



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 July 29 – August 04, 2013

The following pages display the results from the USACE-NYD real-time website for the week of Monday, July 29, through Sunday, August 04, 2013.

There were 3 blasts this week in the KVK-Buoy 10 project area and 2 blasts in the S-AK-3 project area.

We recorded vibrations in the KVK-Buoy 10 project area and in the S-AK-3 project area. The maximum vibration recorded was 0.148 in/s recorded at Elizabeth Marina on August 03. 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. Drillboat Apache and Dredge 55 operated in KVK-Buoy 10 Monday through Thursday. Drillboat Apache and Dredge 55 operated in S-AK-3 Thursday 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:

July 29
July 30
July 31
August 01
August 02
August 03
August 04

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.

Ambient ground vibrations at NYCT were all below 0.05 in/s. Ambient vibrations at Elizabethport were all below 0.05 in/s. Ambient vibrations at Elizabeth Marina were all below 0.15 in/s. Vibrations at Bayonne were all below 0.125 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)
KVK-020	2013-07-29 17:00	0,930 - 16,250	0.101
KVK-021	2013-07-30 17:05	0,850 - 16,340	0.124
KVK-022	2013-08-01 16:52	0,700 - 16,510	0.0756
AK-008	2013-08-02 12:00	0,590 - 16,730	0.138
AK-009	2013-08-03 09:02	0,690 - 16,560	0.148



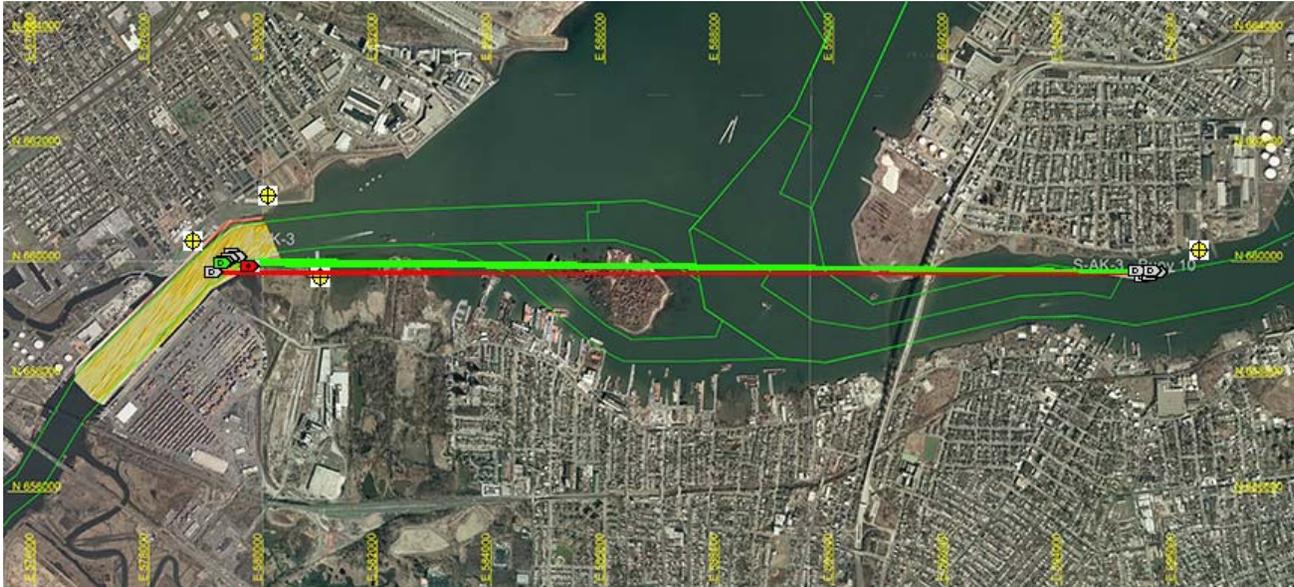
Home **Event Summary** Stations: **Dredges** History Links

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
2013-08-04 Sun	Dredge 55	579338	659952	
2013-08-04 Sun	Drillboat Apache	579782	659917	
2013-08-03 Sat	Dredge 55	595127	659832	
2013-08-03 Sat	Drillboat Apache	579365	659989	
2013-08-02 Fri	Dredge 55	594878	659831	
2013-08-02 Fri	Drillboat Apache	579172	659806	
2013-08-01 Thu	Dredge 55	579448	660026	
2013-08-01 Thu	Drillboat Apache	595238	659796	
2013-07-31 Wed	Dredge 55	579587	660063	
2013-07-31 Wed	Drillboat Apache	595100	659759	
2013-07-31 Wed	Drillboat Kraken	595163	659803	
2013-07-30 Tue				No Activity
2013-07-29 Mon	Dredge 55	579504	660099	
2013-07-29 Mon	Drillboat Apache	594989	659722	



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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.

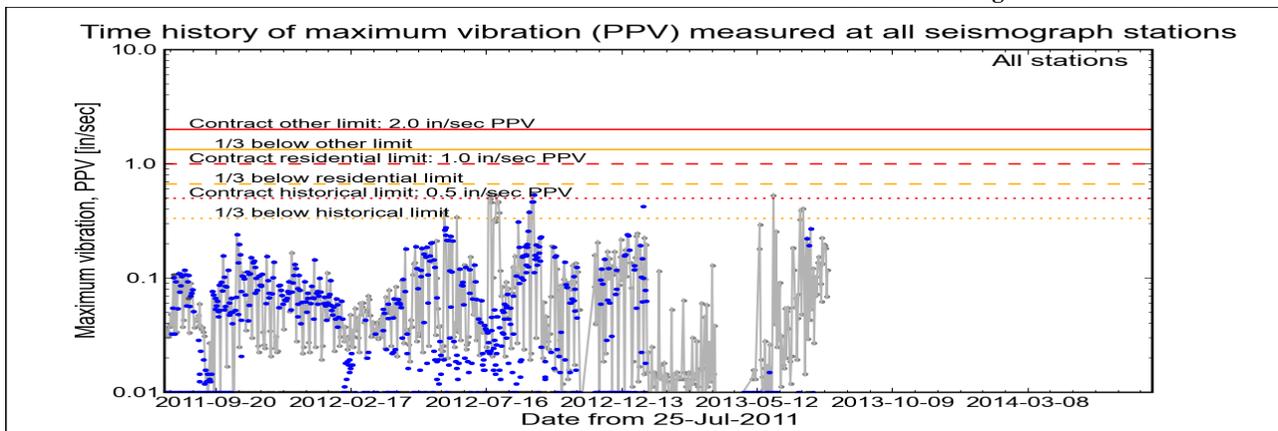
Click station for station information or click channel for event summary.



