



Department of the Army  
New York District Corps of Engineers  
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26 Federal Plaza  
New York, NY 10278-0090

## Week of August 26 – September 1, 2013

The following pages display the results from the USACE-NYD real-time website for the week of Monday, August 26, through Sunday, September 1, 2013.

There were 6 blasts this week in the S-AK-3 project area. AK-36 failed to fire completely, so the remaining holes fired in AK-36A.

We recorded background vibrations in the S-AK-3 project area. The maximum vibration recorded was 0.323 in/s recorded at Elizabethport and Elizabeth Marina on August 26. Table 1 summarizes the blasts this week. There were no blasts on August 28, 2013 and September 1, 2013.

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 S-AK-3 Monday through Sunday.

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

August 26  
August 27  
August 28  
August 29  
August 30  
August 31  
September 1

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

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

Ground vibrations at NYCT were all below 0.0969 in/s. Ground vibrations at Elizabethport were all below 0.323 in/s. Ground vibrations at Elizabeth Marina were all below 0.323 in/s. 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>
AK-032	2013-08-26 16:22	0,740 - 2,250	0.323
AK-033	2013-08-27 14:28	0,870 - 2,350	0.146
AK-034	2013-08-29 09:51	0,990 - 2,470	0.142
AK-035	2013-08-30 09:11	1,130 - 2,590	0.0869
AK-036	2013-08-31 10:39	1,270 - 2,710	0.0869
AK-036A	2013-09-31 11:23	1,270 - 2,710	0.0256

## 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.*



[Today's 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
2013-09-01 Sun	Dredge 55	 578397	659330	
2013-09-01 Sun	Drillboat Apache	 579754	659881	
2013-08-31 Sat	Dredge 55	 578618	659585	
2013-08-31 Sat	Drillboat Apache	 578258	659329	
2013-08-30 Fri	Dredge 55	 578728	659695	
2013-08-30 Fri	Drillboat Apache	 578396	659403	
2013-08-29 Thu	Dredge 55	 579449	659843	
2013-08-29 Thu	Drillboat Apache	 578451	659476	
2013-08-28 Wed	Dredge 55	 578673	659659	
2013-08-28 Wed	Drillboat Apache	 579364	660353	
2013-08-27 Tue	Dredge 55	 579116	659988	
2013-08-27 Tue	Drillboat Apache	 578562	659585	
2013-08-26 Mon	Dredge 55	 579365	660207	
2013-08-26 Mon	Drillboat Apache	 578673	659695	



## 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.

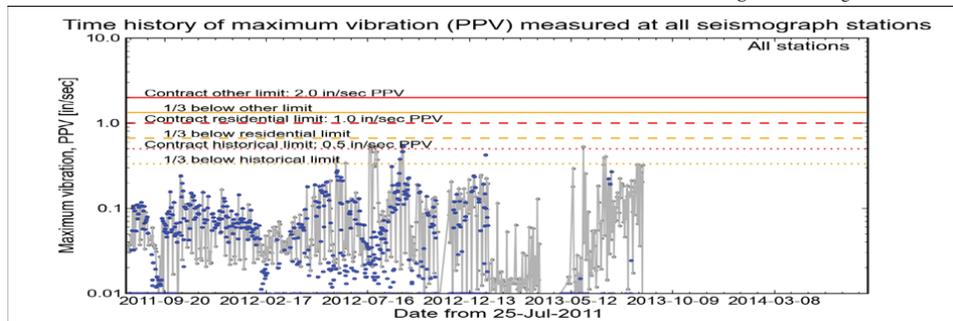
*Click station for station information or click channel for event summary.*



### 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 26-Aug-2013 20:17:30



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

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

Blast ID	Date	Time	Max PPV (in / second)	Max PPV Station
Ambient	Mon 26-Aug-2013	20:17:30	0.3230	Elizabeth Marina
Ambient	Sun 25-Aug-2013	16:46:44	0.0100	Bayonne
Ambient	Sat 24-Aug-2013	17:32:36	0.2060	Elizabeth Marina
Ambient	Fri 23-Aug-2013	17:49:25	0.2650	Elizabeth Marina
Ambient	Thu 22-Aug-2013	15:05:20	0.3110	Elizabeth Marina
Ambient	Wed 21-Aug-2013	02:46:47	0.0362	Bayonne

