



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 May 27 – June 02, 2013

The following pages display the results from the USACE-NYD real-time website for the week of Monday, May 27, through Sunday, June 02, 2013.

We installed a new station on Friday, May 31<sup>st</sup>. The station will be identified as e4s-011 (Bayonne). It is located in the Eastern end of Mayor Dennis P. Collins Park in Bayonne, NJ. It is located at Easting: 660184 Northing: 595922 (New Jersey State Plane, Feet)

There were 5 blasts this week in the West-ELIZ project area.

We recorded background vibrations in the S-AK-3 and Bayonne project areas. The maximum vibration recorded was 0.255 in/s recorded at Bayonne on June 02. 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 operated in West-ELIZ this week.

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:

May 27  
May 28  
May 29  
May 30  
May 31  
June 01  
June 02

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 three active stations: Port Ivory, New York Container Terminal (NYCT), Elizabethport, and Bayonne. The station locations are on each page.

Ambient ground vibrations at Port Ivory were all below 0.02 in/s. Ambient ground vibrations at NYCT were all below 0.02 in/s. Ambient vibrations at Elizabethport were all below 0.0270 in/s. Ambient vibrations at Bayonne were all below 0.260 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-020	2013-05-28 17:44	15,900 - 17,890	n/a
WE-021	2013-05-29 16:53	15,820 - 17,450	n/a
WE-022	2013-05-30 17:45	15,740 - 17,400	n/a
WE-023	2013-05-31 16:00	15,670 - 17,380	n/a
WE-024	2013-06-01 16:00	15,690 - 17,610	n/a



**US Army Corps  
of Engineers®**  
New York District

[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
2013-06-02 Sun				No Activity
2013-06-01 Sat				No Activity
2013-05-31 Fri				No Activity
2013-05-30 Thu				No Activity
2013-05-29 Wed				No Activity
2013-05-28 Tue				No Activity
2013-05-27 Mon				No Activity



**US Army Corps  
of Engineers®**  
New York District

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

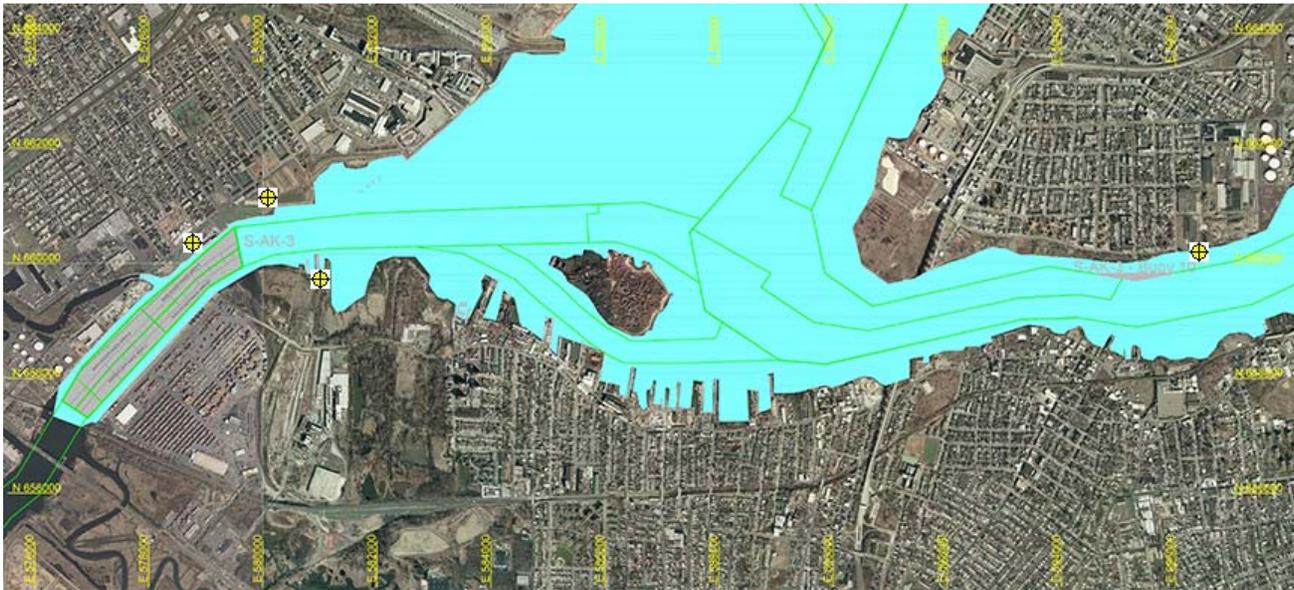
## Arthur Kill Blast Vibration Summary

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.

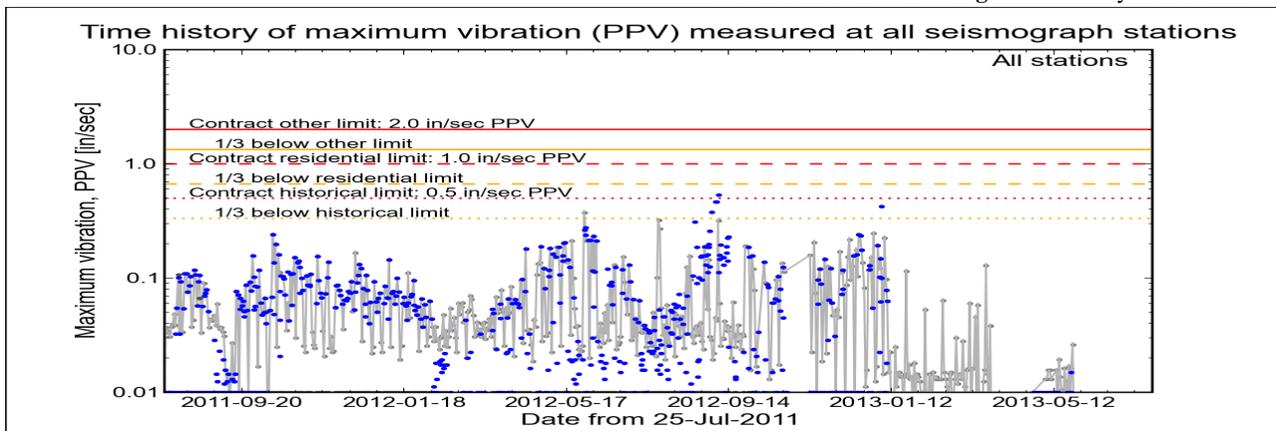
*Click station for station information or click channel for event summary.*



### 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: Mon 27-May-2013 05:47:36**



*(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
<a href="#">Ambient</a>	<a href="#">Mon 27-May-2013</a>	05:47:36	0.0044	<a href="#">Elizabeth Marina</a>
<a href="#">Ambient</a>	<a href="#">Sun 26-May-2013</a>	18:17:35	0.0262	<a href="#">Elizabeth Marina</a>
<a href="#">Ambient</a>	<a href="#">Sat 25-May-2013</a>	17:32:34	0.0162	<a href="#">Elizabeth Marina</a>
<a href="#">Ambient</a>	<a href="#">Fri 24-May-2013</a>	14:47:35	0.0075	<a href="#">Elizabeth Marina</a>
<a href="#">Ambient</a>	<a href="#">Thu 23-May-2013</a>	15:32:35	0.0169	<a href="#">Elizabeth Marina</a>
<a href="#">Blast</a>	<a href="#">Wed 22-May-2013</a>	13:16:44	0.0069	<a href="#">NYCT</a>



**US Army Corps  
of Engineers®**  
New York District

[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.

