



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 June 24 – June 30, 2013

The following pages display the results from the USACE-NYD real-time website for the week of Monday, June 24, through Sunday, June 30, 2013.

There were 3 blasts this week in the KVK-Buoy 10 project area and 8 blasts in the West-ELIZ project area.

We recorded vibrations in the KVK-Buoy 10 project area and background vibrations in the S-AK-3 project area. The maximum vibration recorded was 0.393 in/s recorded at Bayonne on June 29. 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 West-ELIZ Monday through Thursday, then in KVK-Buoy 10 Friday through Sunday.-ELIZ on Saturday.

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:

- June 24
- June 25
- June 26
- June 27
- June 28
- June 29
- June 30

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 0.02 in/s. Ambient vibrations at Elizabethport were all below 0.03 in/s. Ambient vibrations at Elizabeth Marina were all below 0.09 in/s. Vibrations at Bayonne were all below 0.4 in/s (this station receives noise vibrations from vehicle traffic on W 1<sup>st</sup> Street). All blast vibration measurements are below the contract vibration limits for this site.

**Table 1.** Blast Summary for this week

<b>Blast</b>	<b>Date &amp; Time EST/EDT of blast</b>	<b>Distance from blast to e4s stations (feet)</b>	<b>e4s Max. vibration (in/s)</b>
WE-029	2013-06-24 09:30	16,100 - 18,150	n/a
WE-030	2013-06-24 15:54	16,040 - 17,750	n/a
WE-031	2013-06-25 09:30	16,050 - 17,720	n/a
WE-032	2013-06-25 16:56	15,870 - 17,750	n/a
WE-033	2013-06-26 09:30	15,880 - 17,720	n/a
WE-034	2013-06-26 17:45	16,030 - 17,640	n/a
WE-035	2013-06-27 09:30	15,850 - 17,640	n/a
WE-036	2013-06-27 17:30	15,840 - 17,590	n/a
KVK-003	2013-06-28 09:18	0,430 - 16,900	0.326
KVK-004	2013-06-28 17:30	0,540 - 16,750	0.0162
KVK-005	2013-06-29 11:35	0,400 - 16,900	0.393



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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
2013-06-30 Sun	Dredge 55	595793	659798	
2013-06-30 Sun	Drillboat Apache	594711	659830	
2013-06-29 Sat	Dredge 55	587943	659147	
2013-06-29 Sat	Drillboat Apache	595683	659761	
2013-06-28 Fri	Drillboat Apache	595683	659725	
2013-06-28 Fri	Drillboat Kraken	595564	659776	
2013-06-27 Thu				No Activity
2013-06-26 Wed				No Activity
2013-06-25 Tue				No Activity
2013-06-24 Mon				No Activity



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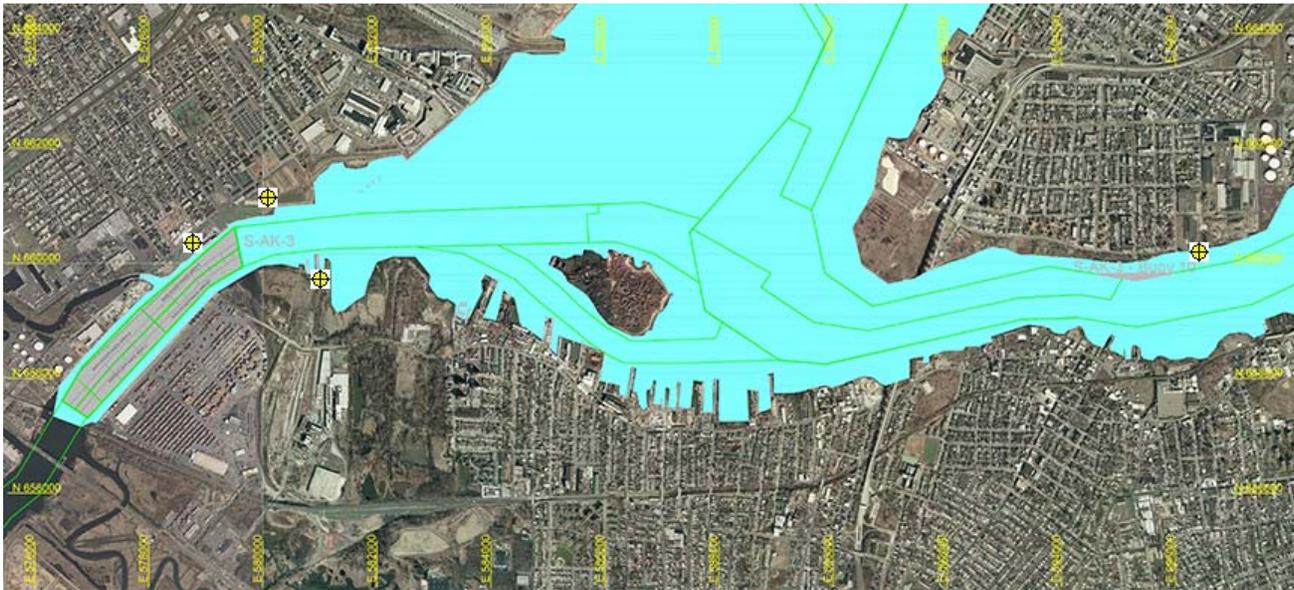
## Arthur Kill Blast Vibration Summary

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.

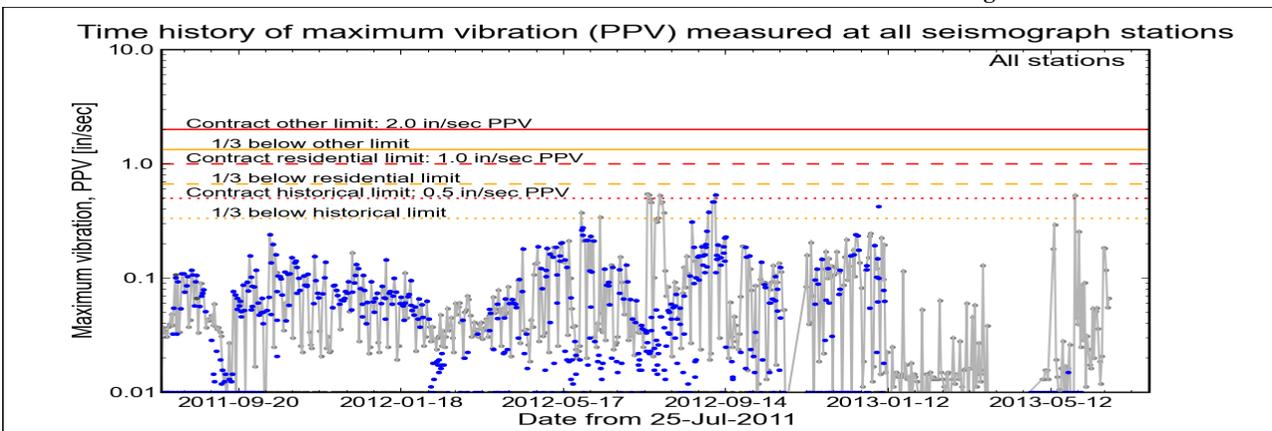
*Click station for station information or click channel for event summary.*



### 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: Mon 24-Jun-2013 02:59:27**



(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
<a href="#">Ambient</a>	<a href="#">Mon 24-Jun-2013</a>	02:59:27	0.0669	<a href="#">Bayonne</a>
<a href="#">Ambient</a>	<a href="#">Sun 23-Jun-2013</a>	01:46:44	0.0556	<a href="#">Bayonne</a>
<a href="#">Ambient</a>	<a href="#">Sat 22-Jun-2013</a>	12:56:30	0.1170	<a href="#">Elizabeth Marina</a>
<a href="#">Ambient</a>	<a href="#">Fri 21-Jun-2013</a>	19:01:44	0.1820	<a href="#">Bayonne</a>
<a href="#">Ambient</a>	<a href="#">Thu 20-Jun-2013</a>	21:29:21	0.1850	<a href="#">Bayonne</a>
<a href="#">Ambient</a>	<a href="#">Wed 19-Jun-2013</a>	22:30:32	0.0206	<a href="#">Bavonne</a>



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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.

