



Department of the Army
New York District Corps of Engineers
Jacob K. Javits Federal Building
26 Federal Plaza
New York, NY 10278-0090

Week of August 05 – August 11, 2013

The following pages display the results from the USACE-NYD real-time website for the week of Monday, August 05, through Sunday, August 11, 2013.

There were 8 blasts this week in the S-AK-3 project area.

We recorded background vibrations in the KVK-Buoy 10 project area and vibrations in the S-AK-3 project area. The maximum vibration recorded was 0.211 in/s recorded at Elizabeth Marina on August 09. Table 1 summarizes the blasts this week.

Page 2 summarizes dredge locations for this week. The map shows the week's last dredge locations by colored symbols, connected by colored lines to the week's previous locations marked by gray symbols. Dredge 55 operated in KVK-Buoy 10 on Monday. Drillboat Apache and Dredge 55 operated in S-AK-3 Monday through Sunday.

The remaining odd pages display the home page showing the maximum vibration measured in all of the stations for the most recent event for each day:

August 05
August 06
August 07
August 08
August 09
August 10
August 11

The even pages show the maximum vibration observed at each station along easting for each event.

The results for this week show the measurements at the four active stations: New York Container Terminal (NYCT), Elizabethport, Elizabeth Marina, and Bayonne. The station locations are on each page.

Ground vibrations at NYCT were all below 0.09 in/s. Ground vibrations at Elizabethport were all below 0.10 in/s. Ground vibrations at Elizabeth Marina were all below 0.04 in/s. Ambient vibrations at Bayonne were all below 0.215 in/s (this station receives noise vibrations from vehicle traffic on W 1st Street). All blast vibration measurements are below the contract vibration limits for this site.

Table 1. Blast Summary for this week

Blast	Date & Time EST/EDT of blast	Distance from blast to e4s stations (feet)	e4s Max. vibration (in/s)
AK-010	2013-08-05 16:59	0,660 - 16,690	0.154
AK-011	2013-08-06 13:25	0,770 - 16,420	0.128
AK-012	2013-08-07 11:30	0,740 - 16,660	0.117
AK-013	2013-08-08 09:05	0,760 - 16,530	0.122
AK-013A	2013-08-08 10:42	0,750 - 16,560	0.0162
AK-014	2013-08-08 16:55	0,790 - 16,340	0.117
AK-015	2013-08-09 15:00	0,800 - 16,340	0.211
AK-016	2013-08-10 14:54	0,840 - 16,370	0.0906



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Dredge Position Summary

This page summarizes dredge positions for the week. The Arthur Kill contract area is mapped with a top-of-rock map. The navigation grid is superimposed. The map shows dredge locations by colored symbols, connected by colored lines to the week's past locations marked by gray symbols. The map resets beginning the Monday of each week.

Mousing over a dredge location produces a pop-up text box giving dredge name, date of location, and easting and northing coordinates of the location in the NAD83 New Jersey State Plane coordinate system.

Click on a station for station information.



[Todays Dredge Position](#)

[Latest Week's
Dredge Position Summary](#)

[Project
History List](#)

The table below lists the date, name, easting, northing, and notes for the week's dredge positions. The position is the last reported dredge position of the day.

Dredge Location Table

Date	Dredge Name	Easting	Northing	Notes
2013-08-11 Sun	Dredge 55	579476	660062	
2013-08-10 Sat	Dredge 55	579145	659660	
2013-08-10 Sat	Drillboat Apache	579587	659990	
2013-08-09 Fri	Dredge 55	579144	659769	
2013-08-09 Fri	Drillboat Apache	579836	660173	
2013-08-08 Thu	Dredge 55	588835	658021	
2013-08-08 Thu	Drillboat Apache	579421	659916	
2013-08-08 Thu	Drillboat Kraken	579397	659829	
2013-08-07 Wed	Dredge 55	588891	658058	
2013-08-07 Wed	Drillboat Apache	579283	659843	
2013-08-07 Wed	Drillboat Kraken	579270	659742	
2013-08-06 Tue	Dredge 55	579061	659696	
2013-08-06 Tue	Drillboat Apache	579532	660062	
2013-08-06 Tue	Drillboat Kraken	579504	659972	
2013-08-05 Mon	Dredge 55	595238	659796	
2013-08-05 Mon	Drillboat Apache	579255	659879	



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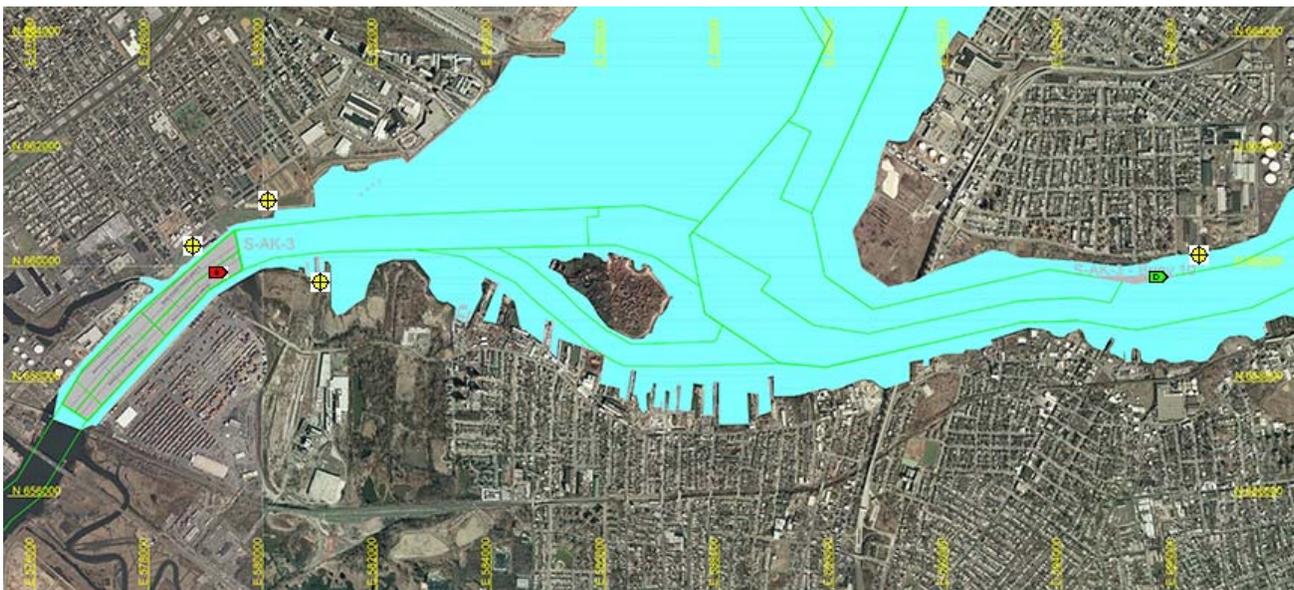
Arthur Kill Blast Vibration Summary

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This page represents the most recent observations.

The Arthur Kill contract area is mapped below in light gray. The navigation grid is superimposed. Today's dredge locations are marked by colored symbols, connected by colored lines to this week's past locations marked by gray symbols. The drilling and blasting barge is marked in red. The easting and northing map coordinates in the New Jersey State Plane coordinate system are in yellow. The locations of active seismograph stations are marked by yellow station symbols. (e4sciences stations are circles. CDB stations are triangles.) Selecting a station activates its station page.

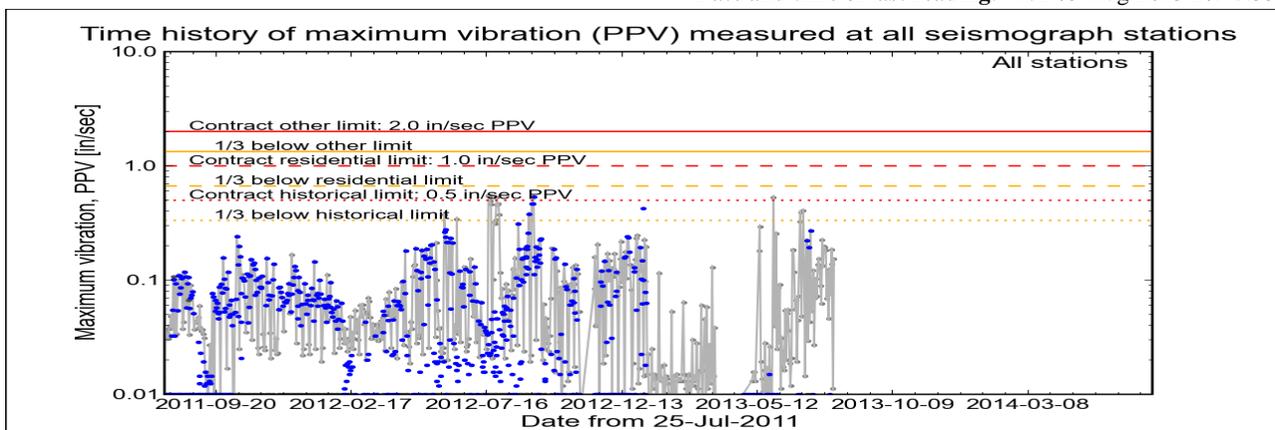
Click station for station information or click channel for event summary.



Latest Event Summary

The graph below is a plot of the maximum vibration recorded by any and all of the numerous seismograph stations during the current observation event (ambient or blast). The horizontal axis gives the date from the start of the project on 25 July 2011. The vertical axis gives the maximum vibration in peak particle velocity (PPV) in units of inches per second (in/sec). The red curves show the project's contract limits; the orange curves show one-third (1/3) below these contract limits. (The light gray curve is ambient-vibration level. The blue dots are blast-vibration levels. The dark gray dots are predicted blast-vibration levels.)

