



## Illinois Department of Natural Resources

One Natural Resources Way Springfield, Illinois 62702-1271  
www.dnr.illinois.gov



Bruce Ratner, Governor

Wayne A. Rosenthal, Director

May 5, 2018

Village of Manteno

Attn: Ms. Janice Schulteis

98 East Third Street

Manteno, Illinois 60950

Dear Ms. Schulteis:

On 05/24/16 the Illinois Department of Natural Resources installed a blasting seismograph on property located at the Mr. ██████████ residence at ██████████, Manteno, Illinois. Enclosed, please find a copy of the seismographic data obtained at the Hanley location. This data includes blasting events occurring at the VCNA Prairie, LLC – North Central Materials quarry from 01/26/18 through 04/19/18.

The first page(s) of digital information is a summary of all events recorded by the seismograph, including both blasting and non-blasting events. All subsequent pages are copies of the waveform analysis of the recorded events determined to be blast induced vibrations. The analysis of the waveforms indicate compliance with the regulatory limits established to prevent damage to protected structures.

Looking at the waveform analysis, four (4) channels of information are displayed. The first channel is the acoustic or airblast waveform. The regulatory airblast limit is 133 decibels (dB). The next three channels are the ground vibrations waveforms, measured in three (3) mutually perpendicular directions (Radial, Vertical and Transverse). The regulatory ground vibration limit is 1.0 inch per second (ips) for all three (3) directions of motion. If you have any questions concerning this seismograph information, please contact myself at (815) 216-2361 (cell).

Sincerely,

Myron L. McCaskey – Blasting Specialist

Explosives and Aggregate Division

Office of Mines and Minerals

Enclosure

cc. M.McCaskey

**Illinois Department of Natural Resources**  
**Office of Mines and Minerals**  
**Explosives and Aggregate Division**  
**VCNA Prairie Inc. - North Central Quarry**  
XXXXXXXXXX Property *Man 82*

Record Name	Date	Peak (ips)	Acoustic (dB)	Radial (ips)	Vertical (ips)	Transverse (ips)	Serial	Seismic Trigger (ips)	Battery
Number	Time	Hz	Hz	Hz	Hz	Hz	Number	Acoustic Trigger dB	Gain
*c:\myron\seismograph...\146820180126001.dtb 001	1/26/2018 15:18	0.4900 0.0	134 0.0	0.4900 0.0	0.4850 0.0	0.4850 0.0	1468	0.0800 131	7.0 x4
c:\myron\seismograph...\146820180126002.dtb 002	1/26/2018 16:16	0.0000 0.0	131 8.3	0.0000 0.0	0.0000 0.0	0.0000 0.0	1468	0.0800 131	7.0 x4
c:\myron\seismograph...\146820180126003.dtb 003	1/26/2018 16:47	0.0000 0.0	136 7.8	0.0000 0.0	0.0000 0.0	0.0000 0.0	1468	0.0800 131	7.1 x4
c:\myron\seismograph...\146820180126004.dtb 004	1/26/2018 17:45	0.0000 0.0	133 9.8	0.0000 0.0	0.0000 0.0	0.0000 0.0	1468	0.0800 131	7.2 x4
c:\myron\seismograph...\146820180126005.dtb 005	1/26/2018 18:13	0.0000 0.0	132 11.3	0.0000 0.0	0.0000 0.0	0.0000 0.0	1468	0.0800 131	7.2 x4
c:\myron\seismograph...\146820180126006.dtb 006	1/26/2018 18:48	0.0000 0.0	131 46.5	0.0000 0.0	0.0000 0.0	0.0000 0.0	1468	0.0800 131	7.2 x4
c:\myron\seismograph...\146820180126007.dtb 007	1/26/2018 19:12	0.0000 0.0	137 16.0	0.0000 0.0	0.0000 0.0	0.0000 0.0	1468	0.0800 131	7.2 x4
c:\myron\seismograph...\146820180126008.dtb 008	1/26/2018 19:44	0.0000 0.0	136 17.0	0.0000 0.0	0.0000 0.0	0.0000 0.0	1468	0.0800 131	7.2 x4
c:\myron\seismograph...\146820180126009.dtb 009	1/26/2018 20:32	0.0000 0.0	134 9.8	0.0000 0.0	0.0000 0.0	0.0000 0.0	1468	0.0800 131	7.2 x4
c:\myron\seismograph...\146820180126010.dtb 010	1/26/2018 20:59	0.0000 0.0	135 10.2	0.0000 0.0	0.0000 0.0	0.0000 0.0	1468	0.0800 131	7.2 x4
c:\myron\seismograph...\146820180126011.dtb 011	1/26/2018 21:34	0.0000 0.0	132 36.5	0.0000 0.0	0.0000 0.0	0.0000 0.0	1468	0.0800 131	7.2 x4
c:\myron\seismograph...\146820180126012.dtb 012	1/26/2018 21:51	0.0000 0.0	133 12.8	0.0000 0.0	0.0000 0.0	0.0000 0.0	1468	0.0800 131	7.2 x4
c:\myron\seismograph...\146820180126013.dtb 013	1/26/2018 22:01	0.0000 0.0	135 6.5	0.0000 0.0	0.0000 0.0	0.0000 0.0	1468	0.0800 131	7.2 x4
c:\myron\seismograph...\146820180126014.dtb 014	1/26/2018 22:05	0.0000 0.0	135 17.6	0.0000 0.0	0.0000 0.0	0.0000 0.0	1468	0.0800 131	7.2 x4
c:\myron\seismograph...\146820180126015.dtb 015	1/26/2018 22:27	0.0000 0.0	135 10.6	0.0000 0.0	0.0000 0.0	0.0000 0.0	1468	0.0800 131	7.2 x4

\* Denotes a calibration event.

