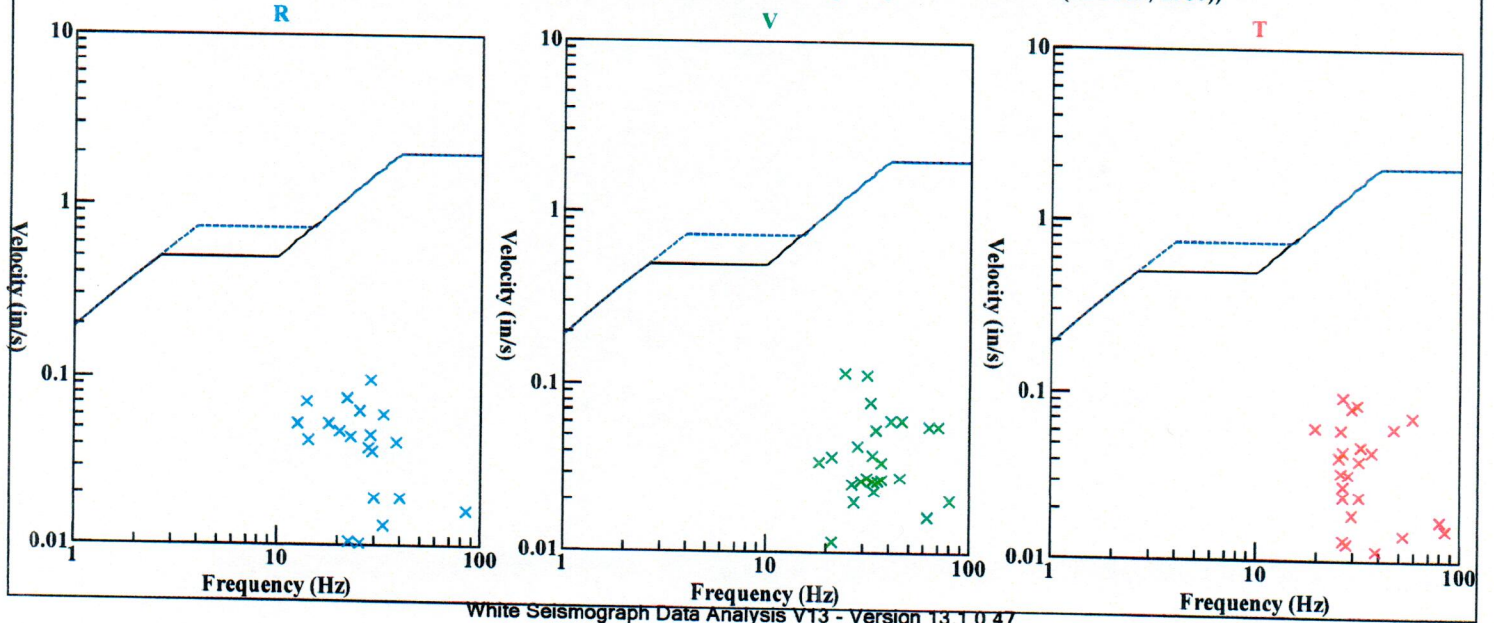
Graph Information

Time Range: -0.25 s to 4 s, Intervals: 0.4250 Seconds

Waveform



Velocity vs. Frequency (Particle Velocity Versus Frequency - USBM Limits (RI 8507, 1980))



Summary Data Report

Serial No: 5720 v3.85
Client: Tilcon
Operation: Pompton Lakes
Location: 120 Federal Hill
Distance: 2008
Operator: K Boyer
Comment: Maurer & Scott

Begin Date: 05/04/2023 10:27:42
End Date: 05/04/2023 10:32:05
Events over Trigger: 0 (22-21)
Record Time: 5.0 s
Seismic Trigger: 0.050 in/s
Sound Trigger: 120 db
Battery Level: 12.6

Additional Info:

Shaketable Calibrated: 02/21/2023
By: GeoSonics Inc.
359 Northgate Drive
Warrendale, PA 15086 U.S.A.
TEL: 724.934.2900 FAX: 724.934.2999

