



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 September 2 – September 8, 2013

The following pages display the results from the USACE-NYD real-time website for the week of Monday, September 2, through Sunday, September 8, 2013.

There were 5 blasts this week in the S-AK-3 project area.

We recorded background vibrations in the S-AK-3 project area. The maximum vibration recorded was 0.159 in/s recorded at Elizabeth Marina on September 5. Table 1 summarizes the blasts this week. There were no blasts on September 2, 4 and 8, 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:

September 2
September 3
September 4
September 5
September 6
September 7
September 8

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 0.0331 in/s. Ground vibrations at Elizabethport were all below 0.0319 in/s. Ground vibrations at Elizabeth Marina were all below 0.159 in/s. All blast vibration measurements are below the contract vibration limits for this site.

Table 1. Blast Summary for this week

Blast	Date & Time EST/EDT of blast	Distance from blast to e4s stations (feet)	e4s Max. vibration (in/s)
AK-037	2013-09-03 16:25	1,400 – 2,820	0.0725
AK-038	2013-09-05 09:01	0,990 – 2,550	0.159
AK-039	2013-09-05 16:04	1,510 – 2,930	0.04
AK-040	2013-09-06 13:05	1,140 – 2,660	0.0944
AK-041	2013-09-07 12:25	1,290 – 2,790	0.119



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
2013-09-08 Sun	Drillboat Apache	579477	659807	
2013-09-07 Sat	Drillboat Apache	578148	659110	
2013-09-06 Fri	Drillboat Apache	578286	659220	
2013-09-05 Thu	Dredge 55	579559	660026	
2013-09-05 Thu	Drillboat Apache	578424	659366	
2013-09-04 Wed	Dredge 55	578314	659257	
2013-09-04 Wed	Drillboat Apache	578480	659330	
2013-09-03 Tue	Dredge 55	579698	659990	
2013-09-03 Tue	Drillboat Apache	578175	659183	
2013-09-02 Mon	Dredge 55	578397	659330	
2013-09-02 Mon	Drillboat Apache	579726	659881	



Arthur Kill Blast Vibration Summary

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This page represents the most recent observations.

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

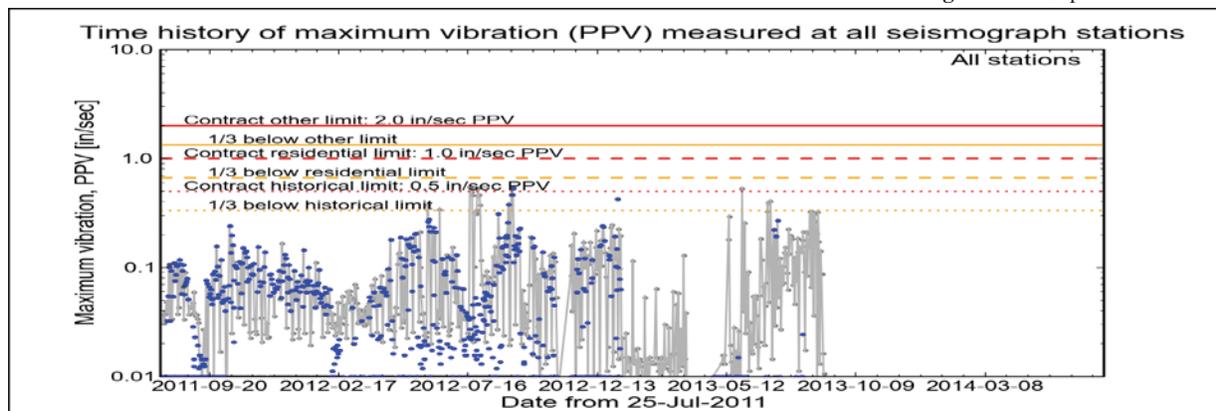
Click station for station information or click channel for event summary.



Latest Event Summary

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

Date and time of last reading: Mon 02-Sep-2013 14:25:41



(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 02-Sep-2013	14:25:41	0.0106	NYCT
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



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.

