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 10 – June 16, 2013

The following pages display the results from the USACE-NYD real-time website for the week of Monday, June 03, through Sunday, June 09, 2013.

There were no blasts this week.

We recorded background vibrations in the S-AK-3 and Bayonne project areas. The maximum vibration recorded was 0.055 in/s recorded at Bayonne on June 15.

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 was docked all 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:

June 10
June 11
June 12
June 13
June 14
June 15
June 16

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 0.052 in/s. Ambient vibrations at Bayonne were all below 0.056 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.

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Dredge Position Summary

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

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

Click on a station for station information.

Todays Dredge Position
Latest Week's Dredge Position Summary
Project History List

The table below lists the date, name, easting, northing, and notes for the week's dredge positions. The position is the last reported dredge position of the day.

Dredge Location Table

Date	Dredge Name	Easting	Northing	Notes
2013-06-16 Sun	Capt AJ Fournier	585725	658665	
2013-06-16 Sun	Drillboat Apache	588947	657948	
2013-06-15 Sat	Capt AJ Fournier	585725	658628	
2013-06-15 Sat	Drillboat Apache	588891	657948	
2013-06-14 Fri	Drillboat Apache	588947	657948	
2013-06-13 Thu	Capt AJ Fournier	585753	658665	
2013-06-13 Thu	Drillboat Apache	588947	657948	
2013-06-12 Wed				No Activity
2013-06-11 Tue				No Activity
2013-06-10 Mon				No Activity

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Arthur Kill Blast Vibration Summary

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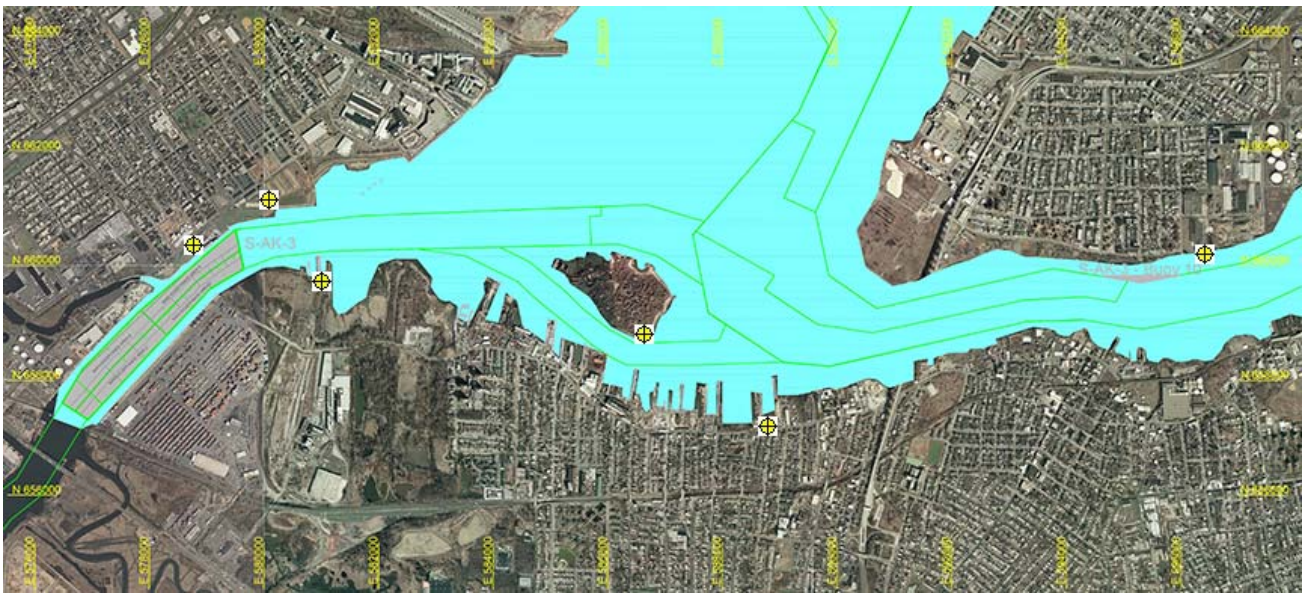
This page represents the most recent observations.

