



Department of the Army
New York District Corps of Engineers
Jacob K. Javits Federal Building
26 Federal Plaza
New York, NY 10278-0090

Week of June 17 – June 23, 2013

The following pages display the results from the USACE-NYD real-time website for the week of Monday, June 17, through Sunday, June 23, 2013.

There were 2 blasts this week in the KVK-Buoy 10 project area and 2 blasts in the West-ELIZ project area.

We recorded vibrations in the KVK-Buoy 10 project area and background vibrations in the S-AK-3 project area. The maximum vibration recorded was 0.185 in/s recorded at Bayonne on June 20. 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 KVK-Buoy 10 Thursday and Friday, then operated in West-ELIZ on Saturday. Dredge 55 operated in S-AK-3 on Thursday, then operated in KVK-Buoy 10 Friday 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:

June 17
June 18
June 19
June 20
June 21
June 22
June 23

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

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

Ambient ground vibrations at NYCT were all below 0.02 in/s. Ambient vibrations at Elizabethport were all below 0.02 in/s. Ambient vibrations at Elizabeth Marina were all below 0.12 in/s. Ambient vibrations at Bayonne were all below 0.19 in/s (this station receives noise vibrations from vehicle traffic on W 1st Street). All blast vibration measurements are below the contract vibration limits for this site.

Table 1. Blast Summary for this week

Blast	Date & Time EST/EDT of blast	Distance from blast to e4s stations (feet)	e4s Max. vibration (in/s)
KVK-001	2013-06-20 17:45	1,020 - 16,170	0.185
KVK-002	2013-06-21 15:14	1,030 - 16,150	0.182
WE-027	2013-06-22 09:30	15,880 - 17,820	n/a
WE-028	2013-06-22 17:30	15,860 - 17,810	n/a



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Dredge Position Summary

This page summarizes dredge positions for the week. The Arthur Kill contract area is mapped with a top-of-rock map. The navigation grid is superimposed. The map shows dredge locations by colored symbols, connected by colored lines to the week's past locations marked by gray symbols. The map resets beginning the Monday of each week.

Mousing over a dredge location produces a pop-up text box giving dredge name, date of location, and easting and northing coordinates of the location in the NAD83 New Jersey State Plane coordinate system.

Click on a station for station information.



[Todays Dredge Position](#)

[Latest Week's
Dredge Position Summary](#)

[Project
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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
2013-06-23 Sun	Capt AJ Fournier	585781	658628	
2013-06-23 Sun	Dredge 55	595211	659796	
2013-06-22 Sat	Dredge 55	595877	659798	
2013-06-21 Fri	Capt AJ Fournier	585781	658628	
2013-06-21 Fri	Dredge 55	579281	660244	
2013-06-20 Thu	Capt AJ Fournier	585836	658629	
2013-06-20 Thu	Drillboat Apache	588521	660315	
2013-06-19 Wed	Capt AJ Fournier	585781	658628	
2013-06-19 Wed	Drillboat Apache	588947	657948	
2013-06-18 Tue	Capt AJ Fournier	585753	658665	
2013-06-18 Tue	Drillboat Apache	588947	657948	
2013-06-17 Mon	Capt AJ Fournier	585753	658628	
2013-06-17 Mon	Drillboat Apache	588947	657948	



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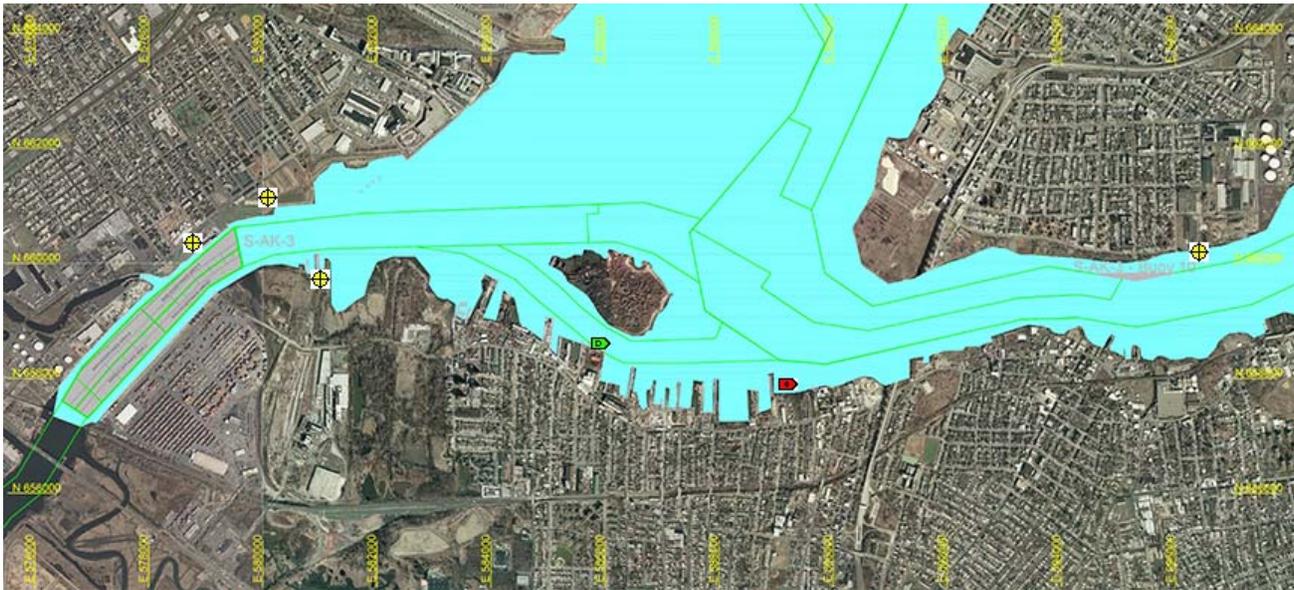
Arthur Kill Blast Vibration Summary

This site summarizes the measured ground vibrations in northwest Staten Island, from rock blasting in the Arthur Kill and other possible sources. The site is updated daily. The data are intended for the sole use of the US Army Corps of Engineers - New York District, for managing and monitoring the performance of NYNJ Harbor Deepening Project Contract in Arthur Kill starting 25 July 2011.

This page represents the most recent observations.