Seismic Analysis Velocity Waveform Analysis

Serial Number: 11248
Firmware Version: 0C-10.29
Event Date: 05/09/2023 10:15:05 (UTC -04:00)
Event number: 17
Recording Time: 10 s
Client: Tilcon NJ
Operation: Pompton Lakes Quarry
Location: 211 Hamburg Turnpike
Distance:
Operator: Vibra-Tech Engineers
Comment: 150
Seismic Trigger: 0.03 in/s
Sound Trigger: 123.5 dB

Additional Info:
 -of building
 j-GEO-19770
 N41 00.064, W074 18.899

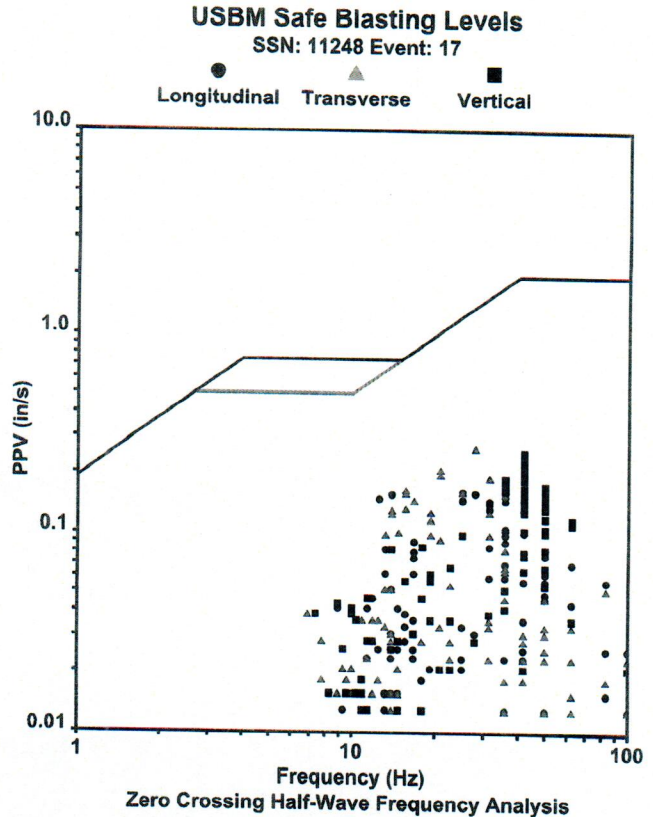
Summary Data

	L	T	V
PPV (in/s):	0.155	0.2575	0.245
FREQ (HZ):	25	25	41.7
PD (.001"):	1.26	1.788	1.183
PPA (g):	0.1042	0.1302	0.1693

Peak Vector Sum: 0.2825 in/s
Peak Air Pressure: 116.6 dB
 0.0019 psi @ 10.9 HZ

Shaketable Calibrated

On: 08/09/2022 (UTC -04:00)
By: Vibra-Tech, Inc.
 2700 Holloway Road - Suite 113
 Louisville, KY 40203 U.S.A.