## 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.

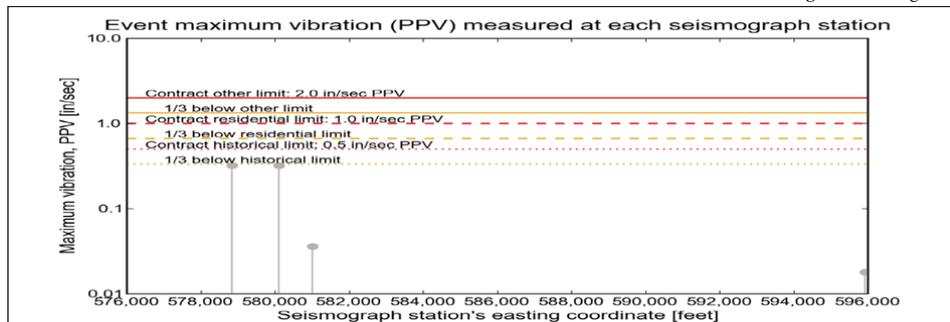
*Click station for more information about the station.*



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 26-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
<a href="#">Elizabeth Marina - e4s010</a>	Mon 26-Aug-2013	20:17:30	0.323	<a href="#">Ambient</a>
<a href="#">Elizabeth Port - e4s009</a>	Mon 26-Aug-2013	20:17:30	0.323	<a href="#">Ambient</a>
<a href="#">NYCT - e4s008</a>	Mon 26-Aug-2013	20:08:54	0.0362	<a href="#">Ambient</a>
<a href="#">Bayonne - e4s011</a>	Mon 26-Aug-2013	00:01:49	0.0181	<a href="#">Ambient</a>



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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.

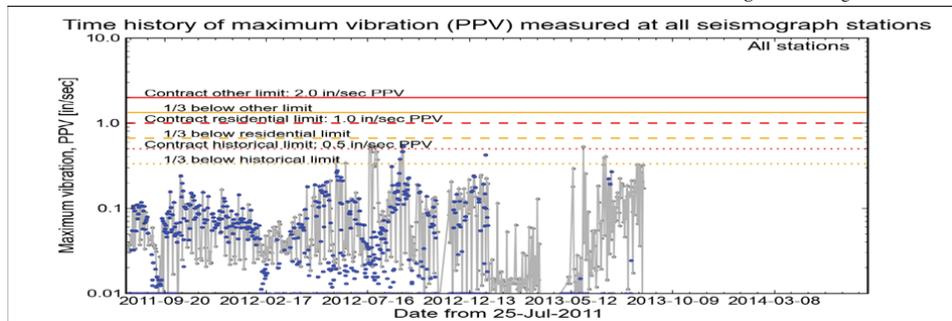
*Click station for station information or click channel for event summary.*



### 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 27-Aug-2013 18:17:37



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

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

Blast ID	Date	Time	Max PPV (in / second)	Max PPV Station
Ambient	Tue 27-Aug-2013	18:17:37	0.1720	Elizabeth Marina
Ambient	Mon 26-Aug-2013	20:17:30	0.3230	Elizabeth Marina
Ambient	Sun 25-Aug-2013	16:46:44	0.0100	Bayonne
Ambient	Sat 24-Aug-2013	17:32:36	0.2060	Elizabeth Marina
Ambient	Fri 23-Aug-2013	17:49:25	0.2650	Elizabeth Marina
Ambient	Thu 22-Aug-2013	15:05:20	0.3110	Elizabeth Marina

## 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.

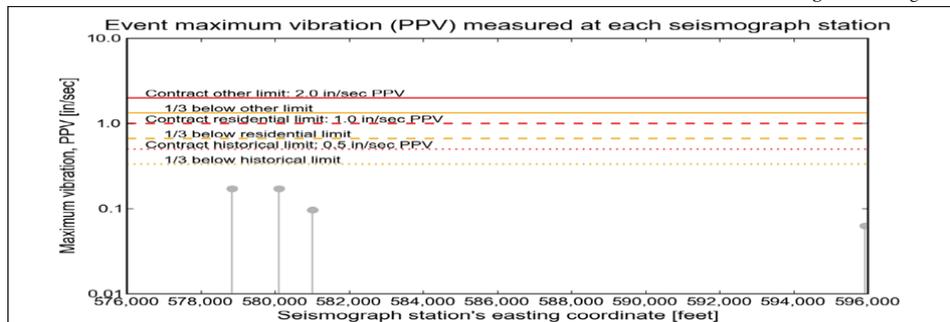
*Click station for more information about the station.*