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

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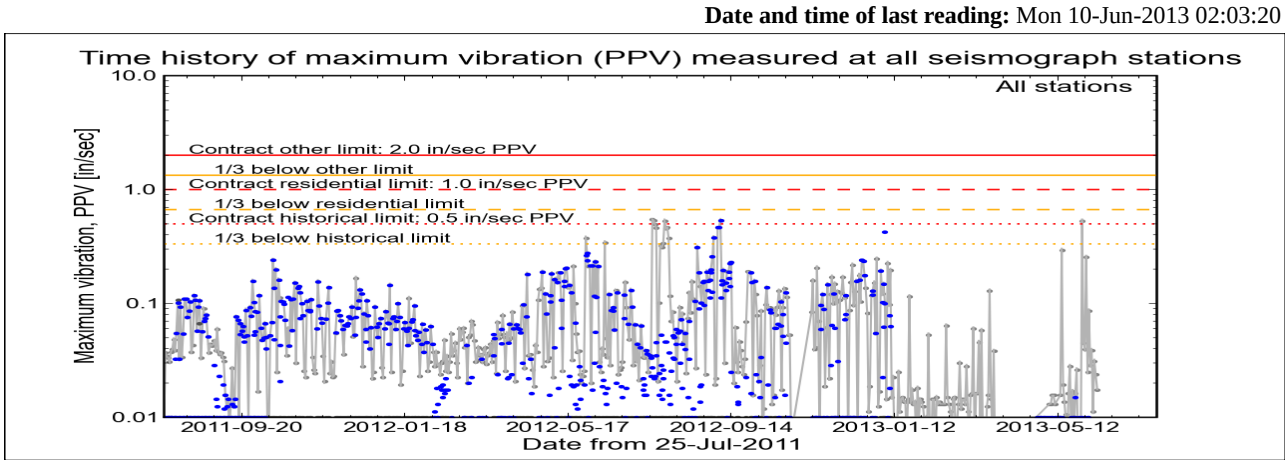
Date and time of last reading: Mon 10-Jun-2013 02:03:20



(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 10-Jun-2013	02:03:20	0.0175	Bayonne
Ambient	Sun 09-Jun-2013	15:31:46	0.0237	Bayonne
Ambient	Sat 08-Jun-2013	20:33:44	0.0312	Bayonne
Ambient	Fri 07-Jun-2013	01:04:41	0.0112	Bayonne
Ambient	Thu 06-Jun-2013	15:27:54	0.0387	Bayonne
Ambient	Wed 05-Jun-2013	23:01:46	0.0287	Bayonne

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Arthur Kill Blasting Event Summary

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

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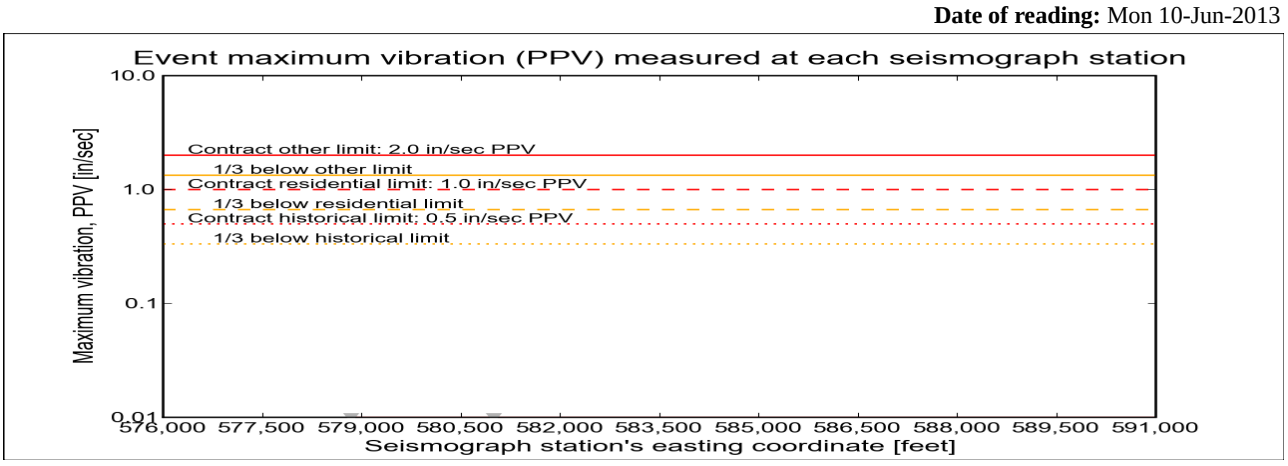
Date of reading: Mon 10-Jun-2013



