Werner, Elizabeth

From: David Garrett [david@davidgarrettpe.com]
Sent: Monday, June 13, 2011 4:21 PM
To: Werner, Elizabeth
Subject: FW: Wampum Hardware-Garner Landfill Project Shot 060611
Attachments: 060611 Landfill Perimeter.pdf; 060611 Proposed Well.pdf

Here are the blast records for 6-6-2011. Unless something changes, we're on for a shot at 2:30 tomorrow, Tuesday June 14. David

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From: Dennis Gehle [mailto:dgehle@wcamerica.com]
Sent: Monday, June 13, 2011 6:12 AM
To: david@davidgarrettpe.com
Subject: FW: Wampum Hardware-Garner Landfill Project Shot 060611

From: N. Carolina Sauls Seismic [mailto:ncarolina@saulsseismic.com]
Sent: Tuesday, June 07, 2011 12:09 PM
To: Dennis Gehle
Cc: 'Judy Blackburn'
Subject: Wampum Hardware-Garner Landfill Project Shot 060611

Please call us if you have any questions

Sauls Seismic, Inc.
642-D Signal Hill Drive Ext
Statesville, NC 28625
ncarolina@saulsseismic.com
704-583-2525 Office
704-583-1008 Fax

Wampum Hardware: Garner Landfill Project
Seismograph Loc: Landfill Perimeter
Shot Loc: N E
Distance: feet
Maximum lbs per delay:
Shot # Operator: Rob Nicks

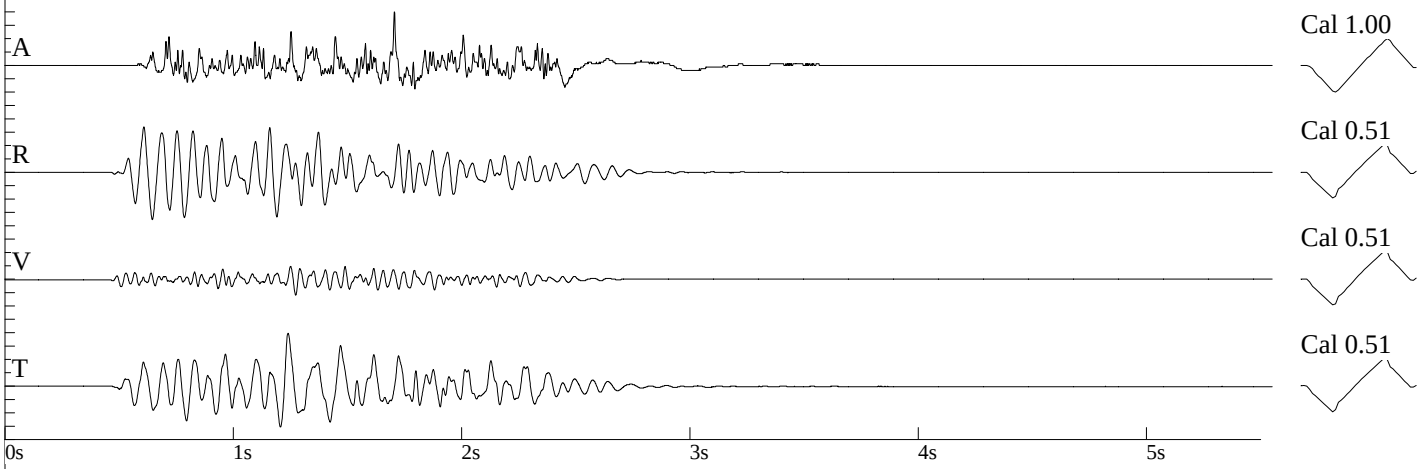
File Name: LDFILLPERIMETER060611163.DTA
Number: 163
Date: 6/6/2011
Time: 15:37
Serial Number: 1891
Seismic Trigger: 0.0500 in/s 1.2700 mm/s
Acoustic Trigger: 142 dB
Sample Rate: 1024
Record Duration: 5.0 Seconds
Pre-Trigger: 0.50 Seconds
Sensor Gain: 2x
Battery: 7.0