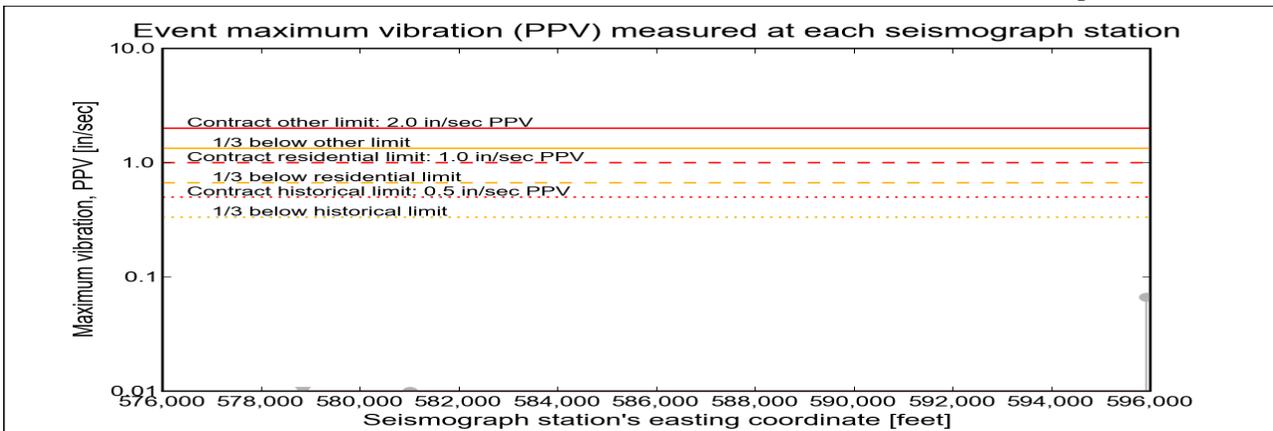
*Click station for more information about the station.*



### 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 24-Jun-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
<a href="#">Elizabeth Marina - e4s010</a>	<a href="#">Mon 24-Jun-2013</a>	00:32:33	0.00812	<a href="#">Ambient</a>
<a href="#">NYCT - e4s008</a>	<a href="#">Mon 24-Jun-2013</a>	16:37:44	0.01	<a href="#">Ambient</a>
<a href="#">Bayonne - e4s011</a>	<a href="#">Mon 24-Jun-2013</a>	02:59:27	0.0669	<a href="#">Ambient</a>



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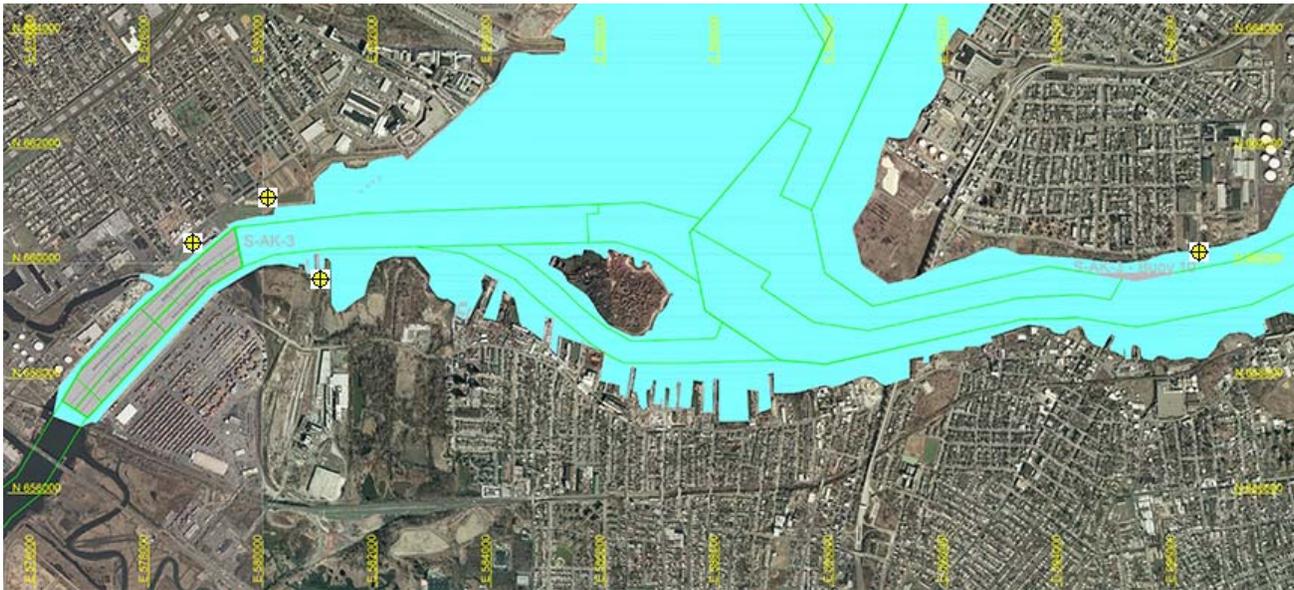
## Arthur Kill Blast Vibration Summary

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.

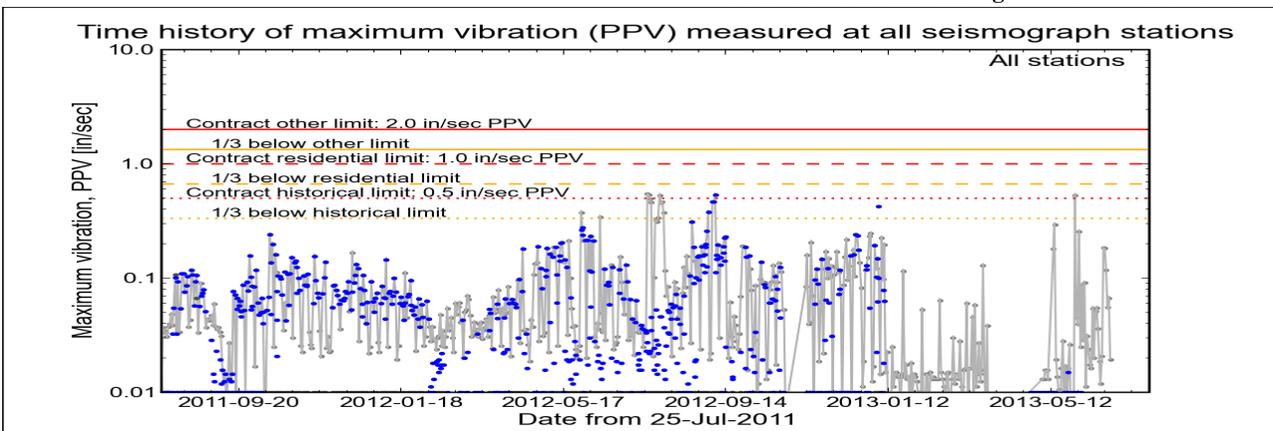
*Click station for station information or click channel for event summary.*