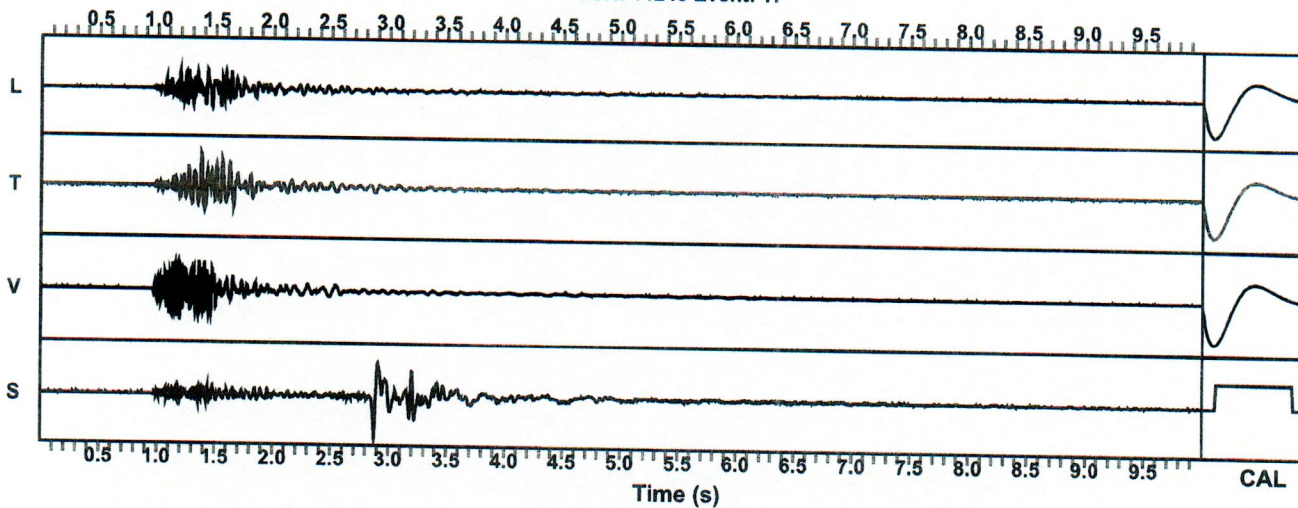


Waveform Graph Scale

Time Scale: 0.1 s
Seismic Scale: +/- 0.38625 in/s
Sound Scale: +/- 0.0023 psi

Velocity Waveform

SSN: 11248 Event: 17



...y Construction Site
 ... Broad St.
 Pompton Lakes, NJ.
 Seismo At-
 Elks Moore
 Cantoli Hall

Record: 10082202305091230560015.procv
 Number: 15
 Seismograph: Mini-Seis III Pro 10082
 Type of Record: Waveform
 Date: 5/9/2023 12:30:56 PM
 Duration: 4.25 Seconds
 Sample Rate: 4096
 Pre-Trigger: 0.25 Seconds
 Seismic Trigger: 0.04 in/s
 Acoustic Trigger: 110.2 dB
 Seismic Gain: 10.24
 Acoustic Gain: 148.2 dB
 Voltage: 6.39