Amplitudes and Frequencies

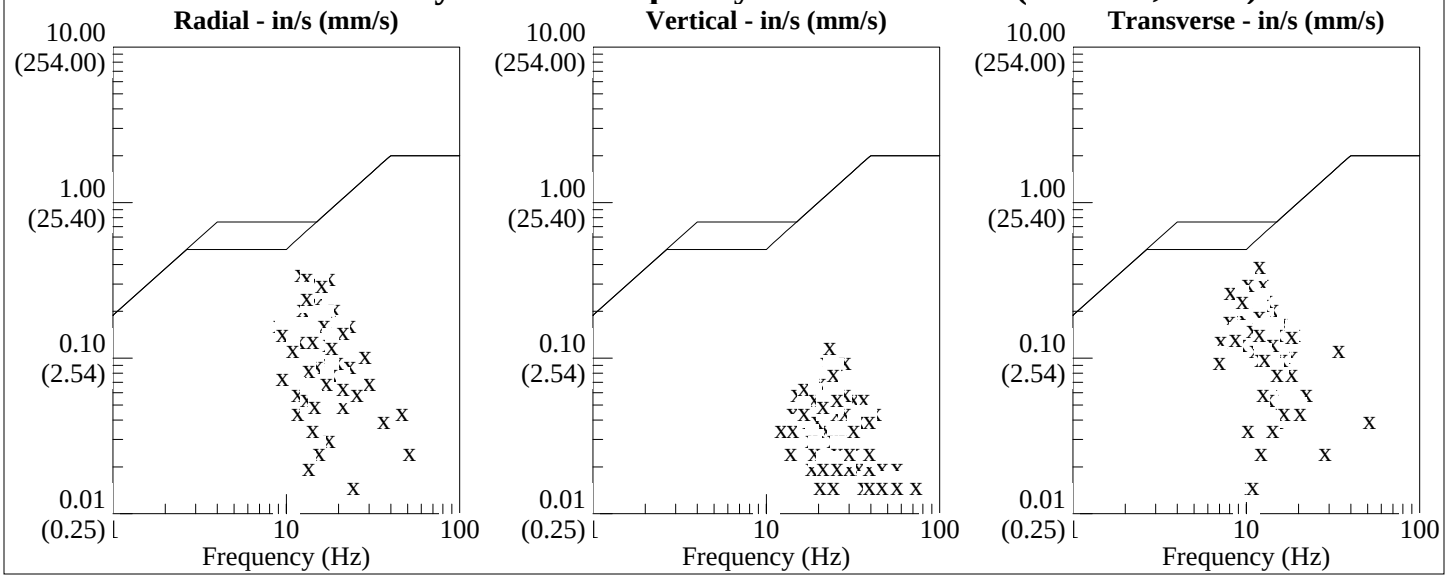
Acoustic: 130 dB @ 13.1 Hz
(0.64Mb 0.0093psi 0.0640kPa)
Radial: 0.355in/s 9.017mm/s @ 12.4Hz
Vertical: 0.12in/s 3.048mm/s @ 24.3Hz
***Transverse:* 0.395in/s 10.033mm/s @ 12.1Hz**

Graph Information

*Duration:*0.000s To: 5.500s
Acoustic Scale:
130dB 0.63Mb (0.158Mb/div)
Seismic Scale:
0.40in/s (0.100in/s/div) 10.16mm/s (2.540mm/s/div)
*Time Line Intervals at:*1.00 s



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



Wampum Hardware: Garner Landfill Project
Seismograph Loc: Proposed Well
Shot Loc: N E
Distance: feet
Maximum lbs per delay:
Shot # Operator: Rob Nicks

File Name: SN20110607203.DTB
Number: 203
Date: 6/6/2011
Time: 15:37
Serial Number: 2512
Seismic Trigger: 0.0200 in/s 0.5080 mm/s
Acoustic Trigger: 142 dB
Sample Rate: 1024
Record Duration: 5.0 Seconds
Pre-Trigger: 0.50 Seconds
Sensor Gain: 2x
Battery: 7.0

Amplitudes and Frequencies

Acoustic: 112 dB @ 23.2 Hz
(0.08Mb 0.0012psi 0.0080kPa)