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

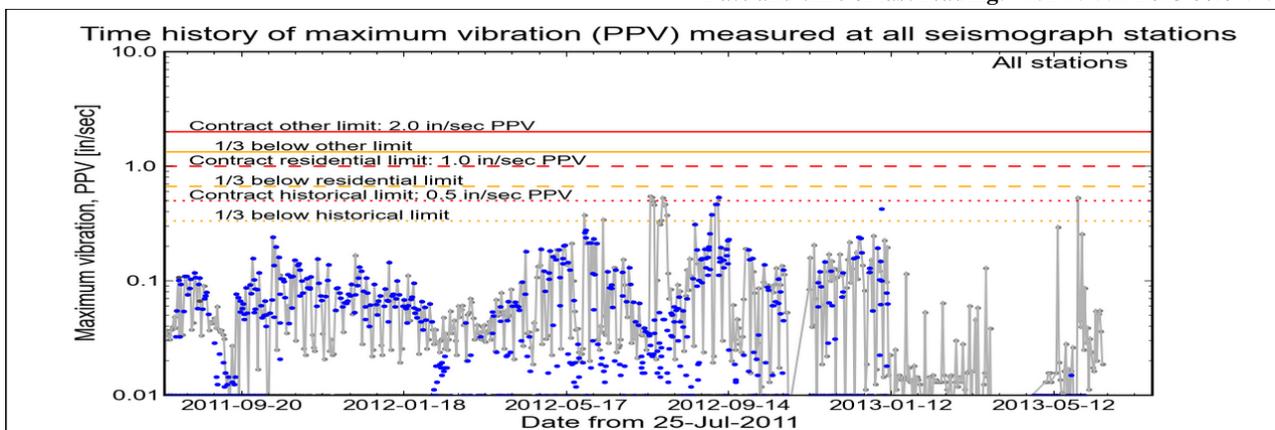
Click station for station information or click channel for event summary.



Latest Event Summary

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

Date and time of last reading: Mon 17-Jun-2013 00:01:47



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

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

Blast ID	Date	Time	Max PPV (in / second)	Max PPV Station
Ambient	Mon 17-Jun-2013	00:01:47	0.0187	Bayonne
Ambient	Sun 16-Jun-2013	01:55:08	0.0362	Bayonne
Ambient	Sat 15-Jun-2013	18:01:44	0.0550	Bayonne
Ambient	Fri 14-Jun-2013	15:32:37	0.0512	Elizabeth Marina
Ambient	Thu 13-Jun-2013	19:46:49	0.0200	Bayonne
Ambient	Wed 12-Jun-2013	23:17:04	0.0544	Bavonne



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Arthur Kill Blasting Event Summary

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

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

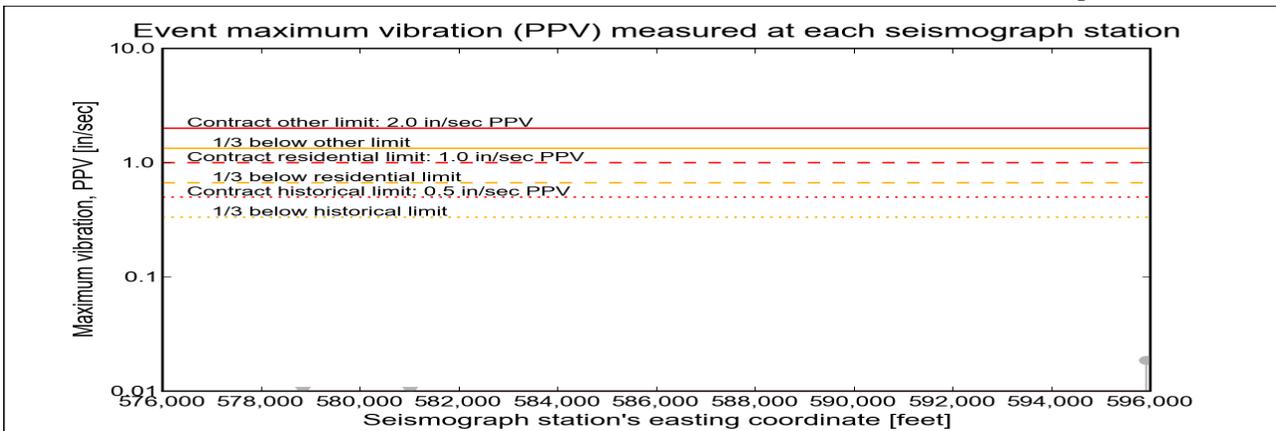
Click station for more information about the station.



Selected Event Summary

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

Date of reading: Mon 17-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
Elizabeth Marina - e4s010	Mon 17-Jun-2013	07:02:34	0.00562	Ambient
NYCT - e4s008	Mon 17-Jun-2013	19:22:46	0.00437	Ambient
Bayonne - e4s011	Mon 17-Jun-2013	00:01:47	0.0187	Ambient