**Illinois Department of Natural Resources  
Office of Mines and Minerals  
Explosives and Aggregate Division  
VCNA Prairie Inc. - North Central Quarry  
[REDACTED] Property**

Record Name	Date	Peak (ips)	Acoustic (dB)	Radial (ips)	Vertical (ips)	Transverse (ips)	Seismic Trigger (ips)	Battery	
Number	Time	Hz	Hz	Hz	Hz	Hz	Serial Number	Acoustic Trigger dB	Gain
c:\myron\seismograph...\146820180126016.dtb 016	1/26/2018 22:33	0.0000 0.0	135 21.3	0.0000 0.0	0.0000 0.0	0.0000 0.0	1468	0.0800 131	7.2 x4
c:\myron\seismograph...\146820180126017.dtb 017	1/26/2018 22:42	0.0000 0.0	136 17.6	0.0000 0.0	0.0000 0.0	0.0000 0.0	1468	0.0800 131	7.2 x4
c:\myron\seismograph...\146820180126018.dtb 018	1/26/2018 22:52	0.0000 0.0	132 14.6	0.0000 0.0	0.0000 0.0	0.0000 0.0	1468	0.0800 131	7.2 x4
c:\myron\seismograph...\146820180126019.dtb 019	1/26/2018 23:31	0.0000 0.0	136 12.8	0.0000 0.0	0.0000 0.0	0.0000 0.0	1468	0.0800 131	7.2 x4
c:\myron\seismograph...\146820180127020.dtb 020	1/27/2018 02:09	0.0000 0.0	132 20.4	0.0000 0.0	0.0000 0.0	0.0000 0.0	1468	0.0800 131	7.2 x4
*c:\myron\seismograph...\146820180130021.dtb 021	1/30/2018 14:11	0.4900 0.0	134 0.0	0.4900 0.0	0.4850 0.0	0.4850 0.0	1468	0.0800 131	7.2 x4
*c:\myron\seismograph...\146820180203022.dtb 022	2/3/2018 02:12	0.4900 0.0	134 0.0	0.4900 0.0	0.4800 0.0	0.4850 0.0	1468	0.0800 131	7.2 x4
*c:\myron\seismograph...\146820180206023.dtb 023	2/6/2018 14:13	0.4850 0.0	134 0.0	0.4850 0.0	0.4800 0.0	0.4850 0.0	1468	0.0800 131	7.4 x4
*c:\myron\seismograph...\146820180210024.dtb 024	2/10/2018 02:14	0.4900 0.0	134 0.0	0.4900 0.0	0.4850 0.0	0.4900 0.0	1468	0.0800 131	7.3 x4
*c:\myron\seismograph...\146820180213025.dtb 025	2/13/2018 14:15	0.4850 0.0	134 0.0	0.4850 0.0	0.4800 0.0	0.4850 0.0	1468	0.0800 131	7.3 x4
*c:\myron\seismograph...\146820180217026.dtb 026	2/17/2018 02:16	0.4900 0.0	134 0.0	0.4900 0.0	0.4800 0.0	0.4900 0.0	1468	0.0800 131	7.3 x4
c:\myron\seismograph...\146820180220027.dtb 027	2/20/2018 06:09	0.0000 0.0	136 10.8	0.0000 0.0	0.0000 0.0	0.0000 0.0	1468	0.0800 131	7.4 x4
c:\myron\seismograph...\146820180220028.dtb 028	2/20/2018 10:36	0.0000 0.0	137 24.3	0.0000 0.0	0.0000 0.0	0.0000 0.0	1468	0.0800 131	7.1 x4
c:\myron\seismograph...\146820180220029.dtb 029	2/20/2018 11:39	0.0000 0.0	132 19.6	0.0000 0.0	0.0000 0.0	0.0000 0.0	1468	0.0800 131	7.1 x4
c:\myron\seismograph...\146820180220030.dtb 030	2/20/2018 11:49	0.0000 0.0	135 13.1	0.0000 0.0	0.0000 0.0	0.0000 0.0	1468	0.0800 131	7.1 x4

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Office of Mines and Minerals  
Explosives and Aggregate Division  
VCNA Prairie Inc. - North Central Quarry  
[REDACTED] Property**