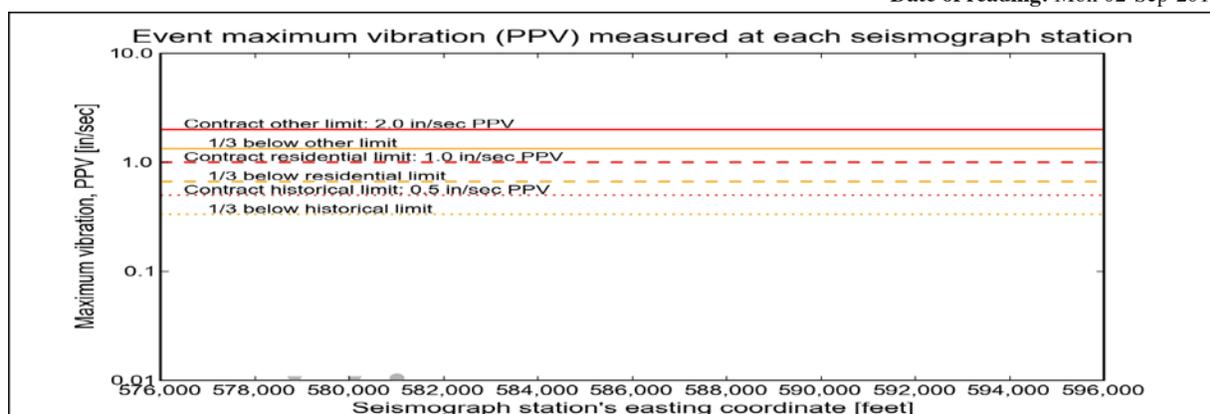
Click station for more information about the station.



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 02-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
Elizabeth Marina - e4s010	Mon 02-Sep-2013	12:17:32	0.00625	Ambient
Elizabeth Port - e4s009	Mon 02-Sep-2013	12:17:32	0.00625	Ambient
NYCT - e4s008	Mon 02-Sep-2013	14:25:41	0.0106	Ambient



Arthur Kill Blast Vibration Summary

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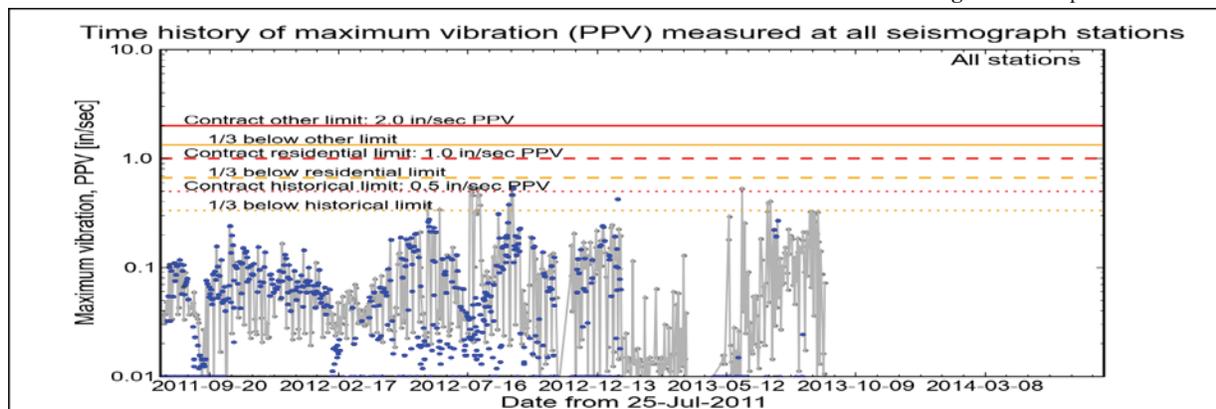
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Date and time of last reading: Tue 03-Sep-2013 20:17:33