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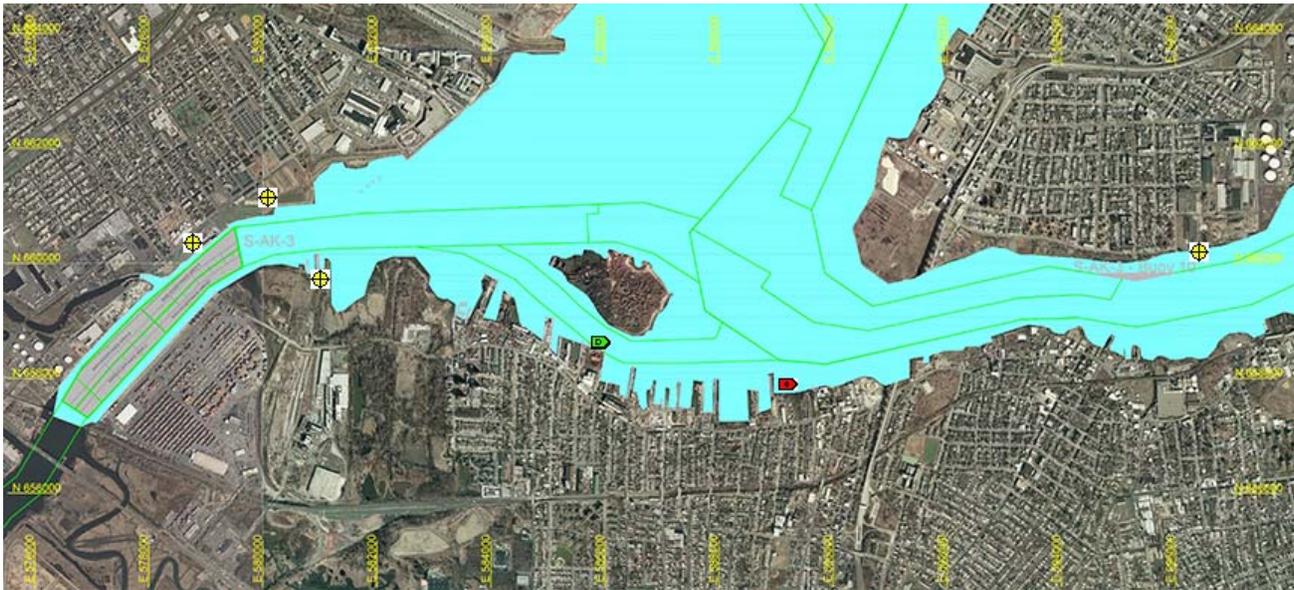
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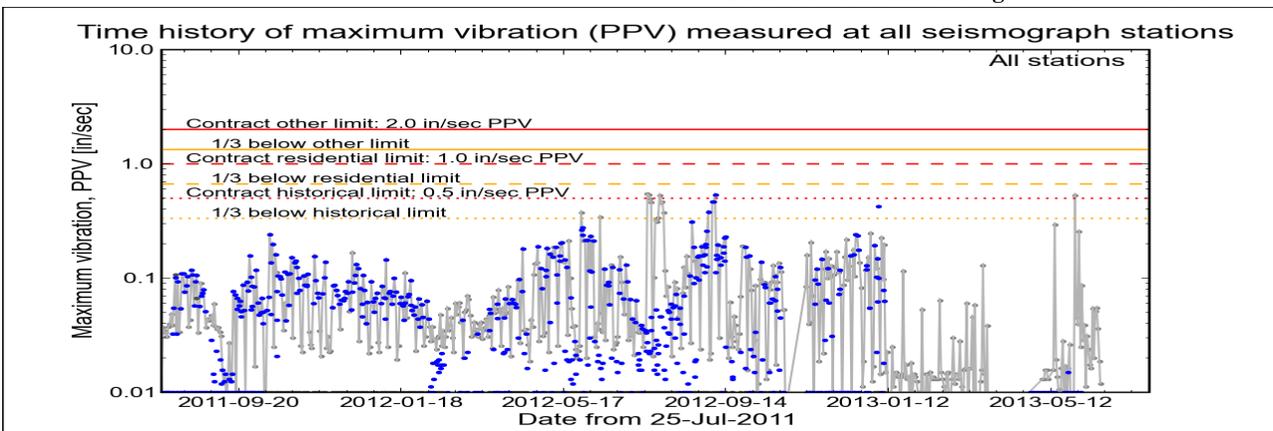
Click station for station information or click channel for event summary.



Latest Event Summary

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Date and time of last reading: Tue 18-Jun-2013 15:46:46



(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 18-Jun-2013	15:46:46	0.0119	Bayonne
Ambient	Mon 17-Jun-2013	00:01:47	0.0187	Bayonne
Ambient	Sun 16-Jun-2013	01:55:08	0.0362	Bayonne
Ambient	Sat 15-Jun-2013	18:01:44	0.0550	Bayonne
Ambient	Fri 14-Jun-2013	15:32:37	0.0512	Elizabeth Marina
Ambient	Thu 13-Jun-2013	19:46:49	0.0200	Bavonne



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Arthur Kill Blasting Event Summary

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

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

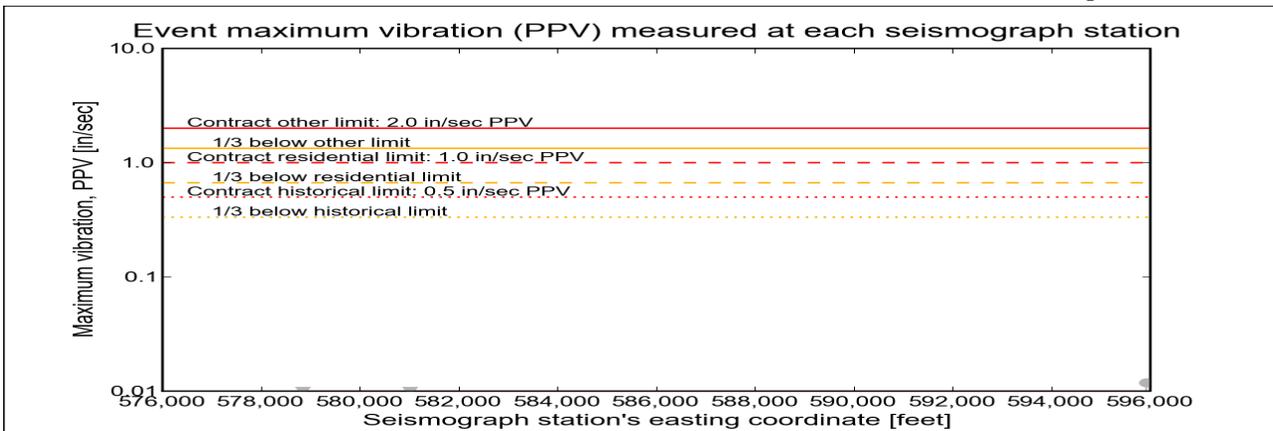
Click station for more information about the station.