Date and time of last reading: Mon 05-Aug-2013 20:47:33



(Click on graph or [here](#) for larger view)

The table below lists the date, time, level, and station of the maximum-vibration recording for each and every event. Selecting an event activates its event page.

Blast ID	Date	Time	Max PPV (in / second)	Max PPV Station
Ambient	Mon 05-Aug-2013	20:47:33	0.1540	Elizabeth Marina
Ambient	Sun 04-Aug-2013	20:01:45	0.0112	Bayonne
Ambient	Sat 03-Aug-2013	02:02:02	0.1850	Bayonne
Ambient	Fri 02-Aug-2013	15:47:34	0.1380	Elizabeth Marina
Ambient	Thu 01-Aug-2013	20:46:44	0.0756	Bayonne
Ambient	Wed 31-Jul-2013	21:01:44	0.1240	Bavonne



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Arthur Kill Blasting Event Summary

This page summarizes measurements of ground vibrations for the selected event. This page displays the maximum vibration recorded at each and every seismograph station during this event.

The Arthur Kill contract area is mapped below with a top-of-rock map. Today's dredge locations are marked by colored symbols, connected by colored lines to this week's past locations marked by gray symbols. The drilling and blasting barge location is marked in red. The easting and northing map coordinates in the New Jersey State Plane coordinate system are in yellow. The locations of active seismograph stations are marked by yellow station symbols. (*e4sciences stations are circles. CDB stations are triangles.*) Selecting a station activates its station page.

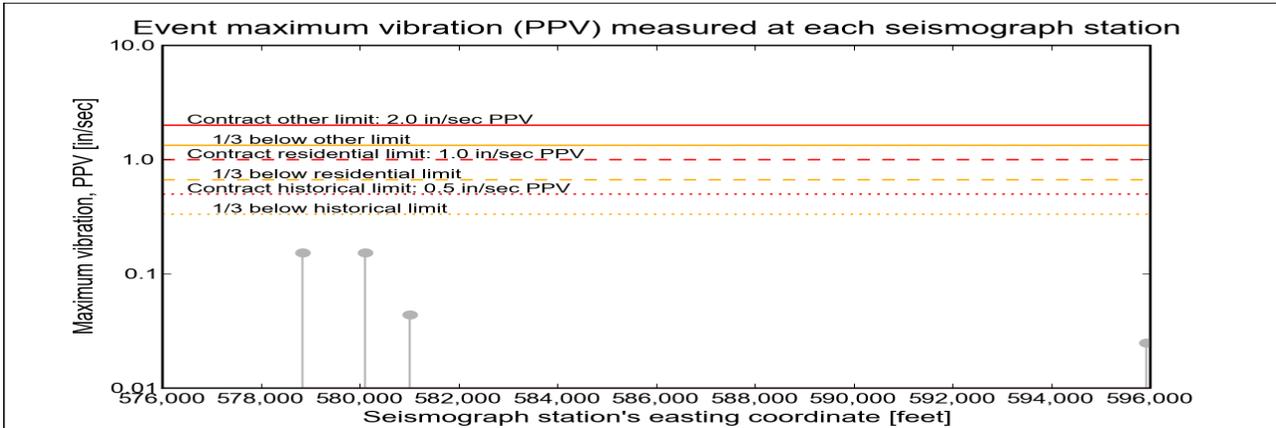
Click station for more information about the station.



Selected Event Summary

The graph below plots the maximum vibration during the selected event period (blast or ambient) recorded at each and every seismograph station along the easting positions. The vertical axis gives the maximum vibration in peak particle velocity (PPV) in units of inches per second (in/sec). If the maximum vibration level at a station is below 0.01 in/sec, the marker is a v-shaped triangle at 0.01 in/sec. (*Light-gray stems indicate ambient-vibration level. Black stems indicate blast-vibration level. Dark-gray stems indicate predicted blast-vibration level.*)

Date of reading: Mon 05-Aug-2013



(Click on graph or [here](#) for larger view)

The table below lists the date, time, and level of the maximum-vibration recording at each station for the selected event.

Station	Date	Time	Max PPV (in / second)	Vibration Type
Elizabeth Marina - e4s010	Mon 05-Aug-2013	20:47:33	0.154	Ambient
Elizabeth Port - e4s009	Mon 05-Aug-2013	20:47:33	0.154	Ambient
NYCT - e4s008	Mon 05-Aug-2013	20:52:45	0.0437	Ambient
Bayonne - e4s011	Mon 05-Aug-2013	01:16:46	0.025	Ambient



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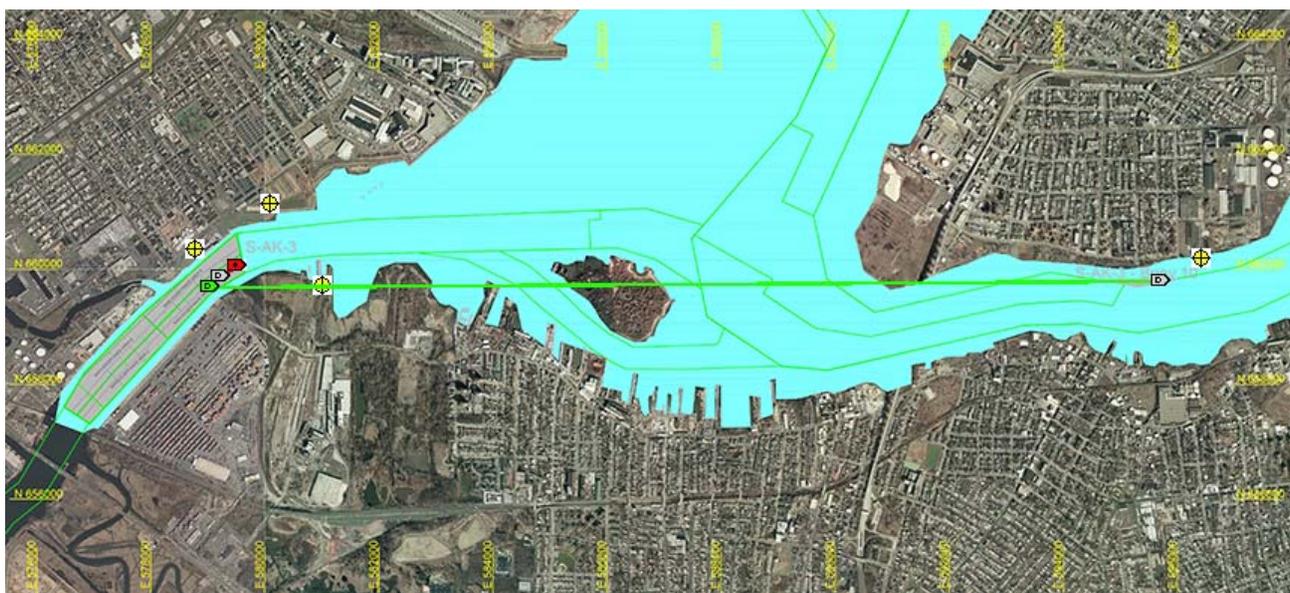
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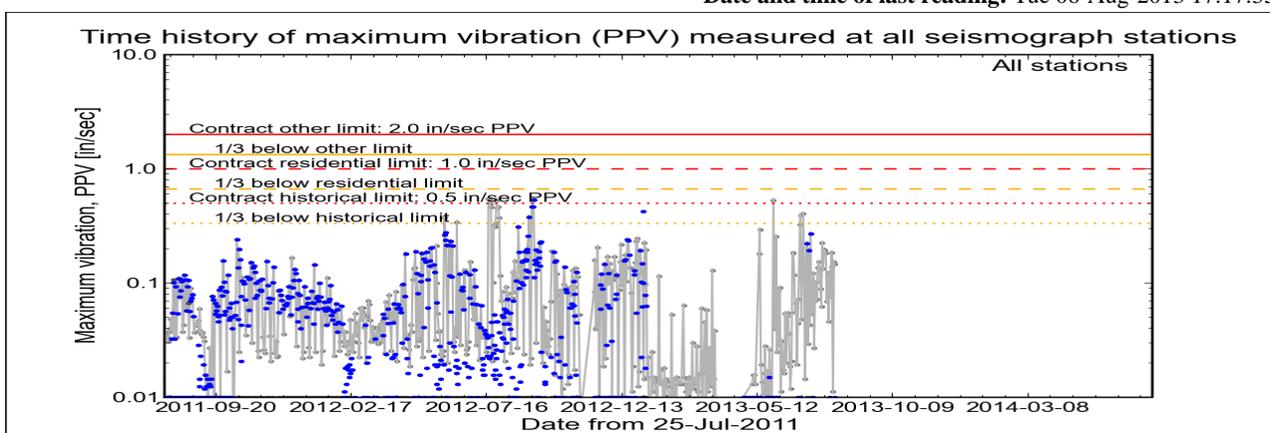
Click station for station information or click channel for event summary.



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Date and time of last reading: Tue 06-Aug-2013 17:17:35



(Click on graph or [here](#) for larger view)

The table below lists the date, time, level, and station of the maximum-vibration recording for each and every event. Selecting an event activates its event page.