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Date and time of last reading: Mon 29-Jul-2013 20:50:19



(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 29-Jul-2013	20:50:19	0.1170	Bayonne
Ambient	Sun 28-Jul-2013	23:47:38	0.0687	Elizabeth Marina
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Ambient	Fri 26-Jul-2013	21:02:34	0.1940	Elizabeth Marina
Ambient	Thu 25-Jul-2013	18:25:41	0.1970	Elizabeth Marina
Ambient	Wed 24-Jul-2013	02:01:44	0.1340	Bavonne



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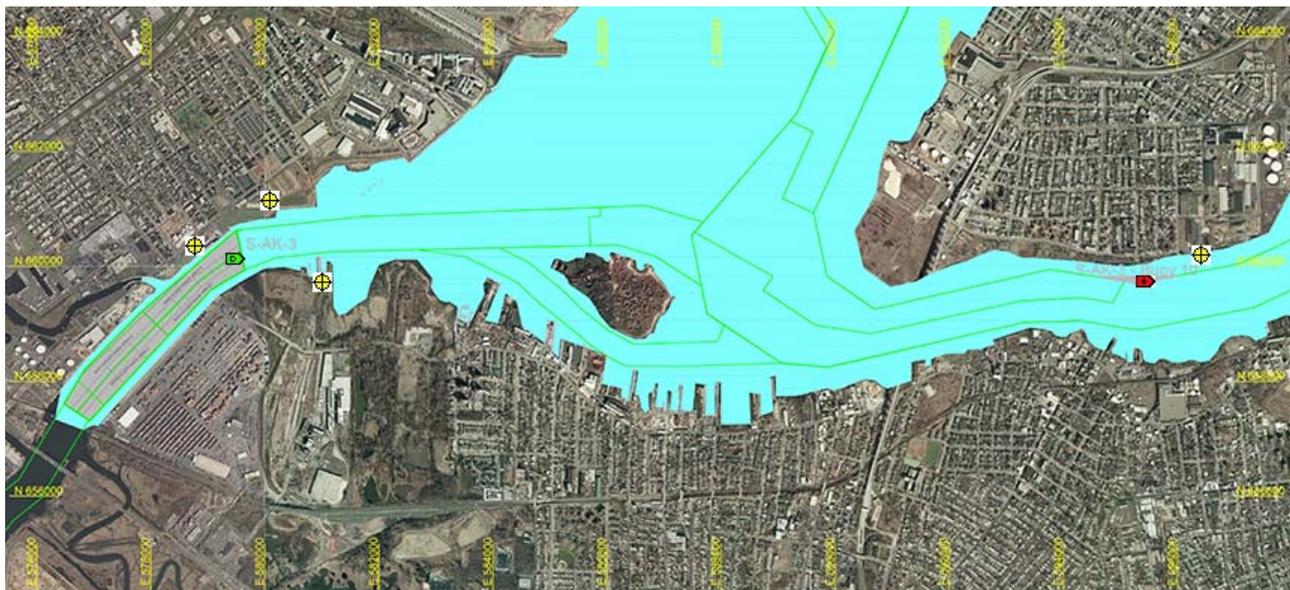
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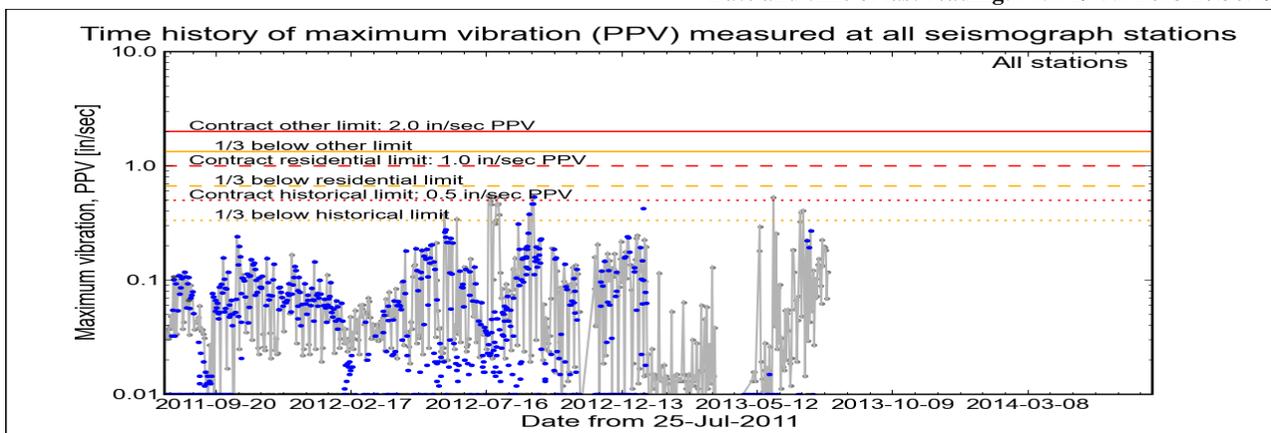
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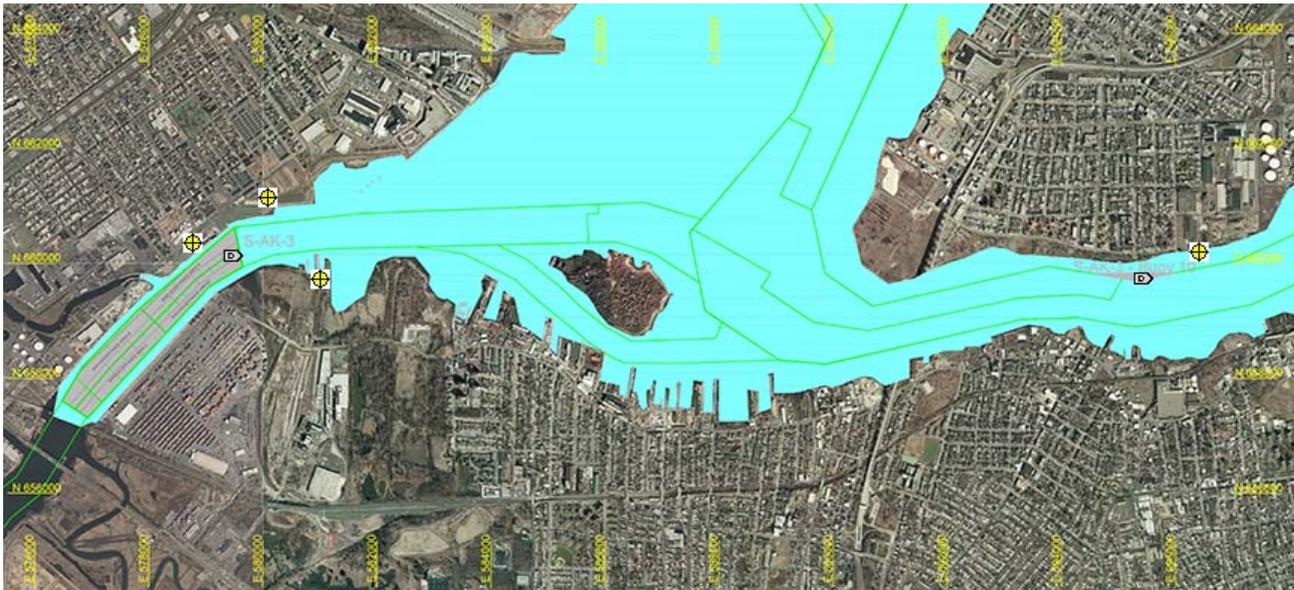
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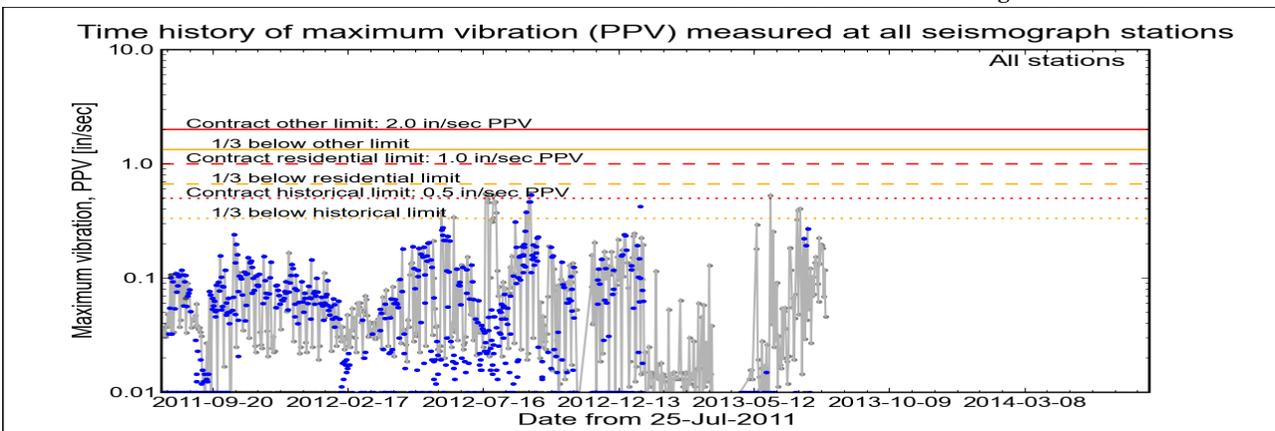
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Date and time of last reading: Tue 30-Jul-2013 12:35:19