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 27-Aug-2013



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

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

Station	Date	Time	Max PPV (in / second)	Vibration Type
Elizabeth Marina - e4s010	Tue 27-Aug-2013	18:17:37	0.172	Ambient
Elizabeth Port - e4s009	Tue 27-Aug-2013	18:17:37	0.172	Ambient
NYCT - e4s008	Tue 27-Aug-2013	15:41:47	0.0969	Ambient
Bayonne - e4s011	Tue 27-Aug-2013	15:02:19	0.0631	Ambient



## Arthur Kill Blast Vibration Summary

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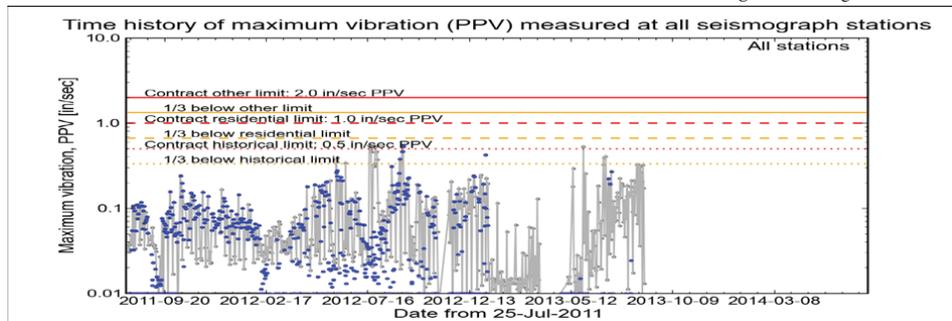
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Date and time of last reading: Wed 28-Aug-2013 16:52:44



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

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

Blast ID	Date	Time	Max PPV (in / second)	Max PPV Station
Ambient	Wed 28-Aug-2013	16:52:44	0.0131	NYCT
Ambient	Tue 27-Aug-2013	18:17:37	0.1720	Elizabeth Marina
Ambient	Mon 26-Aug-2013	20:17:30	0.3230	Elizabeth Marina
Ambient	Sun 25-Aug-2013	16:46:44	0.0100	Bayonne
Ambient	Sat 24-Aug-2013	17:32:36	0.2060	Elizabeth Marina
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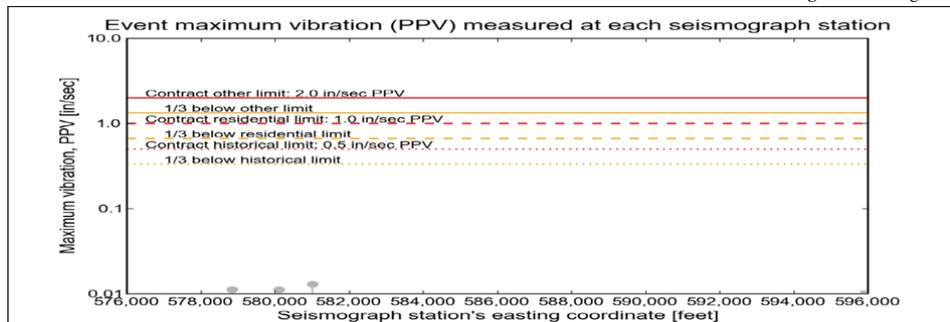
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Date of reading: Wed 28-Aug-2013



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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	Wed 28-Aug-2013	17:02:37	0.0112	Ambient
Elizabeth Port - e4s009	Wed 28-Aug-2013	17:02:37	0.0112	Ambient
NYCT - e4s008	Wed 28-Aug-2013	16:52:44	0.0131	Ambient
Bayonne - e4s011	Wed 28-Aug-2013	15:16:43	0.0075	Ambient