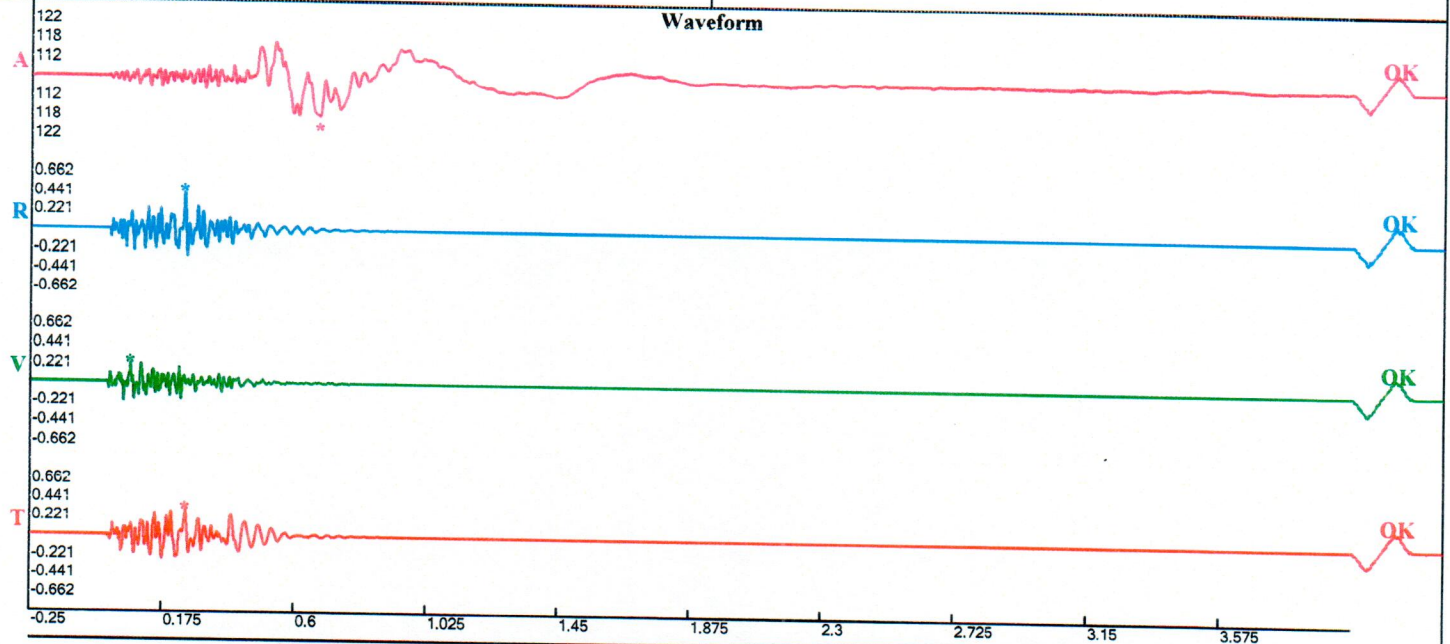
Peaks and Frequencies

PPV Maximum (Geo #1): 0.441 in/s
 Acoustic #1: 118.6 dB @ 3.7 Hz (0.675293 s)
 Radial #1: 0.441 in/s @ 40.2 Hz (0.2431641 s)
 Vertical #1: 0.224 in/s @ 41.8 Hz (0.07128906 s)
 Transverse #1: 0.298 in/s @ 18.5 Hz (0.2497559 s)
 Displacement (Geo #1): 0.00175 in
 Acceleration (Geo #1): 0.368 g's
 Last Calibration Date: 6/3/2022

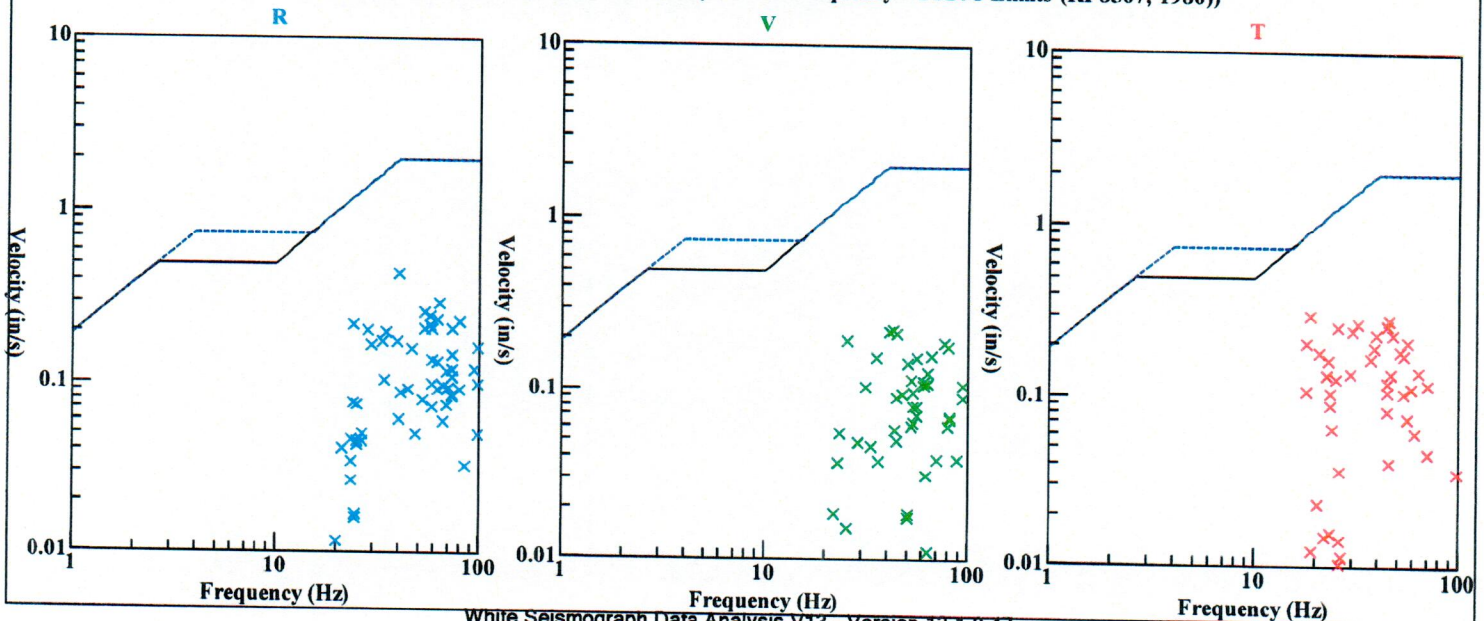
Graph Information

Time Range: -0.25 s to 4 s, Intervals: 0.4250 Seconds

Waveform



Velocity vs. Frequency (Particle Velocity Versus Frequency - USBM Limits (RI 8507, 1980))