### 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: Tue 25-Jun-2013 23:46:44**



(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
<a href="#">Ambient</a>	<a href="#">Tue 25-Jun-2013</a>	23:46:44	0.0194	<a href="#">Bayonne</a>
<a href="#">Ambient</a>	<a href="#">Mon 24-Jun-2013</a>	02:59:27	0.0669	<a href="#">Bayonne</a>
<a href="#">Ambient</a>	<a href="#">Sun 23-Jun-2013</a>	01:46:44	0.0556	<a href="#">Bayonne</a>
<a href="#">Ambient</a>	<a href="#">Sat 22-Jun-2013</a>	12:56:30	0.1170	<a href="#">Elizabeth Marina</a>
<a href="#">Ambient</a>	<a href="#">Fri 21-Jun-2013</a>	19:01:44	0.1820	<a href="#">Bayonne</a>
<a href="#">Ambient</a>	<a href="#">Thu 20-Jun-2013</a>	21:29:21	0.1850	<a href="#">Bavonne</a>



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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.

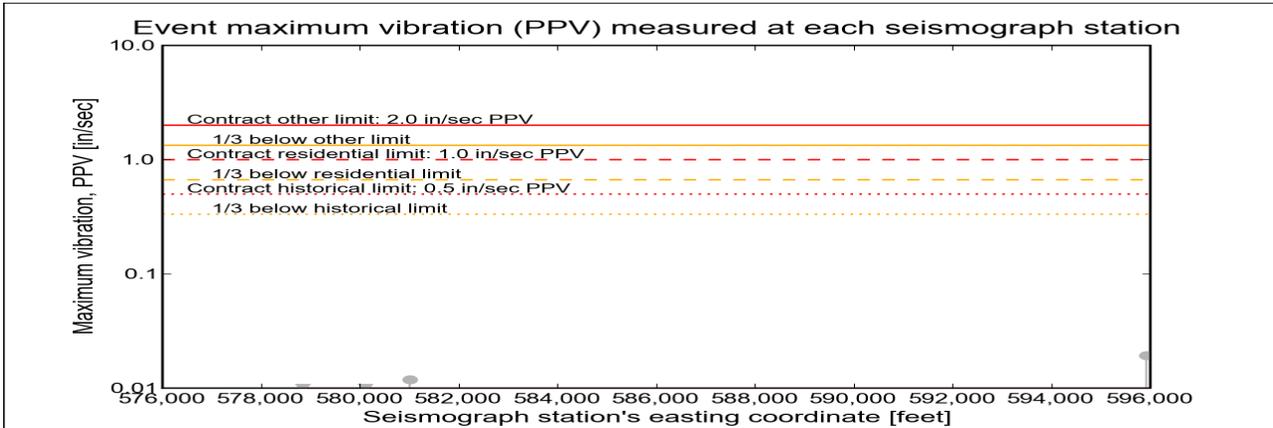
*Click station for more information about the station.*



### 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 25-Jun-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
<a href="#">Elizabeth Marina - e4s010</a>	Tue 25-Jun-2013	07:02:35	0.00875	<a href="#">Ambient</a>
<a href="#">Elizabeth Port - e4s009</a>	Tue 25-Jun-2013	17:50:17	0.005	<a href="#">Ambient</a>
<a href="#">NYCT - e4s008</a>	Tue 25-Jun-2013	12:07:44	0.0119	<a href="#">Ambient</a>
<a href="#">Bayonne - e4s011</a>	Tue 25-Jun-2013	23:46:44	0.0194	<a href="#">Ambient</a>



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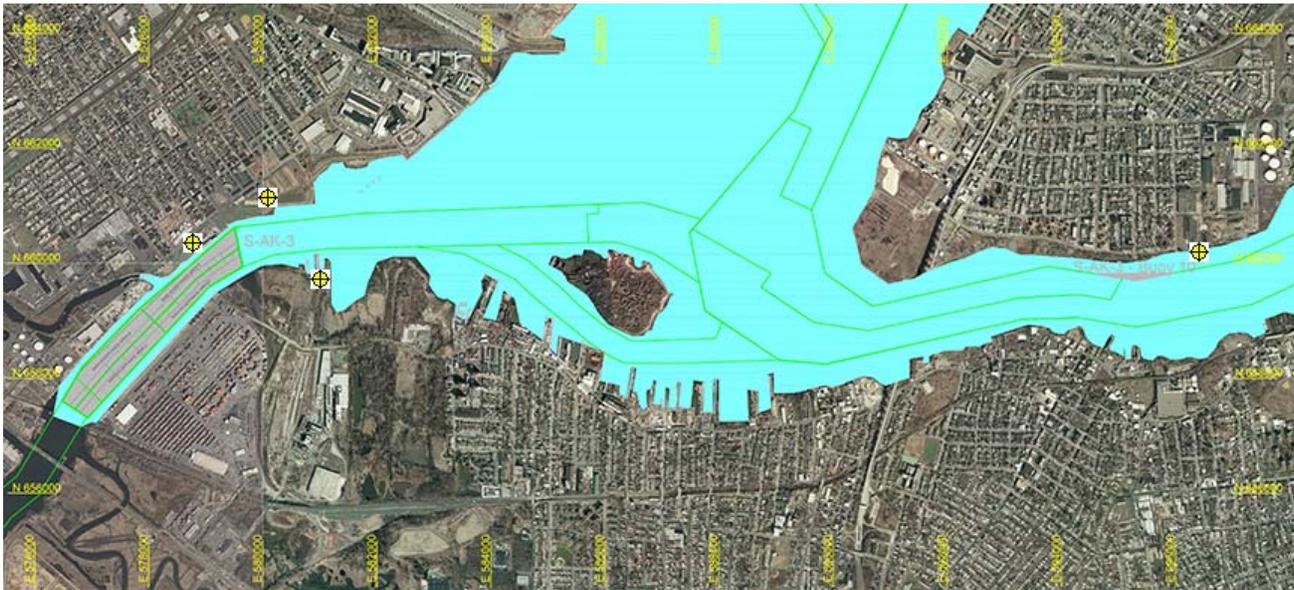
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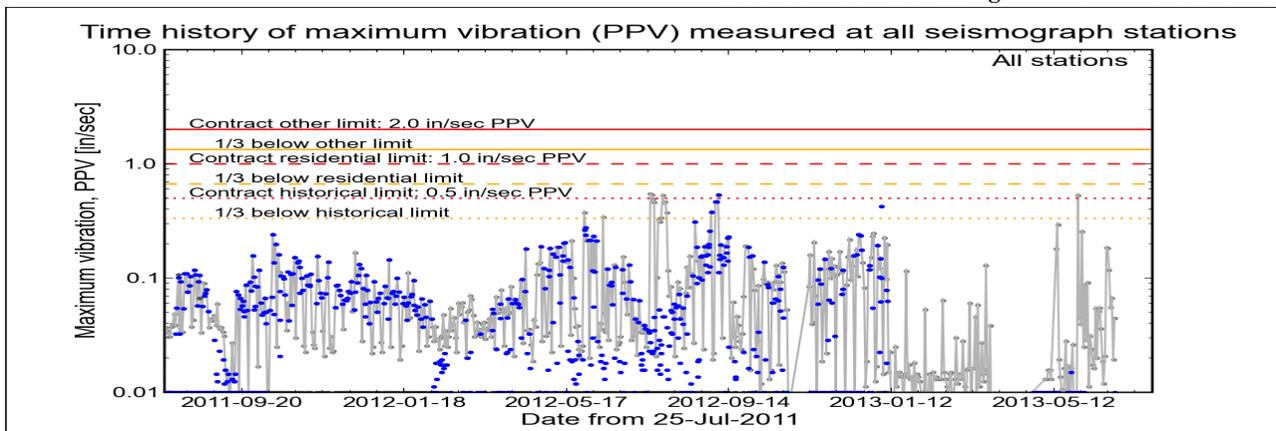
*Click station for station information or click channel for event summary.*