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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	Mon 10-Jun-2013	00:02:33	0.00875	Ambient
NYCT - e4s008	Mon 10-Jun-2013	10:37:45	0.00625	Ambient
Bayonne - e4s011	Mon 10-Jun-2013	02:03:20	0.0175	Ambient

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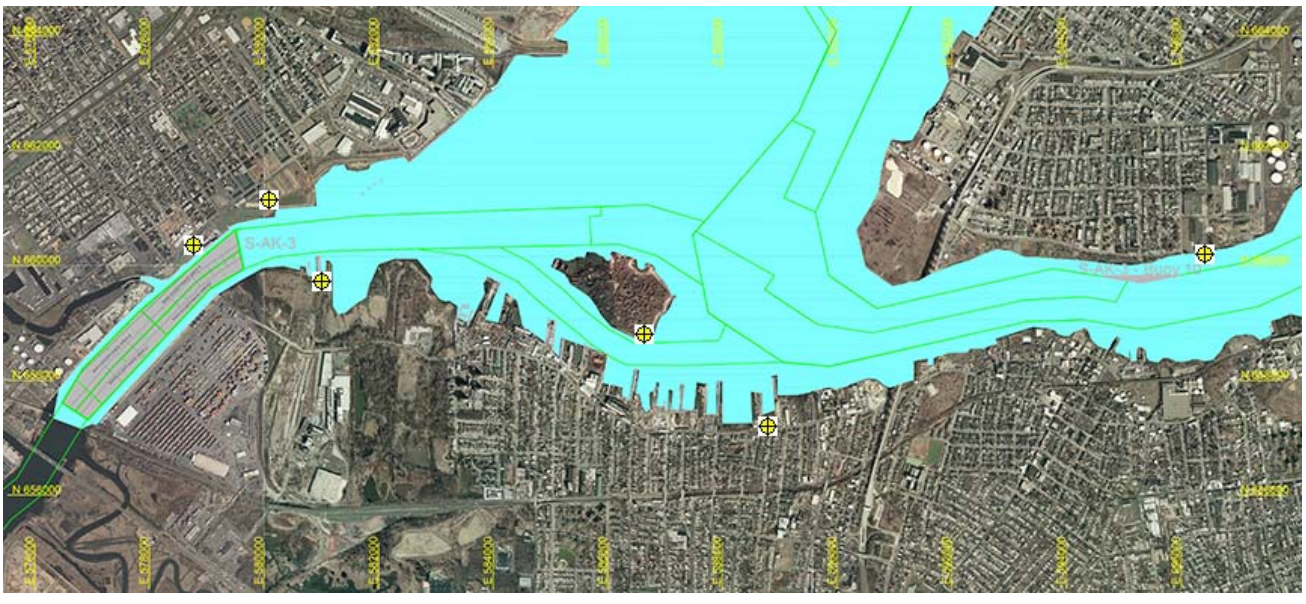

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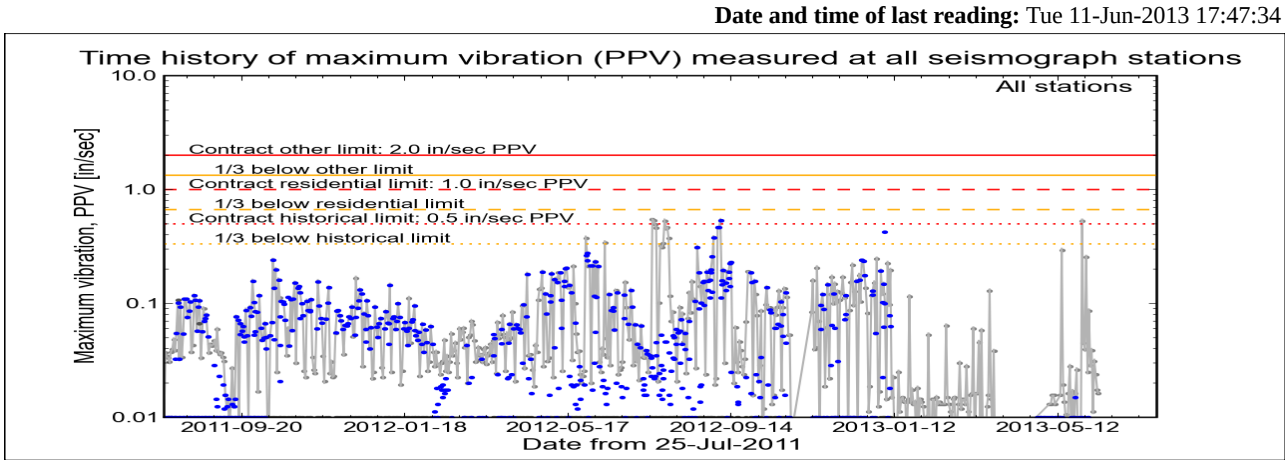
Date and time of last reading: Tue 11-Jun-2013 17:47:34