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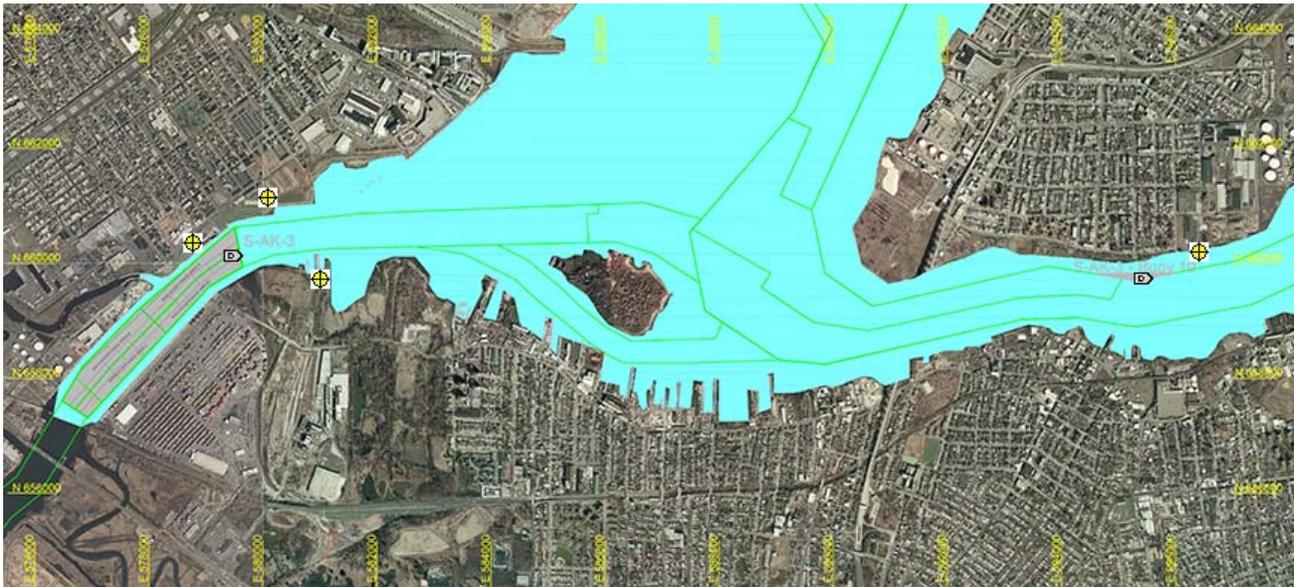
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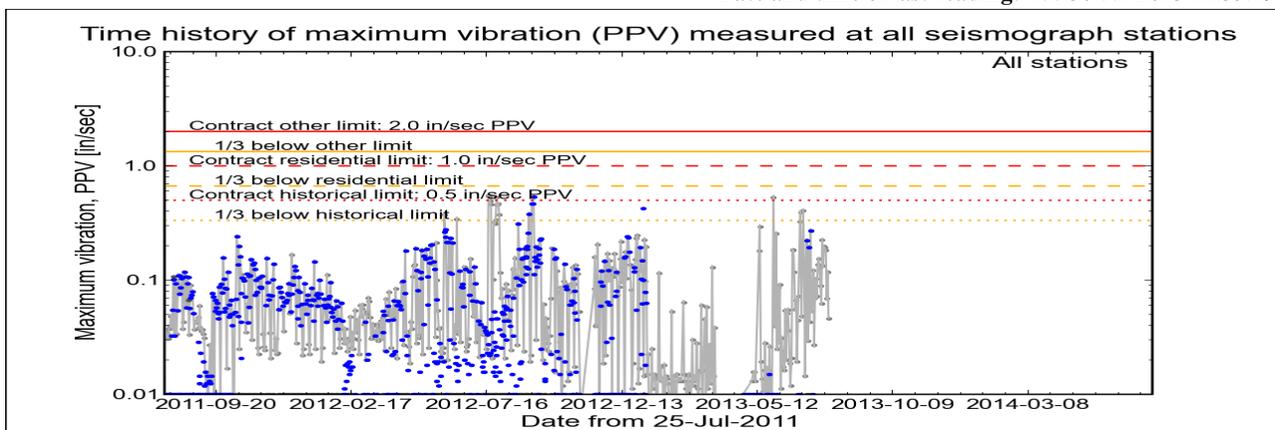
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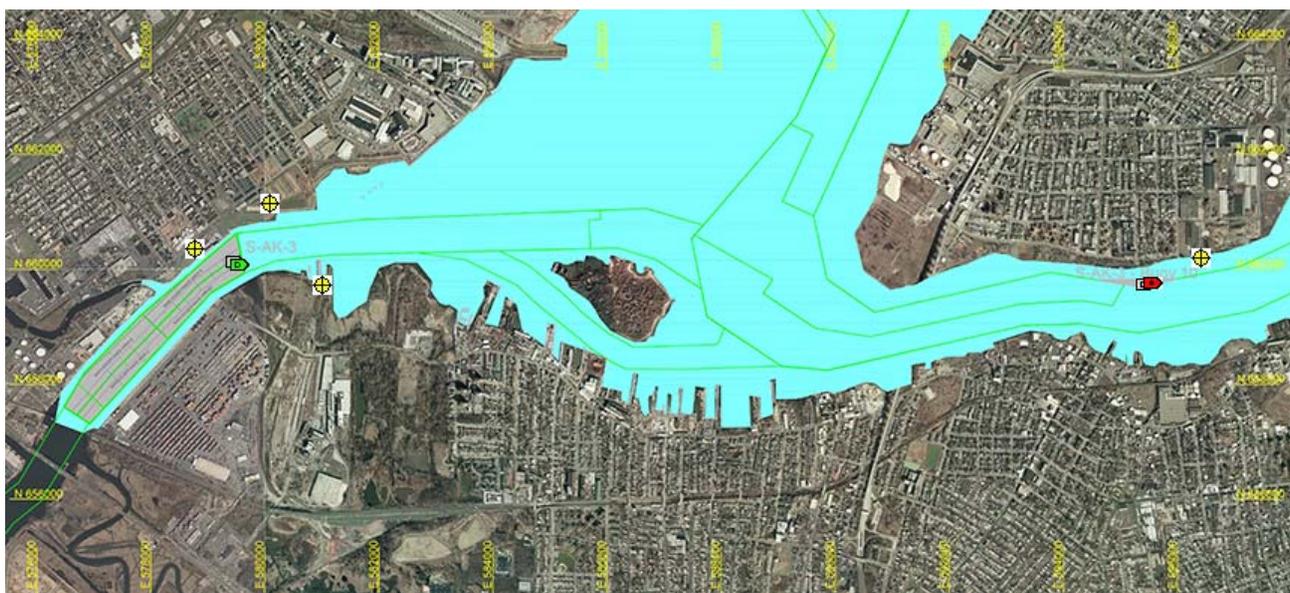
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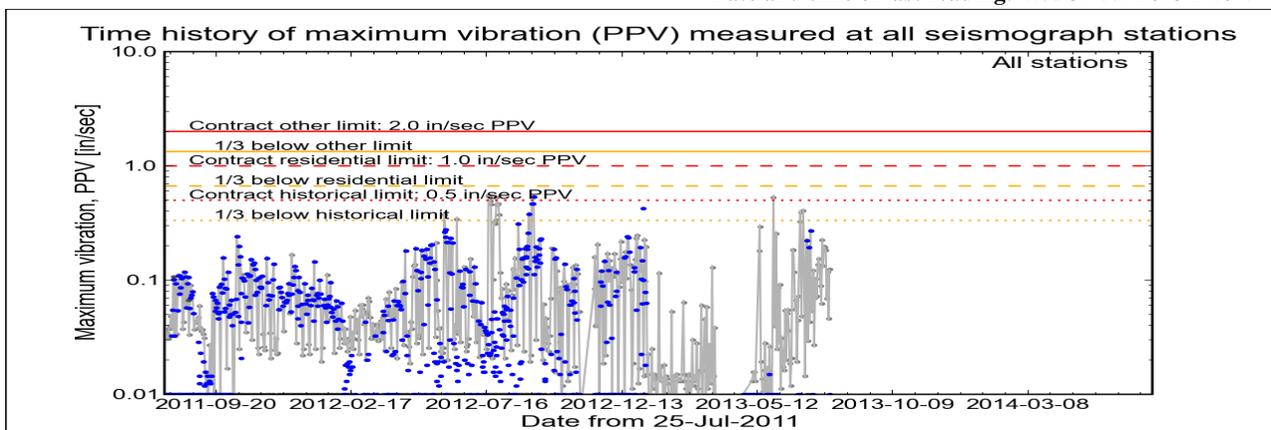
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Date and time of last reading: Wed 31-Jul-2013 21:01:44