### 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: Wed 26-Jun-2013 03:01:45**



(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
<a href="#">Ambient</a>	<a href="#">Wed 26-Jun-2013</a>	03:01:45	0.0444	<a href="#">Bayonne</a>
<a href="#">Ambient</a>	<a href="#">Tue 25-Jun-2013</a>	23:46:44	0.0194	<a href="#">Bayonne</a>
<a href="#">Ambient</a>	<a href="#">Mon 24-Jun-2013</a>	02:59:27	0.0669	<a href="#">Bayonne</a>
<a href="#">Ambient</a>	<a href="#">Sun 23-Jun-2013</a>	01:46:44	0.0556	<a href="#">Bayonne</a>
<a href="#">Ambient</a>	<a href="#">Sat 22-Jun-2013</a>	12:56:30	0.1170	<a href="#">Elizabeth Marina</a>
<a href="#">Ambient</a>	<a href="#">Fri 21-Jun-2013</a>	19:01:44	0.1820	<a href="#">Bavonne</a>



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## Arthur Kill Blasting Event Summary

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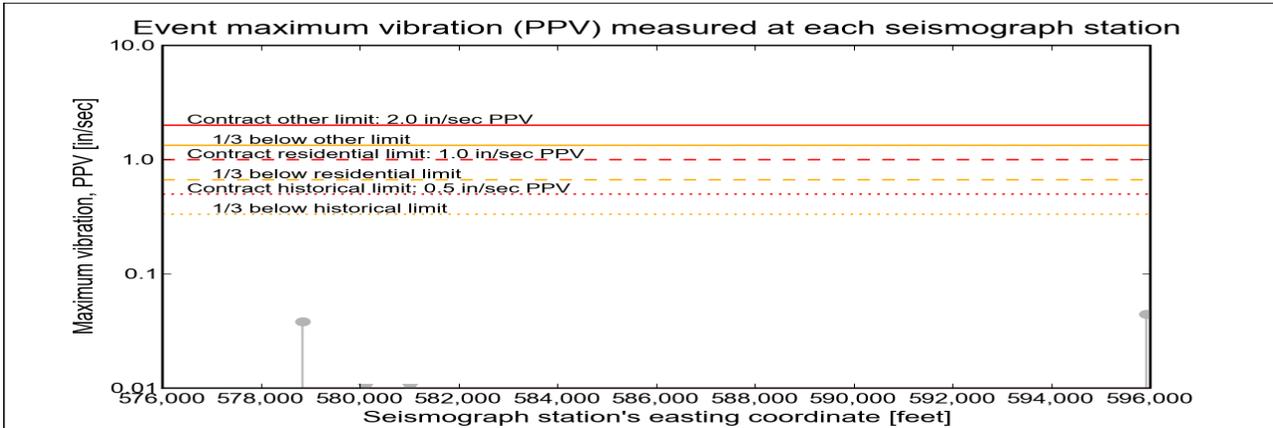
*Click station for more information about the station.*



### Selected Event Summary

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**Date of reading:** Wed 26-Jun-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
<a href="#">Elizabeth Marina - e4s010</a>	<a href="#">Wed 26-Jun-2013</a>	05:53:51	0.0381	<a href="#">Ambient</a>
<a href="#">Elizabeth Port - e4s009</a>	<a href="#">Wed 26-Jun-2013</a>	13:16:42	0.00437	<a href="#">Ambient</a>
<a href="#">NYCT - e4s008</a>	<a href="#">Wed 26-Jun-2013</a>	18:07:43	0.00937	<a href="#">Ambient</a>
<a href="#">Bayonne - e4s011</a>	<a href="#">Wed 26-Jun-2013</a>	03:01:45	0.0444	<a href="#">Ambient</a>



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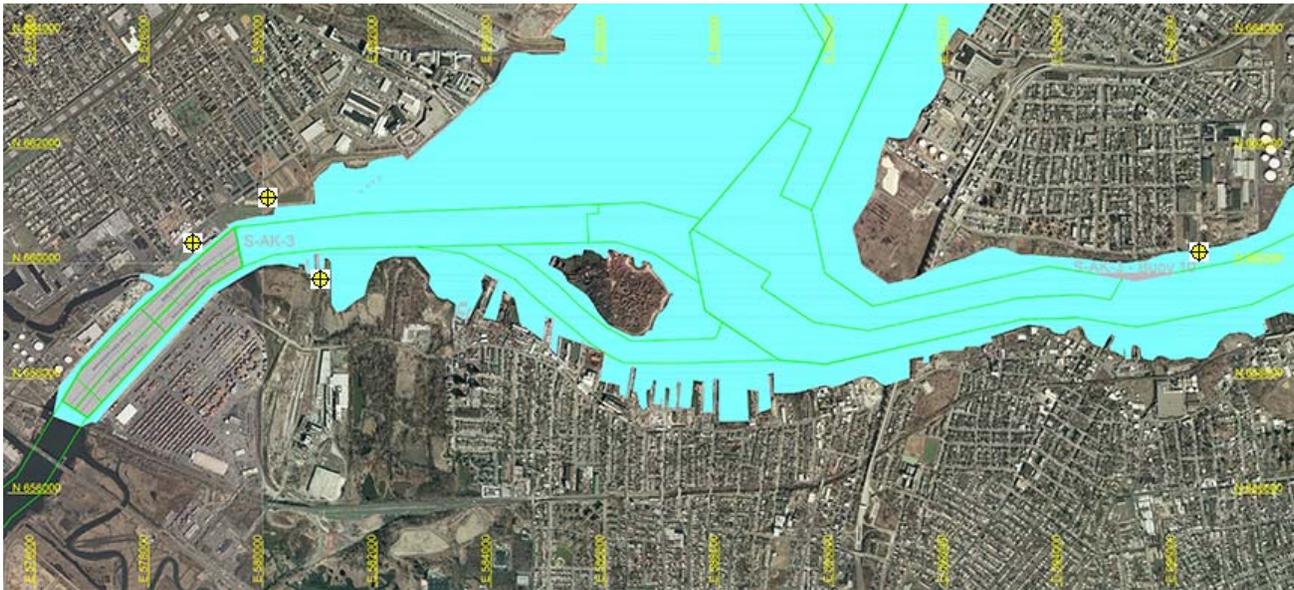
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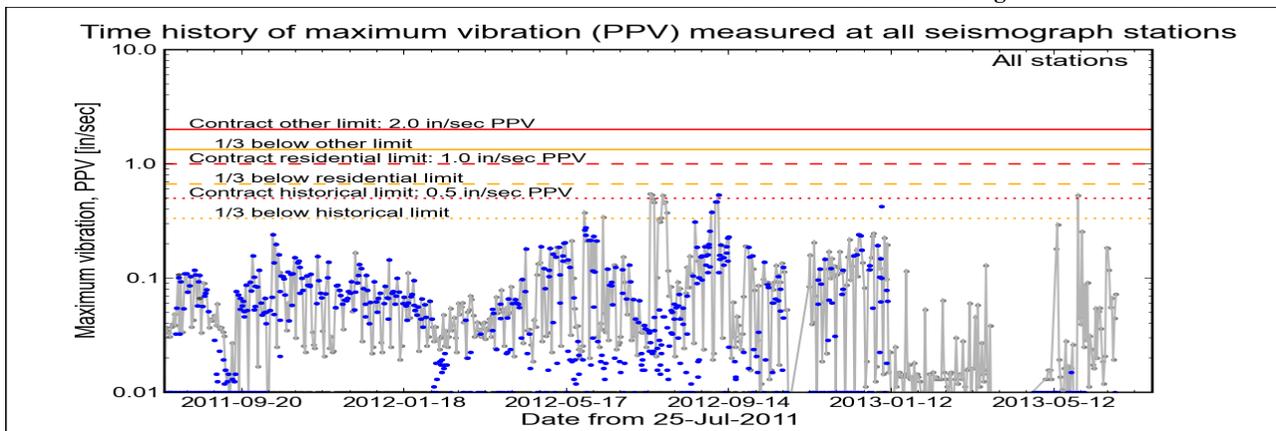
*Click station for station information or click channel for event summary.*