Construction Site
 Broad St.
 Pompton Lakes, NJ.
 Seismo At-
 Elks Moore
 Cantoli Hall

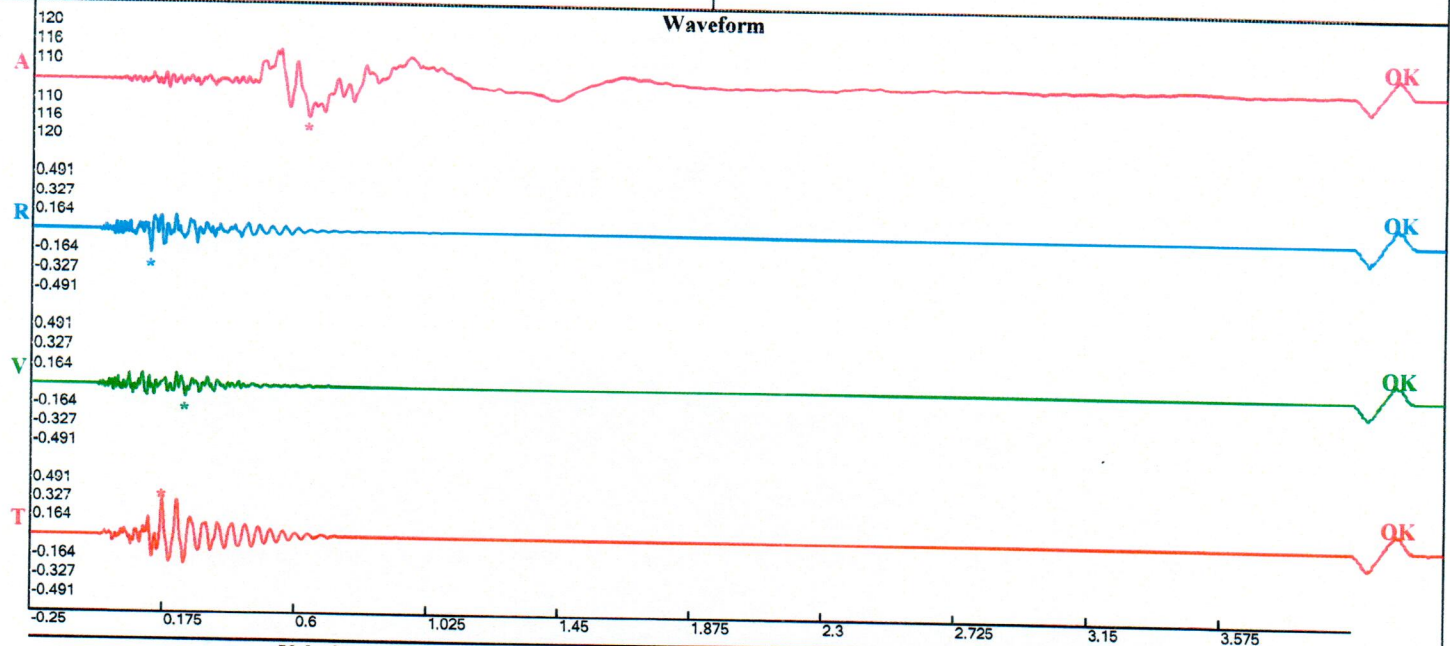
Record: 10082202305111106020016.procv
 Number: 16
 Seismograph: Mini-Seis III Pro 10082
 Type of Record: Waveform
 Date: 5/11/2023 11:06:02 AM
 Duration: 4.25 Seconds
 Sample Rate: 4096
 Pre-Trigger: 0.25 Seconds
 Seismic Trigger: 0.04 in/s
 Acoustic Trigger: 110.2 dB
 Seismic Gain: 10.24
 Acoustic Gain: 148.2 dB
 Voltage: 6.41