Blast ID	Date	Time	Max PPV (in / second)	Max PPV Station
Ambient	Tue 06-Aug-2013	17:17:35	0.1460	Elizabeth Marina
Ambient	Mon 05-Aug-2013	20:47:33	0.1540	Elizabeth Marina
Ambient	Sun 04-Aug-2013	20:01:45	0.0112	Bayonne
Ambient	Sat 03-Aug-2013	02:02:02	0.1850	Bayonne
Ambient	Fri 02-Aug-2013	15:47:34	0.1380	Elizabeth Marina
Ambient	Thu 01-Aug-2013	20:46:44	0.0756	Bavonne



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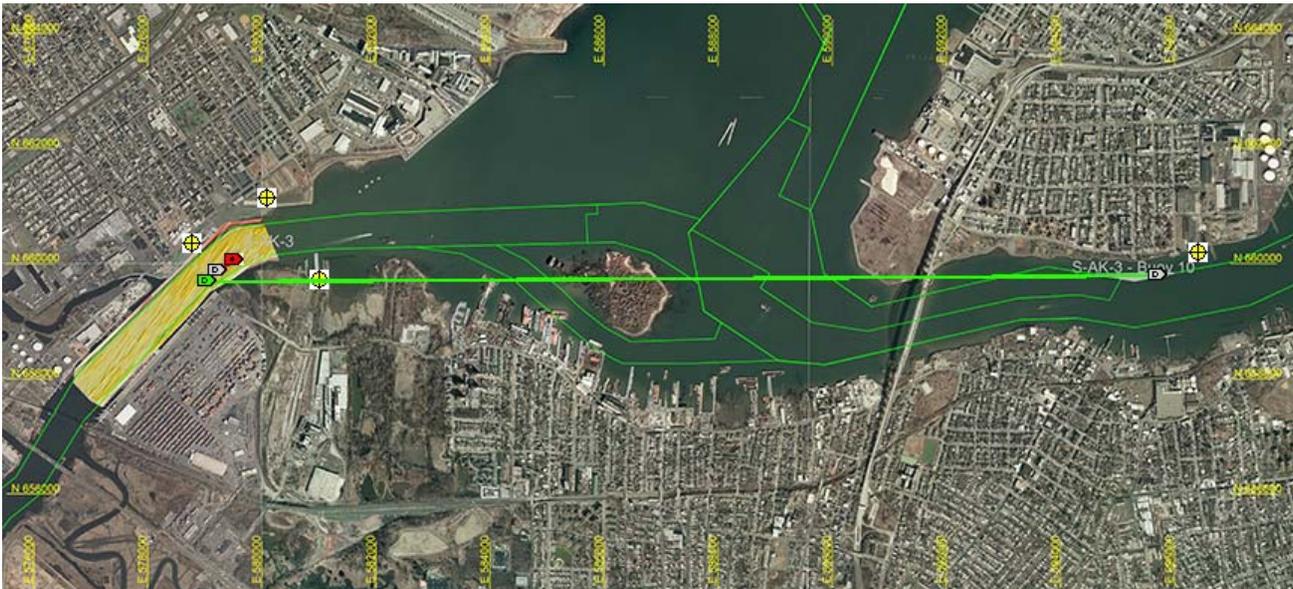
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Arthur Kill Blasting Event Summary

This page summarizes measurements of ground vibrations for the selected event. This page displays the maximum vibration recorded at each and every seismograph station during this event.

The Arthur Kill contract area is mapped below with a top-of-rock map. Today's dredge locations are marked by colored symbols, connected by colored lines to this week's past locations marked by gray symbols. The drilling and blasting barge location is marked in red. The easting and northing map coordinates in the New Jersey State Plane coordinate system are in yellow. The locations of active seismograph stations are marked by yellow station symbols. (*e4sciences stations are circles. CDB stations are triangles.*) Selecting a station activates its station page.

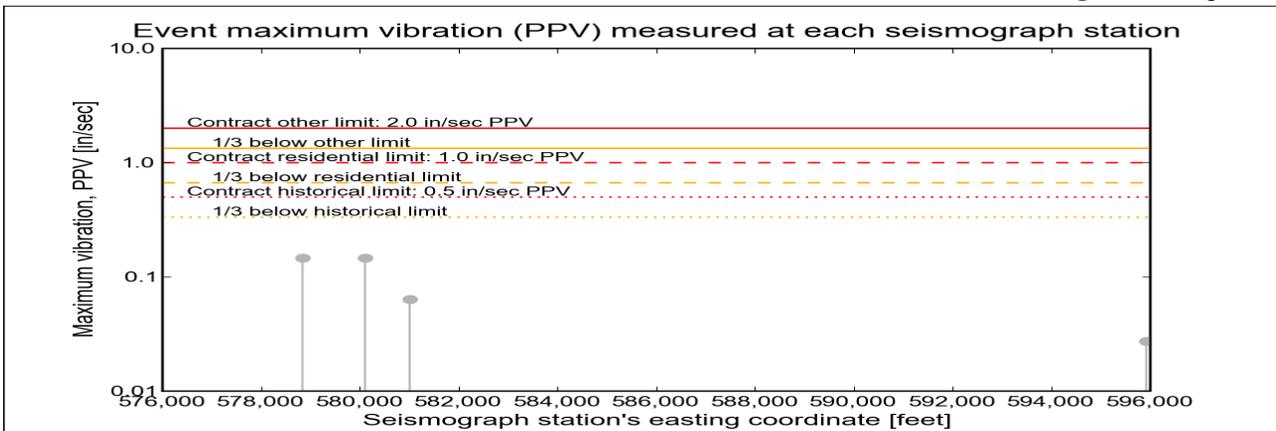
Click station for more information about the station.



Selected Event Summary

The graph below plots the maximum vibration during the selected event period (blast or ambient) recorded at each and every seismograph station along the easting positions. The vertical axis gives the maximum vibration in peak particle velocity (PPV) in units of inches per second (in/sec). If the maximum vibration level at a station is below 0.01 in/sec, the marker is a v-shaped triangle at 0.01 in/sec. (*Light-gray stems indicate ambient-vibration level. Black stems indicate blast-vibration level. Dark-gray stems indicate predicted blast-vibration level.*)

Date of reading: Tue 06-Aug-2013



(Click on graph or [here](#) for larger view)

The table below lists the date, time, and level of the maximum-vibration recording at each station for the selected event.

Station	Date	Time	Max PPV (in / second)	Vibration Type
Elizabeth Marina - e4s010	Tue 06-Aug-2013	17:17:35	0.146	Ambient
Elizabeth Port - e4s009	Tue 06-Aug-2013	17:17:35	0.146	Ambient
NYCT - e4s008	Tue 06-Aug-2013	17:08:35	0.0637	Ambient
Bayonne - e4s011	Tue 06-Aug-2013	16:31:43	0.0275	Ambient



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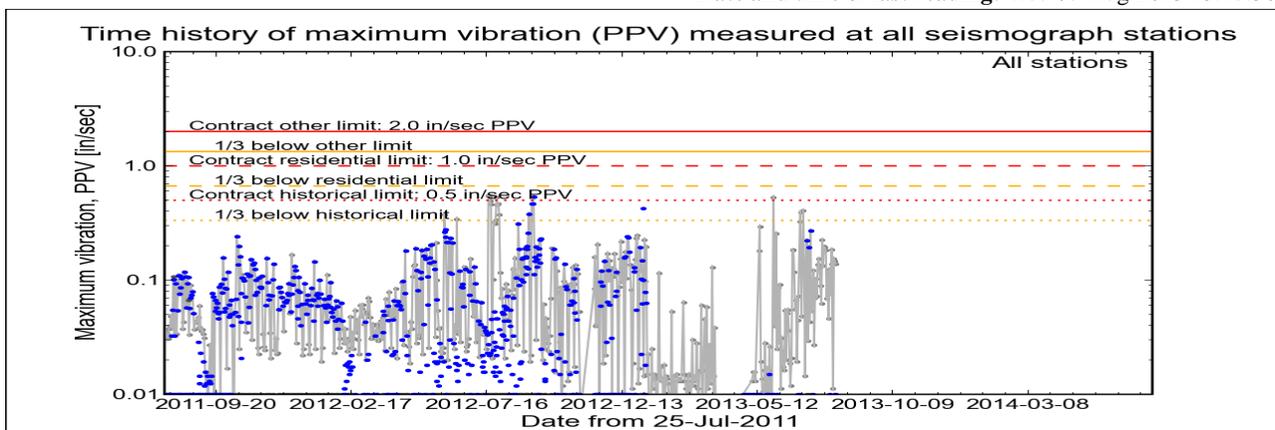
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Latest Event Summary

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Date and time of last reading: Wed 07-Aug-2013 15:17:36



(Click on graph or [here](#) for larger view)

The table below lists the date, time, level, and station of the maximum-vibration recording for each and every event. Selecting an event activates its event page.