Selected Event Summary

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Date of reading: Tue 18-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
Elizabeth Marina - e4s010	Tue 18-Jun-2013	14:47:34	0.0075	Ambient
NYCT - e4s008	Tue 18-Jun-2013	02:52:52	0.005	Ambient
Bayonne - e4s011	Tue 18-Jun-2013	15:46:46	0.0119	Ambient



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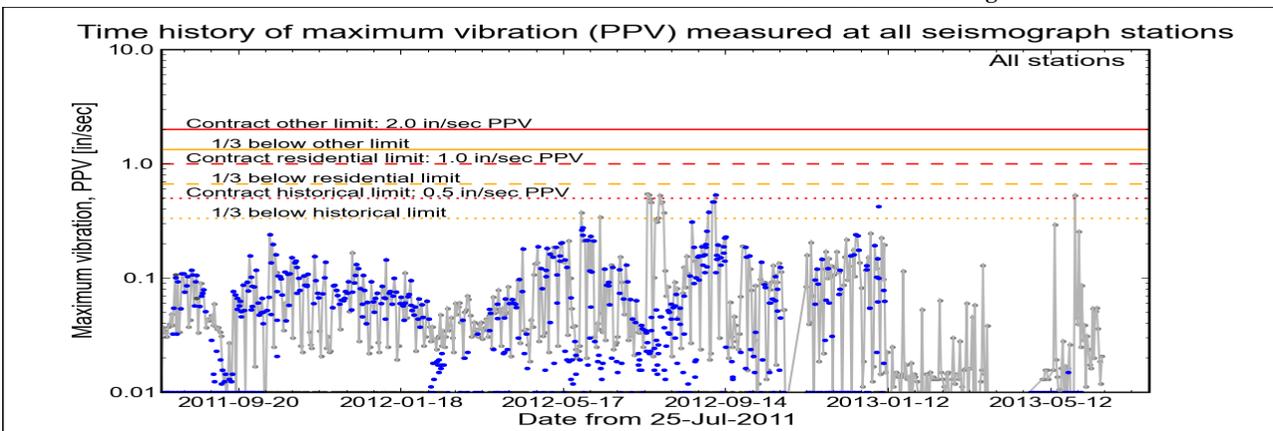
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Latest Event Summary

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Date and time of last reading: Wed 19-Jun-2013 22:30:32



(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 19-Jun-2013	22:30:32	0.0206	Bayonne
Ambient	Tue 18-Jun-2013	15:46:46	0.0119	Bayonne
Ambient	Mon 17-Jun-2013	00:01:47	0.0187	Bayonne
Ambient	Sun 16-Jun-2013	01:55:08	0.0362	Bayonne
Ambient	Sat 15-Jun-2013	18:01:44	0.0550	Bayonne
Ambient	Fri 14-Jun-2013	15:32:37	0.0512	Elizabeth Marina



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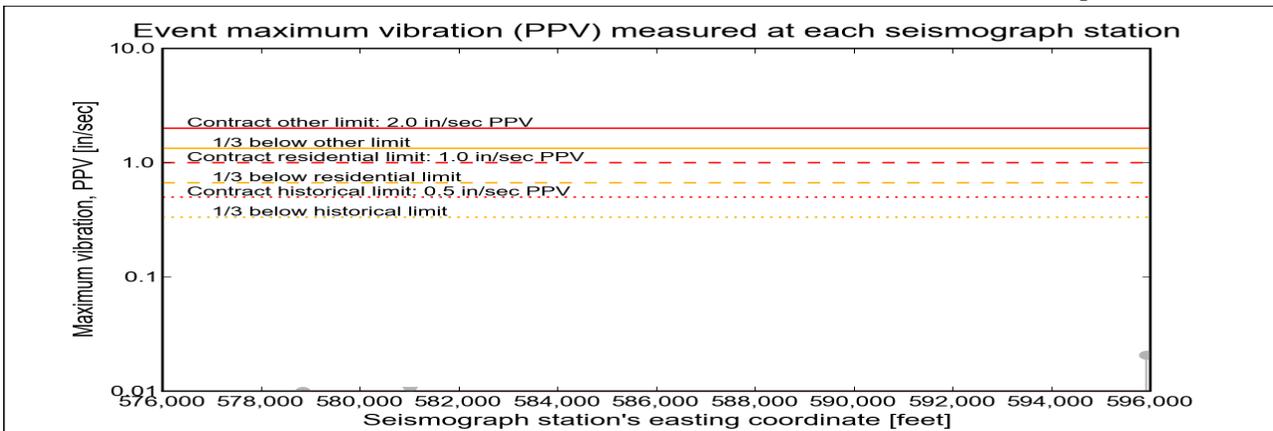
Click station for more information about the station.



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Date of reading: Wed 19-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
Elizabeth Marina - e4s010	Wed 19-Jun-2013	11:32:32	0.01	Ambient
NYCT - e4s008	Wed 19-Jun-2013	23:37:46	0.005	Ambient
Bayonne - e4s011	Wed 19-Jun-2013	22:30:32	0.0206	Ambient



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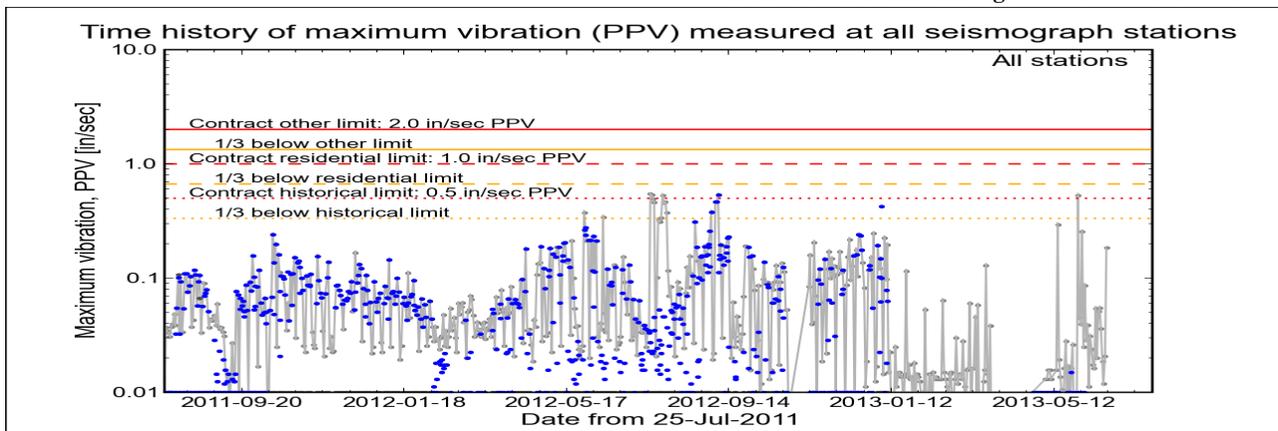
Click station for station information or click channel for event summary.