Peaks and Frequencies

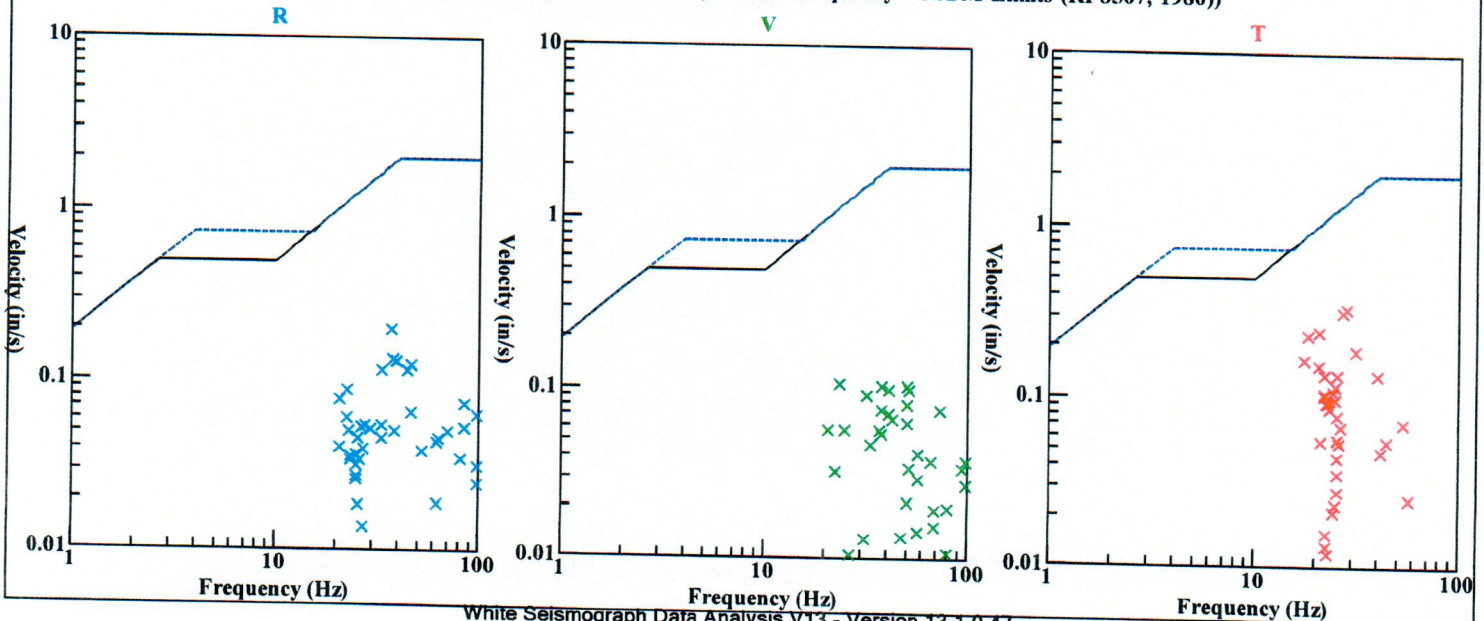
PPV Maximum (Geo #1): 0.327 in/s
 Acoustic #1: 116.7 dB @ 4.3 Hz (0.6376953 s)
 Radial #1: 0.202 in/s @ 37.2 Hz (0.1306152 s)
 Vertical #1: 0.108 in/s @ 23.3 Hz (0.2453613 s)
 Transverse #1: 0.327 in/s @ 27.7 Hz (0.1723633 s)
 Displacement (Geo #1): 0.00173 in
 Acceleration (Geo #1): 0.174 g's
 Last Calibration Date: 6/3/2022

Graph Information

Time Range: -0.25 s to 4 s, Intervals: 0.4250 Seconds



Velocity vs. Frequency (Particle Velocity Versus Frequency - USBM Limits (RI 8507, 1980))