Blast ID	Date	Time	Max PPV (in / second)	Max PPV Station
Ambient	Wed 07-Aug-2013	15:17:36	0.1380	Elizabeth Marina
Ambient	Tue 06-Aug-2013	17:17:35	0.1460	Elizabeth Marina
Ambient	Mon 05-Aug-2013	20:47:33	0.1540	Elizabeth Marina
Ambient	Sun 04-Aug-2013	20:01:45	0.0112	Bayonne
Ambient	Sat 03-Aug-2013	02:02:02	0.1850	Bayonne
Ambient	Fri 02-Aug-2013	15:47:34	0.1380	Elizabeth Marina



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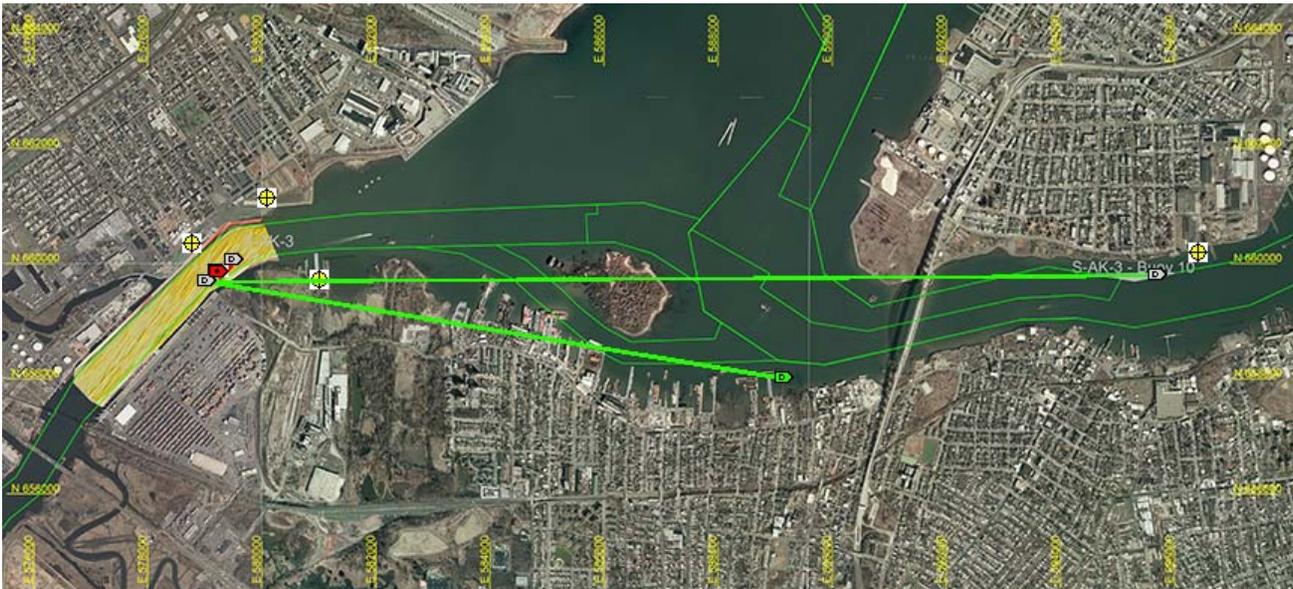
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Arthur Kill Blasting Event Summary

This page summarizes measurements of ground vibrations for the selected event. This page displays the maximum vibration recorded at each and every seismograph station during this event.

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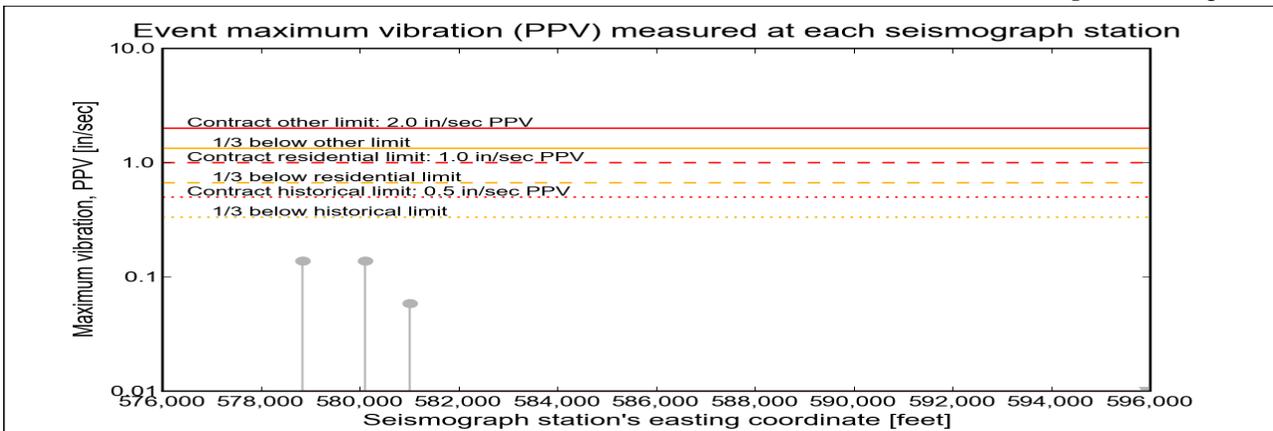
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Station	Date	Time	Max PPV (in / second)	Vibration Type
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Elizabeth Port - e4s009	Wed 07-Aug-2013	15:17:36	0.138	Ambient
NYCT - e4s008	Wed 07-Aug-2013	15:22:47	0.0587	Ambient
Bayonne - e4s011	Wed 07-Aug-2013	15:32:37	0.00937	Ambient



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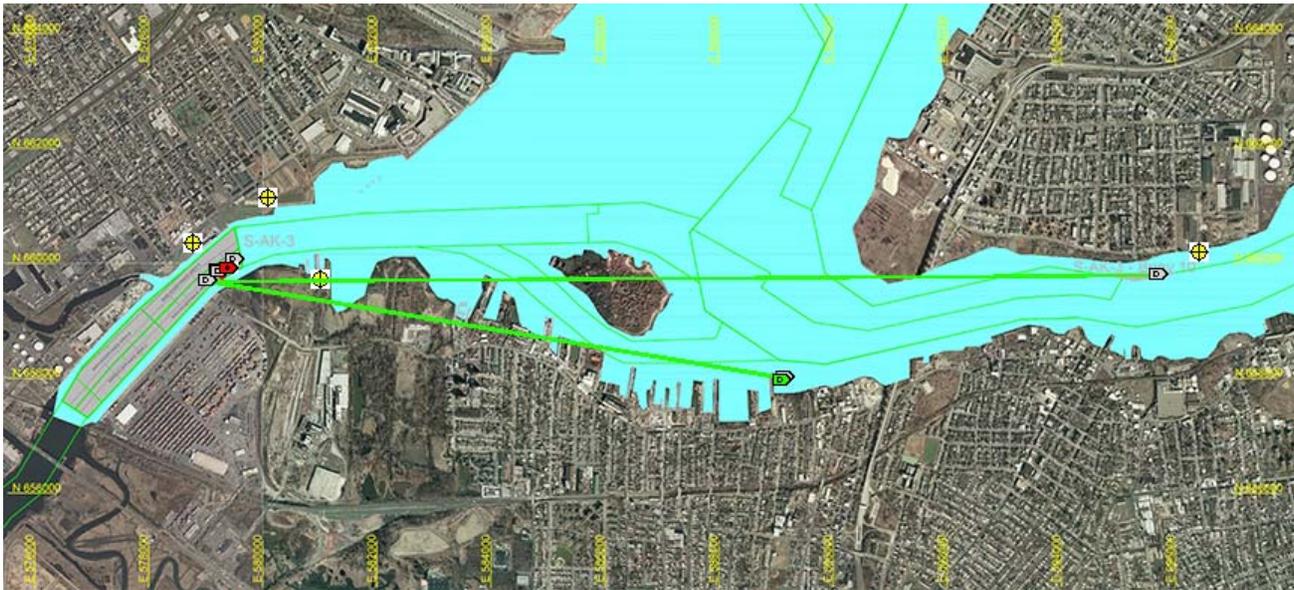
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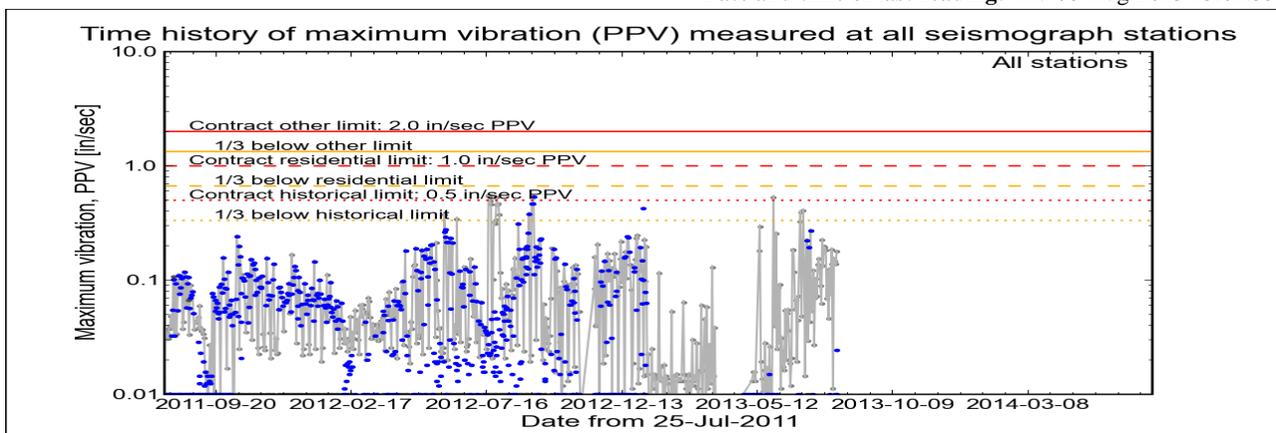
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Latest Event Summary

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Date and time of last reading: Thu 08-Aug-2013 13:02:35



(Click on graph or [here](#) for larger view)

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Ambient	Thu 08-Aug-2013	13:02:35	0.1790	Elizabeth Marina
Ambient	Wed 07-Aug-2013	15:17:36	0.1380	Elizabeth Marina
Ambient	Tue 06-Aug-2013	17:17:35	0.1460	Elizabeth Marina
Ambient	Mon 05-Aug-2013	20:47:33	0.1540	Elizabeth Marina
Ambient	Sun 04-Aug-2013	20:01:45	0.0112	Bayonne
Ambient	Sat 03-Aug-2013	02:02:02	0.1850	Bavonne