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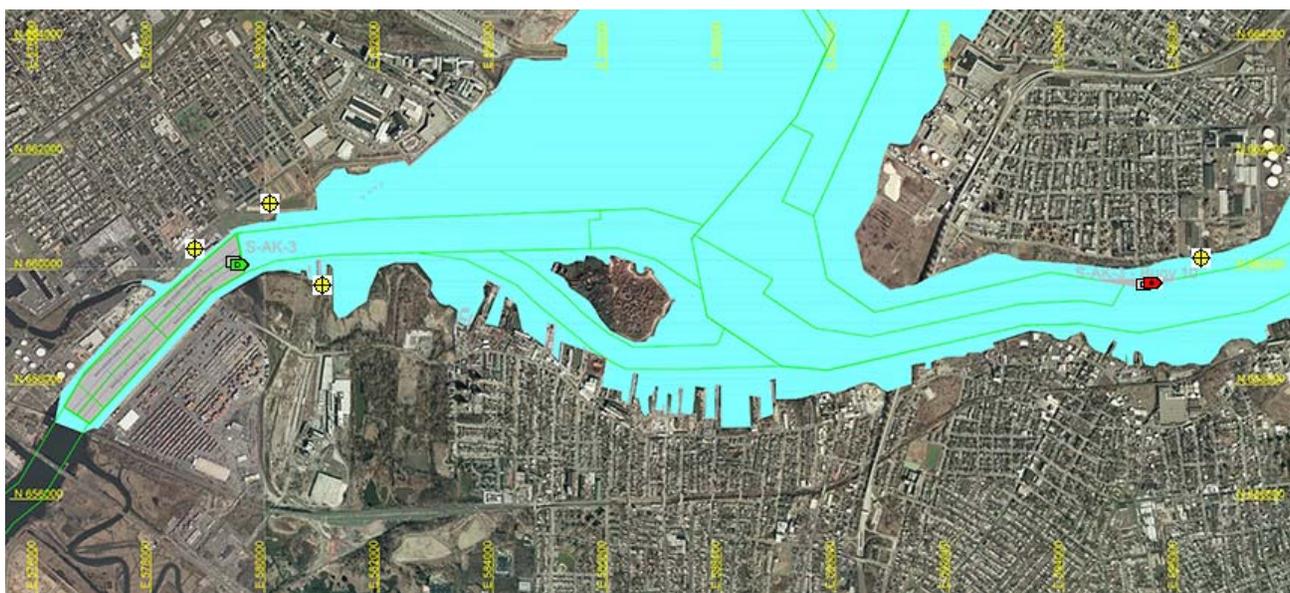
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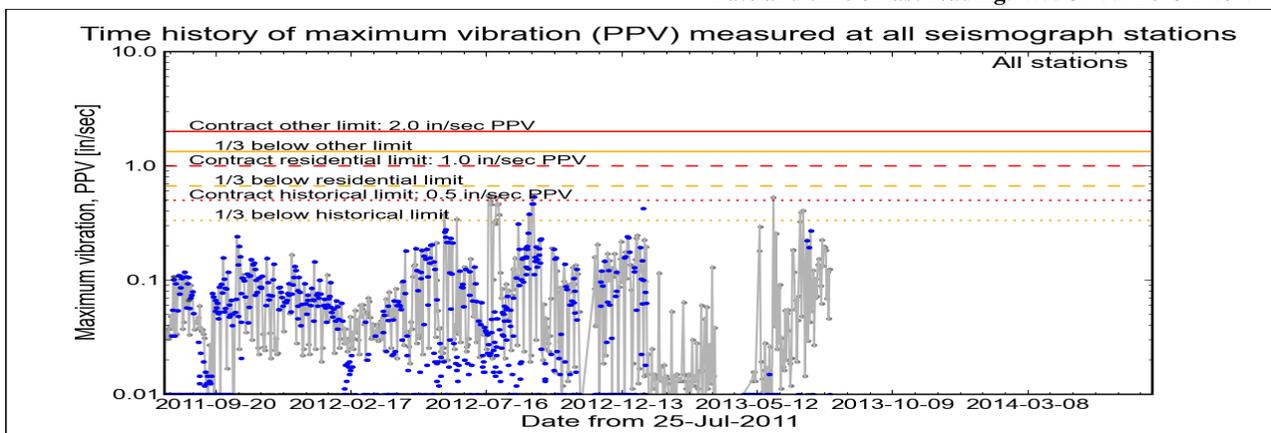
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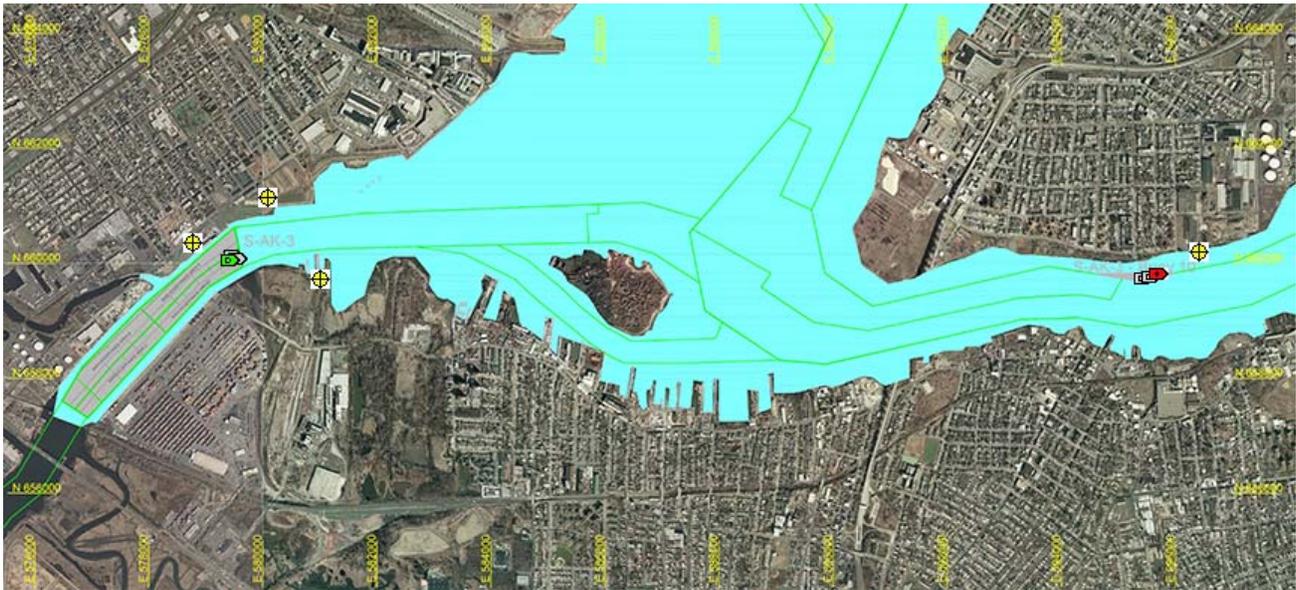
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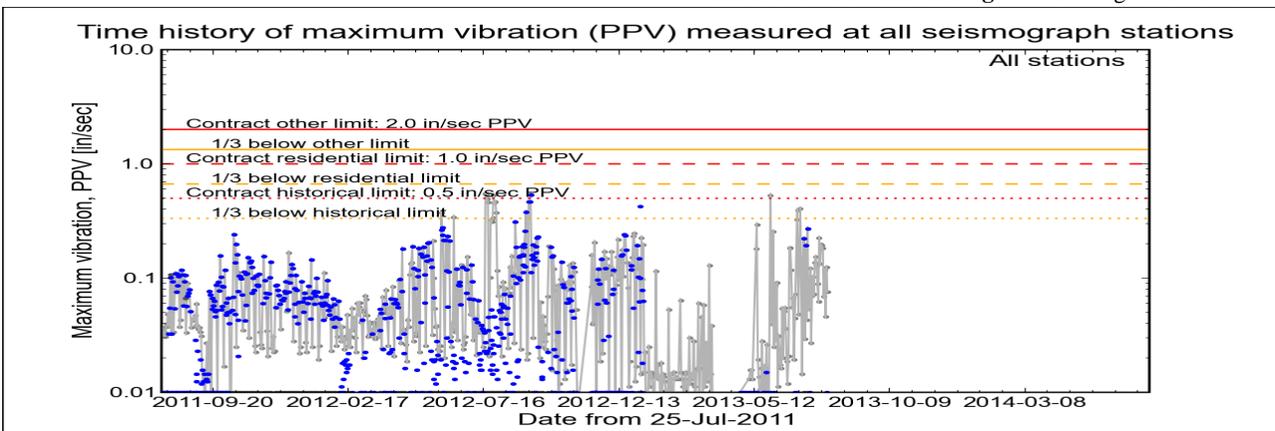
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Date and time of last reading: Thu 01-Aug-2013 20:46:44