Record Name	Date	Peak (ips)	Acoustic (dB)	Radial (ips)	Vertical (ips)	Transverse (ips)	Seismic Trigger (ips)	Battery	
Number	Time	Hz	Hz	Hz	Hz	Hz	Serial Number	Acoustic Trigger dB	Gain
c:\myron\seismograph...\146820180220031.dtb 031	2/20/2018 12:09	0.0000 0.0	132 34.1	0.0000 0.0	0.0000 0.0	0.0000 0.0	1468	0.0800 131	7.1 x4
c:\myron\seismograph...\146820180220032.dtb 032	2/20/2018 12:16	0.0000 0.0	132 20.4	0.0000 0.0	0.0000 0.0	0.0000 0.0	1468	0.0800 131	7.1 x4
c:\myron\seismograph...\146820180220033.dtb 033	2/20/2018 12:34	0.0000 0.0	132 51.2	0.0000 0.0	0.0000 0.0	0.0000 0.0	1468	0.0800 131	7.1 x4
c:\myron\seismograph...\146820180220034.dtb 034	2/20/2018 12:35	0.0000 0.0	131 36.5	0.0000 0.0	0.0000 0.0	0.0000 0.0	1468	0.0800 131	7.1 x4
c:\myron\seismograph...\146820180220035.dtb 035	2/20/2018 12:58	0.0000 0.0	133 39.3	0.0000 0.0	0.0000 0.0	0.0000 0.0	1468	0.0800 131	7.1 x4
c:\myron\seismograph...\146820180220036.dtb 036	2/20/2018 13:21	0.0000 0.0	131 56.8	0.0000 0.0	0.0000 0.0	0.0000 0.0	1468	0.0800 131	7.1 x4
c:\myron\seismograph...\146820180220037.dtb 037	2/20/2018 13:23	0.0000 0.0	132 22.2	0.0000 0.0	0.0000 0.0	0.0000 0.0	1468	0.0800 131	7.1 x4
c:\myron\seismograph...\146820180220038.dtb 038	2/20/2018 13:23	0.0000 0.0	134 9.8	0.0000 0.0	0.0000 0.0	0.0000 0.0	1468	0.0800 131	7.1 x4
c:\myron\seismograph...\146820180220039.dtb 039	2/20/2018 13:27	0.0000 0.0	132 34.1	0.0000 0.0	0.0000 0.0	0.0000 0.0	1468	0.0800 131	7.1 x4
c:\myron\seismograph...\146820180220040.dtb 040	2/20/2018 13:28	0.0000 0.0	134 10.6	0.0000 0.0	0.0000 0.0	0.0000 0.0	1468	0.0800 131	7.1 x4
c:\myron\seismograph...\146820180220041.dtb 041	2/20/2018 13:32	0.0050 0.0	132 5.9	0.0050 0.0	0.0000 0.0	0.0000 0.0	1468	0.0800 131	7.1 x4
c:\myron\seismograph...\146820180220042.dtb 042	2/20/2018 13:33	0.0000 0.0	132 39.3	0.0000 0.0	0.0000 0.0	0.0000 0.0	1468	0.0800 131	7.1 x4
c:\myron\seismograph...\146820180220043.dtb 043	2/20/2018 13:34	0.0000 0.0	131 32.0	0.0000 0.0	0.0000 0.0	0.0000 0.0	1468	0.0800 131	7.1 x4
c:\myron\seismograph...\146820180220044.dtb 044	2/20/2018 13:36	0.0000 0.0	131 8.5	0.0000 0.0	0.0000 0.0	0.0000 0.0	1468	0.0800 131	7.1 x4
c:\myron\seismograph...\146820180220045.dtb 045	2/20/2018 13:37	0.0000 0.0	132 30.1	0.0000 0.0	0.0000 0.0	0.0000 0.0	1468	0.0800 131	7.1 x4

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Record Name	Date	Peak (ips)	Acoustic (dB)	Radial (ips)	Vertical (ips)	Transverse (ips)	Serial Number	Seismic Trigger (ips)	Battery
Number	Time	Hz	Hz	Hz	Hz	Hz	Number	Acoustic Trigger dB	Gain
c:\myron\seismograph...\146820180220046.dtb 046	2/20/2018 13:42	0.0000 0.0	133 46.5	0.0000 0.0	0.0000 0.0	0.0000 0.0	1468	0.0800 131	7.1 x4
c:\myron\seismograph...\146820180220047.dtb 047	2/20/2018 13:44	0.0000 0.0	133 6.0	0.0000 0.0	0.0000 0.0	0.0000 0.0	1468	0.0800 131	7.1 x4
c:\myron\seismograph...\146820180220048.dtb 048	2/20/2018 13:45	0.0000 0.0	131 32.0	0.0000 0.0	0.0000 0.0	0.0000 0.0	1468	0.0800 131	7.1 x4
c:\myron\seismograph...\146820180220049.dtb 049	2/20/2018 13:47	0.0000 0.0	132 17.6	0.0000 0.0	0.0000 0.0	0.0000 0.0	1468	0.0800 131	7.1 x4
c:\myron\seismograph...\146820180220050.dtb 050	2/20/2018 13:58	0.0000 0.0	133 51.2	0.0000 0.0	0.0000 0.0	0.0000 0.0	1468	0.0800 131	7.1 x4
*c:\myron\seismograph...\146820180224051.dtb 051	2/24/2018 02:00	0.4900 0.0	134 0.0	0.4900 0.0	0.4900 0.0	0.4900 0.0	1468	0.0800 131	7.1 x4
c:\myron\seismograph...\146820180224052.dtb 052	2/24/2018 23:57	0.0050 0.0	136 42.6	0.0050 0.0	0.0000 0.0	0.0000 0.0	1468	0.0800 131	7.3 x4
c:\myron\seismograph...\146820180225053.dtb 053	2/25/2018 00:01	0.0050 0.0	135 17.6	0.0050 0.0	0.0000 0.0	0.0000 0.0	1468	0.0800 131	7.2 x4
c:\myron\seismograph...\146820180225054.dtb 054	2/25/2018 00:45	0.0000 0.0	132 15.0	0.0000 0.0	0.0000 0.0	0.0000 0.0	1468	0.0800 131	7.2 x4
c:\myron\seismograph...\146820180225055.dtb 055	2/25/2018 01:42	0.0000 0.0	132 24.3	0.0000 0.0	0.0000 0.0	0.0000 0.0	1468	0.0800 131	7.2 x4
c:\myron\seismograph...\146820180225056.dtb 056	2/25/2018 02:00	0.0000 0.0	134 11.9	0.0000 0.0	0.0000 0.0	0.0000 0.0	1468	0.0800 131	7.2 x4
c:\myron\seismograph...\146820180225057.dtb 057	2/25/2018 02:05	0.0000 0.0	132 30.1	0.0000 0.0	0.0000 0.0	0.0000 0.0	1468	0.0800 131	7.2 x4
c:\myron\seismograph...\146820180225058.dtb 058	2/25/2018 02:07	0.0000 0.0	136 26.9	0.0000 0.0	0.0000 0.0	0.0000 0.0	1468	0.0800 131	7.2 x4
c:\myron\seismograph...\146820180225059.dtb 059	2/25/2018 02:17	0.0000 0.0	132 17.6	0.0000 0.0	0.0000 0.0	0.0000 0.0	1468	0.0800 131	7.2 x4
c:\myron\seismograph...\146820180225060.dtb 060	2/25/2018 02:47	0.0050 0.0	136 10.8	0.0050 0.0	0.0000 0.0	0.0000 0.0	1468	0.0800 131	7.2 x4

\* Denotes a calibration event.