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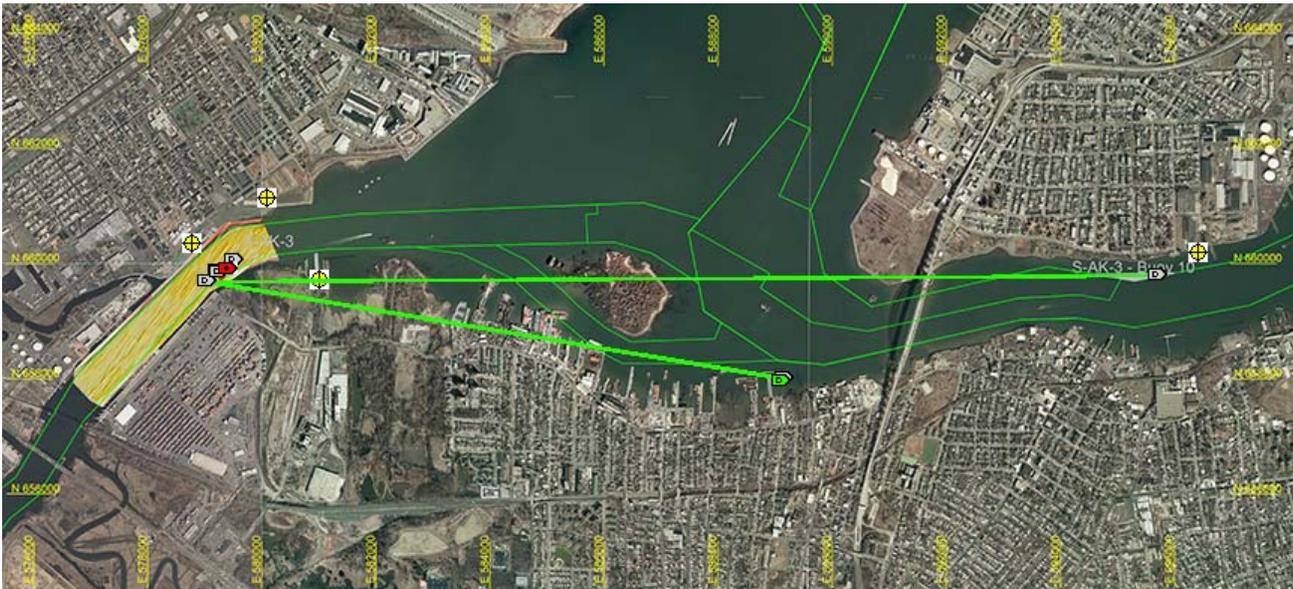
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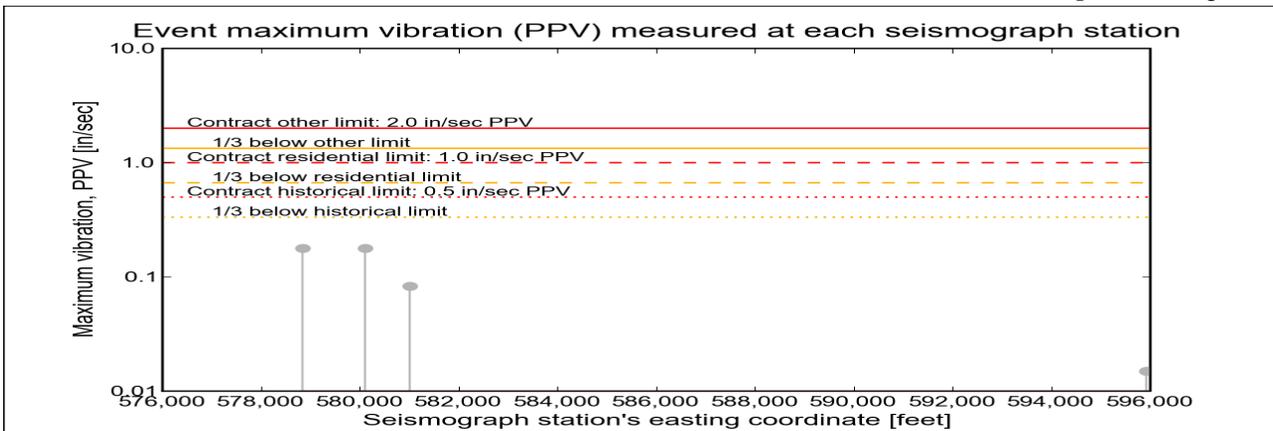
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Date of reading: Thu 08-Aug-2013



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Elizabeth Port - e4s009	Thu 08-Aug-2013	13:02:35	0.179	Ambient
NYCT - e4s008	Thu 08-Aug-2013	20:37:45	0.0831	Ambient
Bayonne - e4s011	Thu 08-Aug-2013	00:18:20	0.015	Ambient



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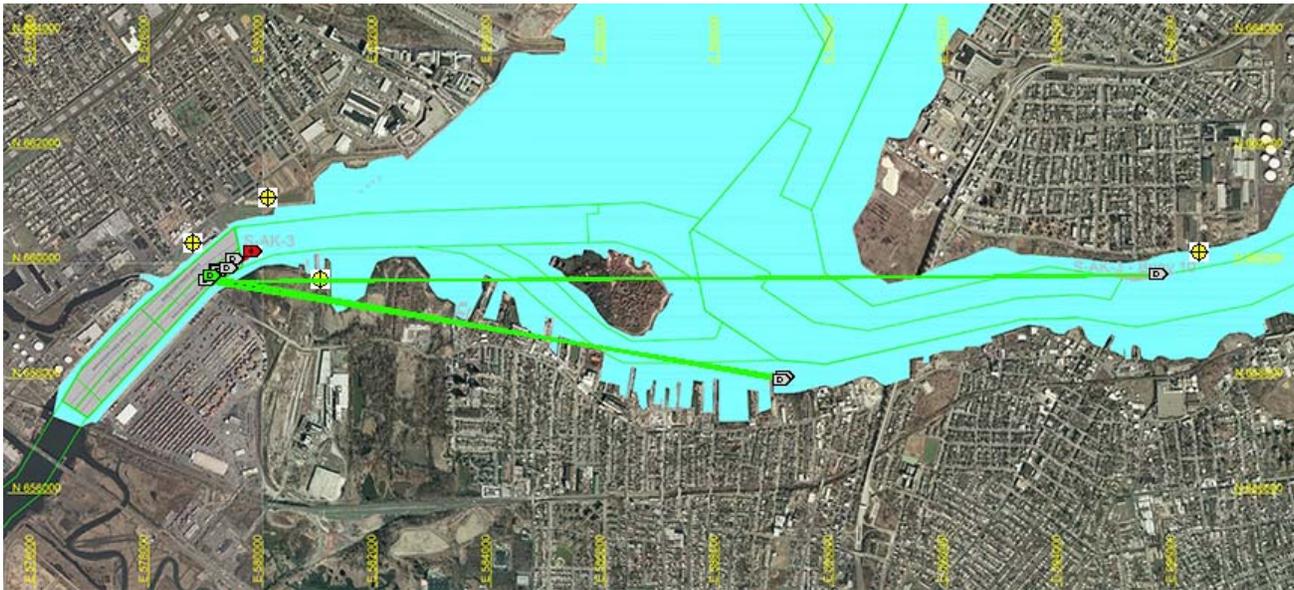
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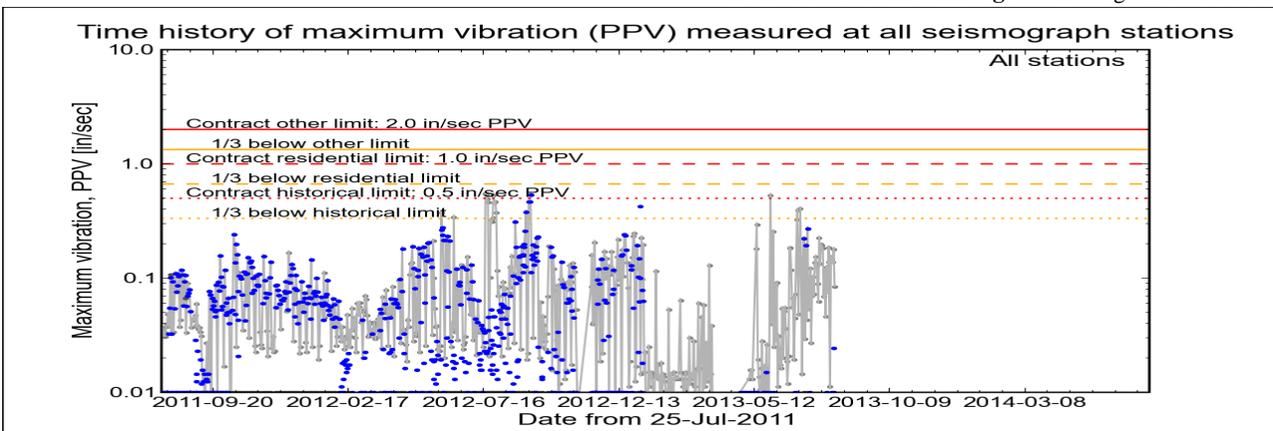
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Date and time of last reading: Fri 09-Aug-2013 18:53:30



(Click on graph or [here](#) for larger view)

The table below lists the date, time, level, and station of the maximum-vibration recording for each and every event. Selecting an event activates its event page.