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**Date and time of last reading:** Thu 27-Jun-2013 11:33:27



(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
<a href="#">Ambient</a>	<a href="#">Thu 27-Jun-2013</a>	11:33:27	0.0725	<a href="#">Elizabeth Marina</a>
<a href="#">Ambient</a>	<a href="#">Wed 26-Jun-2013</a>	03:01:45	0.0444	<a href="#">Bayonne</a>
<a href="#">Ambient</a>	<a href="#">Tue 25-Jun-2013</a>	23:46:44	0.0194	<a href="#">Bayonne</a>
<a href="#">Ambient</a>	<a href="#">Mon 24-Jun-2013</a>	02:59:27	0.0669	<a href="#">Bayonne</a>
<a href="#">Ambient</a>	<a href="#">Sun 23-Jun-2013</a>	01:46:44	0.0556	<a href="#">Bayonne</a>
<a href="#">Ambient</a>	<a href="#">Sat 22-Jun-2013</a>	12:56:30	0.1170	<a href="#">Elizabeth Marina</a>



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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.

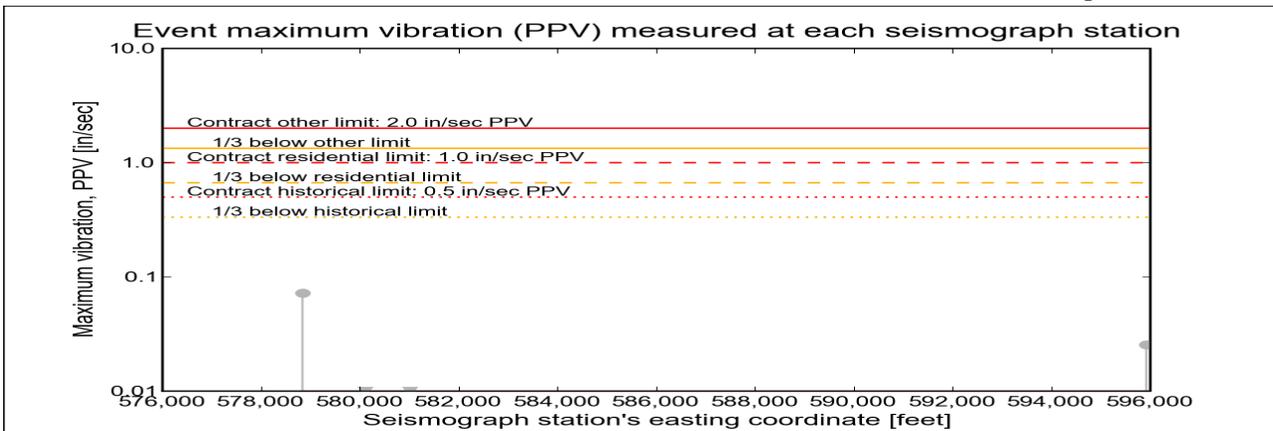
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**Date of reading:** Thu 27-Jun-2013



*(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
<a href="#">Elizabeth Marina - e4s010</a>	Thu 27-Jun-2013	11:33:27	0.0725	Ambient
<a href="#">Elizabeth Port - e4s009</a>	Thu 27-Jun-2013	16:02:01	0.00375	Ambient
<a href="#">NYCT - e4s008</a>	Thu 27-Jun-2013	17:22:39	0.00937	Ambient
<a href="#">Bayonne - e4s011</a>	Thu 27-Jun-2013	02:35:47	0.0256	Ambient



e4sciences | Earthworks, LLC   27 Glen Road, Sandy Hook, CT 06482   [www.e4sciences.com](http://www.e4sciences.com)



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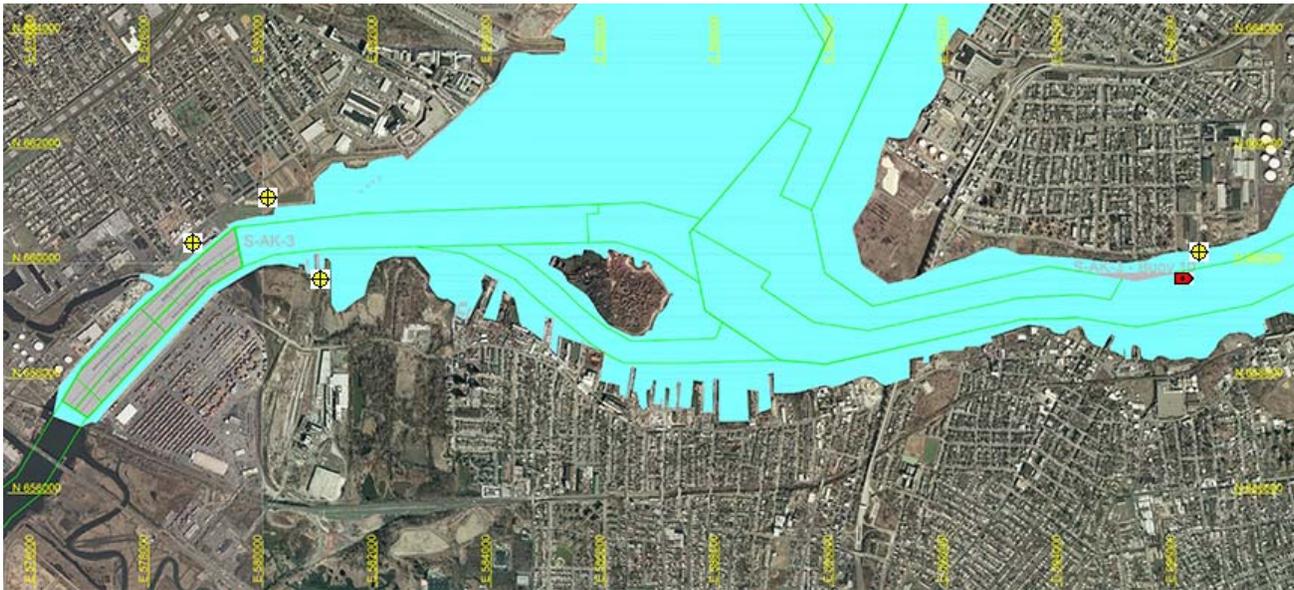
## Arthur Kill Blast Vibration Summary

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.