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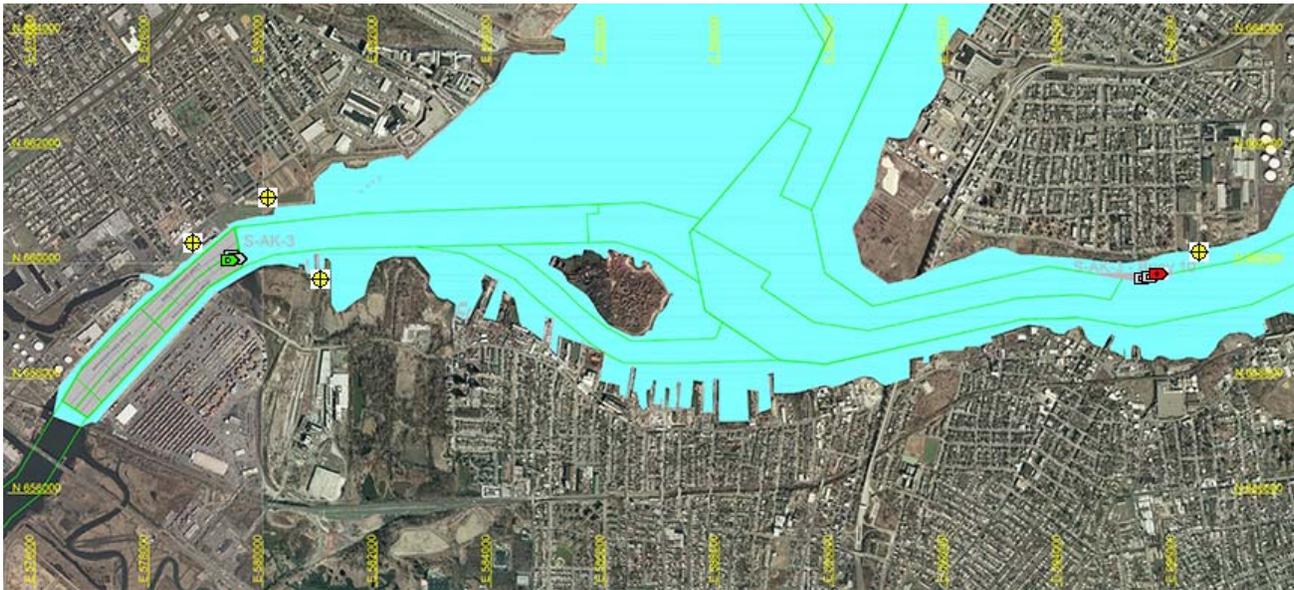
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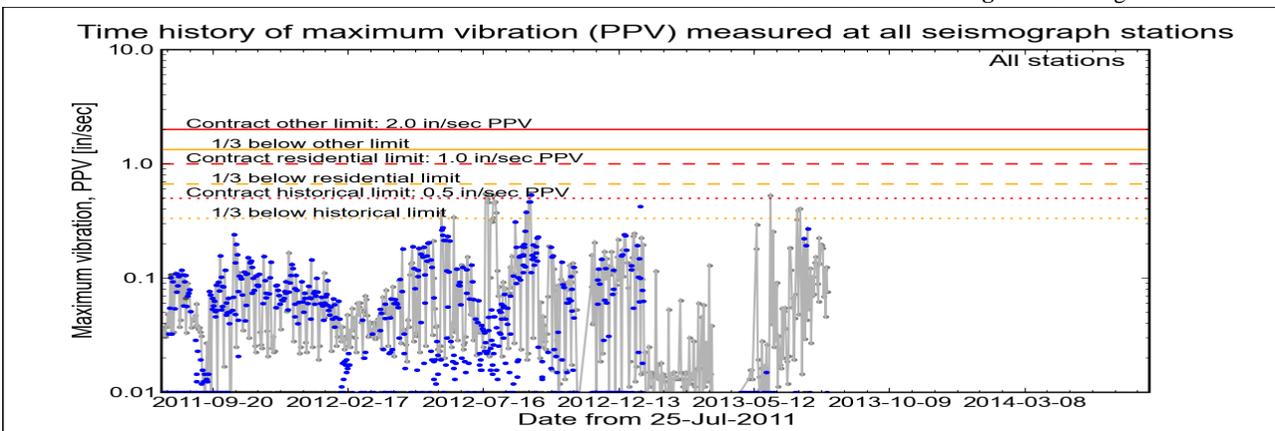
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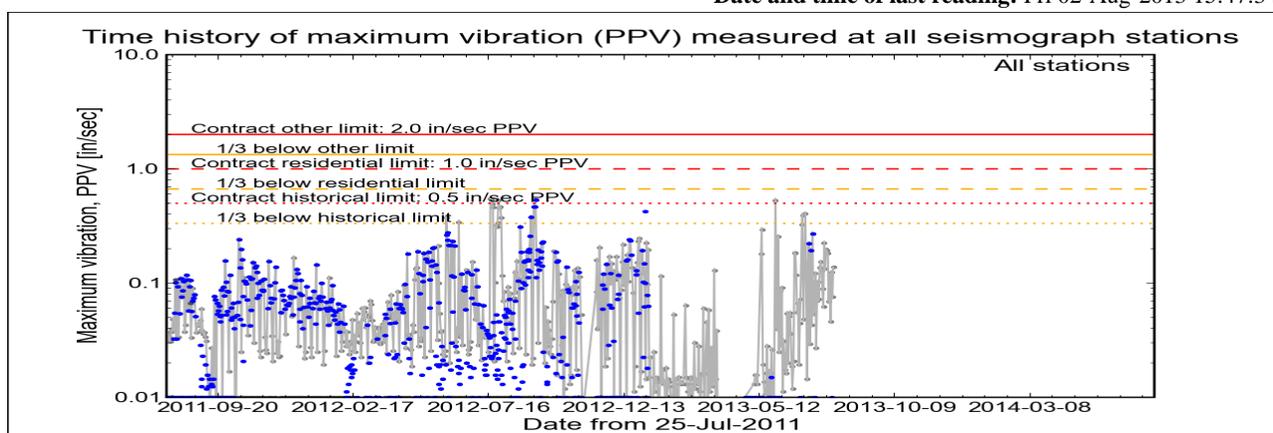
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Date and time of last reading: Fri 02-Aug-2013 15:47:34