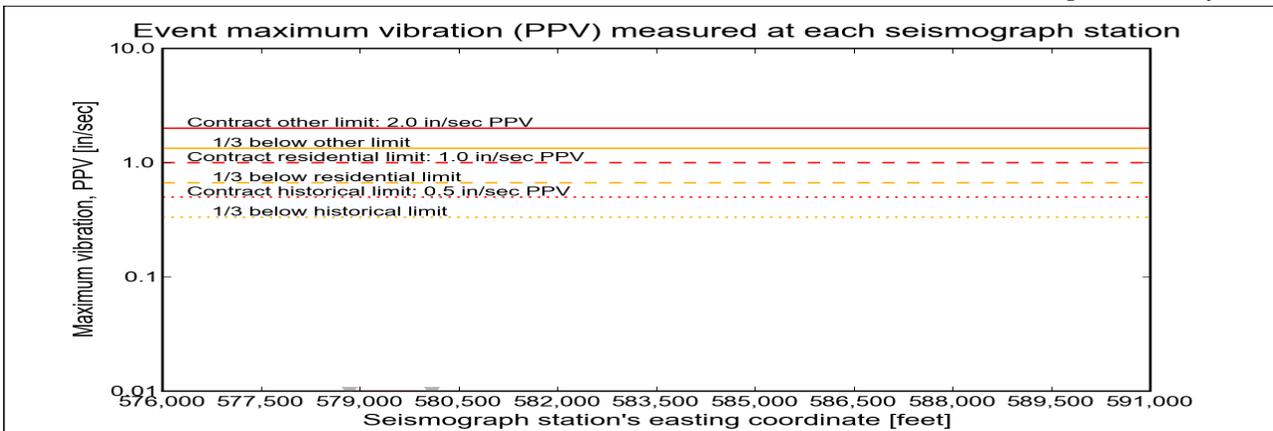
*Click station for more information about the station.*



### 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:** Mon 27-May-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>	Mon 27-May-2013	05:47:36	0.00437	Ambient
<a href="#">Elizabeth Port - e4s009</a>	Mon 27-May-2013	13:15:33	0.00375	Ambient



e4sciences | Earthworks, LLC

27 Glen Road, Sandy Hook, CT 06482

www.e4sciences.com



Home   Event Summary   Stations:   Dredges   History   Links

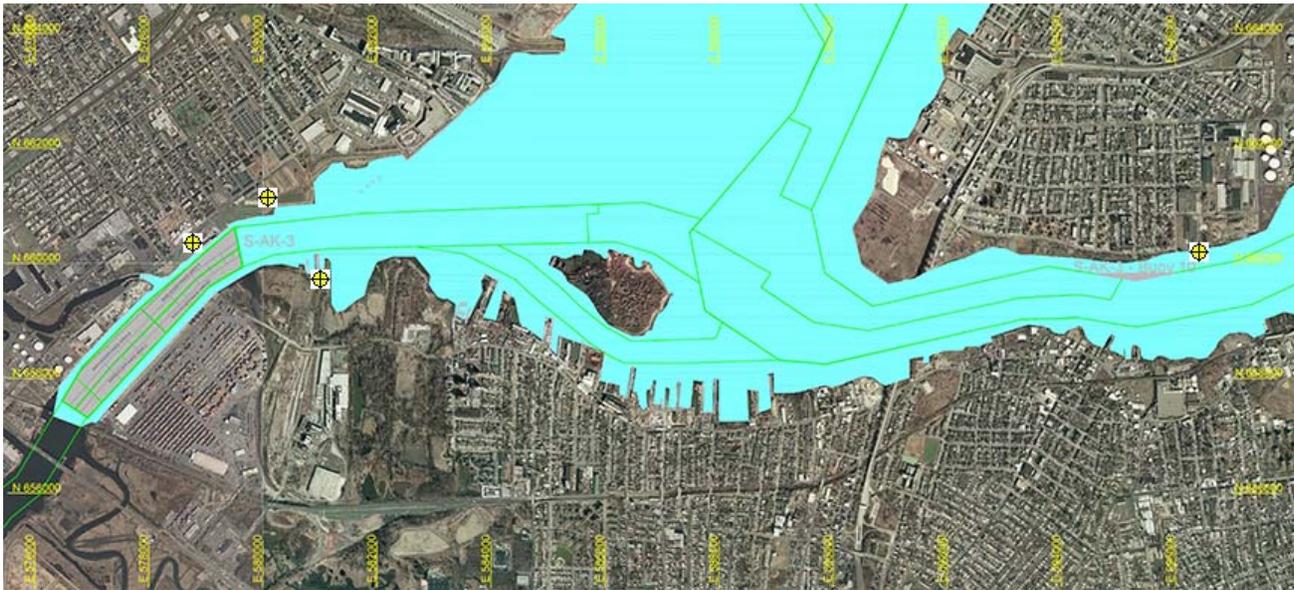
## Arthur Kill Blast Vibration Summary

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.

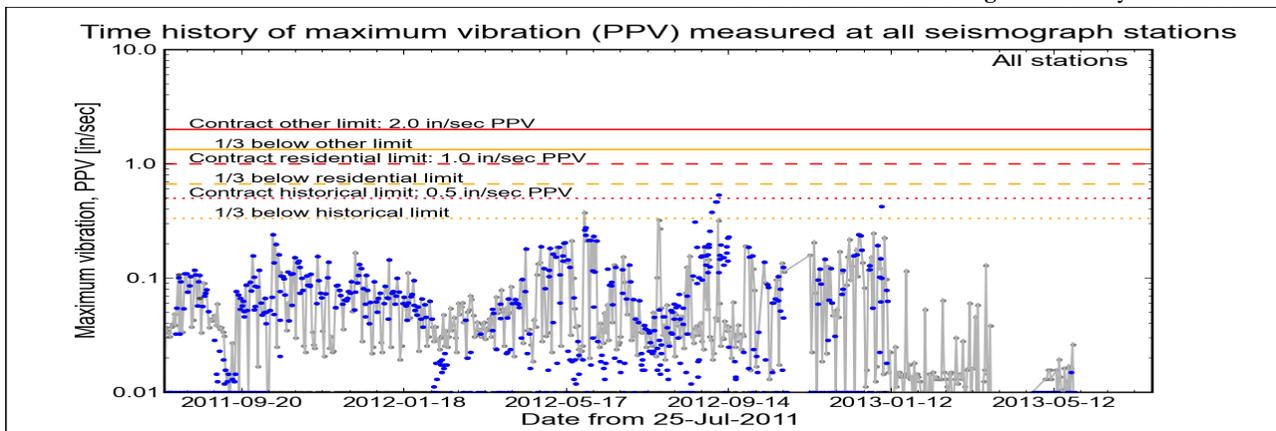
*Click station for station information or click channel for event summary.*