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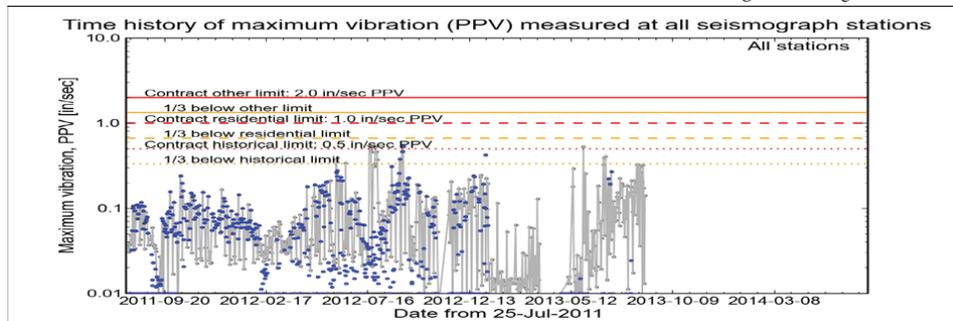
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### Latest Event Summary

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Date and time of last reading: Thu 29-Aug-2013 13:47:35



(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
Ambient	Thu 29-Aug-2013	13:47:35	0.1420	Elizabeth Marina
Ambient	Wed 28-Aug-2013	16:52:44	0.0131	NYCT
Ambient	Tue 27-Aug-2013	18:17:37	0.1720	Elizabeth Marina
Ambient	Mon 26-Aug-2013	20:17:30	0.3230	Elizabeth Marina
Ambient	Sun 25-Aug-2013	16:46:44	0.0100	Bayonne
Ambient	Sat 24-Aug-2013	17:32:36	0.2060	Elizabeth Marina

## Arthur Kill Blasting Event Summary

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

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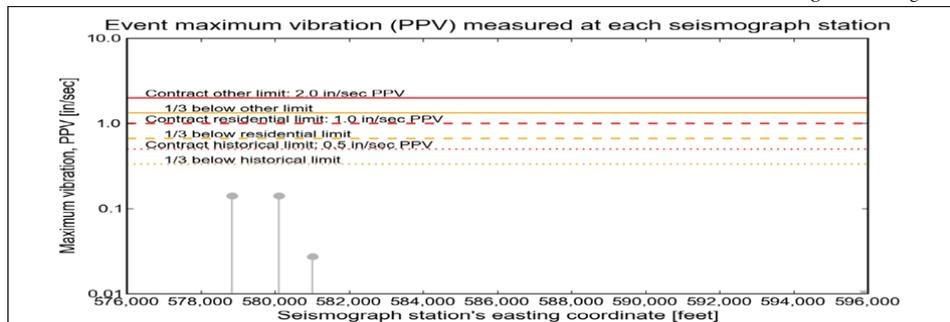
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Selected Event Summary

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 29-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	Thu 29-Aug-2013	13:47:35	0.142	Ambient
Elizabeth Port - e4s009	Thu 29-Aug-2013	13:47:35	0.142	Ambient
NYCT - e4s008	Thu 29-Aug-2013	13:38:25	0.0275	Ambient
Bayonne - e4s011	Thu 29-Aug-2013	07:31:46	0.00562	Ambient



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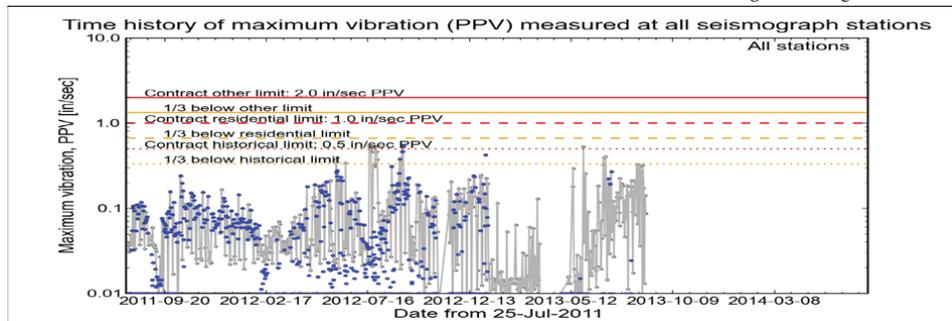
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Date and time of last reading: Fri 30-Aug-2013 13:02:35