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**VCNA Prairie Inc. - North Central Quarry**  
XXXXXXXXXX **Property**

Record Name	Date	Peak (ips)	Acoustic (dB)	Radial (ips)	Vertical (ips)	Transverse (ips)	Seismic Trigger (ips)	Battery	
Number	Time	Hz	Hz	Hz	Hz	Hz	Serial Number	Acoustic Trigger dB	Gain
c:\myron\seismograph...\146820180225061.dtb 061	2/25/2018 03:44	0.0000 0.0	135 15.0	0.0000 0.0	0.0000 0.0	0.0000 0.0	1468	0.0800 131	7.2 x4
c:\myron\seismograph...\146820180225062.dtb 062	2/25/2018 03:47	0.0000 0.0	131 24.3	0.0000 0.0	0.0000 0.0	0.0000 0.0	1468	0.0800 131	7.2 x4
c:\myron\seismograph...\146820180225063.dtb 063	2/25/2018 03:48	0.0000 0.0	136 39.3	0.0000 0.0	0.0000 0.0	0.0000 0.0	1468	0.0800 131	7.2 x4
c:\myron\seismograph...\146820180225064.dtb 064	2/25/2018 05:03	0.0000 0.0	133 13.1	0.0000 0.0	0.0000 0.0	0.0000 0.0	1468	0.0800 131	7.2 x4
c:\myron\seismograph...\146820180227065.dtb 065	2/27/2018 14:06	0.0000 0.0	136 12.8	0.0000 0.0	0.0000 0.0	0.0000 0.0	1468	0.0800 131	7.2 x4
*c:\myron\seismograph...\146820180303066.dtb 066	3/3/2018 02:07	0.4900 0.0	134 0.0	0.4900 0.0	0.4850 0.0	0.4900 0.0	1468	0.0800 131	7.1 x4
*c:\myron\seismograph...\146820180306067.dtb 067	3/6/2018 14:08	0.4900 0.0	134 0.0	0.4900 0.0	0.4850 0.0	0.4900 0.0	1468	0.0800 131	7.3 x4
*c:\myron\seismograph...\146820180310068.dtb 068	3/10/2018 02:09	0.4950 0.0	134 0.0	0.4900 0.0	0.4850 0.0	0.4950 0.0	1468	0.0800 131	7.2 x4
*c:\myron\seismograph...\146820180313069.dtb 069	3/13/2018 14:10	0.4900 0.0	134 0.0	0.4900 0.0	0.4850 0.0	0.4900 0.0	1468	0.0800 131	7.4 x4
*c:\myron\seismograph...\146820180317070.dtb 070	3/17/2018 02:11	0.4950 0.0	134 0.0	0.4900 0.0	0.4850 0.0	0.4950 0.0	1468	0.0800 131	7.2 x4
*c:\myron\seismograph...\146820180320071.dtb 071	3/20/2018 14:12	0.4950 0.0	134 0.0	0.4950 0.0	0.4850 0.0	0.4950 0.0	1468	0.0800 131	7.3 x4
c:\myron\seismograph...\146820180323072.dtb 072	3/23/2018 10:44	0.1200 13.4	116 6.5	0.1000 16.5	0.0550 23.2	0.1200 13.4	1468	0.0800 131	7.2 x4
c:\myron\seismograph...\146820180326073.dtb 073	3/26/2018 10:51	0.1150 13.4	110 5.7	0.0900 12.1	0.0450 18.9	0.1150 13.4	1468	0.0800 131	7.2 x4
*c:\myron\seismograph...\146820180329074.dtb 074	3/29/2018 22:53	0.4950 0.0	134 0.0	0.4950 0.0	0.4900 0.0	0.4950 0.0	1468	0.0800 131	7.2 x4
c:\myron\seismograph...\146820180331075.dtb 075	3/31/2018 11:21	0.0000 0.0	137 11.3	0.0000 0.0	0.0000 0.0	0.0000 0.0	1468	0.0800 131	7.3 x4

\* Denotes a calibration event.

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[REDACTED] Property**

Record Name	Date	Peak (ips)	Acoustic (dB)	Radial (ips)	Vertical (ips)	Transverse (ips)	Seismic Trigger (ips)	Battery	
Number	Time	Hz	Hz	Hz	Hz	Hz	Serial Number	Acoustic Trigger dB	Gain
c:\myron\seismograph...\146820180331076.dtb 076	3/31/2018 11:22	0.0000 0.0	140 18.2	0.0000 0.0	0.0000 0.0	0.0000 0.0	1468	0.0800 131	7.2 x4
c:\myron\seismograph...\146820180331077.dtb 077	3/31/2018 11:56	0.0000 0.0	131 64.0	0.0000 0.0	0.0000 0.0	0.0000 0.0	1468	0.0800 131	7.2 x4
c:\myron\seismograph...\146820180331078.dtb 078	3/31/2018 12:02	0.0000 0.0	132 25.6	0.0000 0.0	0.0000 0.0	0.0000 0.0	1468	0.0800 131	7.2 x4
c:\myron\seismograph...\146820180331079.dtb 079	3/31/2018 12:10	0.0000 0.0	134 28.4	0.0000 0.0	0.0000 0.0	0.0000 0.0	1468	0.0800 131	7.2 x4
c:\myron\seismograph...\146820180331080.dtb 080	3/31/2018 12:13	0.0000 0.0	134 22.2	0.0000 0.0	0.0000 0.0	0.0000 0.0	1468	0.0800 131	7.2 x4
c:\myron\seismograph...\146820180331081.dtb 081	3/31/2018 12:15	0.0000 0.0	132 20.4	0.0000 0.0	0.0000 0.0	0.0000 0.0	1468	0.0800 131	7.1 x4
c:\myron\seismograph...\146820180331082.dtb 082	3/31/2018 12:15	0.0000 0.0	133 26.9	0.0000 0.0	0.0000 0.0	0.0000 0.0	1468	0.0800 131	7.1 x4
c:\myron\seismograph...\146820180331083.dtb 083	3/31/2018 12:20	0.0000 0.0	134 32.0	0.0000 0.0	0.0000 0.0	0.0000 0.0	1468	0.0800 131	7.1 x4
c:\myron\seismograph...\146820180331084.dtb 084	3/31/2018 12:26	0.0000 0.0	135 42.6	0.0000 0.0	0.0000 0.0	0.0000 0.0	1468	0.0800 131	7.1 x4
c:\myron\seismograph...\146820180331085.dtb 085	3/31/2018 12:27	0.0000 0.0	132 34.1	0.0000 0.0	0.0000 0.0	0.0000 0.0	1468	0.0800 131	7.1 x4
c:\myron\seismograph...\146820180331086.dtb 086	3/31/2018 12:31	0.0000 0.0	131 13.8	0.0000 0.0	0.0000 0.0	0.0000 0.0	1468	0.0800 131	7.1 x4
c:\myron\seismograph...\146820180331087.dtb 087	3/31/2018 12:33	0.0000 0.0	132 12.4	0.0000 0.0	0.0000 0.0	0.0000 0.0	1468	0.0800 131	7.1 x4
c:\myron\seismograph...\146820180331088.dtb 088	3/31/2018 12:37	0.0000 0.0	132 26.9	0.0000 0.0	0.0000 0.0	0.0000 0.0	1468	0.0800 131	7.1 x4
c:\myron\seismograph...\146820180331089.dtb 089	3/31/2018 12:40	0.0000 0.0	135 36.5	0.0000 0.0	0.0000 0.0	0.0000 0.0	1468	0.0800 131	7.1 x4
c:\myron\seismograph...\146820180331090.dtb 090	3/31/2018 12:42	0.0000 0.0	135 17.6	0.0000 0.0	0.0000 0.0	0.0000 0.0	1468	0.0800 131	7.1 x4