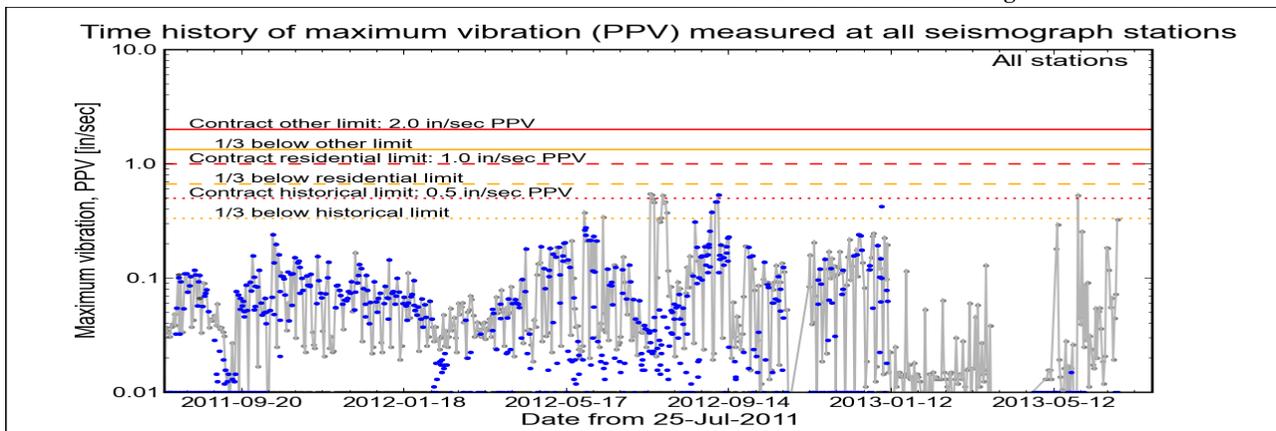
*Click station for station information or click channel for event summary.*



### 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 28-Jun-2013 13:16:47**



(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
<a href="#">Ambient</a>	<a href="#">Fri 28-Jun-2013</a>	13:16:47	0.3260	<a href="#">Bayonne</a>
<a href="#">Ambient</a>	<a href="#">Thu 27-Jun-2013</a>	11:33:27	0.0725	<a href="#">Elizabeth Marina</a>
<a href="#">Ambient</a>	<a href="#">Wed 26-Jun-2013</a>	03:01:45	0.0444	<a href="#">Bayonne</a>
<a href="#">Ambient</a>	<a href="#">Tue 25-Jun-2013</a>	23:46:44	0.0194	<a href="#">Bayonne</a>
<a href="#">Ambient</a>	<a href="#">Mon 24-Jun-2013</a>	02:59:27	0.0669	<a href="#">Bayonne</a>
<a href="#">Ambient</a>	<a href="#">Sun 23-Jun-2013</a>	01:46:44	0.0556	<a href="#">Bavonne</a>



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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.

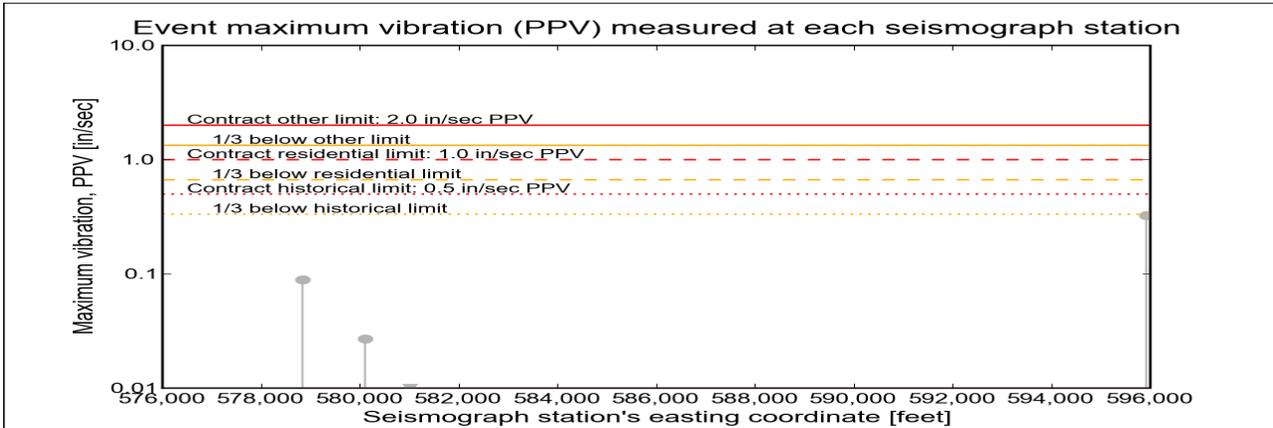
*Click station for more information about the station.*



### 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 28-Jun-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
<a href="#">Elizabeth Marina - e4s010</a>	Fri 28-Jun-2013	02:27:01	0.0894	<a href="#">Ambient</a>
<a href="#">Elizabeth Port - e4s009</a>	Fri 28-Jun-2013	16:47:06	0.0269	<a href="#">Ambient</a>
<a href="#">NYCT - e4s008</a>	Fri 28-Jun-2013	00:53:06	0.00937	<a href="#">Ambient</a>
<a href="#">Bayonne - e4s011</a>	Fri 28-Jun-2013	13:16:47	0.326	<a href="#">Ambient</a>