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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 11-Jun-2013	17:47:34	0.0162	Elizabeth Marina
Ambient	Mon 10-Jun-2013	02:03:20	0.0175	Bayonne
Ambient	Sun 09-Jun-2013	15:31:46	0.0237	Bayonne
Ambient	Sat 08-Jun-2013	20:33:44	0.0312	Bayonne
Ambient	Fri 07-Jun-2013	01:04:41	0.0112	Bayonne
Ambient	Thu 06-Jun-2013	15:27:54	0.0387	Bayonne

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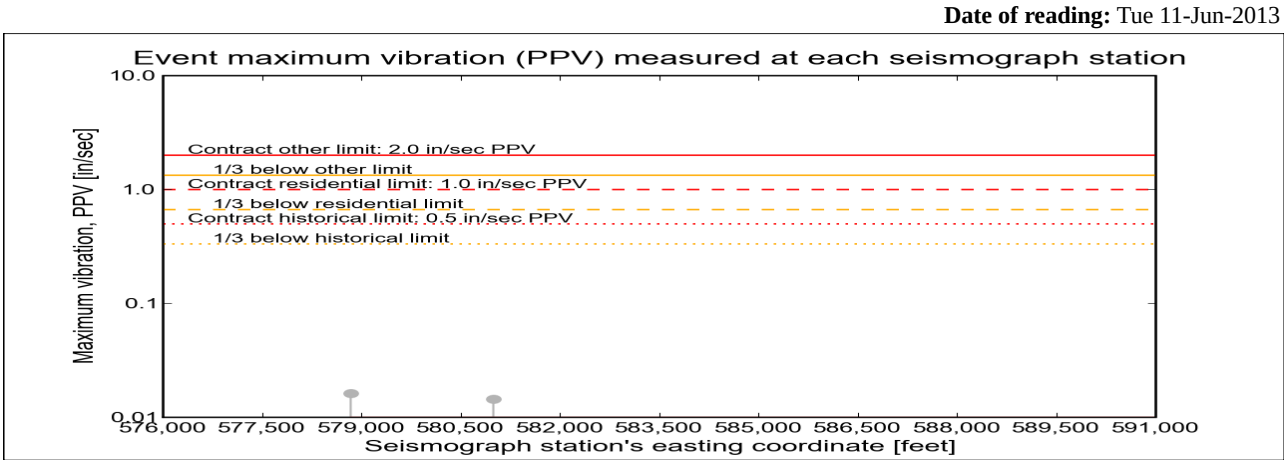
Date of reading: Tue 11-Jun-2013



(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 11-Jun-2013	17:47:34	0.0162	Ambient
NYCT - e4s008	Tue 11-Jun-2013	23:22:45	0.0144	Ambient
Bayonne - e4s011	Tue 11-Jun-2013	16:17:26	0.0131	Ambient