### 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: Tue 28-May-2013 18:01:42**



*(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 28-May-2013</a>	18:01:42	0.0050	<a href="#">Elizabeth Port</a>
<a href="#">Ambient</a>	<a href="#">Mon 27-May-2013</a>	05:47:36	0.0044	<a href="#">Elizabeth Marina</a>
<a href="#">Ambient</a>	<a href="#">Sun 26-May-2013</a>	18:17:35	0.0262	<a href="#">Elizabeth Marina</a>
<a href="#">Ambient</a>	<a href="#">Sat 25-May-2013</a>	17:32:34	0.0162	<a href="#">Elizabeth Marina</a>
<a href="#">Ambient</a>	<a href="#">Fri 24-May-2013</a>	14:47:35	0.0075	<a href="#">Elizabeth Marina</a>
<a href="#">Ambient</a>	<a href="#">Thu 23-May-2013</a>	15:32:35	0.0169	<a href="#">Elizabeth Marina</a>



**US Army Corps  
of Engineers®**  
New York District

[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.

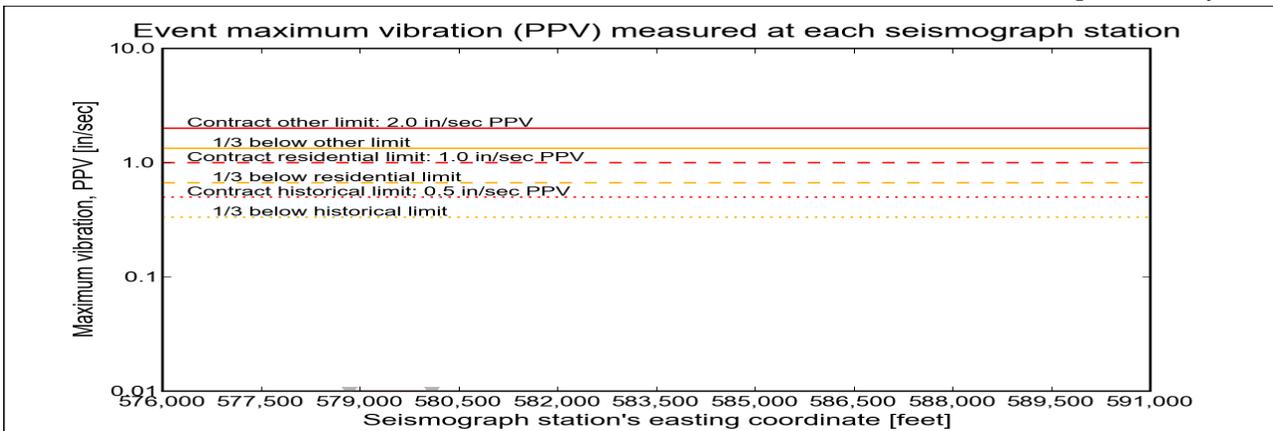
*Click station for more information about the station.*



### 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:** Tue 28-May-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 28-May-2013	13:17:35	0.005	<a href="#">Ambient</a>
<a href="#">Elizabeth Port - e4s009</a>	Tue 28-May-2013	18:01:42	0.005	<a href="#">Ambient</a>



e4sciences | Earthworks, LLC

27 Glen Road, Sandy Hook, CT 06482

[www.e4sciences.com](http://www.e4sciences.com)



Home   Event Summary   Stations:   Dredges   History   Links

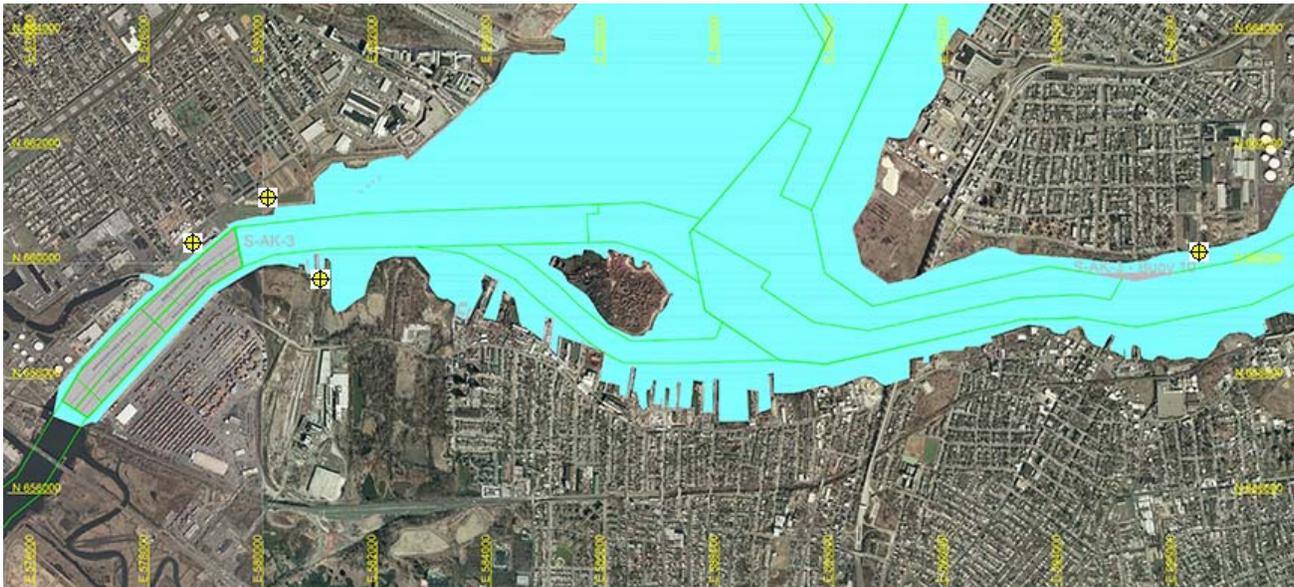
## Arthur Kill Blast Vibration Summary

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.

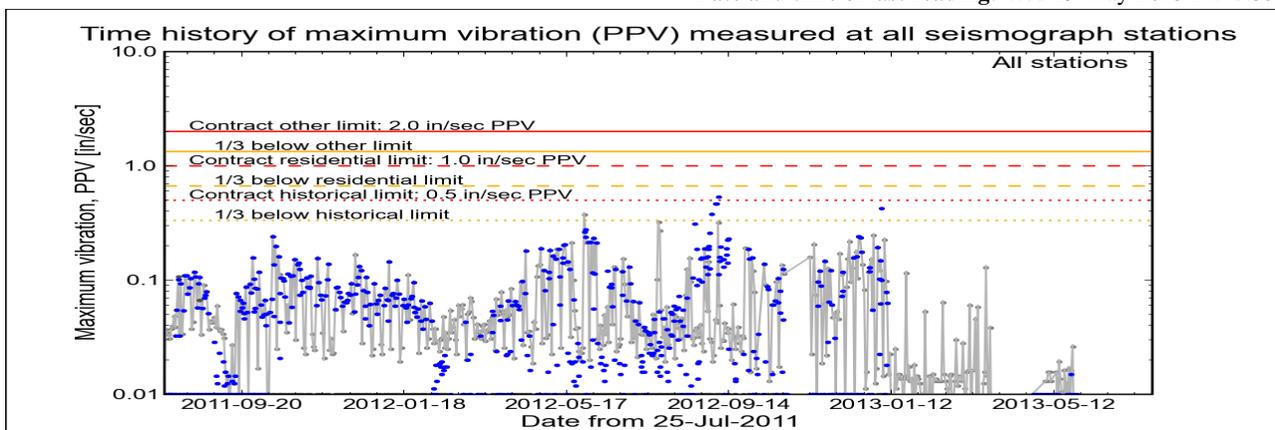
*Click station for station information or click channel for event summary.*