Latest Event Summary

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Date and time of last reading: Thu 20-Jun-2013 21:29:21



(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 20-Jun-2013	21:29:21	0.1850	Bayonne
Ambient	Wed 19-Jun-2013	22:30:32	0.0206	Bayonne
Ambient	Tue 18-Jun-2013	15:46:46	0.0119	Bayonne
Ambient	Mon 17-Jun-2013	00:01:47	0.0187	Bayonne
Ambient	Sun 16-Jun-2013	01:55:08	0.0362	Bayonne
Ambient	Sat 15-Jun-2013	18:01:44	0.0550	Bavonne



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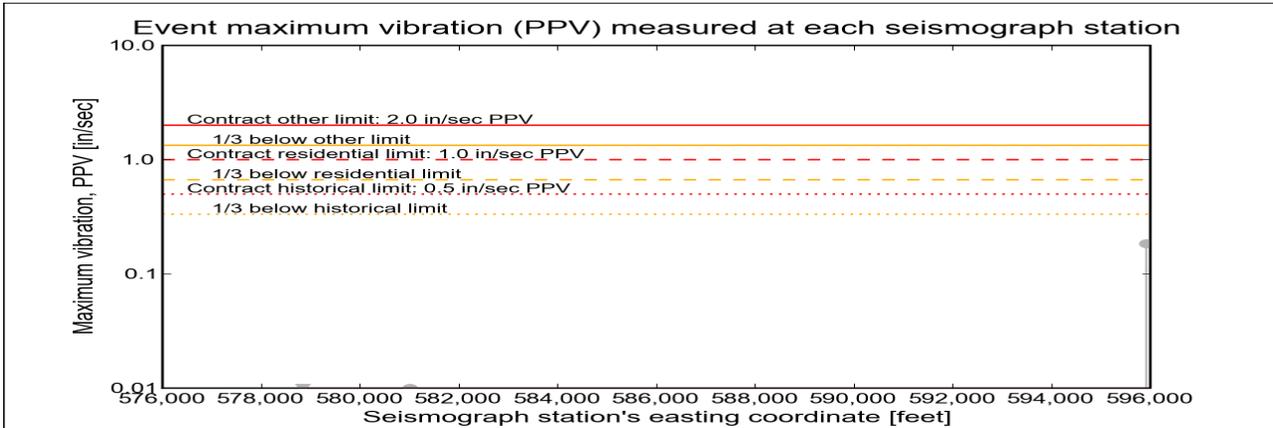
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Date of reading: Thu 20-Jun-2013



(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
Elizabeth Marina - e4s010	Thu 20-Jun-2013	00:02:33	0.00625	Ambient
NYCT - e4s008	Thu 20-Jun-2013	14:07:47	0.01	Ambient
Bayonne - e4s011	Thu 20-Jun-2013	21:29:21	0.185	Ambient



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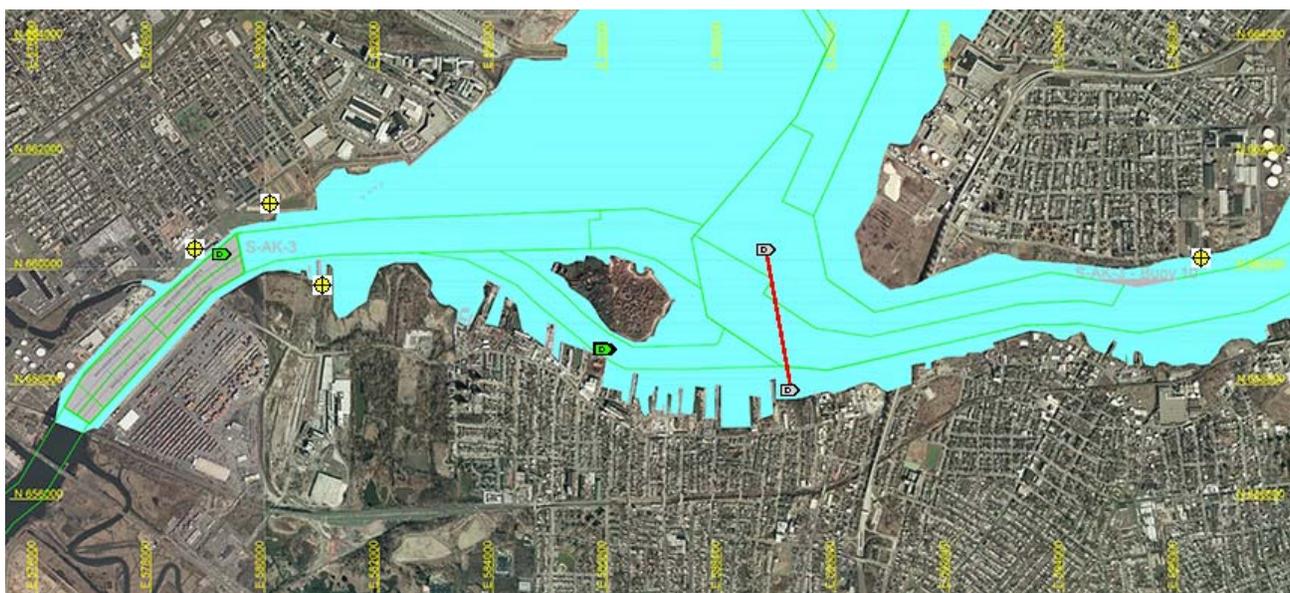
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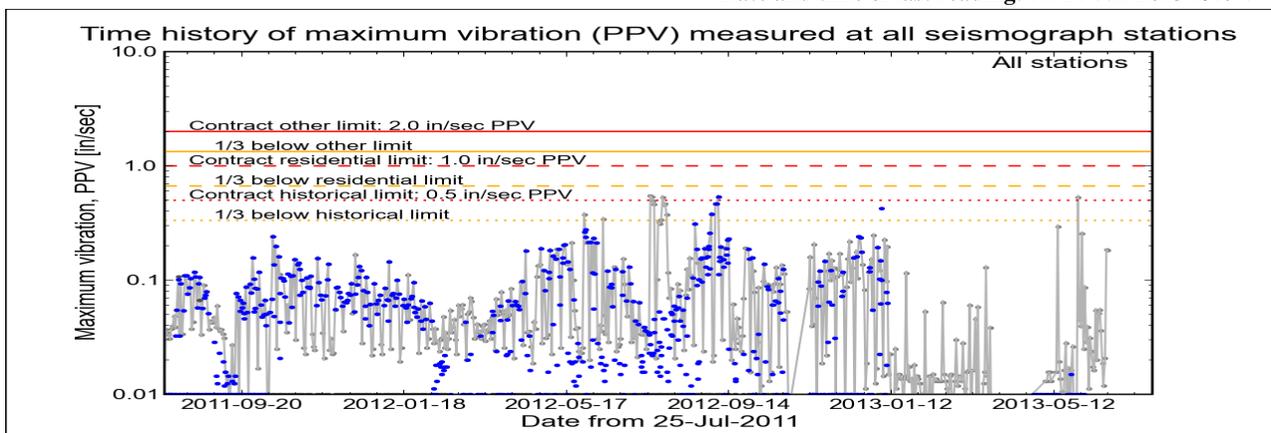
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Date and time of last reading: Fri 21-Jun-2013 19:01:44