**Illinois Department of Natural Resources  
Office of Mines and Minerals  
Explosives and Aggregate Division  
VCNA Prairie Inc. - North Central Quarry  
[REDACTED] Property**

Record Name	Date	Peak (ips)	Acoustic (dB)	Radial (ips)	Vertical (ips)	Transverse (ips)	Serial Number	Seismic Trigger (ips)	Battery
Number	Time	Hz	Hz	Hz	Hz	Hz	Number	Acoustic Trigger dB	Gain
c:\myron\seismograph...\146820180331091.dtb 091	3/31/2018 12:44	0.0000 0.0	135 19.6	0.0000 0.0	0.0000 0.0	0.0000 0.0	1468	0.0800 131	7.1 x4
c:\myron\seismograph...\146820180331092.dtb 092	3/31/2018 12:46	0.0000 0.0	134 6.2	0.0000 0.0	0.0000 0.0	0.0000 0.0	1468	0.0800 131	7.1 x4
c:\myron\seismograph...\146820180331093.dtb 093	3/31/2018 12:50	0.0000 0.0	133 34.1	0.0000 0.0	0.0000 0.0	0.0000 0.0	1468	0.0800 131	7.1 x4
c:\myron\seismograph...\146820180331094.dtb 094	3/31/2018 12:54	0.0000 0.0	132 46.5	0.0000 0.0	0.0000 0.0	0.0000 0.0	1468	0.0800 131	7.1 x4
c:\myron\seismograph...\146820180331095.dtb 095	3/31/2018 13:01	0.0000 0.0	131 17.0	0.0000 0.0	0.0000 0.0	0.0000 0.0	1468	0.0800 131	7.1 x4
c:\myron\seismograph...\146820180331096.dtb 096	3/31/2018 13:04	0.0000 0.0	134 34.1	0.0000 0.0	0.0000 0.0	0.0000 0.0	1468	0.0800 131	7.1 x4
c:\myron\seismograph...\146820180331097.dtb 097	3/31/2018 13:16	0.0000 0.0	134 17.6	0.0000 0.0	0.0000 0.0	0.0000 0.0	1468	0.0800 131	7.1 x4
c:\myron\seismograph...\146820180331098.dtb 098	3/31/2018 13:22	0.0000 0.0	134 19.6	0.0000 0.0	0.0000 0.0	0.0000 0.0	1468	0.0800 131	7.1 x4
c:\myron\seismograph...\146820180331099.dtb 099	3/31/2018 13:41	0.0000 0.0	132 46.5	0.0000 0.0	0.0000 0.0	0.0000 0.0	1468	0.0800 131	7.1 x4
c:\myron\seismograph...\146820180331100.dtb 100	3/31/2018 14:00	0.0000 0.0	132 32.0	0.0000 0.0	0.0000 0.0	0.0000 0.0	1468	0.0800 131	7.1 x4
c:\myron\seismograph...\146820180402101.dtb 101	4/2/2018 12:09	0.0950 15.5	114 2.5	0.0650 14.6	0.0350 30.1	0.0950 15.5	1468	0.0800 131	7.1 x4
*c:\myron\seismograph...\146820180406102.dtb 102	4/6/2018 00:10	0.4900 0.0	134 0.0	0.4900 0.0	0.4850 0.0	0.4900 0.0	1468	0.0800 131	7.2 x4
c:\myron\seismograph...\146820180409103.dtb 103	4/9/2018 10:23	0.0800 18.9	116 3.3	0.0600 20.4	0.0400 22.2	0.0800 18.9	1468	0.0800 131	7.3 x4
*c:\myron\seismograph...\146820180411104.dtb 104	4/11/2018 14:39	0.4950 0.0	134 0.0	0.4950 0.0	0.4950 0.0	0.4950 0.0	1468	0.0800 131	7.2 x4
c:\myron\seismograph...\146820180412105.dtb 105	4/12/2018 08:06	0.0000 0.0	133 22.2	0.0000 0.0	0.0000 0.0	0.0000 0.0	1468	0.0800 131	7.0 x4

\* Denotes a calibration event.