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

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

Blast ID	Date	Time	Max PPV (in / second)	Max PPV Station
Ambient	Fri 30-Aug-2013	13:02:35	0.0869	Elizabeth Marina
Ambient	Thu 29-Aug-2013	13:47:35	0.1420	Elizabeth Marina
Ambient	Wed 28-Aug-2013	16:52:44	0.0131	NYCT
Ambient	Tue 27-Aug-2013	18:17:37	0.1720	Elizabeth Marina
Ambient	Mon 26-Aug-2013	20:17:30	0.3230	Elizabeth Marina
Ambient	Sun 25-Aug-2013	16:46:44	0.0100	Ravonne

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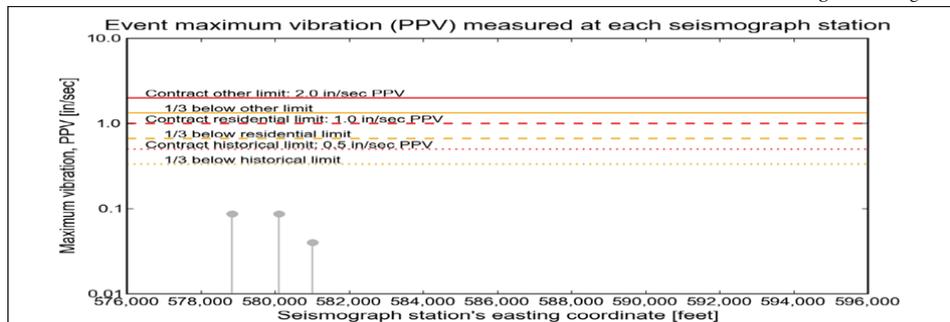
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Date of reading: Fri 30-Aug-2013



(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
<a href="#">Elizabeth Marina - e4s010</a>	Fri 30-Aug-2013	13:02:35	0.0869	<a href="#">Ambient</a>
<a href="#">Elizabeth Port - e4s009</a>	Fri 30-Aug-2013	13:02:35	0.0869	<a href="#">Ambient</a>
<a href="#">NYCT - e4s008</a>	Fri 30-Aug-2013	12:52:43	0.04	<a href="#">Ambient</a>



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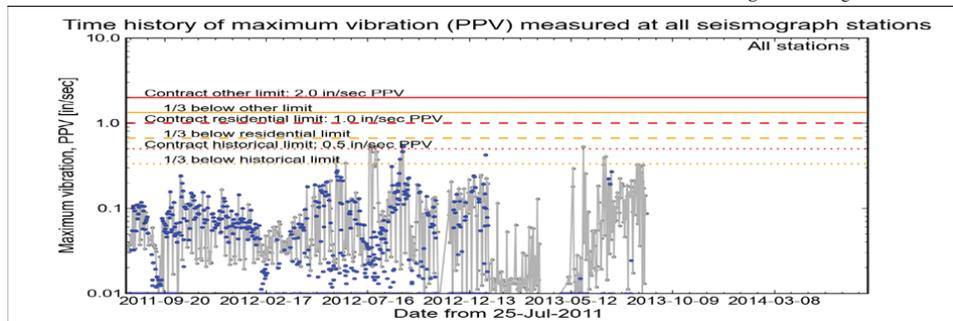
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The graph below is a plot of the maximum vibration recorded by any and all of the numerous seismograph stations during the current observation event (ambient or blast). The horizontal axis gives the date from the start of the project on 25 July 2011. 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 31-Aug-2013 14:24:17



(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 31-Aug-2013	14:24:17	0.0869	Elizabeth Marina
Ambient	Fri 30-Aug-2013	13:02:35	0.0869	Elizabeth Marina
Ambient	Thu 29-Aug-2013	13:47:35	0.1420	Elizabeth Marina
Ambient	Wed 28-Aug-2013	16:52:44	0.0131	NYCT
Ambient	Tue 27-Aug-2013	18:17:37	0.1720	Elizabeth Marina
Ambient	Mon 26-Aug-2013	20:17:30	0.3230	Elizabeth Marina