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Blast ID	Date	Time	Max PPV (in / second)	Max PPV Station
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	Bayonne
Ambient	Tue 30-Jul-2013	12:35:19	0.0462	Bayonne
Ambient	Mon 29-Jul-2013	20:50:19	0.1170	Bayonne
Ambient	Sun 28-Jul-2013	23:47:38	0.0687	Elizabeth Marina



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.

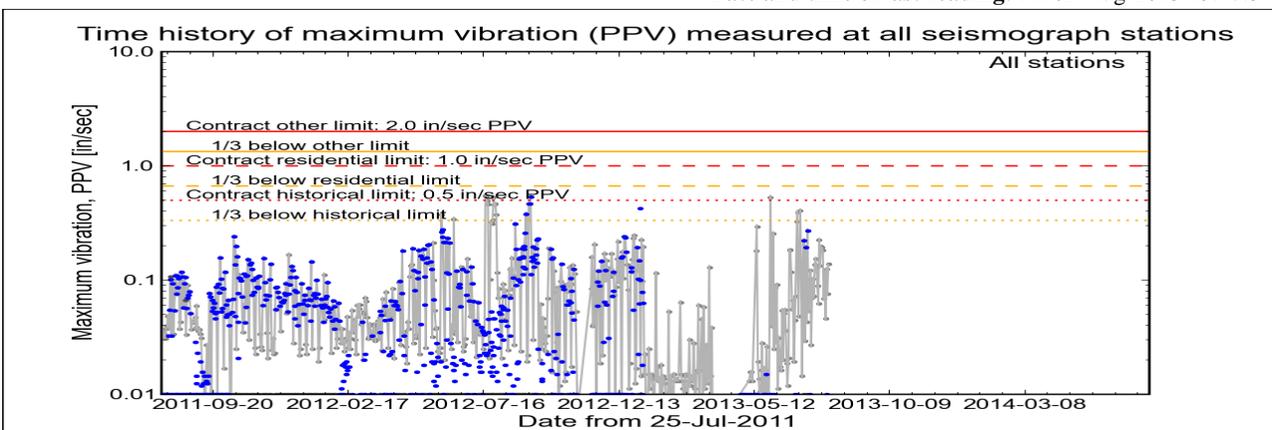
Click station for station information or click channel for event summary.



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: Fri 02-Aug-2013 15:47:34



(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 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	Bayonne
Ambient	Tue 30-Jul-2013	12:35:19	0.0462	Bayonne
Ambient	Mon 29-Jul-2013	20:50:19	0.1170	Bayonne
Ambient	Sun 28-Jul-2013	23:47:38	0.0687	Elizabeth Marina



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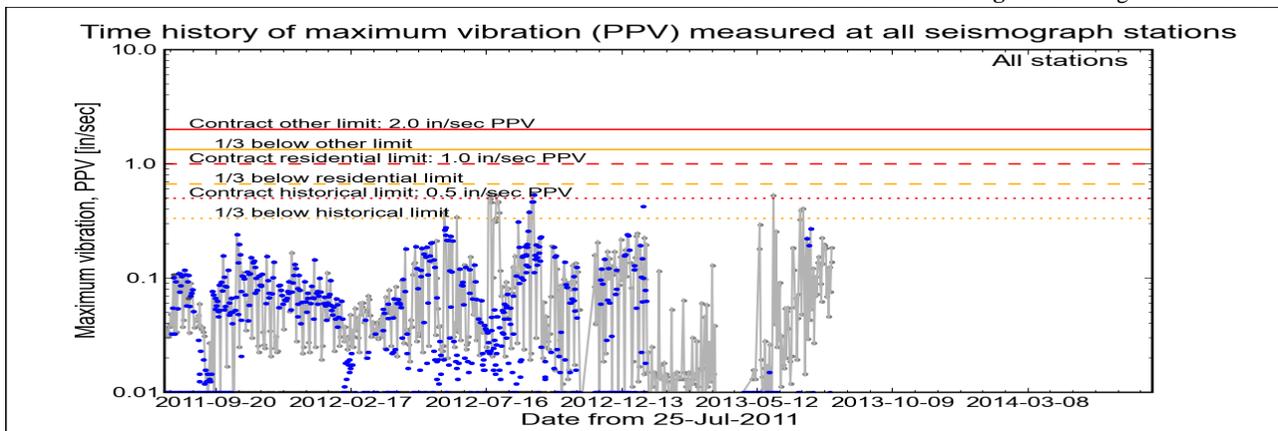
Click station for station information or click channel for event summary.