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

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

Blast ID	Date	Time	Max PPV (in / second)	Max PPV Station
Ambient	Tue 03-Sep-2013	20:17:33	0.0725	Elizabeth Marina
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Ambient	Sun 01-Sep-2013	18:54:02	0.0162	NYCT
Ambient	Sat 31-Aug-2013	14:24:17	0.0869	Elizabeth Marina
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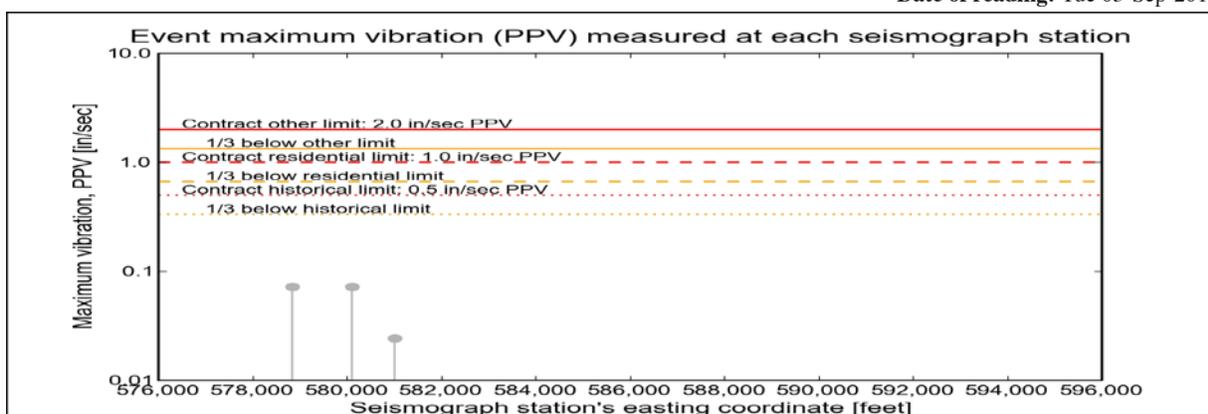
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Station	Date	Time	Max PPV (in / second)	Vibration Type
Elizabeth Marina - e4s010	Tue 03-Sep-2013	20:17:33	0.0725	Ambient
Elizabeth Port - e4s009	Tue 03-Sep-2013	20:17:33	0.0725	Ambient
NYCT - e4s008	Tue 03-Sep-2013	20:22:46	0.0244	Ambient



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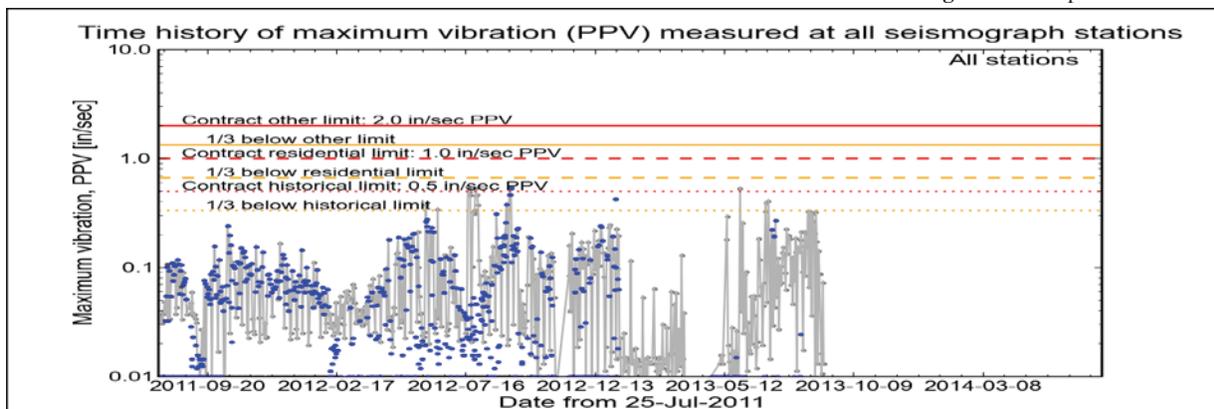
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Date and time of last reading: Wed 04-Sep-2013 15:37:44