### 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:** Wed 29-May-2013 21:47:35



(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
<a href="#">Ambient</a>	<a href="#">Wed 29-May-2013</a>	21:47:35	0.0050	<a href="#">Elizabeth Marina</a>
<a href="#">Ambient</a>	<a href="#">Tue 28-May-2013</a>	18:01:42	0.0050	<a href="#">Elizabeth Port</a>
<a href="#">Ambient</a>	<a href="#">Mon 27-May-2013</a>	05:47:36	0.0044	<a href="#">Elizabeth Marina</a>
<a href="#">Ambient</a>	<a href="#">Sun 26-May-2013</a>	18:17:35	0.0262	<a href="#">Elizabeth Marina</a>
<a href="#">Ambient</a>	<a href="#">Sat 25-May-2013</a>	17:32:34	0.0162	<a href="#">Elizabeth Marina</a>
<a href="#">Ambient</a>	<a href="#">Fri 24-May-2013</a>	14:47:35	0.0075	<a href="#">Elizabeth Marina</a>



**US Army Corps  
of Engineers®**  
New York District

[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.

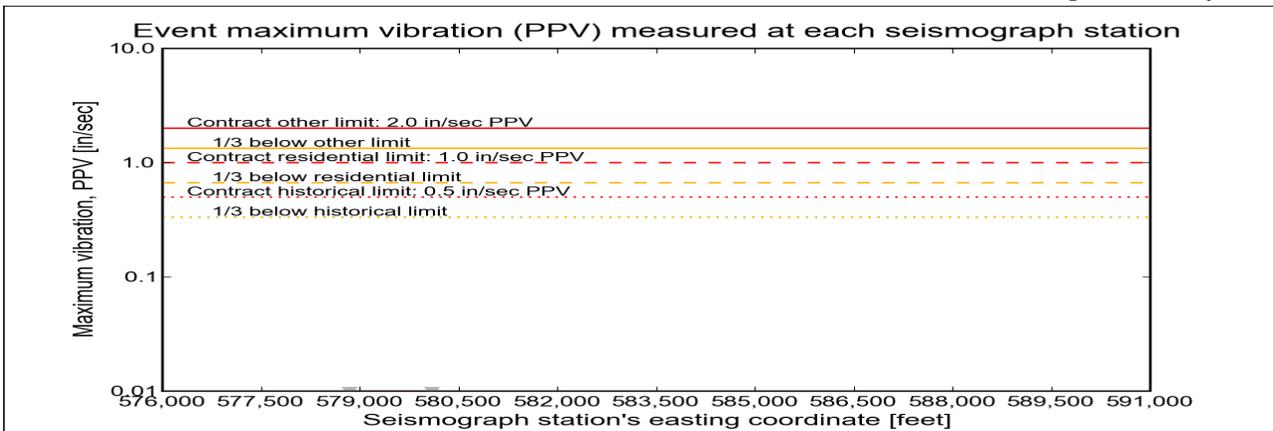
*Click station for more information about the station.*



### 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:** Wed 29-May-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>	Wed 29-May-2013	21:47:35	0.005	Ambient
<a href="#">Elizabeth Port - e4s009</a>	Wed 29-May-2013	03:01:48	0.00437	Ambient



e4sciences | Earthworks, LLC

27 Glen Road, Sandy Hook, CT 06482

www.e4sciences.com



**US Army Corps  
of Engineers®**  
New York District

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

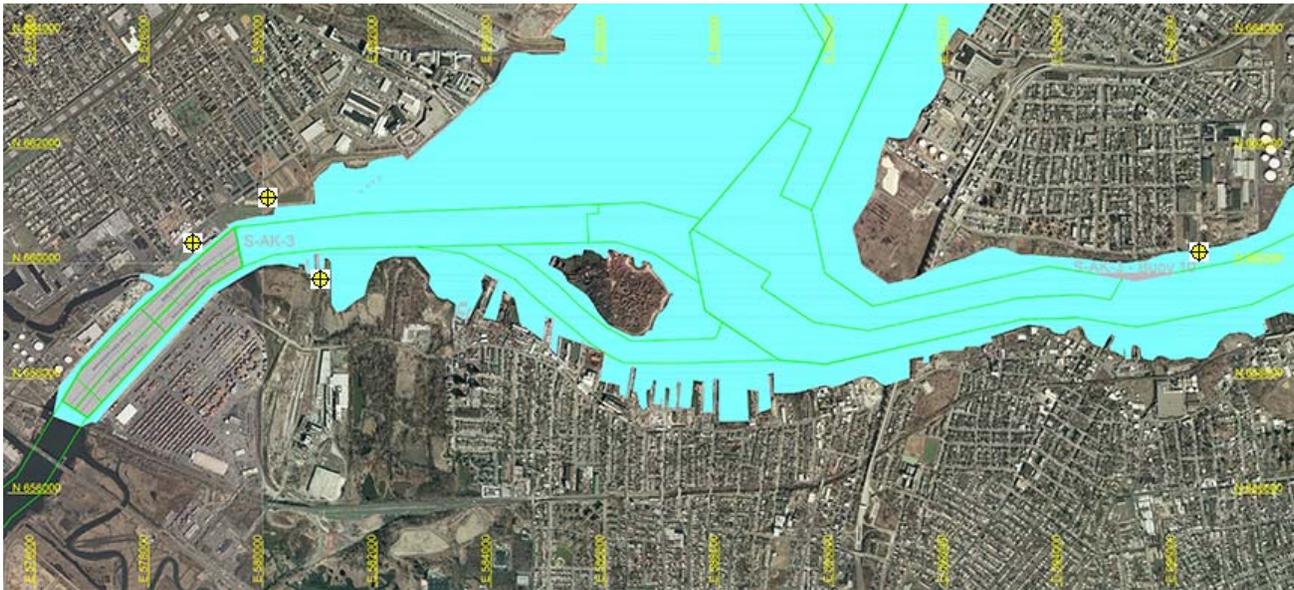
## Arthur Kill Blast Vibration Summary

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.