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**VCNA Prairie Inc. - North Central Quarry**  
**Property**

Record Name	Date	Peak (ips)	Acoustic (dB)	Radial (ips)	Vertical (ips)	Transverse (ips)	Seismic Trigger (ips)	Battery	
Number	Time	Hz	Hz	Hz	Hz	Hz	Serial Number	Acoustic Trigger dB	Gain
c:\myron\seismograph...\146820180412106.dtb 106	4/12/2018 08:25	0.0000 0.0	132 9.1	0.0000 0.0	0.0000 0.0	0.0000 0.0	1468	0.0800 131	7.1 x4
c:\myron\seismograph...\146820180412107.dtb 107	4/12/2018 09:13	0.0000 0.0	137 51.2	0.0000 0.0	0.0000 0.0	0.0000 0.0	1468	0.0800 131	7.1 x4
c:\myron\seismograph...\146820180412108.dtb 108	4/12/2018 10:36	0.0000 0.0	134 13.8	0.0000 0.0	0.0000 0.0	0.0000 0.0	1468	0.0800 131	7.1 x4
*c:\myron\seismograph...\146820180415109.dtb 109	4/15/2018 22:37	0.4950 0.0	134 0.0	0.4950 0.0	0.4850 0.0	0.4950 0.0	1468	0.0800 131	7.0 x4
*c:\myron\seismograph...\146820180419110.dtb 110	4/19/2018 10:38	0.4950 0.0	134 0.0	0.4950 0.0	0.4900 0.0	0.4950 0.0	1468	0.0800 131	7.3 x4
*c:\myron\seismograph...\146820180419111.dtb 111	4/19/2018 15:09	0.4950 0.0	134 0.0	0.4950 0.0	0.4900 0.0	0.4950 0.0	1468	0.0800 131	7.2 x4

\* Denotes a calibration event.

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**Property**

File Name: c:\myron\seismograph analysis\manteno\man82\146820180323072.dtb  
 Number: 072  
 Date: 3/23/2018  
 Time: 10:44  
 Serial Number: 1468  
 Seismic Trigger: 0.0800 in/sec  
 Acoustic Trigger: 131 dB  
 Sample Rate: 1024  
 Duration: 5.0 Seconds  
 Pre-Trigger: 0.50 Seconds  
 Gain: 4x  
 Voltage: 7.2

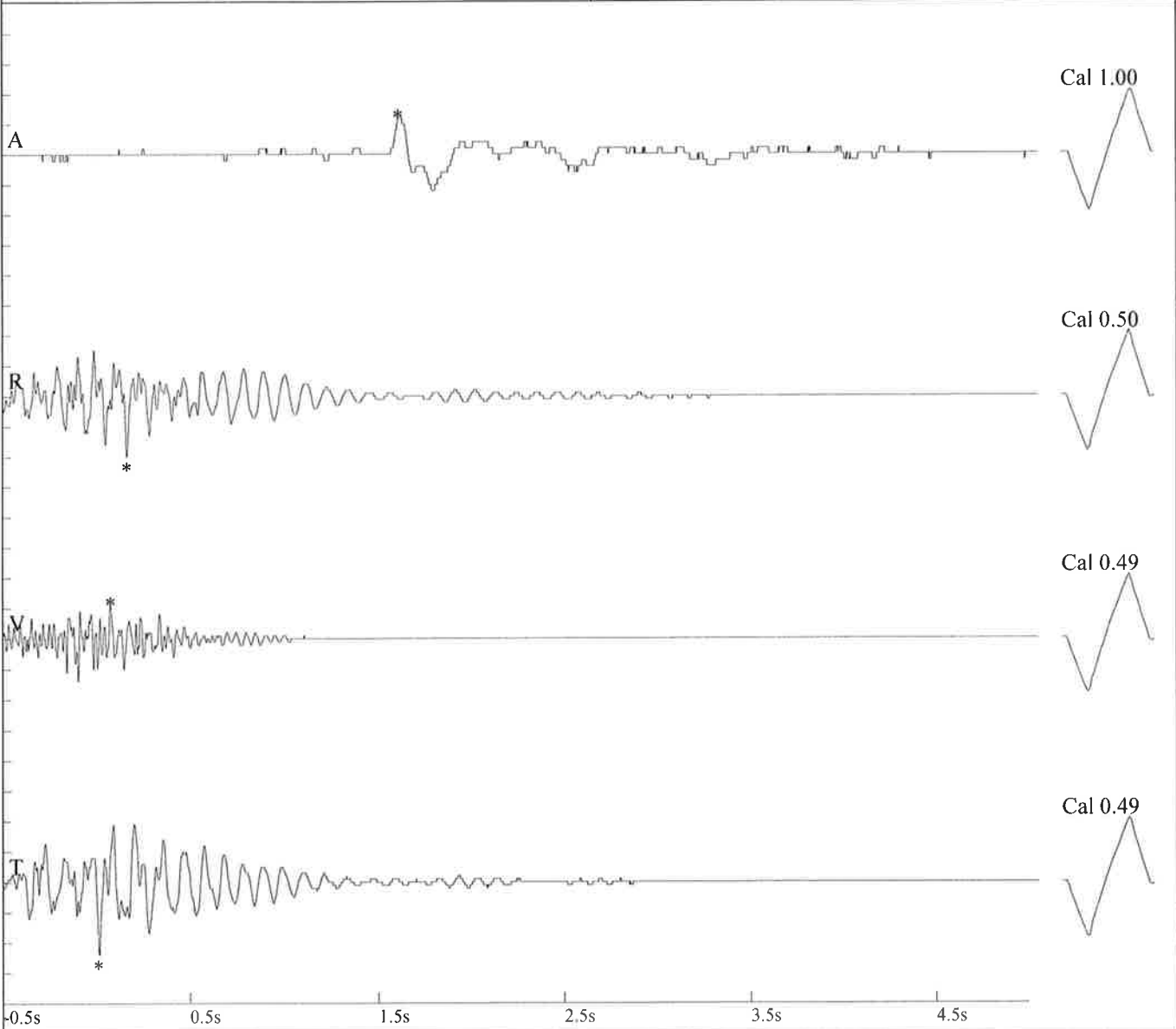
*MSM*

**Amplitudes and Frequencies**

*Acoustic:* 116 dB @ 6.5 Hz  
*Radial:* 0.1000 in/sec @ 16.5Hz  
*Vertical:* 0.0550 in/sec @ 23.2Hz  
*Transverse:* **0.1200 in/sec @ 13.4Hz**