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

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Ambient	Wed 04-Sep-2013	15:37:44	0.0131	NYCT
Ambient	Tue 03-Sep-2013	20:17:33	0.0725	Elizabeth Marina
Ambient	Mon 02-Sep-2013	14:25:41	0.0106	NYCT
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



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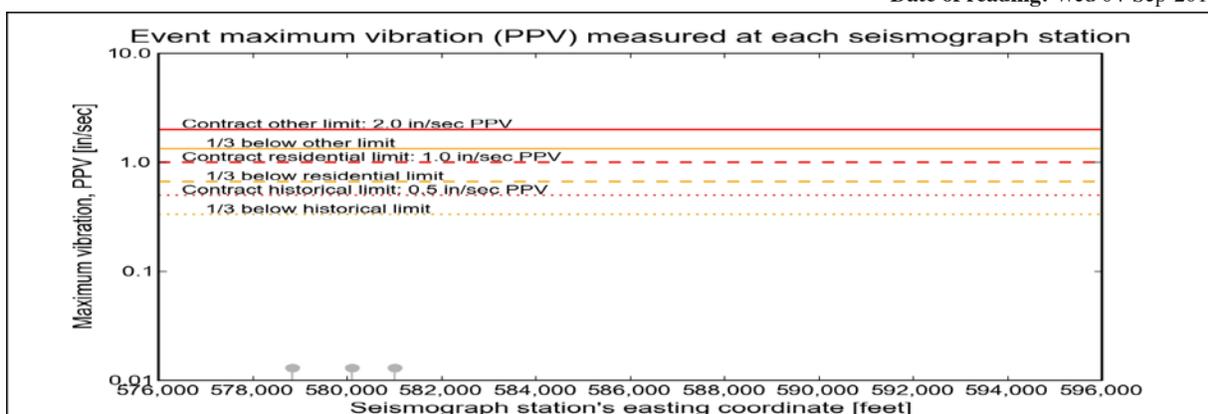
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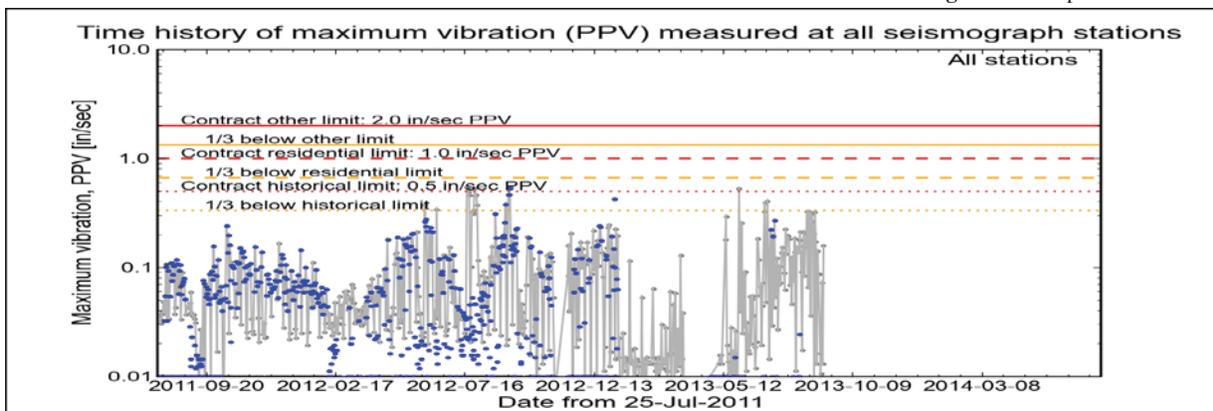
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Date and time of last reading: Thu 05-Sep-2013 12:47:35