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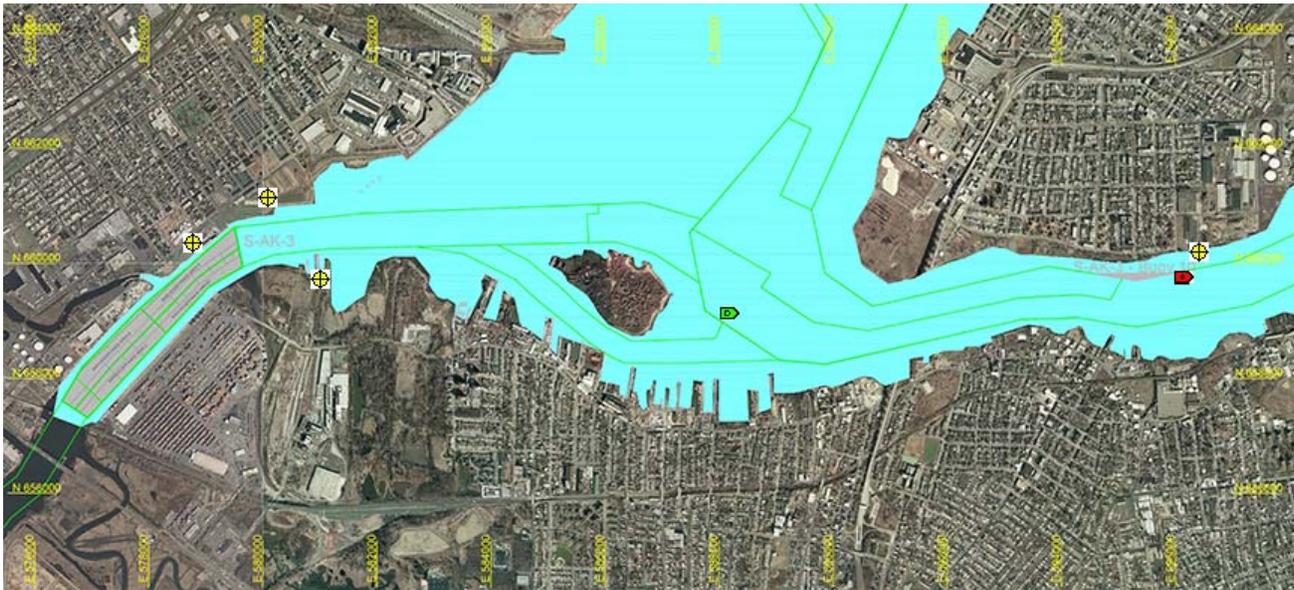
## Arthur Kill Blast Vibration Summary

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.

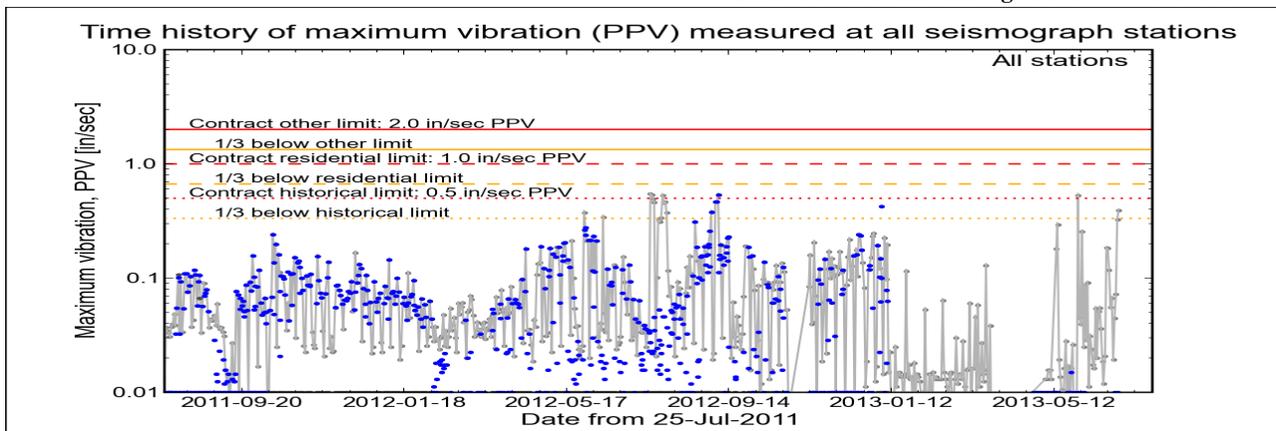
*Click station for station information or click channel for event summary.*



### 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 29-Jun-2013 15:31:44**



(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
<a href="#">Ambient</a>	<a href="#">Sat 29-Jun-2013</a>	15:31:44	0.3930	<a href="#">Bayonne</a>
<a href="#">Ambient</a>	<a href="#">Fri 28-Jun-2013</a>	13:16:47	0.3260	<a href="#">Bayonne</a>
<a href="#">Ambient</a>	<a href="#">Thu 27-Jun-2013</a>	11:33:27	0.0725	<a href="#">Elizabeth Marina</a>
<a href="#">Ambient</a>	<a href="#">Wed 26-Jun-2013</a>	03:01:45	0.0444	<a href="#">Bayonne</a>
<a href="#">Ambient</a>	<a href="#">Tue 25-Jun-2013</a>	23:46:44	0.0194	<a href="#">Bayonne</a>
<a href="#">Ambient</a>	<a href="#">Mon 24-Jun-2013</a>	02:59:27	0.0669	<a href="#">Bavonne</a>



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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.

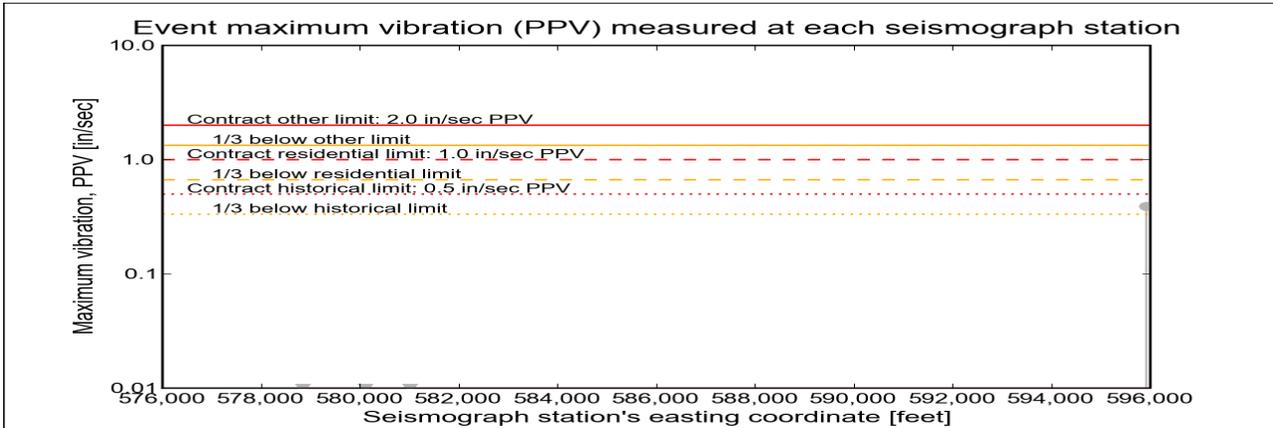
*Click station for more information about the station.*



### 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: Sat 29-Jun-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
<a href="#">Elizabeth Marina - e4s010</a>	Sat 29-Jun-2013	01:02:36	0.00937	<a href="#">Ambient</a>
<a href="#">Elizabeth Port - e4s009</a>	Sat 29-Jun-2013	20:31:46	0.00562	<a href="#">Ambient</a>
<a href="#">NYCT - e4s008</a>	Sat 29-Jun-2013	16:52:46	0.00437	<a href="#">Ambient</a>
<a href="#">Bayonne - e4s011</a>	Sat 29-Jun-2013	15:31:44	0.393	<a href="#">Ambient</a>



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## 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.