Blast ID	Date	Time	Max PPV (in / second)	Max PPV Station
Ambient	Fri 09-Aug-2013	18:53:30	0.0844	NYCT
Ambient	Thu 08-Aug-2013	13:02:35	0.1790	Elizabeth Marina
Ambient	Wed 07-Aug-2013	15:17:36	0.1380	Elizabeth Marina
Ambient	Tue 06-Aug-2013	17:17:35	0.1460	Elizabeth Marina
Ambient	Mon 05-Aug-2013	20:47:33	0.1540	Elizabeth Marina
Ambient	Sun 04-Aug-2013	20:01:45	0.0112	Bavonne



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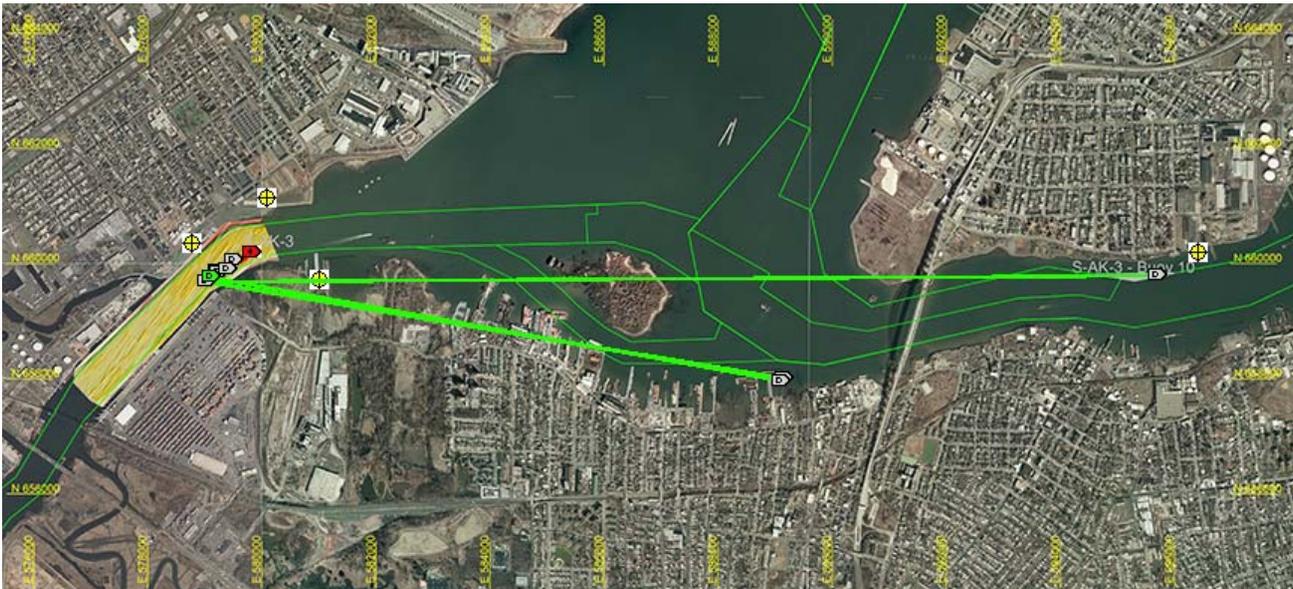
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Arthur Kill Blasting Event Summary

This page summarizes measurements of ground vibrations for the selected event. This page displays the maximum vibration recorded at each and every seismograph station during this event.

The Arthur Kill contract area is mapped below with a top-of-rock map. Today's dredge locations are marked by colored symbols, connected by colored lines to this week's past locations marked by gray symbols. The drilling and blasting barge location is marked in red. The easting and northing map coordinates in the New Jersey State Plane coordinate system are in yellow. The locations of active seismograph stations are marked by yellow station symbols. (e4sciences stations are circles. CDB stations are triangles.) Selecting a station activates its station page.

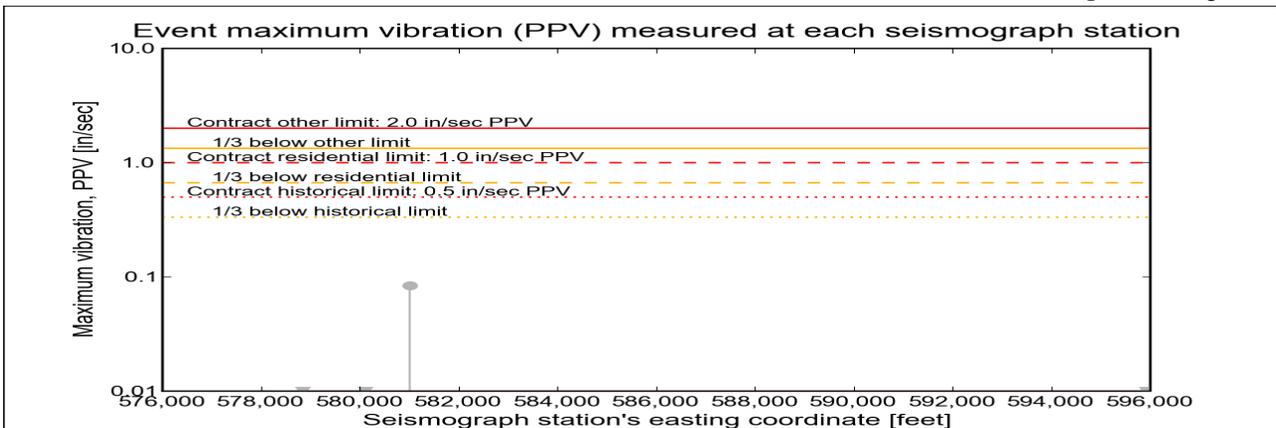
Click station for more information about the station.



Selected Event Summary

The graph below plots the maximum vibration during the selected event period (blast or ambient) recorded at each and every seismograph station along the easting positions. The vertical axis gives the maximum vibration in peak particle velocity (PPV) in units of inches per second (in/sec). If the maximum vibration level at a station is below 0.01 in/sec, the marker is a v-shaped triangle at 0.01 in/sec. (Light-gray stems indicate ambient-vibration level. Black stems indicate blast-vibration level. Dark-gray stems indicate predicted blast-vibration level.)

Date of reading: Fri 09-Aug-2013



(Click on graph or [here](#) for larger view)

The table below lists the date, time, and level of the maximum-vibration recording at each station for the selected event.

Station	Date	Time	Max PPV (in / second)	Vibration Type
Elizabeth Marina - e4s010	Fri 09-Aug-2013	00:25:31	0.00375	Ambient
Elizabeth Port - e4s009	Fri 09-Aug-2013	00:25:31	0.00375	Ambient
NYCT - e4s008	Fri 09-Aug-2013	18:53:30	0.0844	Ambient
Bayonne - e4s011	Fri 09-Aug-2013	16:01:46	0.00937	Ambient



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Home Event Summary Stations: Dredges History Links

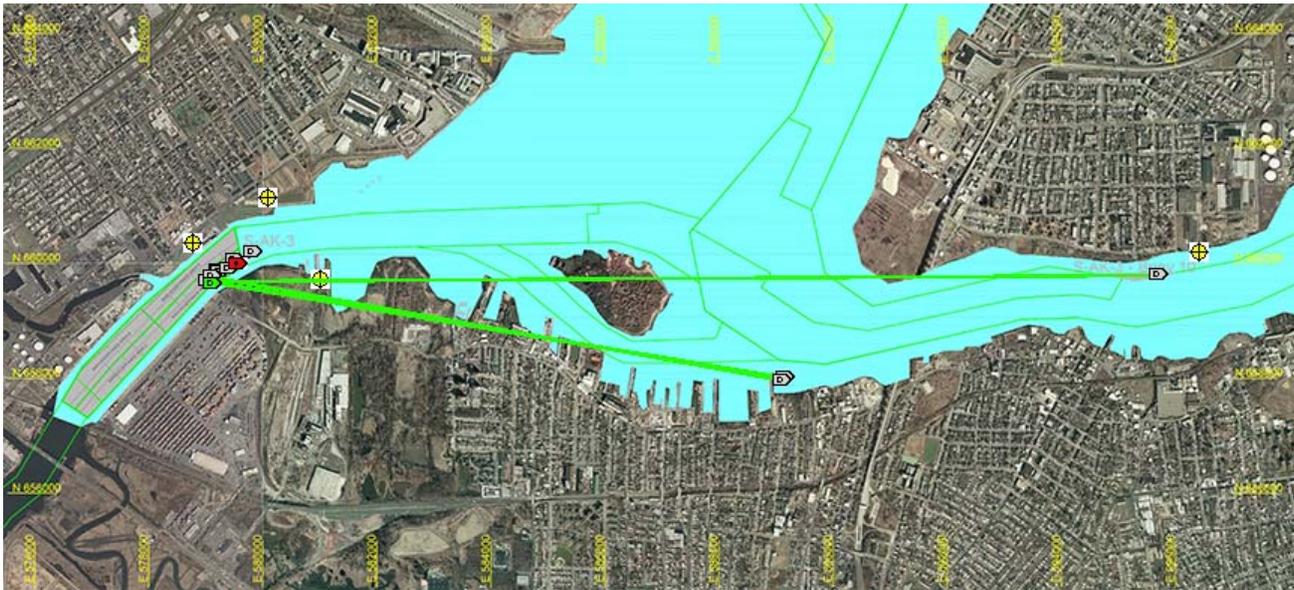
Arthur Kill Blast Vibration Summary

This site summarizes the measured ground vibrations in northwest Staten Island, from rock blasting in the Arthur Kill and other possible sources. The site is updated daily. The data are intended for the sole use of the US Army Corps of Engineers - New York District, for managing and monitoring the performance of NYNJ Harbor Deepening Project Contract in Arthur Kill starting 25 July 2011.

This page represents the most recent observations.