**Graph Information**

*Duration:* -0.500 s To: 5.000 s  
*Acoustic Scale:* 126 dB  
*Seismic Scale:* 0.20 in/sec (0.050 in/sec/div)  
*Time Intervals at:* 1.00 s

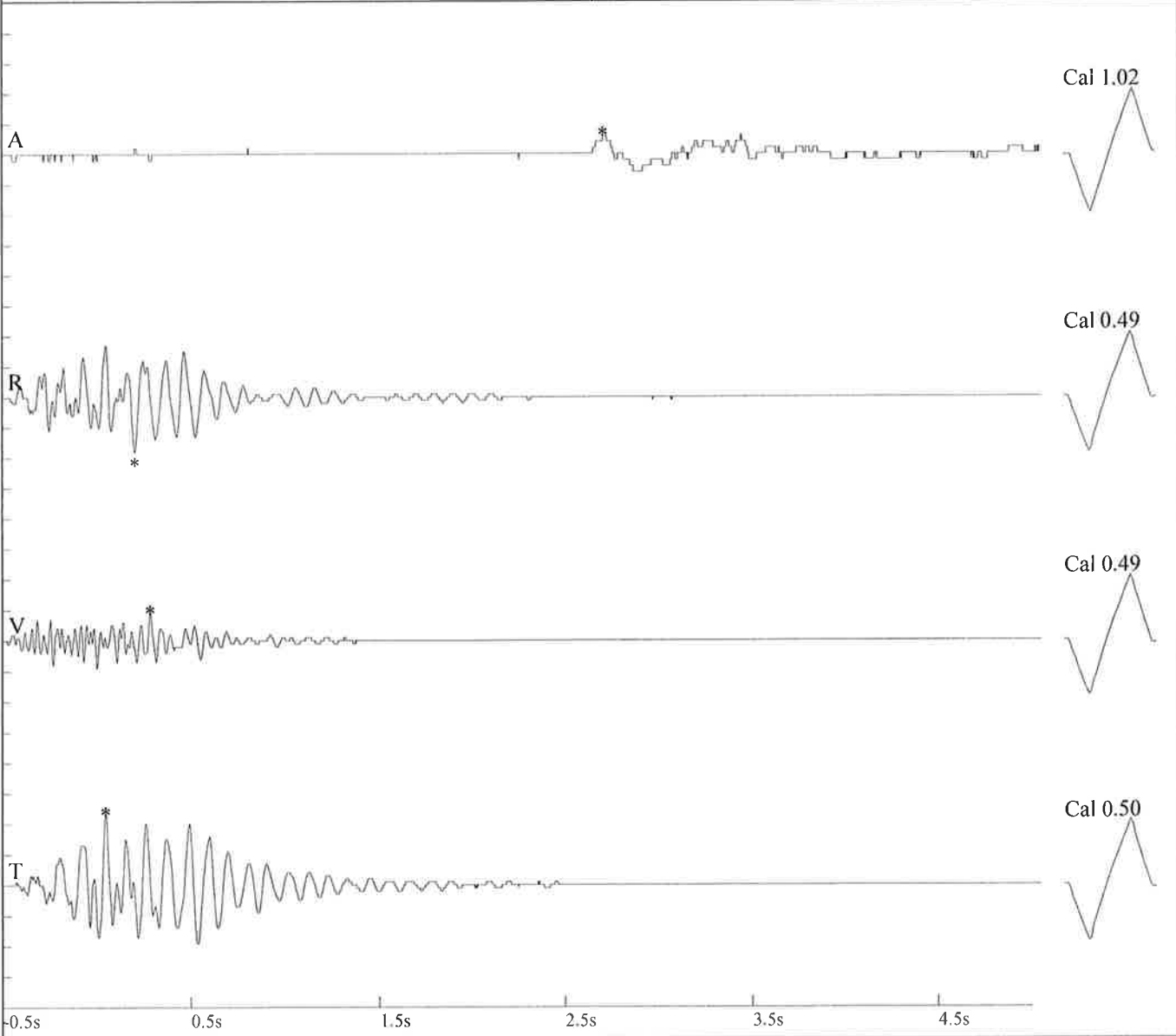


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**VCNA Prairie Inc. - North Central Quarry**  
**Property**

File Name: c:\myron\seismograph analysis\manteno\man82\146820180326073.dtb  
 Number: 073  
 Date: 3/26/2018  
 Time: 10:51  
 Serial Number: 1468  
 Seismic Trigger: 0.0800 in/sec  
 Acoustic Trigger: 131 dB  
 Sample Rate: 1024  
 Duration: 5.0 Seconds  
 Pre-Trigger: 0.50 Seconds  
 Gain: 4x  
 Voltage: 7.2

*MSM*

Amplitudes and Frequencies	Graph Information
<i>Acoustic:</i> 110 dB @ 5.7 Hz	<i>Duration:</i> -0.500 s To: 5.000 s
<i>Radial:</i> 0.0900 in/sec @ 12.1Hz	<i>Acoustic Scale:</i> 126 dB
<i>Vertical:</i> 0.0450 in/sec @ 18.9Hz	<i>Seismic Scale:</i> 0.20 in/sec (0.050 in/sec/div)
<i>Transverse:</i> 0.1150 in/sec @ 13.4Hz	<i>Time Intervals at:</i> 1.00 s