(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 05-Sep-2013	12:47:35	0.1590	Elizabeth Marina
Ambient	Wed 04-Sep-2013	15:37:44	0.0131	NYCT
Ambient	Tue 03-Sep-2013	20:17:33	0.0725	Elizabeth Marina
Ambient	Mon 02-Sep-2013	14:25:41	0.0106	NYCT
Ambient	Sun 01-Sep-2013	18:54:02	0.0162	NYCT
Ambient	Sat 31-Aug-2013	14:24:17	0.0869	Elizabeth Marina



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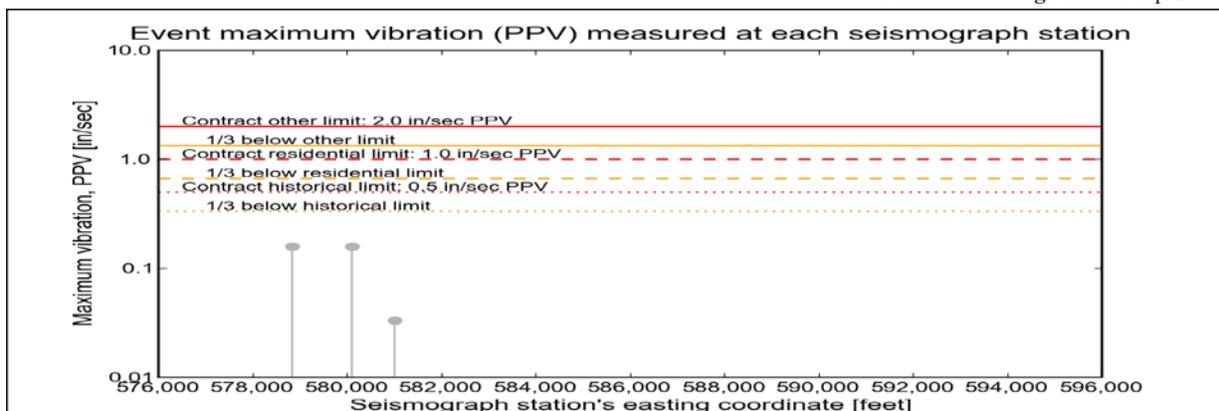
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Date of reading: Thu 05-Sep-2013



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

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Station	Date	Time	Max PPV (in / second)	Vibration Type
Elizabeth Marina - e4s010	Thu 05-Sep-2013	12:47:35	0.159	Ambient
Elizabeth Port - e4s009	Thu 05-Sep-2013	12:47:35	0.159	Ambient
NYCT - e4s008	Thu 05-Sep-2013	12:53:04	0.0331	Ambient



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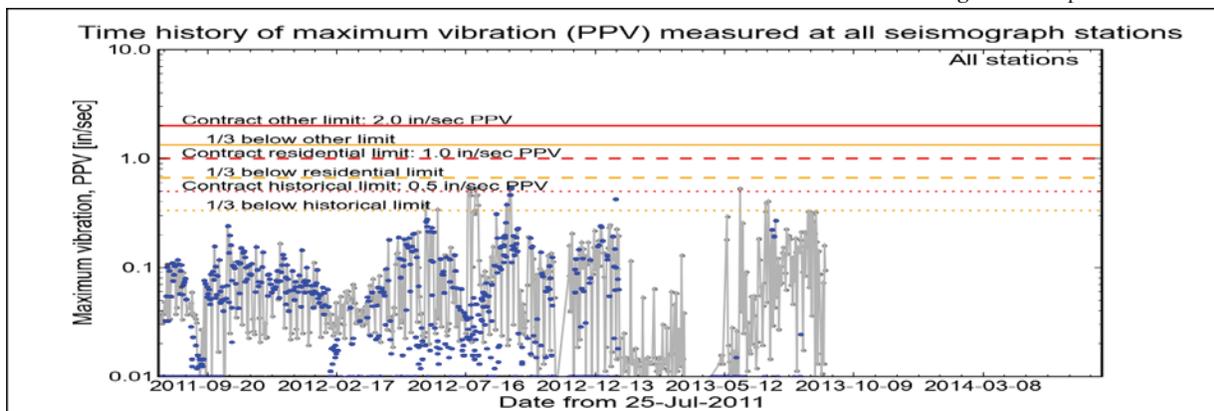
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Date and time of last reading: Fri 06-Sep-2013 17:02:37