The Arthur Kill contract area is mapped below in light gray. The navigation grid is superimposed. Today's dredge locations are marked by colored symbols, connected by colored lines to this week's past locations marked by gray symbols. The drilling and blasting barge is marked in red. The easting and northing map coordinates in the New Jersey State Plane coordinate system are in yellow. The locations of active seismograph stations are marked by yellow station symbols. (e4sciences stations are circles. CDB stations are triangles.) Selecting a station activates its station page.

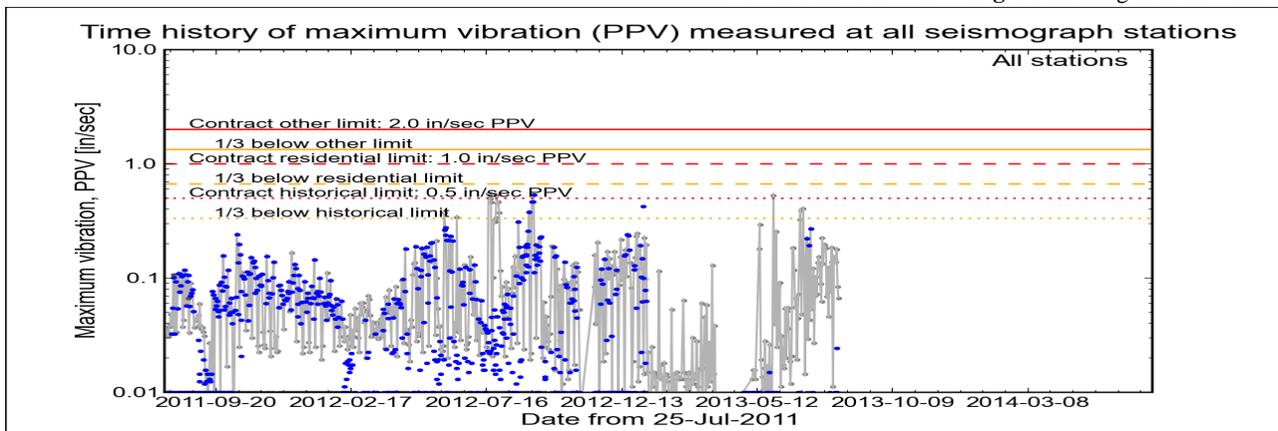
Click station for station information or click channel for event summary.



Latest Event Summary

The graph below is a plot of the maximum vibration recorded by any and all of the numerous seismograph stations during the current observation event (ambient or blast). The horizontal axis gives the date from the start of the project on 25 July 2011. The vertical axis gives the maximum vibration in peak particle velocity (PPV) in units of inches per second (in/sec). The red curves show the project's contract limits; the orange curves show one-third (1/3) below these contract limits. (The light gray curve is ambient-vibration level. The blue dots are blast-vibration levels. The dark gray dots are predicted blast-vibration levels.)

Date and time of last reading: Sat 10-Aug-2013 18:52:43



(Click on graph or [here](#) for larger view)

The table below lists the date, time, level, and station of the maximum-vibration recording for each and every event. Selecting an event activates its event page.

Blast ID	Date	Time	Max PPV (in / second)	Max PPV Station
Ambient	Sat 10-Aug-2013	18:52:43	0.0669	NYCT
Ambient	Fri 09-Aug-2013	18:53:30	0.0844	NYCT
Ambient	Thu 08-Aug-2013	13:02:35	0.1790	Elizabeth Marina
Ambient	Wed 07-Aug-2013	15:17:36	0.1380	Elizabeth Marina
Ambient	Tue 06-Aug-2013	17:17:35	0.1460	Elizabeth Marina
Ambient	Mon 05-Aug-2013	20:47:33	0.1540	Elizabeth Marina



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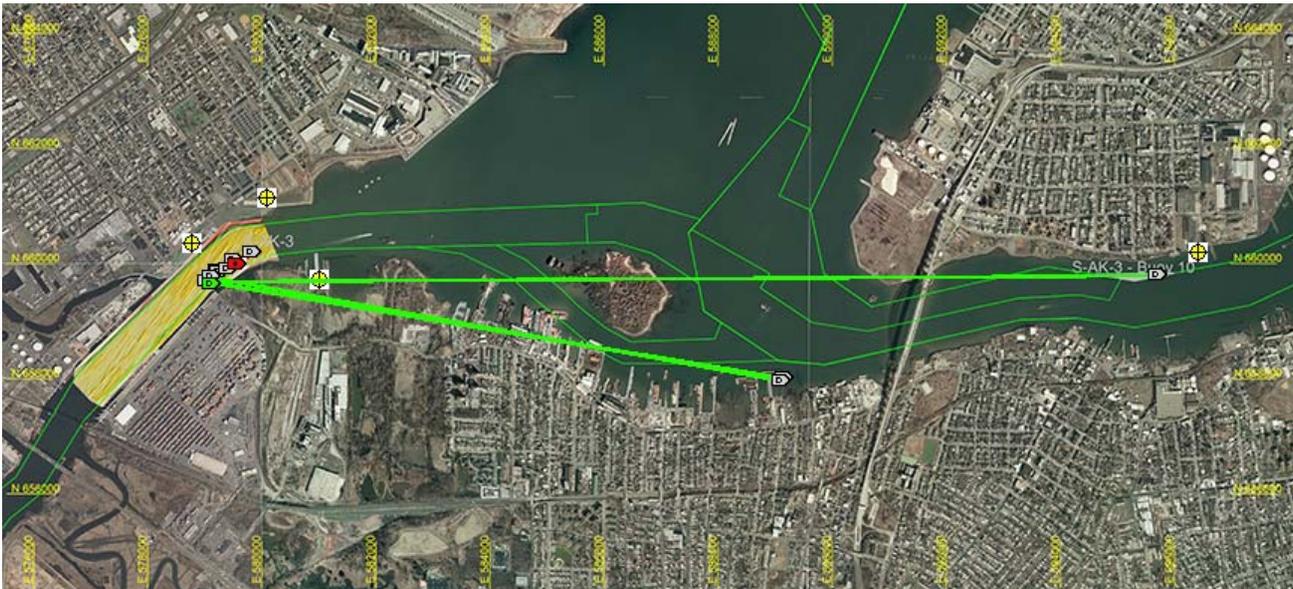
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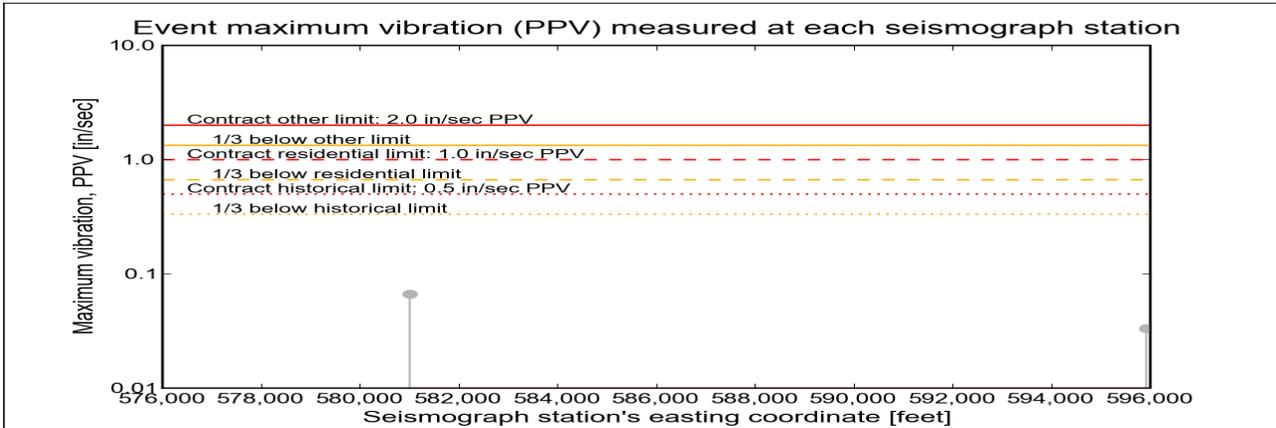
Click station for more information about the station.



Selected Event Summary

The graph below plots the maximum vibration during the selected event period (blast or ambient) recorded at each and every seismograph station along the easting positions. The vertical axis gives the maximum vibration in peak particle velocity (PPV) in units of inches per second (in/sec). If the maximum vibration level at a station is below 0.01 in/sec, the marker is a v-shaped triangle at 0.01 in/sec. (Light-gray stems indicate ambient-vibration level. Black stems indicate blast-vibration level. Dark-gray stems indicate predicted blast-vibration level.)

Date of reading: Sat 10-Aug-2013



(Click on graph or [here](#) for larger view)

The table below lists the date, time, and level of the maximum-vibration recording at each station for the selected event.