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

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Blast ID	Date	Time	Max PPV (in / second)	Max PPV Station
Ambient	Fri 21-Jun-2013	19:01:44	0.1820	Bayonne
Ambient	Thu 20-Jun-2013	21:29:21	0.1850	Bayonne
Ambient	Wed 19-Jun-2013	22:30:32	0.0206	Bayonne
Ambient	Tue 18-Jun-2013	15:46:46	0.0119	Bayonne
Ambient	Mon 17-Jun-2013	00:01:47	0.0187	Bayonne
Ambient	Sun 16-Jun-2013	01:55:08	0.0362	Bavonne



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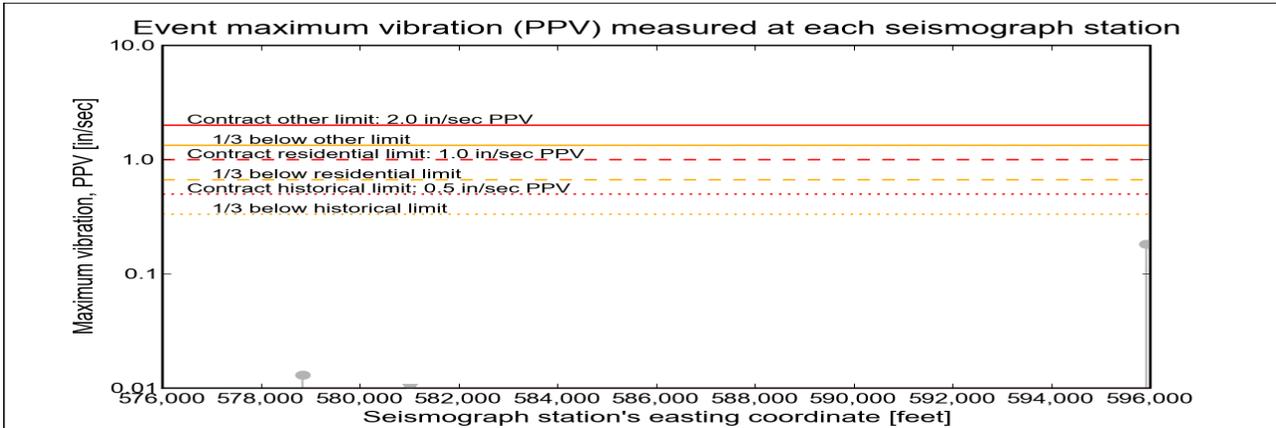
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Date of reading: Fri 21-Jun-2013



(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
Elizabeth Marina - e4s010	Fri 21-Jun-2013	22:17:34	0.0131	Ambient
NYCT - e4s008	Fri 21-Jun-2013	12:52:43	0.0075	Ambient
Bayonne - e4s011	Fri 21-Jun-2013	19:01:44	0.182	Ambient



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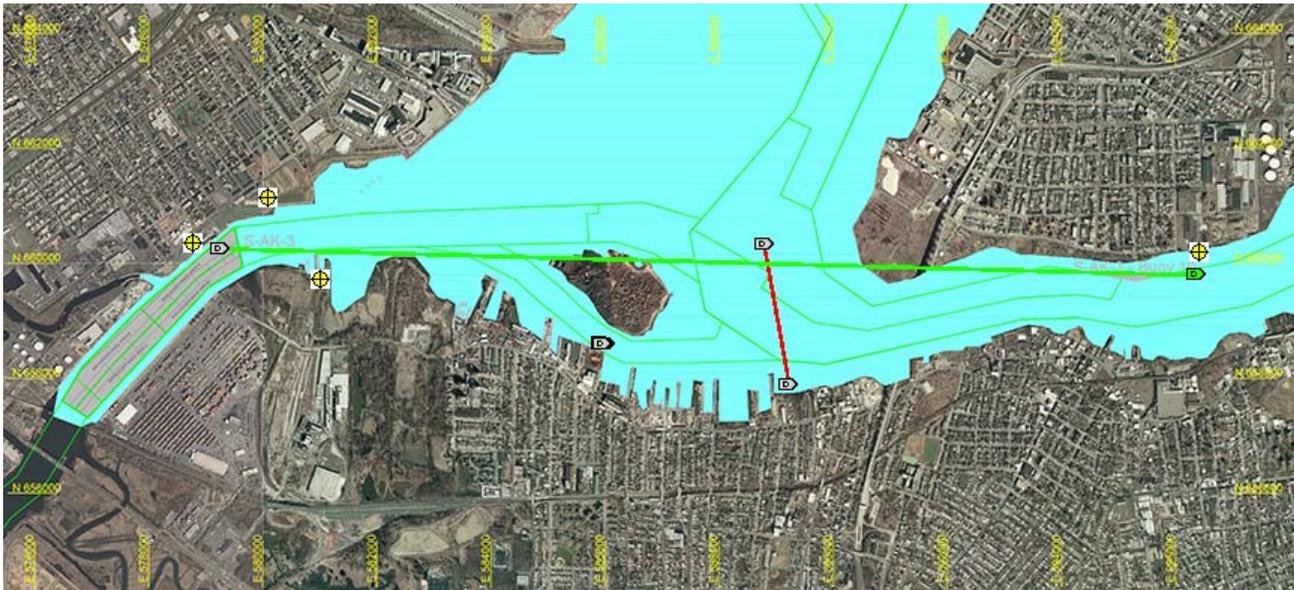
Arthur Kill Blast Vibration Summary

This site summarizes the measured ground vibrations in northwest Staten Island, from rock blasting in the Arthur Kill and other possible sources. The site is updated daily. The data are intended for the sole use of the US Army Corps of Engineers - New York District, for managing and monitoring the performance of NYNJ Harbor Deepening Project Contract in Arthur Kill starting 25 July 2011.

This page represents the most recent observations.