(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	Fri 06-Sep-2013	17:02:37	0.0944	Elizabeth Marina
Ambient	Thu 05-Sep-2013	12:47:35	0.1590	Elizabeth Marina
Ambient	Wed 04-Sep-2013	15:37:44	0.0131	NYCT
Ambient	Tue 03-Sep-2013	20:17:33	0.0725	Elizabeth Marina
Ambient	Mon 02-Sep-2013	14:25:41	0.0106	NYCT
Ambient	Sun 01-Sep-2013	18:54:02	0.0162	NYCT



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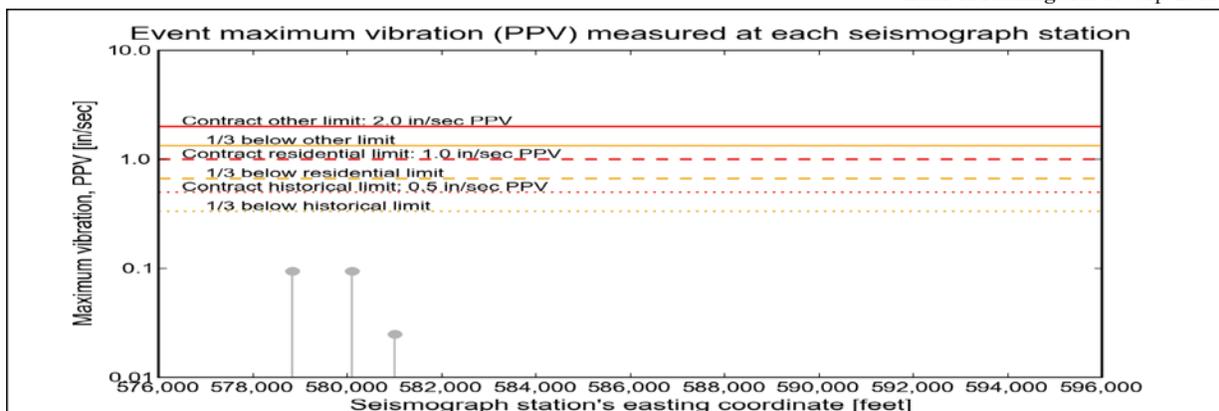
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Date of reading: Fri 06-Sep-2013



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Elizabeth Port - e4s009	Fri 06-Sep-2013	17:02:37	0.0944	Ambient
NYCT - e4s008	Fri 06-Sep-2013	16:52:47	0.025	Ambient



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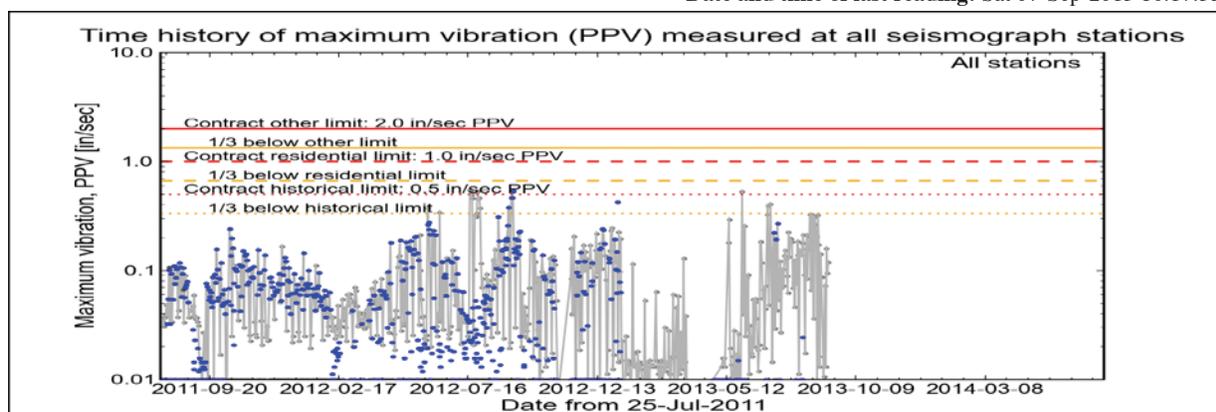
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Date and time of last reading: Sat 07-Sep-2013 16:17:33