Station	Date	Time	Max PPV (in / second)	Vibration Type
NYCT - e4s008	Sat 10-Aug-2013	18:52:43	0.0669	Ambient
Bayonne - e4s011	Sat 10-Aug-2013	20:45:35	0.0331	Ambient



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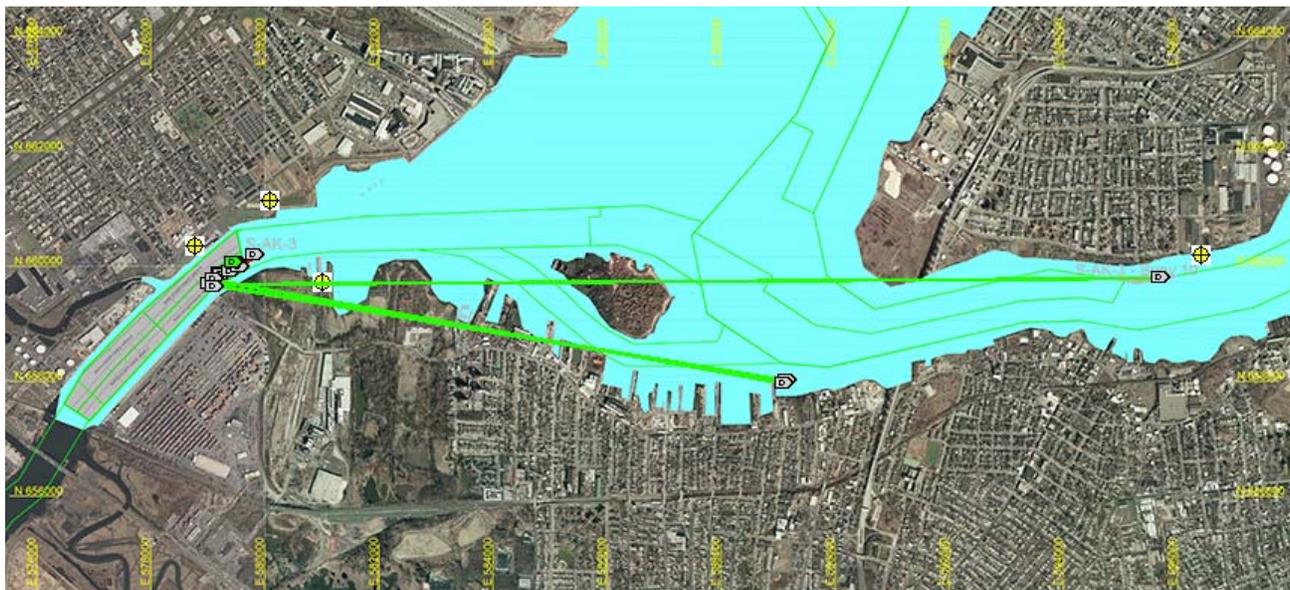
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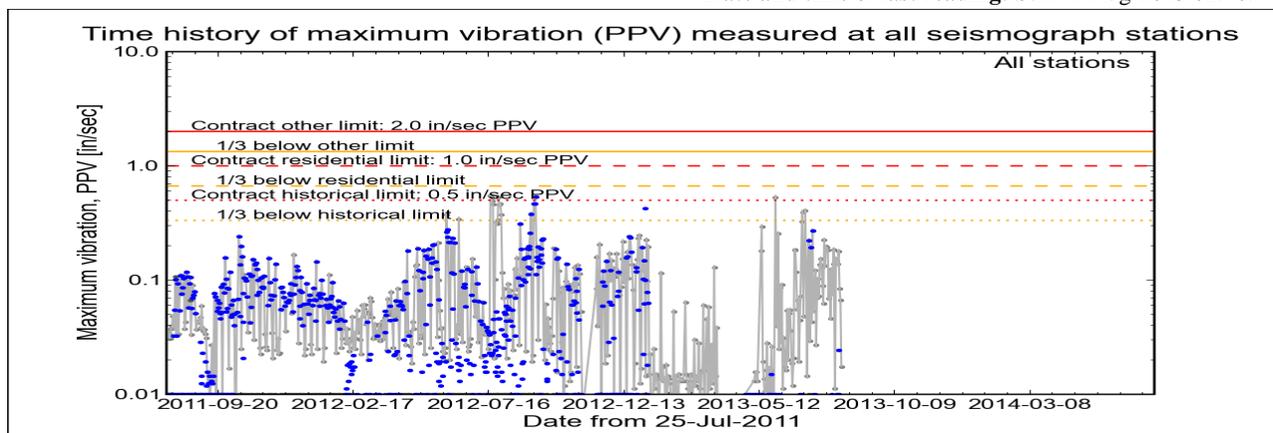
Click station for station information or click channel for event summary.



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Date and time of last reading: Sun 11-Aug-2013 02:46:44



(Click on graph or [here](#) for larger view)

The table below lists the date, time, level, and station of the maximum-vibration recording for each and every event. Selecting an event activates its event page.

Blast ID	Date	Time	Max PPV (in / second)	Max PPV Station
Ambient	Sun 11-Aug-2013	02:46:44	0.0175	Bayonne
Ambient	Sat 10-Aug-2013	18:52:43	0.0669	NYCT
Ambient	Fri 09-Aug-2013	18:53:30	0.0844	NYCT
Ambient	Thu 08-Aug-2013	13:02:35	0.1790	Elizabeth Marina
Ambient	Wed 07-Aug-2013	15:17:36	0.1380	Elizabeth Marina
Ambient	Tue 06-Aug-2013	17:17:35	0.1460	Elizabeth Marina



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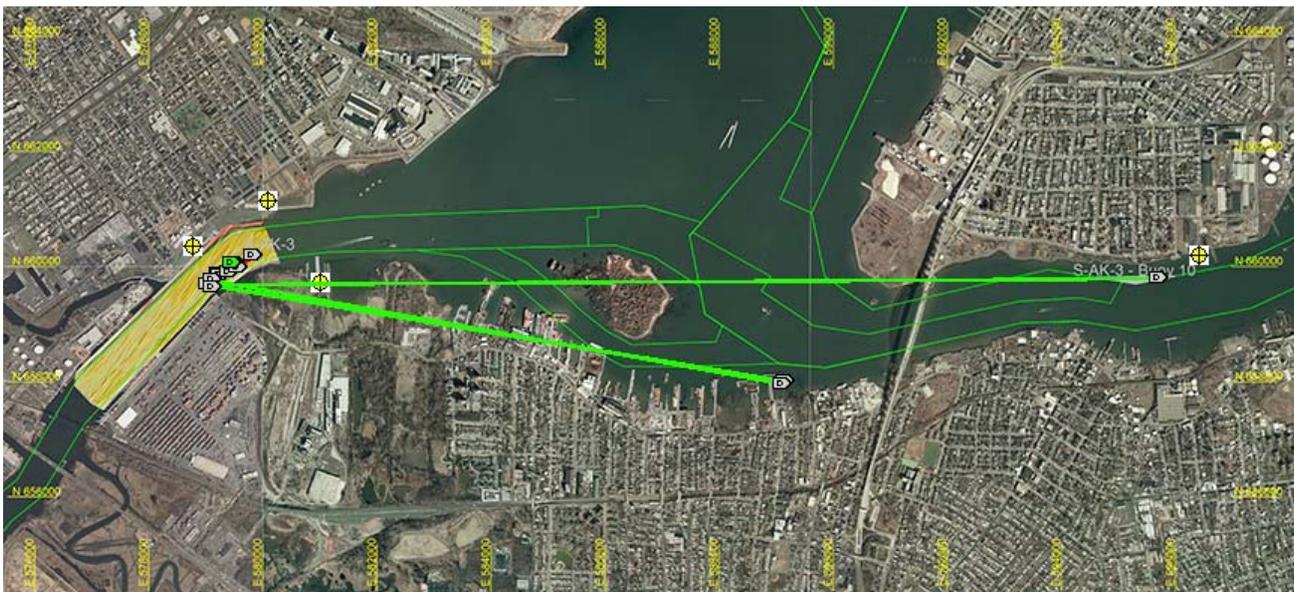
[Home](#) [Event Summary](#) [Stations:](#) [Dredges](#) [History](#) [Links](#)

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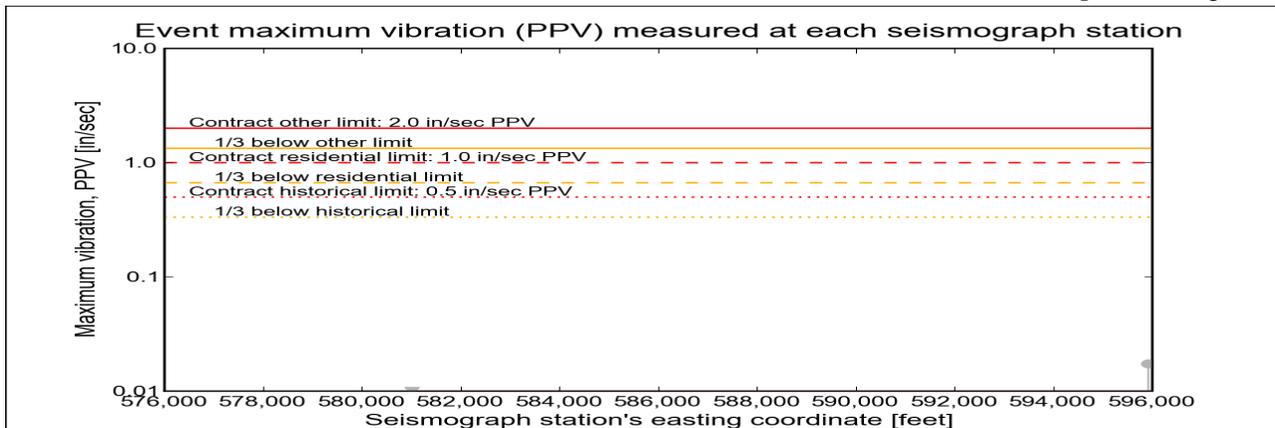
Click station for more information about the station.



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Date of reading: Sun 11-Aug-2013



(Click on graph or [here](#) for larger view)

The table below lists the date, time, and level of the maximum-vibration recording at each station for the selected event.

Station	Date	Time	Max PPV (in / second)	Vibration Type
NYCT - e4s008	Sun 11-Aug-2013	10:37:47	0.00437	Ambient
Bayonne - e4s011	Sun 11-Aug-2013	02:46:44	0.0175	Ambient



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