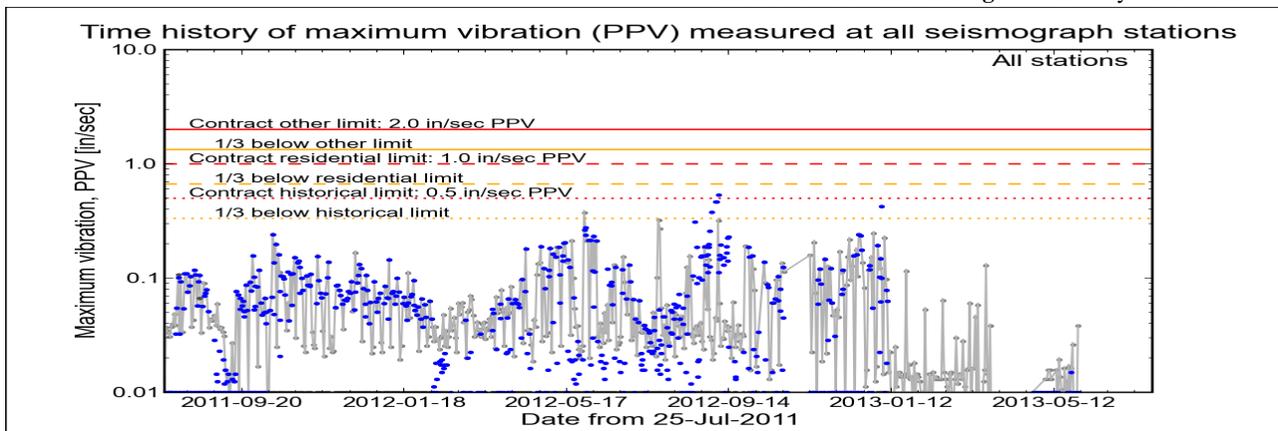
*Click station for station information or click channel for event summary.*



### 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: Thu 30-May-2013 14:58:42**



(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 30-May-2013</a>	14:58:42	0.0381	<a href="#">Elizabeth Marina</a>
<a href="#">Ambient</a>	<a href="#">Wed 29-May-2013</a>	21:47:35	0.0050	<a href="#">Elizabeth Marina</a>
<a href="#">Ambient</a>	<a href="#">Tue 28-May-2013</a>	18:01:42	0.0050	<a href="#">Elizabeth Port</a>
<a href="#">Ambient</a>	<a href="#">Mon 27-May-2013</a>	05:47:36	0.0044	<a href="#">Elizabeth Marina</a>
<a href="#">Ambient</a>	<a href="#">Sun 26-May-2013</a>	18:17:35	0.0262	<a href="#">Elizabeth Marina</a>
<a href="#">Ambient</a>	<a href="#">Sat 25-May-2013</a>	17:32:34	0.0162	<a href="#">Elizabeth Marina</a>



**US Army Corps  
of Engineers®**  
New York District

[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.

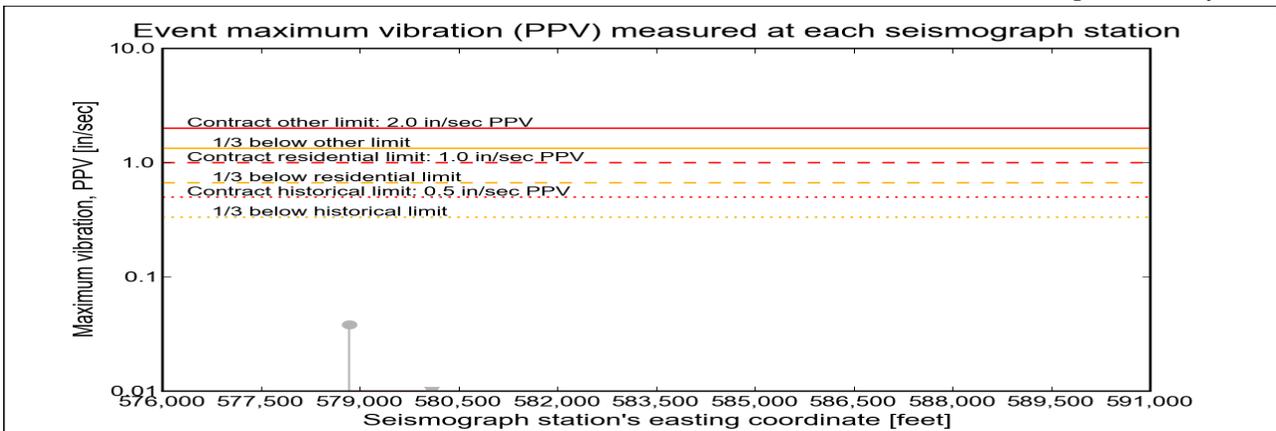
*Click station for more information about the station.*



### 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:** Thu 30-May-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 30-May-2013	14:58:42	0.0381	Ambient
<a href="#">Elizabeth Port - e4s009</a>	Thu 30-May-2013	16:02:06	0.00437	Ambient



e4sciences | Earthworks, LLC

27 Glen Road, Sandy Hook, CT 06482

www.e4sciences.com



Home   Event Summary   Stations:   Dredges   History   Links

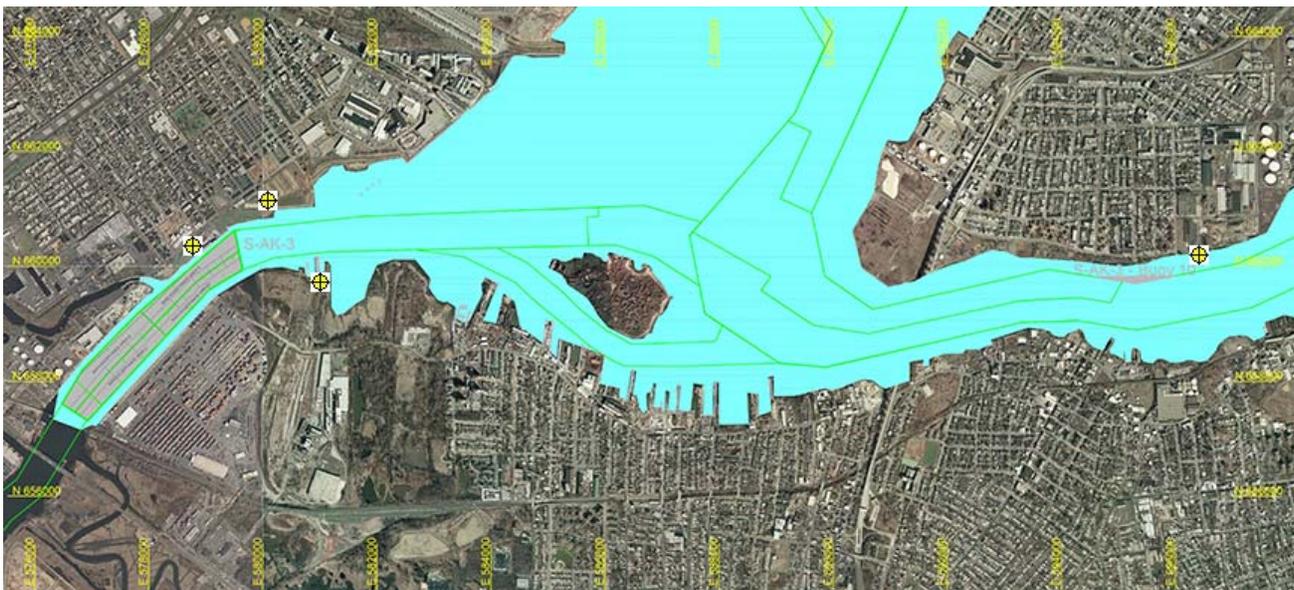
## Arthur Kill Blast Vibration Summary

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.