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

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Blast ID	Date	Time	Max PPV (in / second)	Max PPV Station
Ambient	Sat 07-Sep-2013	16:17:33	0.1190	Elizabeth Marina
Ambient	Fri 06-Sep-2013	17:02:37	0.0944	Elizabeth Marina
Ambient	Thu 05-Sep-2013	12:47:35	0.1590	Elizabeth Marina
Ambient	Wed 04-Sep-2013	15:37:44	0.0131	NYCT
Ambient	Tue 03-Sep-2013	20:17:33	0.0725	Elizabeth Marina
Ambient	Mon 02-Sep-2013	14:25:41	0.0106	NYCT



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.

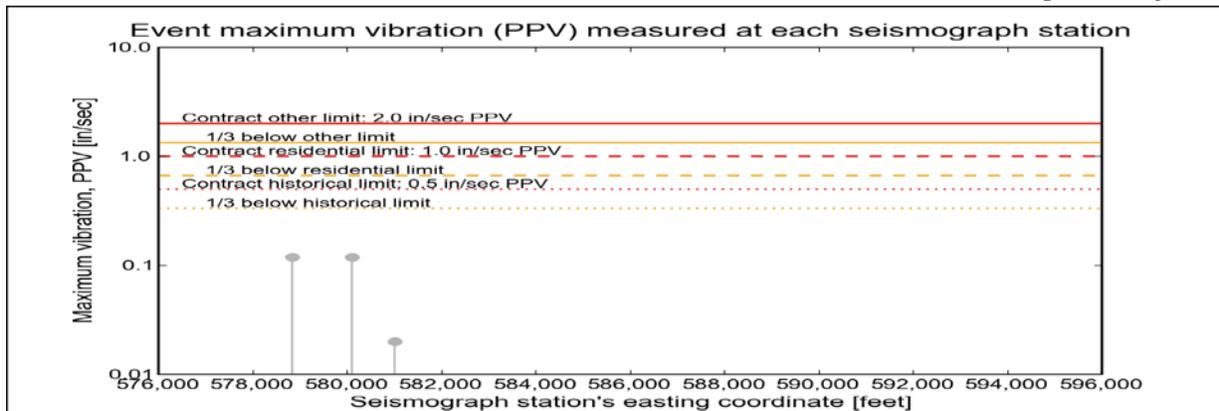
Click station for more information about the station.



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 07-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
Elizabeth Marina - e4s010	Sat 07-Sep-2013	16:17:33	0.119	Ambient
Elizabeth Port - e4s009	Sat 07-Sep-2013	16:17:33	0.119	Ambient
NYCT - e4s008	Sat 07-Sep-2013	16:22:46	0.02	Ambient



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.