## 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.

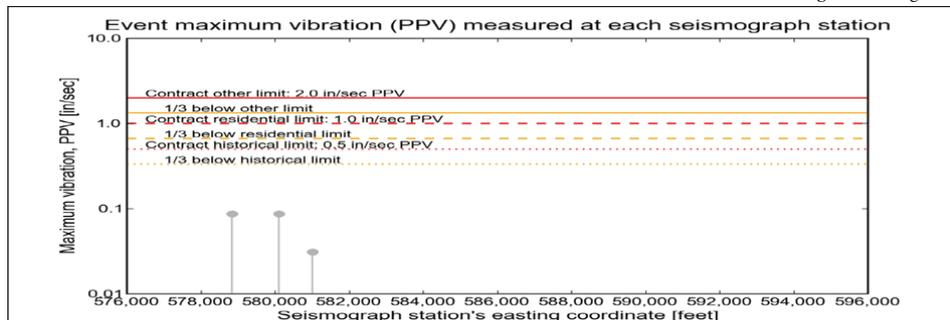
*Click station for more information about the station.*



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 31-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
<a href="#">Elizabeth Marina - e4s010</a>	Sat 31-Aug-2013	14:24:17	0.0869	<a href="#">Ambient</a>
<a href="#">Elizabeth Port - e4s009</a>	Sat 31-Aug-2013	14:24:17	0.0869	<a href="#">Ambient</a>
<a href="#">NYCT - e4s008</a>	Sat 31-Aug-2013	14:37:46	0.0312	<a href="#">Ambient</a>



## 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.

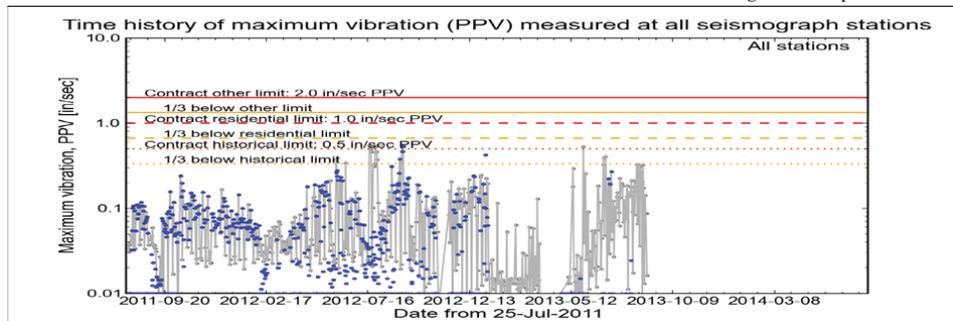
*Click station for station information or click channel for event summary.*



### 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 01-Sep-2013 18:54:02



(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	Sun 01-Sep-2013	18:54:02	0.0162	NYCT
Ambient	Sat 31-Aug-2013	14:24:17	0.0869	Elizabeth Marina
Ambient	Fri 30-Aug-2013	13:02:35	0.0869	Elizabeth Marina
Ambient	Thu 29-Aug-2013	13:47:35	0.1420	Elizabeth Marina
Ambient	Wed 28-Aug-2013	16:52:44	0.0131	NYCT
Ambient	Tue 27-Aug-2013	18:17:37	0.1720	Elizabeth Marina

## 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.

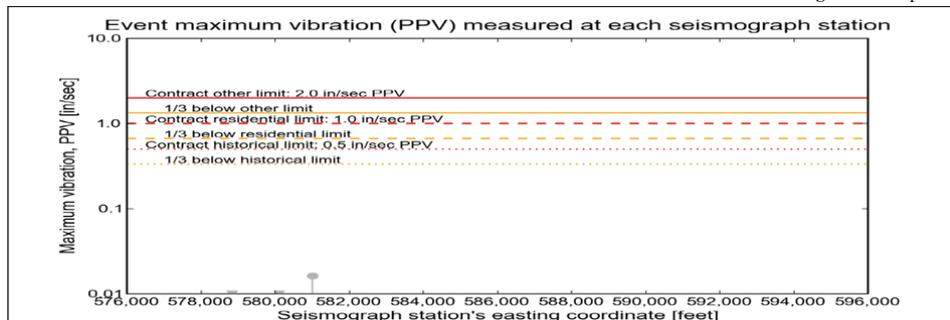
*Click station for more information about the station.*



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 01-Sep-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 01-Sep-2013	14:32:34	0.00375	<a href="#">Ambient</a>
<a href="#">Elizabeth Port - e4s009</a>	Sun 01-Sep-2013	14:32:34	0.00375	<a href="#">Ambient</a>
<a href="#">NYCT - e4s008</a>	Sun 01-Sep-2013	18:54:02	0.0162	<a href="#">Ambient</a>