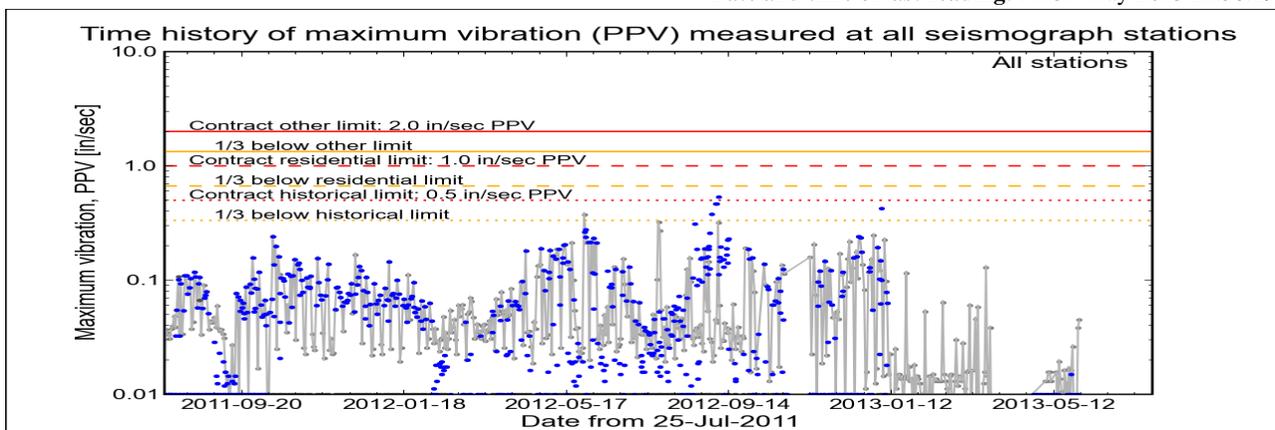
*Click station for station information or click channel for event summary.*



### 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 31-May-2013 22:58:29**



(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 31-May-2013</a>	22:58:29	0.0450	<a href="#">Bayonne</a>
<a href="#">Ambient</a>	<a href="#">Thu 30-May-2013</a>	14:58:42	0.0381	<a href="#">Elizabeth Marina</a>
<a href="#">Ambient</a>	<a href="#">Wed 29-May-2013</a>	21:47:35	0.0050	<a href="#">Elizabeth Marina</a>
<a href="#">Ambient</a>	<a href="#">Tue 28-May-2013</a>	18:01:42	0.0050	<a href="#">Elizabeth Port</a>
<a href="#">Ambient</a>	<a href="#">Mon 27-May-2013</a>	05:47:36	0.0044	<a href="#">Elizabeth Marina</a>
<a href="#">Ambient</a>	<a href="#">Sun 26-May-2013</a>	18:17:35	0.0262	<a href="#">Elizabeth Marina</a>



**US Army Corps  
of Engineers®**  
New York District

[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.

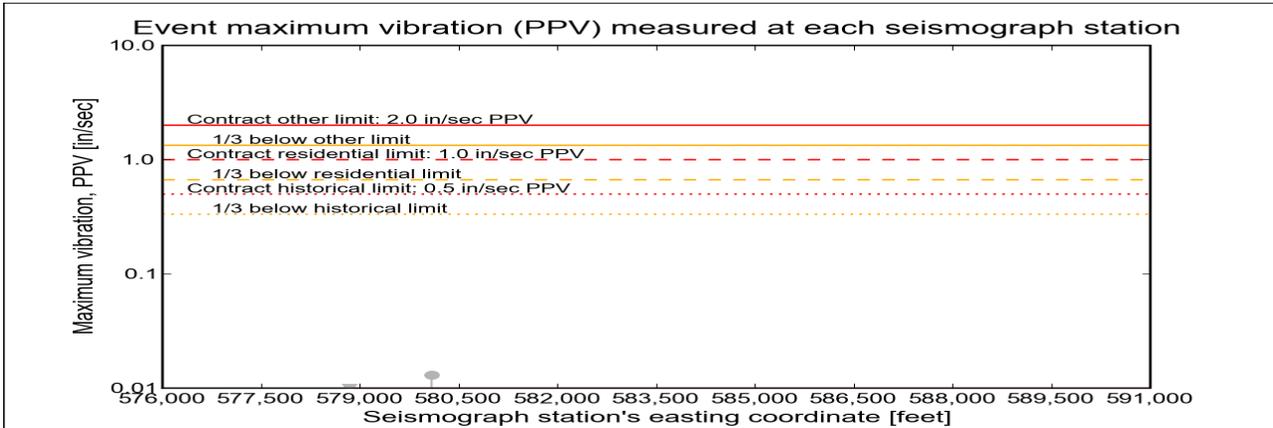
*Click station for more information about the station.*



### 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:** Fri 31-May-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 31-May-2013	15:17:35	0.00687	<a href="#">Ambient</a>
<a href="#">Elizabeth Port - e4s009</a>	Fri 31-May-2013	23:31:44	0.0131	<a href="#">Ambient</a>
<a href="#">Bayonne - e4s011</a>	Fri 31-May-2013	22:58:29	0.045	<a href="#">Ambient</a>