Radial: 0.035in/s 0.889mm/s @ 12.1Hz

***Vertical:* 0.06in/s 1.524mm/s @ 13.1Hz**

Transverse: 0.055in/s 1.397mm/s @ 16.0Hz

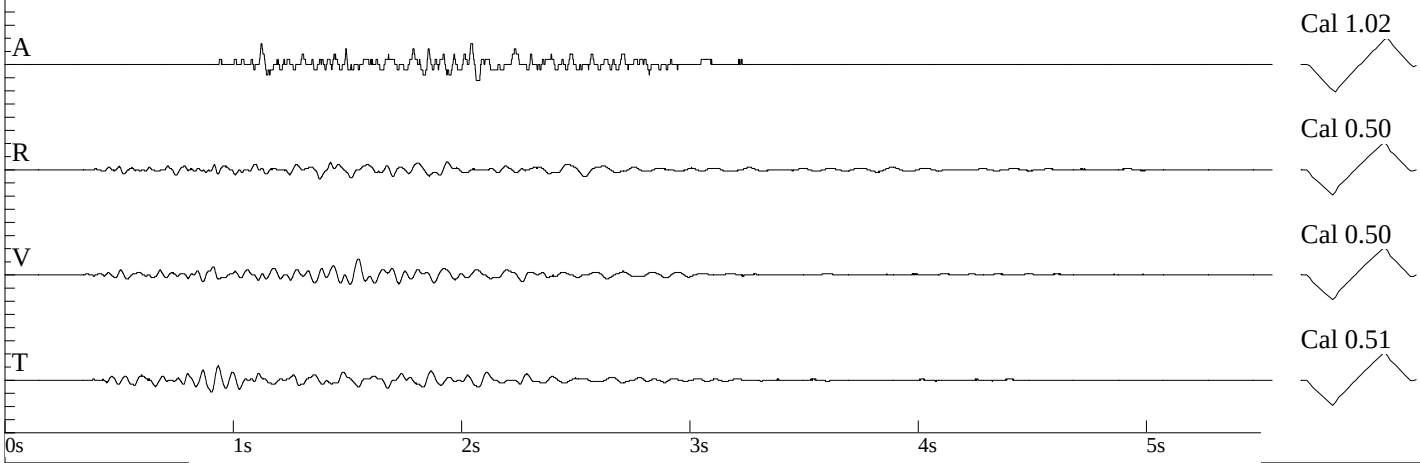
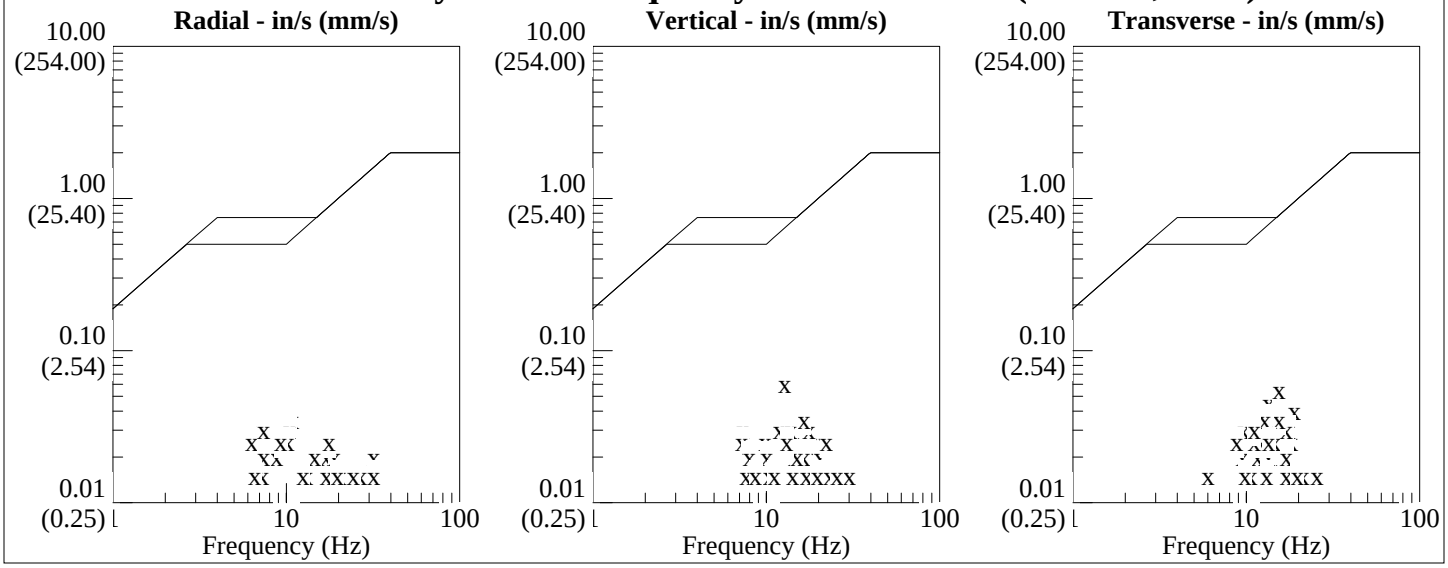
Graph Information

*Duration:*0.000s To: 5.500s

Acoustic Scale:
120dB 0.20Mb (0.050Mb/div)

Seismic Scale:
0.20in/s (0.050in/s/div) 5.08mm/s (1.270mm/s/div)

*Time Line Intervals at:*1.00 s



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