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 03-Aug-2013 02:02:02



(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 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	Bayonne
Ambient	Tue 30-Jul-2013	12:35:19	0.0462	Bayonne
Ambient	Mon 29-Jul-2013	20:50:19	0.1170	Bavonne



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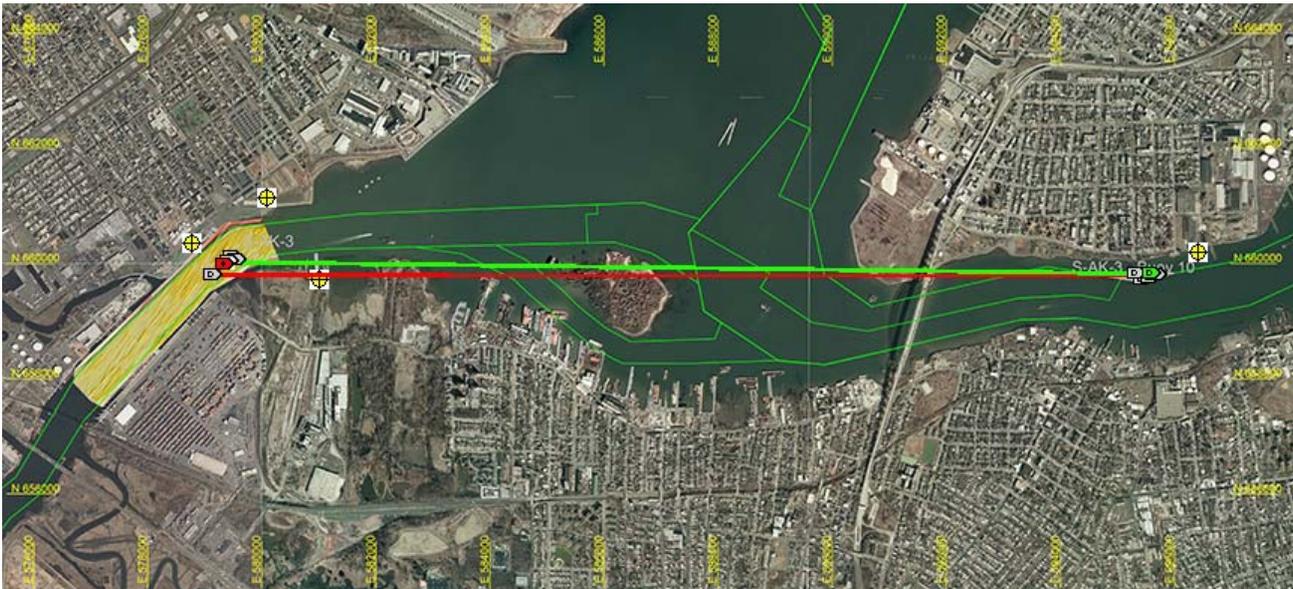
[Home](#) [Event Summary](#) [Stations:](#) [Dredges](#) [History](#) [Links](#)

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.

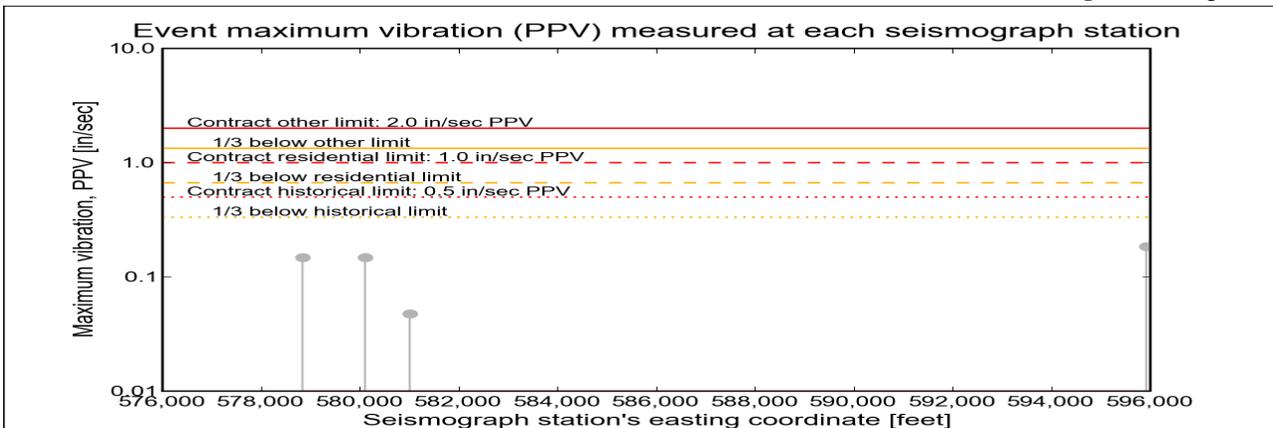
Click station for more information about the station.



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: Sat 03-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	Sat 03-Aug-2013	12:47:31	0.148	Ambient
Elizabeth Port - e4s009	Sat 03-Aug-2013	12:47:31	0.148	Ambient
NYCT - e4s008	Sat 03-Aug-2013	12:53:01	0.0475	Ambient
Bayonne - e4s011	Sat 03-Aug-2013	02:02:02	0.185	Ambient



Home Event Summary Stations: Dredges History Links

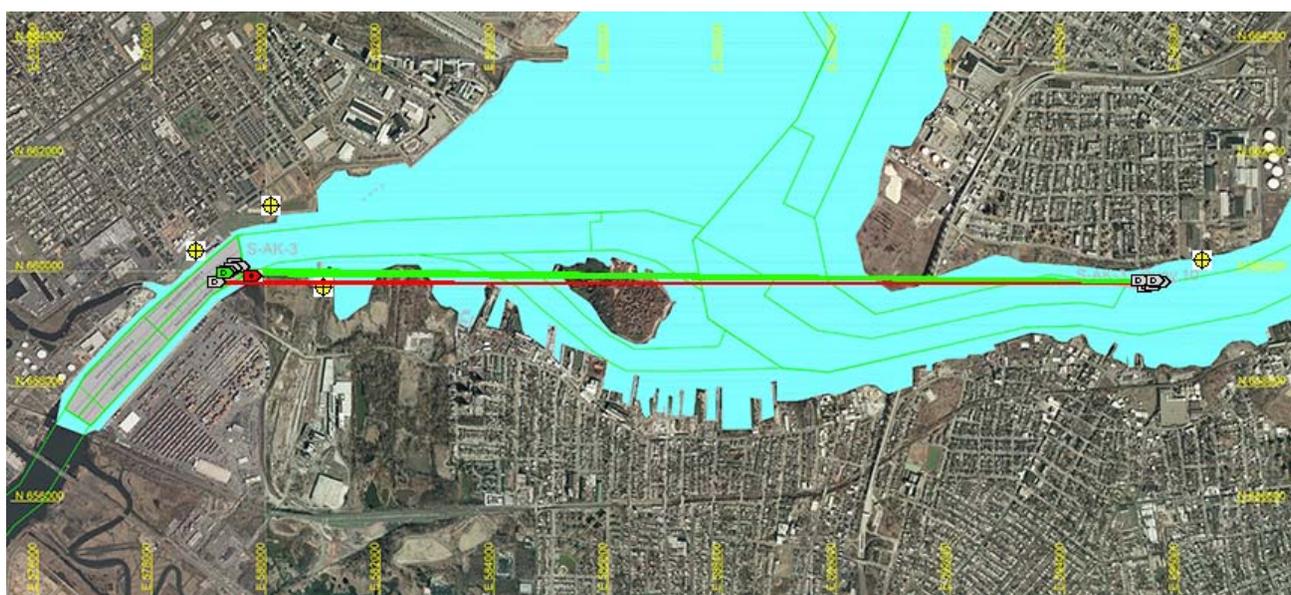
Arthur Kill Blast Vibration Summary

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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.