Seismic Analysis Velocity Waveform Analysis

Serial Number: 11248
Firmware Version: 0C-10.29
Event Date: 05/17/2023 10:30:05 (UTC -04:00)
Event number: 19
Recording Time: 10 s
Client: Tilcon NJ
Operation: Pompton Lakes Quarry
Location: 211 Hamburg Turnpike
Distance:
Operator: Vibra-Tech Engineers
Comment: 150
Seismic Trigger: 0.03 in/s
Sound Trigger: 123.5 dB

Additional Info:
 -of building
 j-GEO-19770
 N41 00.064, W074 18.899

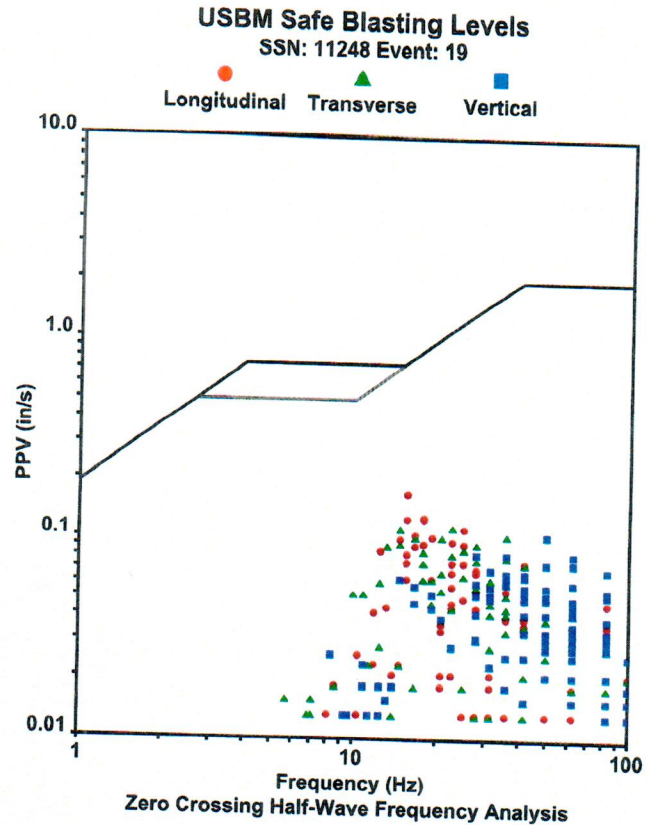
Summary Data

	L	T	V
PPV (in/s):	0.1625	0.11	0.1
FREQ (HZ):	15.6	22.7	50
PD (.001"):	1.115	1.22	0.71
PPA (g):	0.07812	0.0651	0.09115

Peak Vector Sum: 0.1675 in/s
Peak Air Pressure: 112 dB
 0.0011 psi @ 7.4 HZ

Shaketable Calibrated

On: 08/09/2022 (UTC -04:00)
By: Vibra-Tech, Inc.
 2700 Holloway Road - Suite 113
 Louisville, KY 40203 U.S.A.