**US Army Corps  
of Engineers®**  
New York District

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

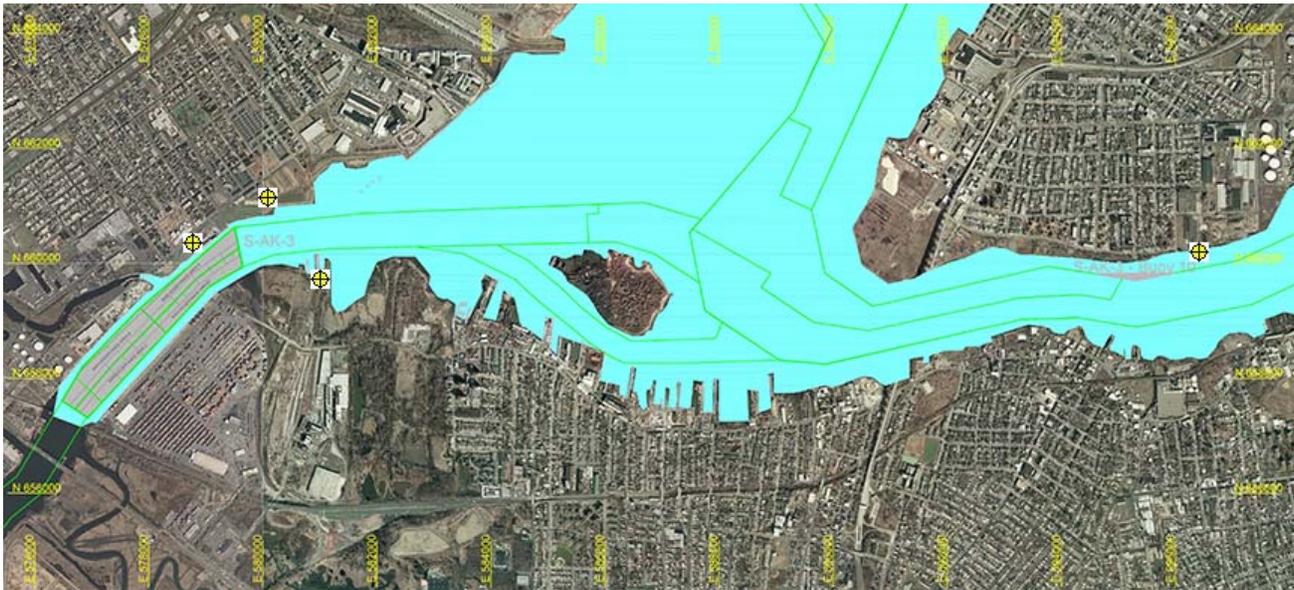
## Arthur Kill Blast Vibration Summary

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.

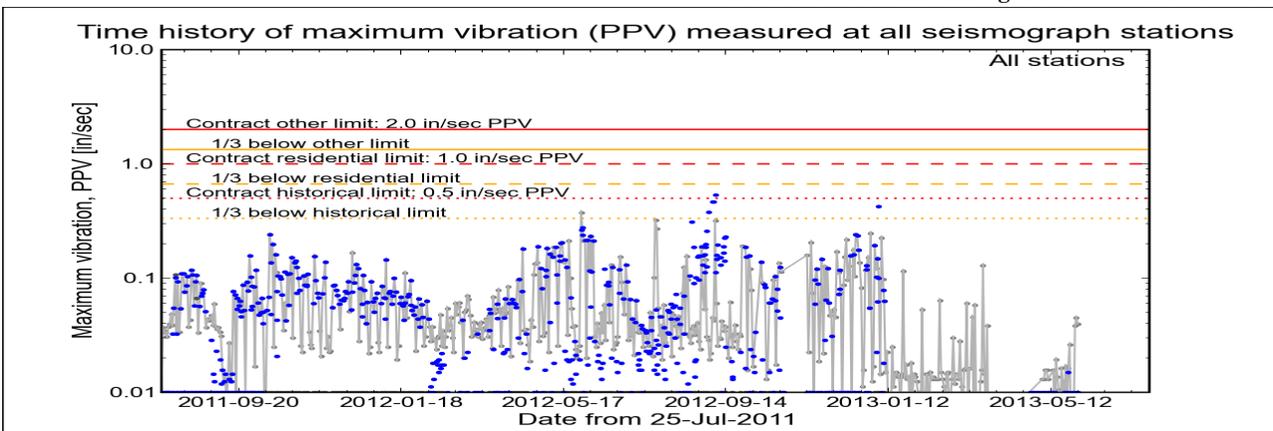
*Click station for station information or click channel for event summary.*



### 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 01-Jun-2013 20:47:56**



(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 01-Jun-2013</a>	20:47:56	0.0394	<a href="#">Bayonne</a>
<a href="#">Ambient</a>	<a href="#">Fri 31-May-2013</a>	22:58:29	0.0450	<a href="#">Bayonne</a>
<a href="#">Ambient</a>	<a href="#">Thu 30-May-2013</a>	14:58:42	0.0381	<a href="#">Elizabeth Marina</a>
<a href="#">Ambient</a>	<a href="#">Wed 29-May-2013</a>	21:47:35	0.0050	<a href="#">Elizabeth Marina</a>
<a href="#">Ambient</a>	<a href="#">Tue 28-May-2013</a>	18:01:42	0.0050	<a href="#">Elizabeth Port</a>
<a href="#">Ambient</a>	<a href="#">Mon 27-May-2013</a>	05:47:36	0.0044	<a href="#">Elizabeth Marina</a>



**US Army Corps  
of Engineers®**  
New York District

[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.

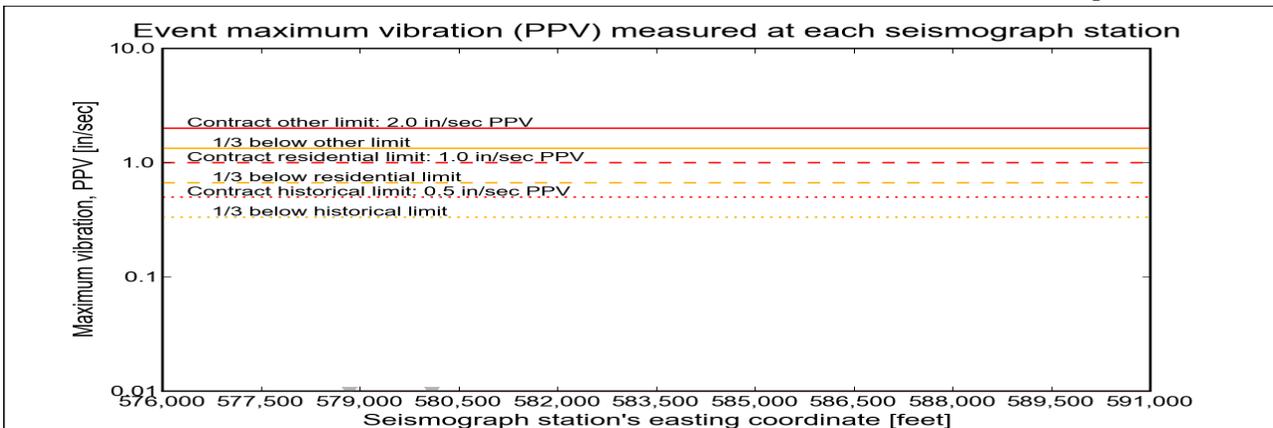
*Click station for more information about the station.*



### 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 01-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 01-Jun-2013	05:17:38	0.00875	<a href="#">Ambient</a>
<a href="#">Elizabeth Port - e4s009</a>	Sat 01-Jun-2013	14:31:43	0.00437	<a href="#">Ambient</a>
<a href="#">Bayonne - e4s011</a>	Sat 01-Jun-2013	20:47:56	0.0394	<a href="#">Ambient</a>



e4sciences | Earthworks, LLC

27 Glen Road, Sandy Hook, CT 06482

[www.e4sciences.com](http://www.e4sciences.com)