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

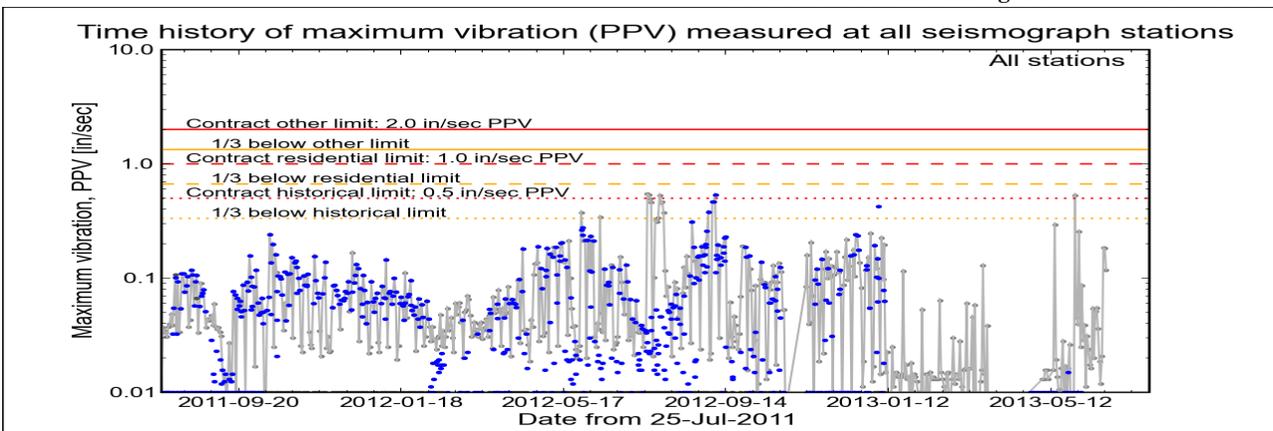
Click station for station information or click channel for event summary.



Latest Event Summary

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

Date and time of last reading: Sat 22-Jun-2013 12:56:30



(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	Sat 22-Jun-2013	12:56:30	0.1170	Elizabeth Marina
Ambient	Fri 21-Jun-2013	19:01:44	0.1820	Bayonne
Ambient	Thu 20-Jun-2013	21:29:21	0.1850	Bayonne
Ambient	Wed 19-Jun-2013	22:30:32	0.0206	Bayonne
Ambient	Tue 18-Jun-2013	15:46:46	0.0119	Bayonne
Ambient	Mon 17-Jun-2013	00:01:47	0.0187	Bavonne



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Arthur Kill Blasting Event Summary

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

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

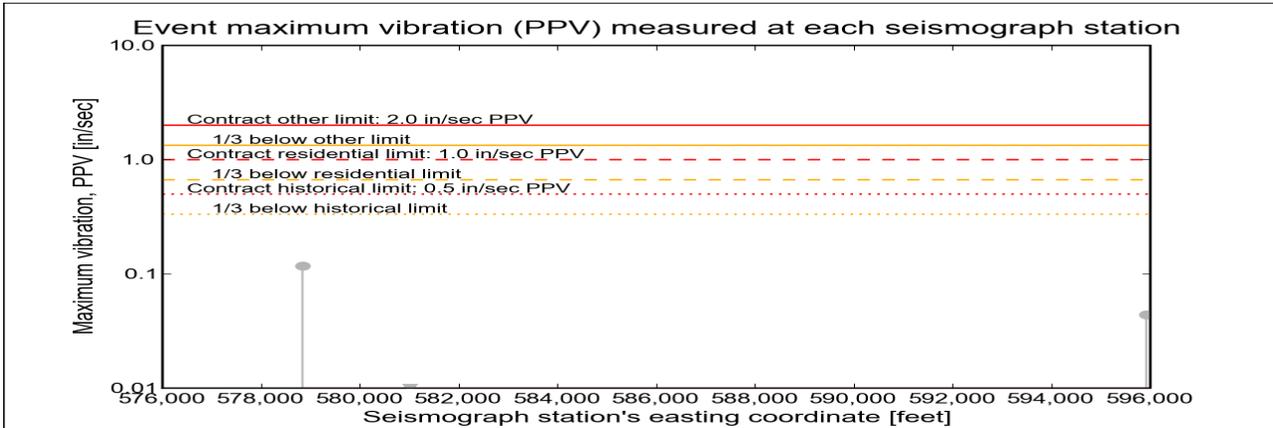
Click station for more information about the station.



Selected Event Summary

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

Date of reading: Sat 22-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
Elizabeth Marina - e4s010	Sat 22-Jun-2013	12:56:30	0.117	Ambient
NYCT - e4s008	Sat 22-Jun-2013	19:52:44	0.00687	Ambient
Bayonne - e4s011	Sat 22-Jun-2013	01:05:46	0.0437	Ambient



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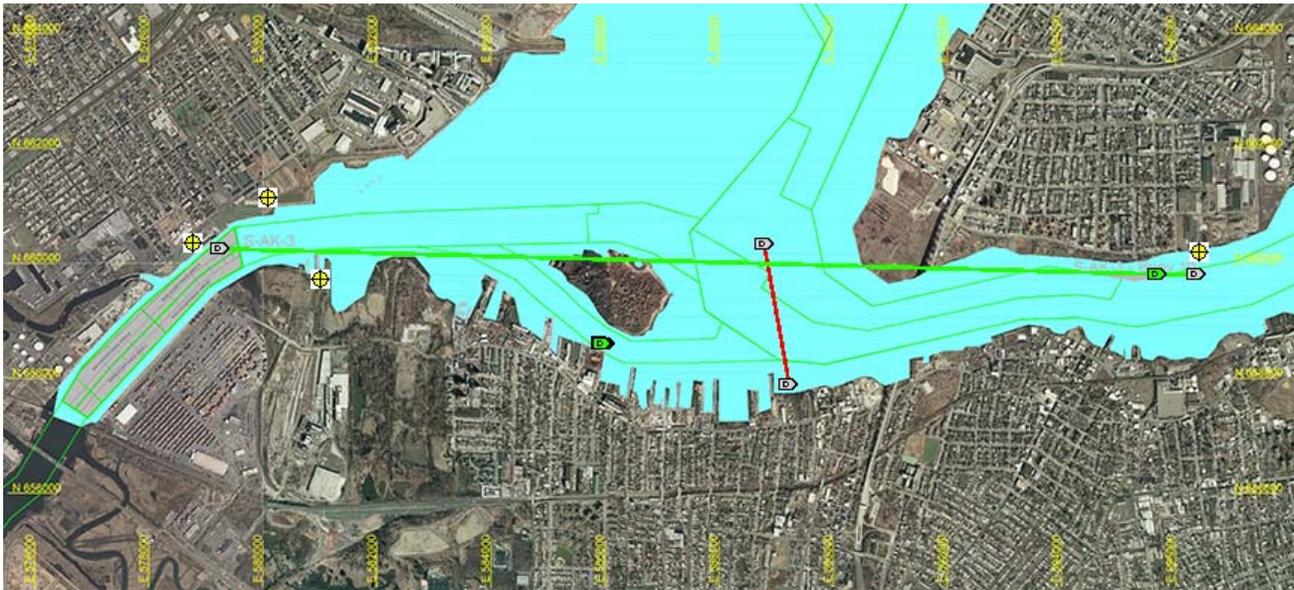
Arthur Kill Blast Vibration Summary