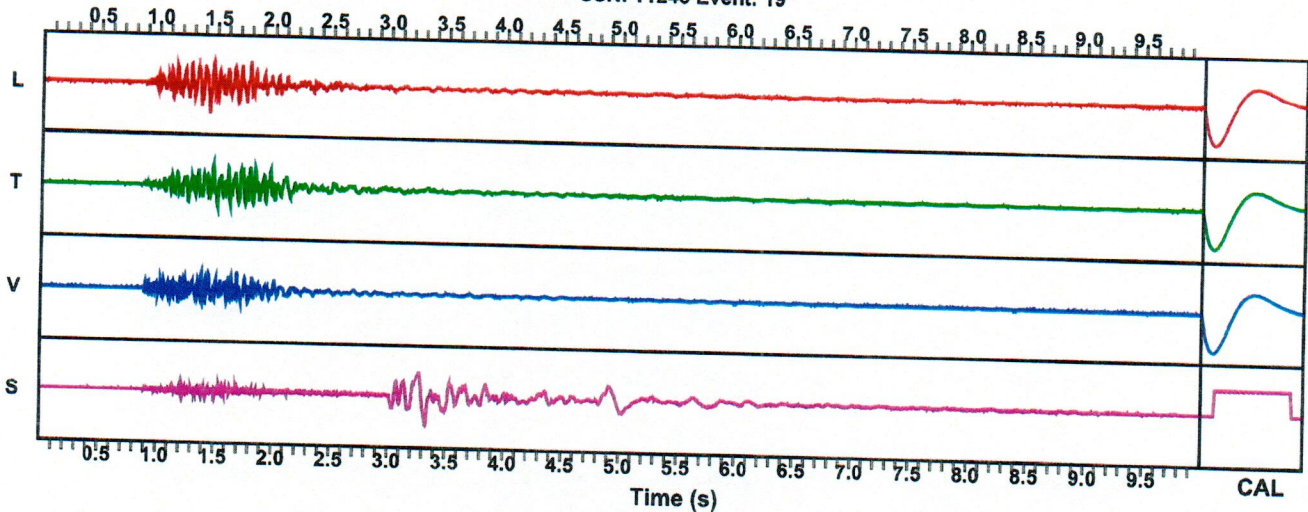


Waveform Graph Scale

Time Scale: 0.1 s
Seismic Scale: +/- 0.24375 in/s
Sound Scale: +/- 0.0023 psi

Velocity Waveform

SSN: 11248 Event: 19



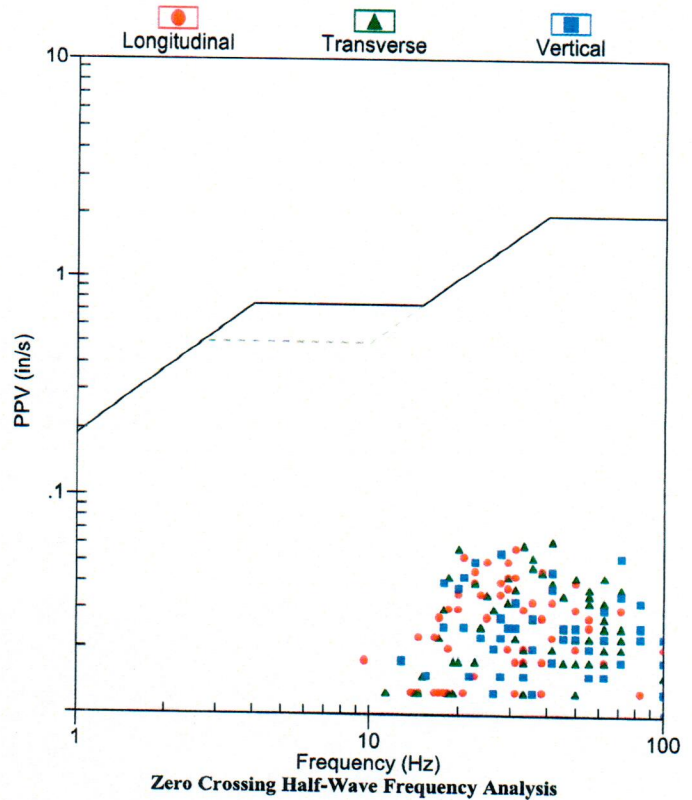
GeoSonics Inc. Seismic Analysis

Velocity Waveform Analysis

Serial No: 5720 v3.85
Date: 05/25/2023 10:30:13
Event No: 27
Record Time: 5.0 s
Client: Tilcon
Operation: Pompton Lakes
Location: 120 Federal Hill
Distance: 2112
Operator: K Boyer
Comment: Maurer & Scott
Seismic Trigger: 0.020 in/s
Sound Trigger: 120 db

USBM Safe Blasting Levels

SN: 5720 Event: 27



	Summary Data		
	L	T	V
PPV (in/s)	0.058	0.063	0.055
FREQ (Hz)	31.3	41.7	27.8
PD (.001")	0.41	0.43	0.36
PPA (g)	0.039	0.052	0.065
Peak Vector Sum :	0.070 in/s		
Peak Air Pressure:	109 db		
	0.00096 PSI @ 1.9 Hz		

Additional Info:

Shaketable Calibrated: 02/21/2023
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: 5720 Event: 27