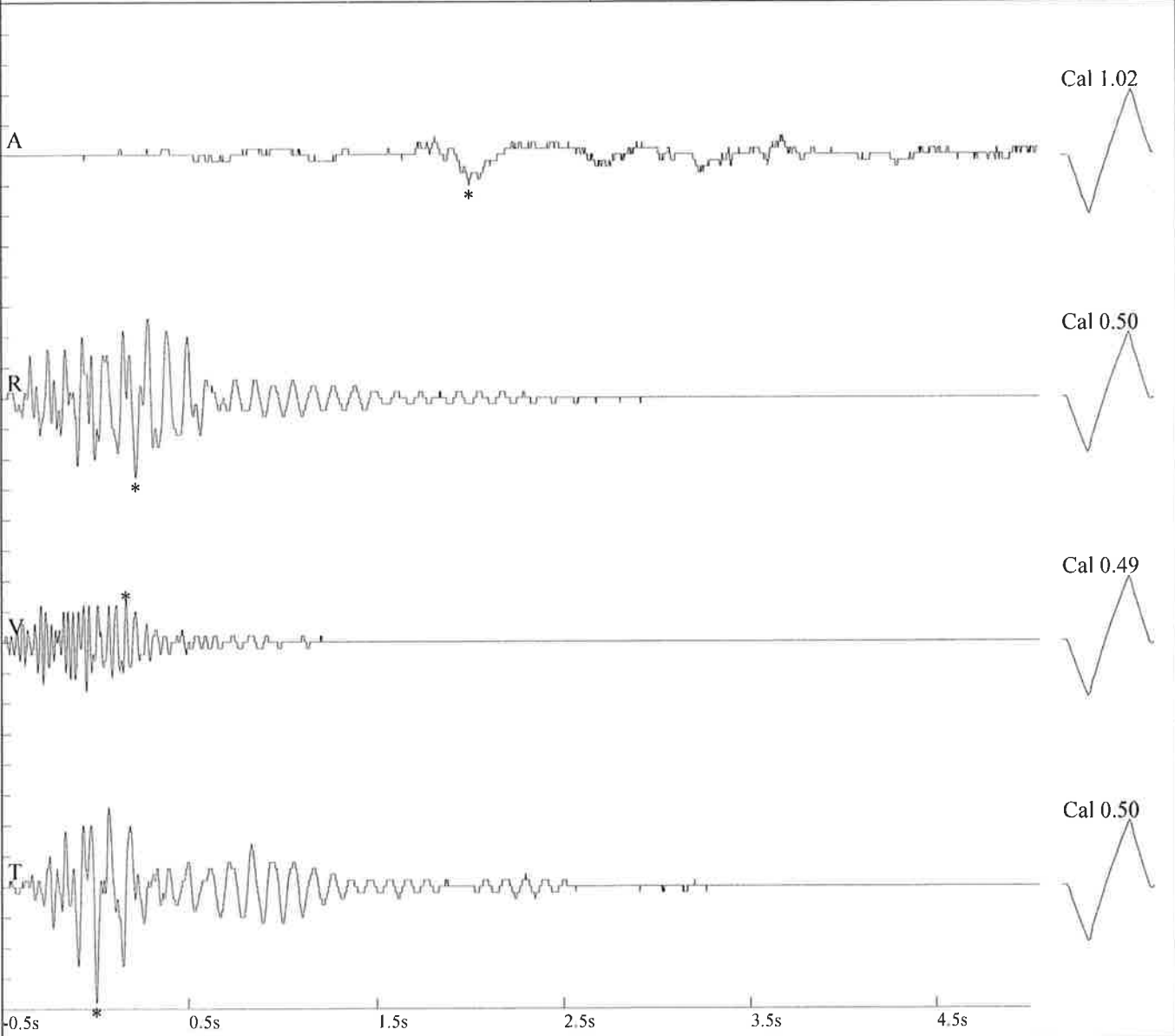


**Illinois Department of Natural Resources**  
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**Property**

File Name: c:\myron\seismograph analysis\manteno\man82\146820180402101.dtb  
 Number: 101  
 Date: 4/2/2018  
 Time: 12:09  
 Serial Number: 1468  
 Seismic Trigger: 0.0800 in/sec  
 Acoustic Trigger: 131 dB  
 Sample Rate: 1024  
 Duration: 5.0 Seconds  
 Pre-Trigger: 0.50 Seconds  
 Gain: 4x  
 Voltage: 7.1

*MM*

Amplitudes and Frequencies	Graph Information
<i>Acoustic:</i> 114 dB @ 2.5 Hz	<i>Duration:</i> -0.500 s To: 5.000 s
<i>Radial:</i> 0.0650 in/sec @ 14.6Hz	<i>Acoustic Scale:</i> 126 dB
<i>Vertical:</i> 0.0350 in/sec @ 30.1Hz	<i>Seismic Scale:</i> 0.10 in/sec (0.025 in/sec/div)
<b><i>Transverse:</i> 0.0950 in/sec @ 15.5Hz</b>	<i>Time Intervals at:</i> 1.00 s



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**Property**

File Name: c:\myron\seismograph analysis\manteno\man82\146820180409103.dtb  
 Number: 103  
 Date: 4/9/2018  
 Time: 10:23  
 Serial Number: 1468  
 Seismic Trigger: 0.0800 in/sec  
 Acoustic Trigger: 131 dB  
 Sample Rate: 1024  
 Duration: 5.0 Seconds  
 Pre-Trigger: 0.50 Seconds  
 Gain: 4x  
 Voltage: 7.3

*MAN*

Amplitudes and Frequencies	Graph Information
Acoustic: 116 dB @ 3.3 Hz	Duration: -0.500 s To: 5.000 s
Radial: 0.0600 in/sec @ 20.4Hz	Acoustic Scale: 126 dB
Vertical: 0.0400 in/sec @ 22.2Hz	Seismic Scale: 0.10 in/sec (0.025 in/sec/div)
Transverse: 0.0800 in/sec @ 18.9Hz	Time Intervals at: 1.00 s