This site summarizes the measured ground vibrations in northwest Staten Island, from rock blasting in the Arthur Kill and other possible sources. The site is updated daily. The data are intended for the sole use of the US Army Corps of Engineers - New York District, for managing and monitoring the performance of NYNJ Harbor Deepening Project Contract in Arthur Kill starting 25 July 2011.

This page represents the most recent observations.

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

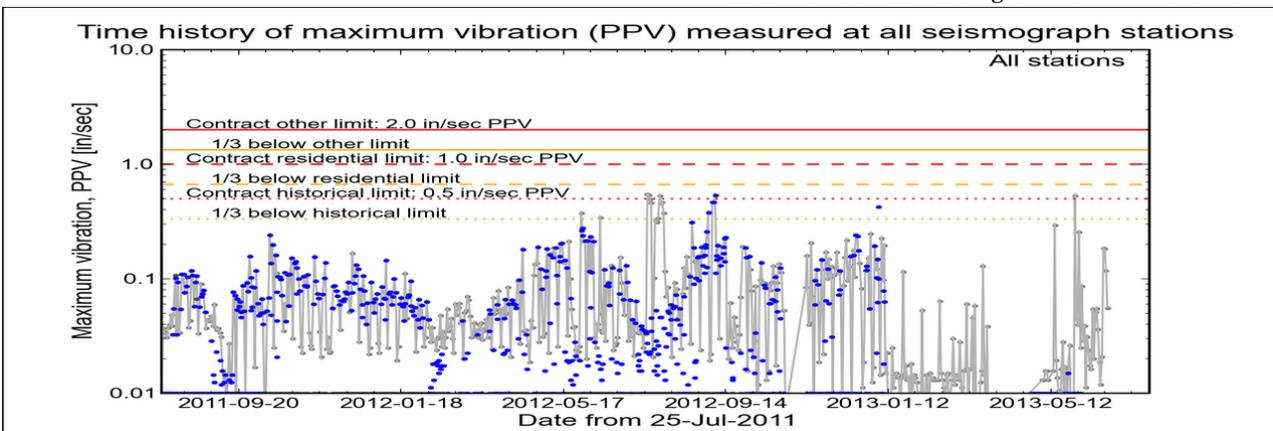
Click station for station information or click channel for event summary.



Latest Event Summary

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

Date and time of last reading: Sun 23-Jun-2013 01:46:44



(Click on graph or here for larger view)

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

Blast ID	Date	Time	Max PPV (in / second)	Max PPV Station
Ambient	Sun 23-Jun-2013	01:46:44	0.0556	Bayonne
Ambient	Sat 22-Jun-2013	12:56:30	0.1170	Elizabeth Marina
Ambient	Fri 21-Jun-2013	19:01:44	0.1820	Bayonne
Ambient	Thu 20-Jun-2013	21:29:21	0.1850	Bayonne
Ambient	Wed 19-Jun-2013	22:30:32	0.0206	Bayonne
Ambient	Tue 18-Jun-2013	15:46:46	0.0119	Bavonne



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Arthur Kill Blasting Event Summary

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

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

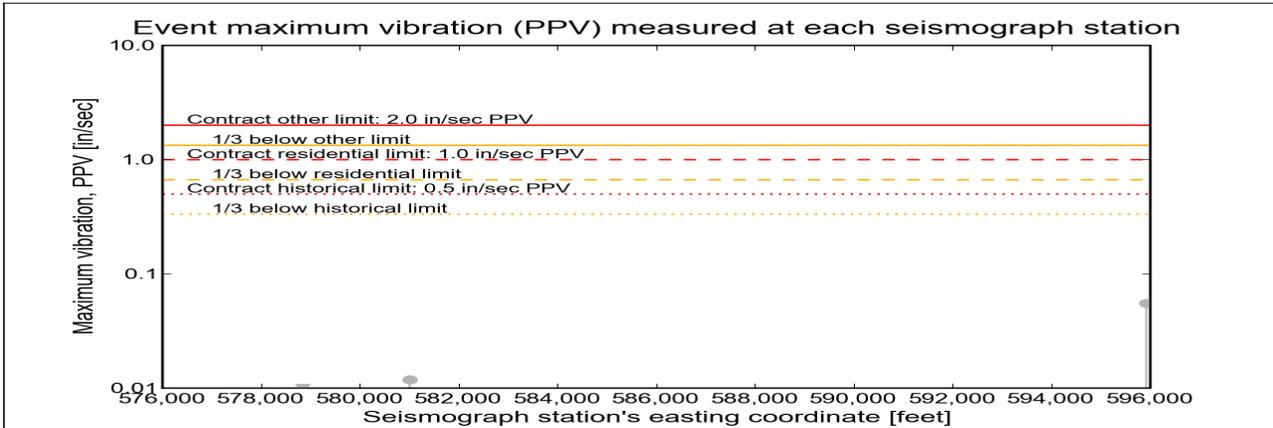
Click station for more information about the station.



Selected Event Summary

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

Date of reading: Sun 23-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
Elizabeth Marina - e4s010	Sun 23-Jun-2013	23:02:33	0.00687	Ambient
NYCT - e4s008	Sun 23-Jun-2013	15:22:45	0.0119	Ambient
Bayonne - e4s011	Sun 23-Jun-2013	01:46:44	0.0556	Ambient