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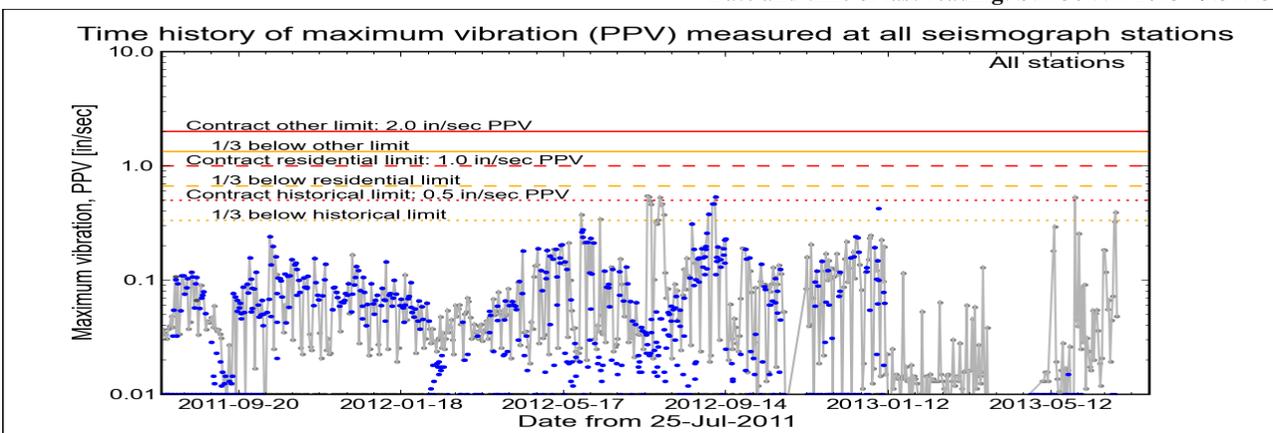
*Click station for station information or click channel for event summary.*



### 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: Sun 30-Jun-2013 19:31:45**



(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
<a href="#">Ambient</a>	<a href="#">Sun 30-Jun-2013</a>	19:31:45	0.0481	<a href="#">Bayonne</a>
<a href="#">Ambient</a>	<a href="#">Sat 29-Jun-2013</a>	15:31:44	0.3930	<a href="#">Bayonne</a>
<a href="#">Ambient</a>	<a href="#">Fri 28-Jun-2013</a>	13:16:47	0.3260	<a href="#">Bayonne</a>
<a href="#">Ambient</a>	<a href="#">Thu 27-Jun-2013</a>	11:33:27	0.0725	<a href="#">Elizabeth Marina</a>
<a href="#">Ambient</a>	<a href="#">Wed 26-Jun-2013</a>	03:01:45	0.0444	<a href="#">Bayonne</a>
<a href="#">Ambient</a>	<a href="#">Tue 25-Jun-2013</a>	23:46:44	0.0194	<a href="#">Bavonne</a>



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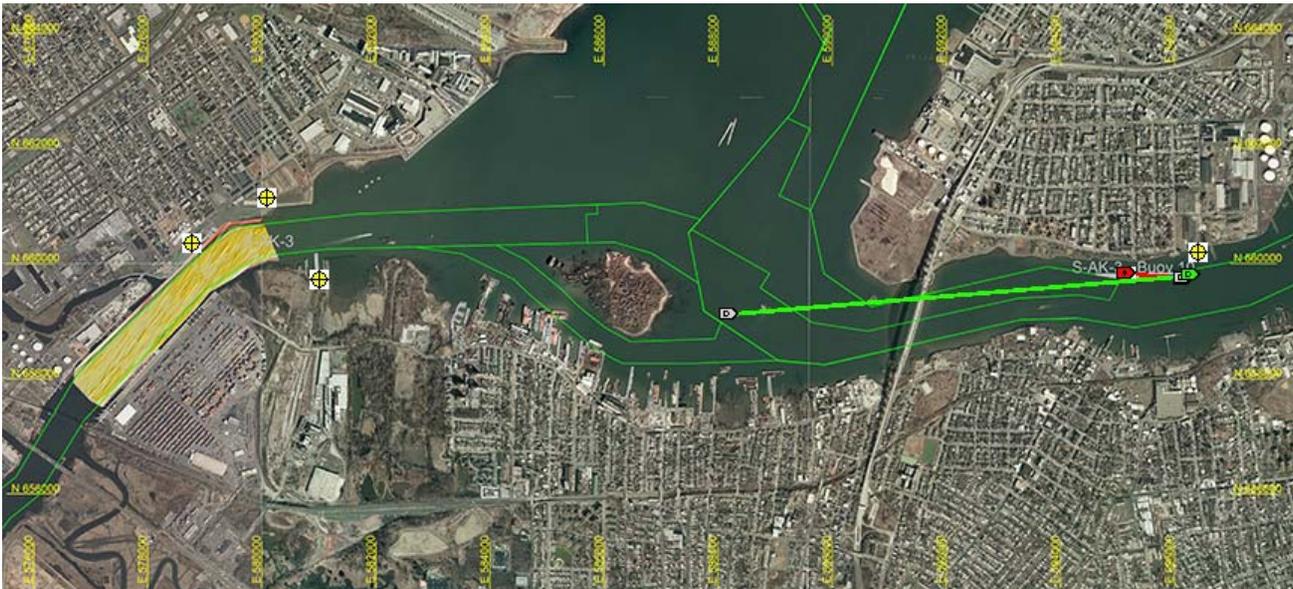
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## Arthur Kill Blasting Event Summary

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.

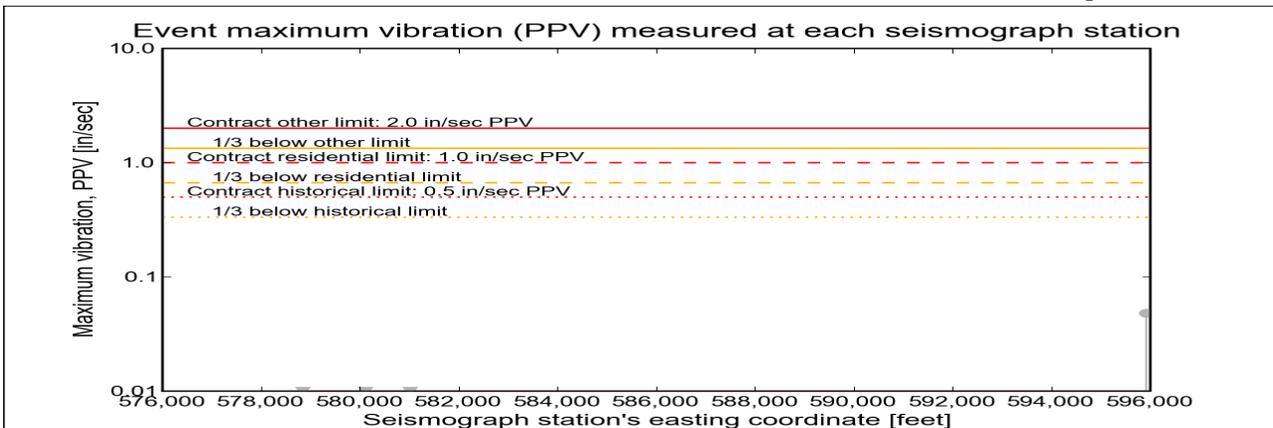
*Click station for more information about the station.*



### 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:** Sun 30-Jun-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
<a href="#">Elizabeth Marina - e4s010</a>	Sun 30-Jun-2013	22:17:31	0.0075	Ambient
<a href="#">Elizabeth Port - e4s009</a>	Sun 30-Jun-2013	16:31:44	0.00437	Ambient
<a href="#">NYCT - e4s008</a>	Sun 30-Jun-2013	14:52:44	0.00812	Ambient
<a href="#">Bayonne - e4s011</a>	Sun 30-Jun-2013	19:31:45	0.0481	Ambient