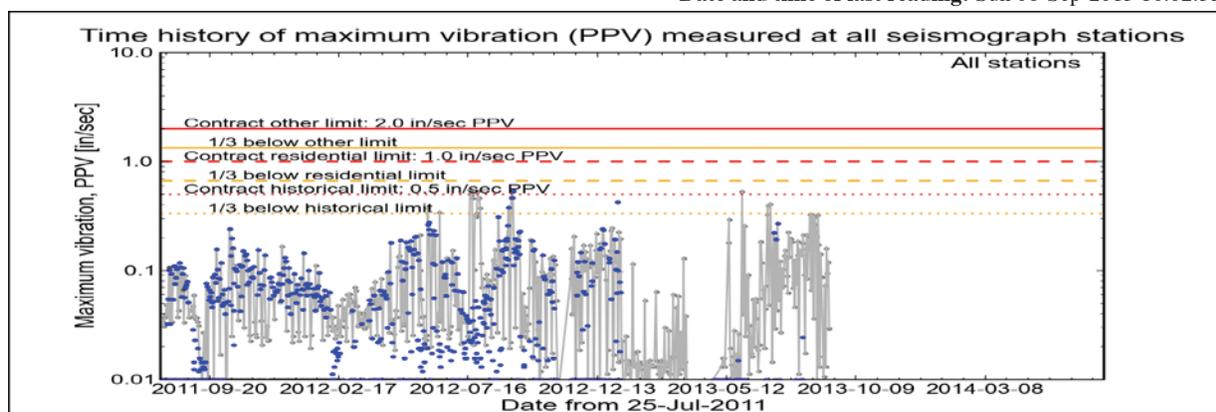
Click station for station information or click channel for event summary.



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 08-Sep-2013 16:02:33



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

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

Blast ID	Date	Time	Max PPV (in / second)	Max PPV Station
Ambient	Sun 08-Sep-2013	16:02:33	0.0294	Elizabeth Marina
Ambient	Sat 07-Sep-2013	16:17:33	0.1190	Elizabeth Marina
Ambient	Fri 06-Sep-2013	17:02:37	0.0944	Elizabeth Marina
Ambient	Thu 05-Sep-2013	12:47:35	0.1590	Elizabeth Marina
Ambient	Wed 04-Sep-2013	15:37:44	0.0131	NYCT
Ambient	Tue 03-Sep-2013	20:17:33	0.0725	Elizabeth Marina



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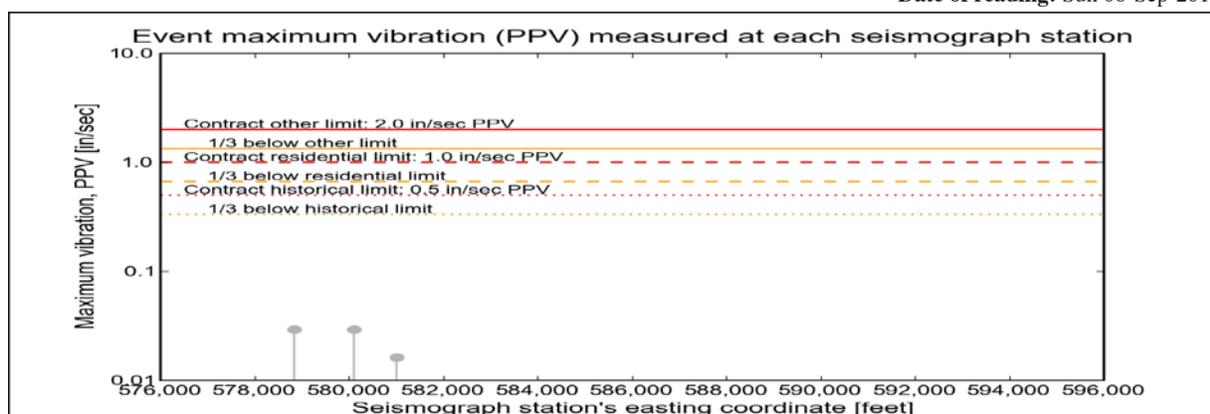
Click station for more information about the station.



Selected Event Summary

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

Date of reading: Sun 08-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
Elizabeth Marina - e4s010	Sun 08-Sep-2013	16:02:33	0.0294	Ambient
Elizabeth Port - e4s009	Sun 08-Sep-2013	16:02:33	0.0294	Ambient
NYCT - e4s008	Sun 08-Sep-2013	05:37:47	0.0162	Ambient