**US Army Corps  
of Engineers®**  
New York District

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

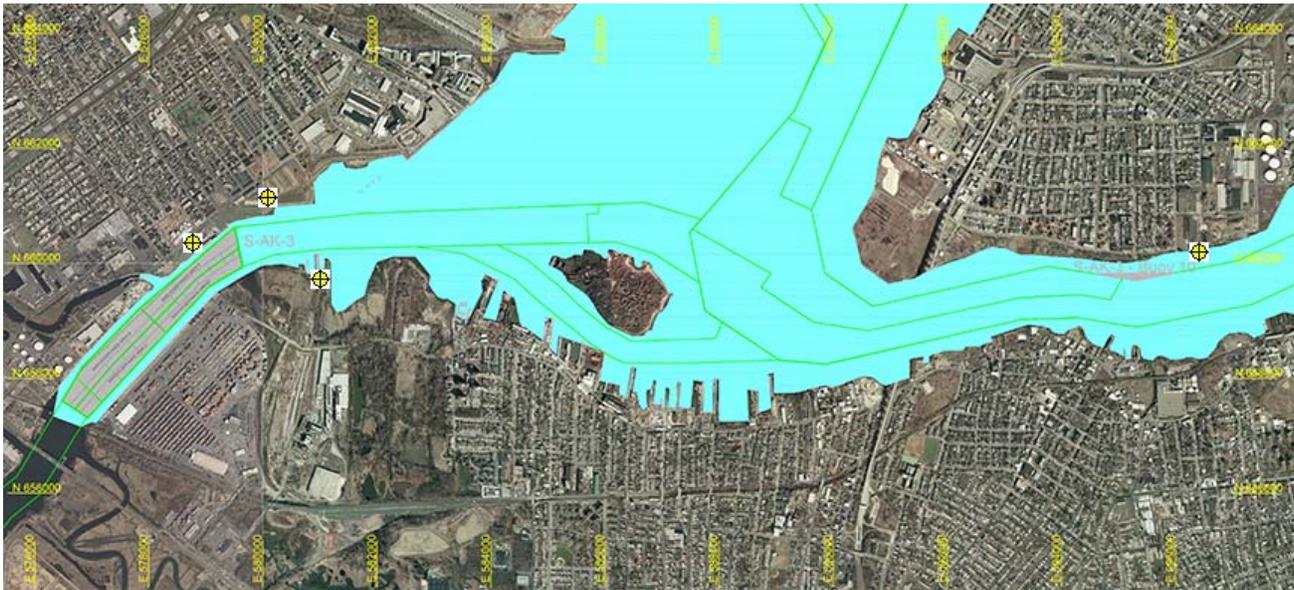
## Arthur Kill Blast Vibration Summary

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.

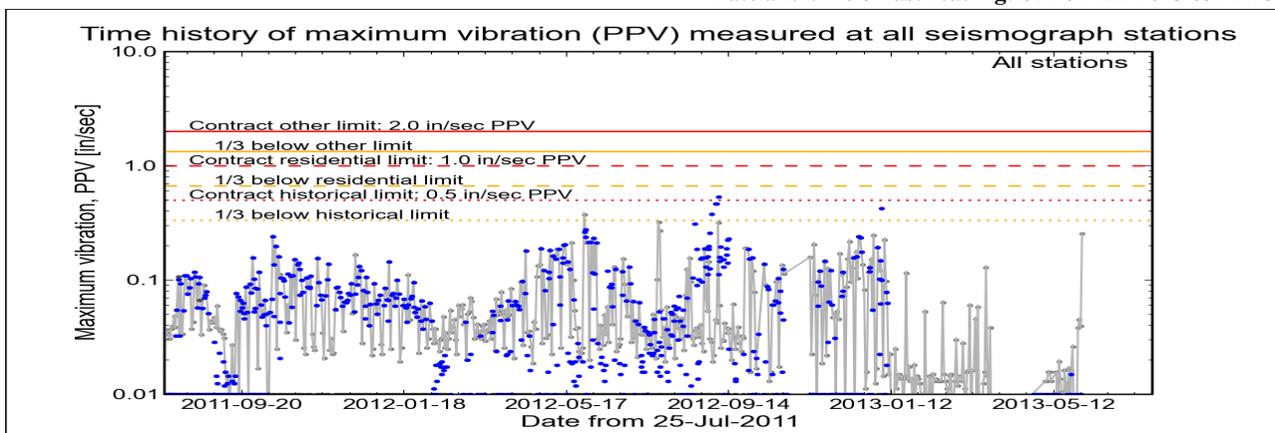
*Click station for station information or click channel for event summary.*



### 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:** Sun 02-Jun-2013 05:12:15



(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 02-Jun-2013</a>	05:12:15	0.2550	<a href="#">Bayonne</a>
<a href="#">Ambient</a>	<a href="#">Sat 01-Jun-2013</a>	20:47:56	0.0394	<a href="#">Bayonne</a>
<a href="#">Ambient</a>	<a href="#">Fri 31-May-2013</a>	22:58:29	0.0450	<a href="#">Bayonne</a>
<a href="#">Ambient</a>	<a href="#">Thu 30-May-2013</a>	14:58:42	0.0381	<a href="#">Elizabeth Marina</a>
<a href="#">Ambient</a>	<a href="#">Wed 29-May-2013</a>	21:47:35	0.0050	<a href="#">Elizabeth Marina</a>
<a href="#">Ambient</a>	<a href="#">Tue 28-May-2013</a>	18:01:42	0.0050	<a href="#">Elizabeth Port</a>



**US Army Corps  
of Engineers®**  
New York District

[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.

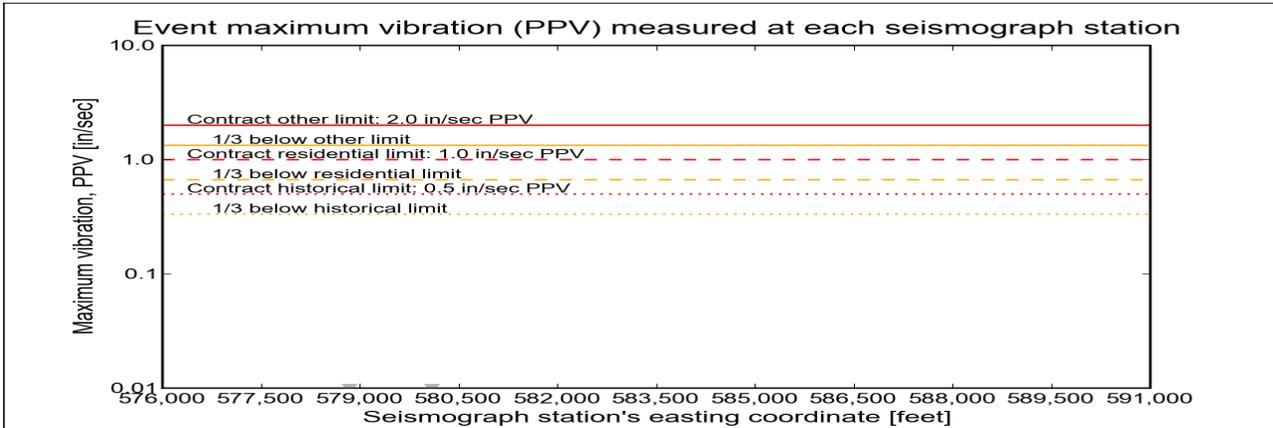
*Click station for more information about the station.*



### 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 02-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 02-Jun-2013	12:02:34	0.0075	Ambient
<a href="#">Elizabeth Port - e4s009</a>	Sun 02-Jun-2013	16:02:02	0.00375	Ambient
<a href="#">Bayonne - e4s011</a>	Sun 02-Jun-2013	05:12:15	0.255	Ambient