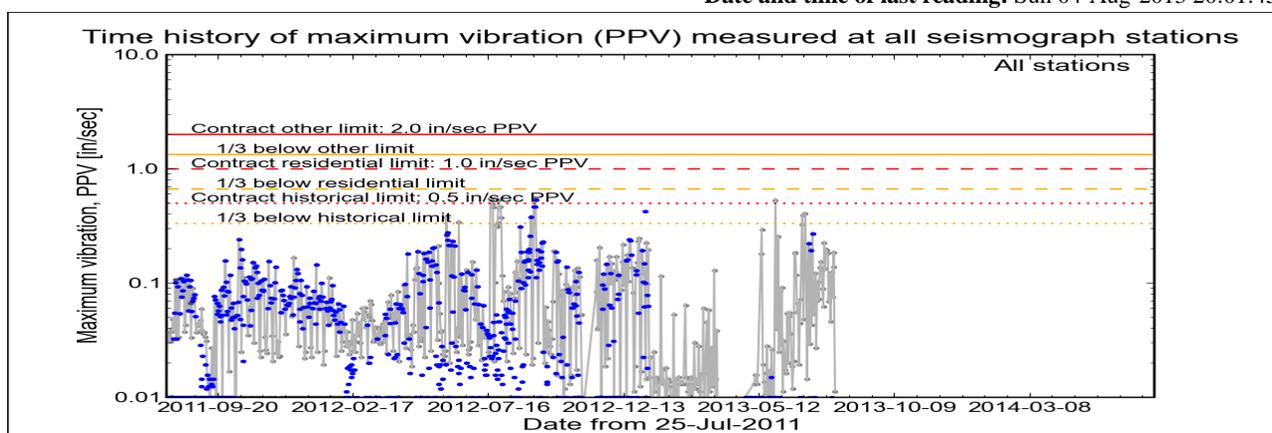
Click station for station information or click channel for event summary.



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: Sun 04-Aug-2013 20:01:45



(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 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	Bayonne
Ambient	Tue 30-Jul-2013	12:35:19	0.0462	Bavonne



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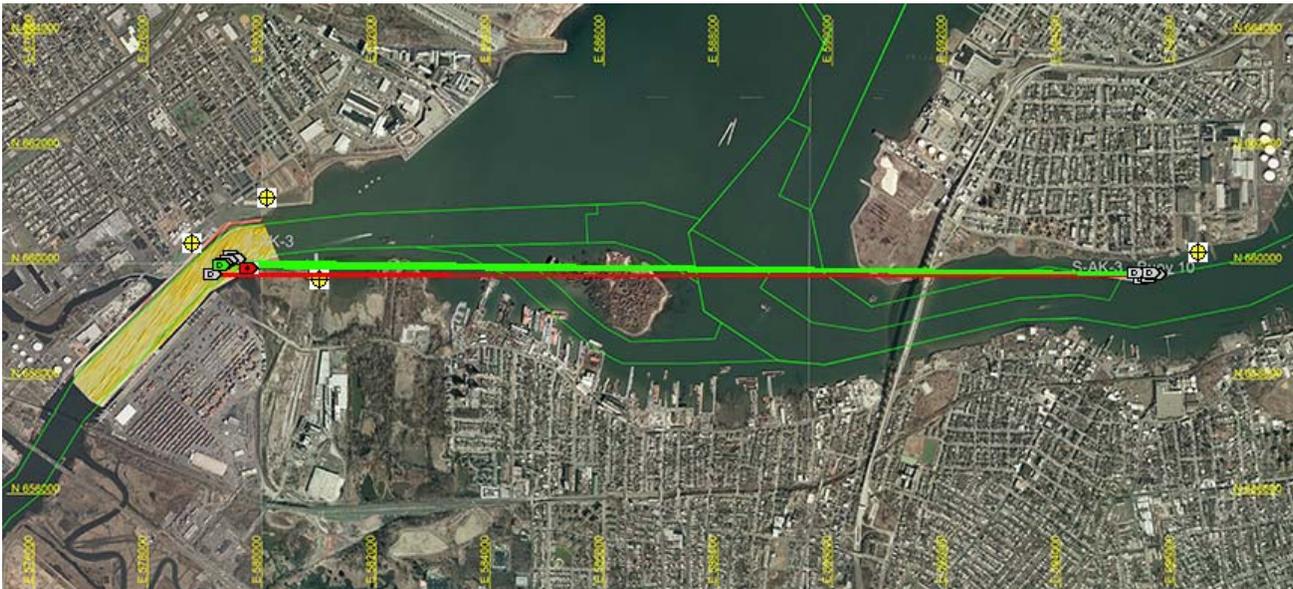
[Home](#) [Event Summary](#) [Stations:](#) [Dredges](#) [History](#) [Links](#)

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.

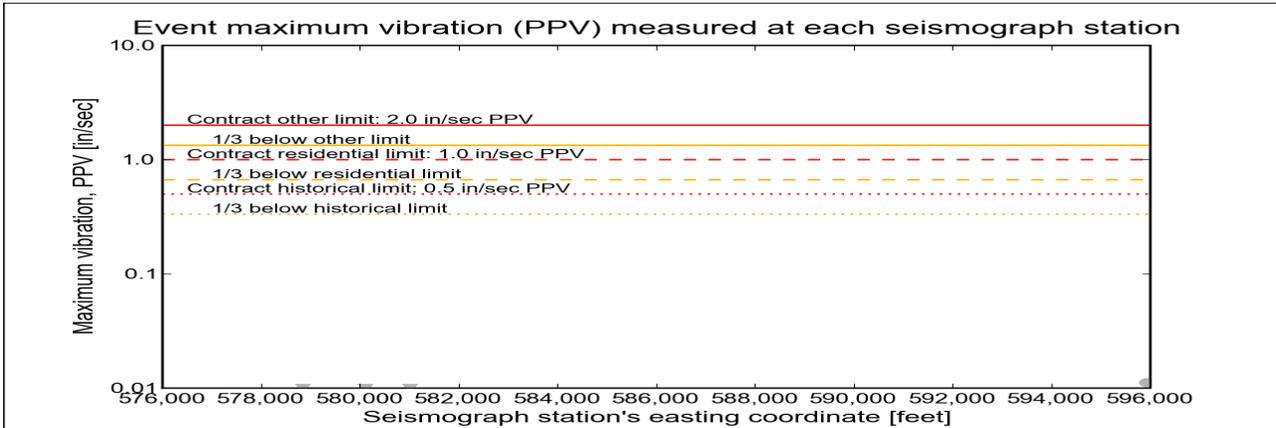
Click station for more information about the station.



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: Sun 04-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	Sun 04-Aug-2013	16:32:32	0.00625	Ambient
Elizabeth Port - e4s009	Sun 04-Aug-2013	16:32:32	0.00625	Ambient
NYCT - e4s008	Sun 04-Aug-2013	23:22:47	0.00562	Ambient
Bayonne - e4s011	Sun 04-Aug-2013	20:01:45	0.0112	Ambient