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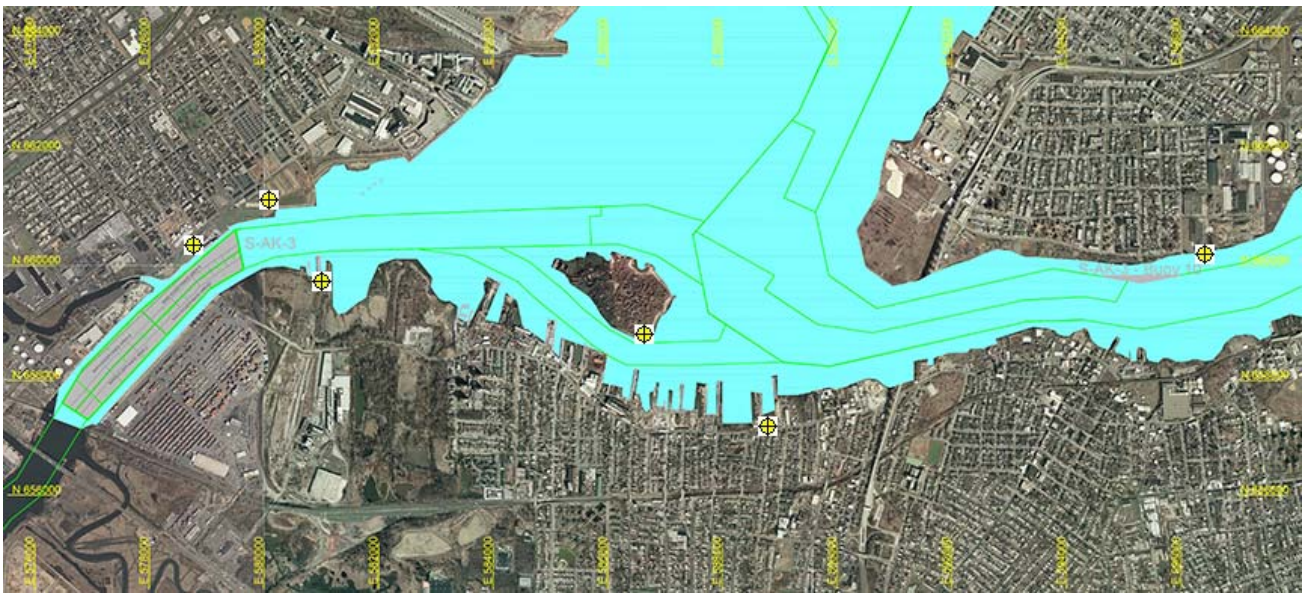

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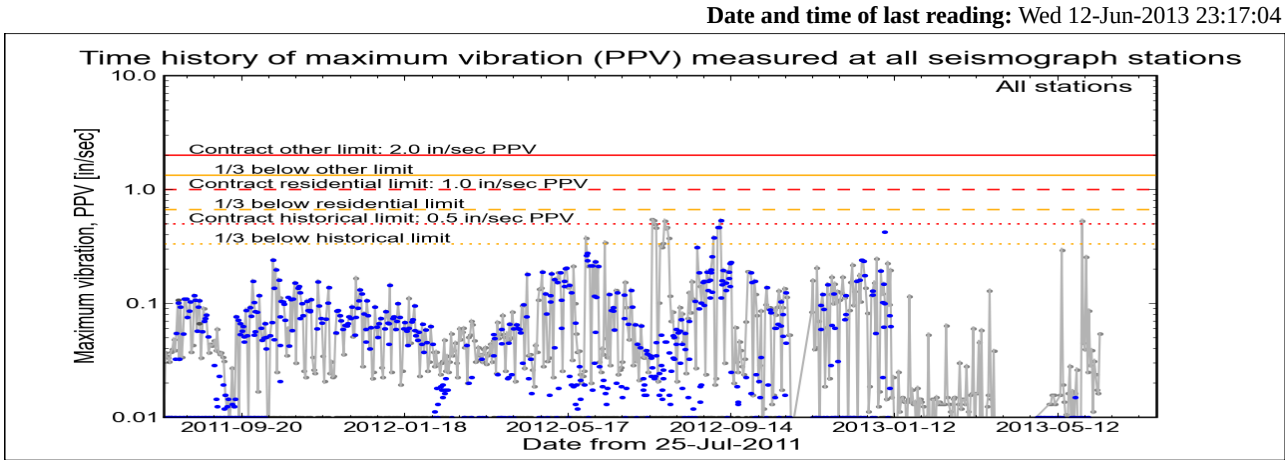
Date and time of last reading: Wed 12-Jun-2013 23:17:04



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Ambient	Sun 09-Jun-2013	15:31:46	0.0237	Bayonne
Ambient	Sat 08-Jun-2013	20:33:44	0.0312	Bayonne
Ambient	Fri 07-Jun-2013	01:04:41	0.0112	Bayonne

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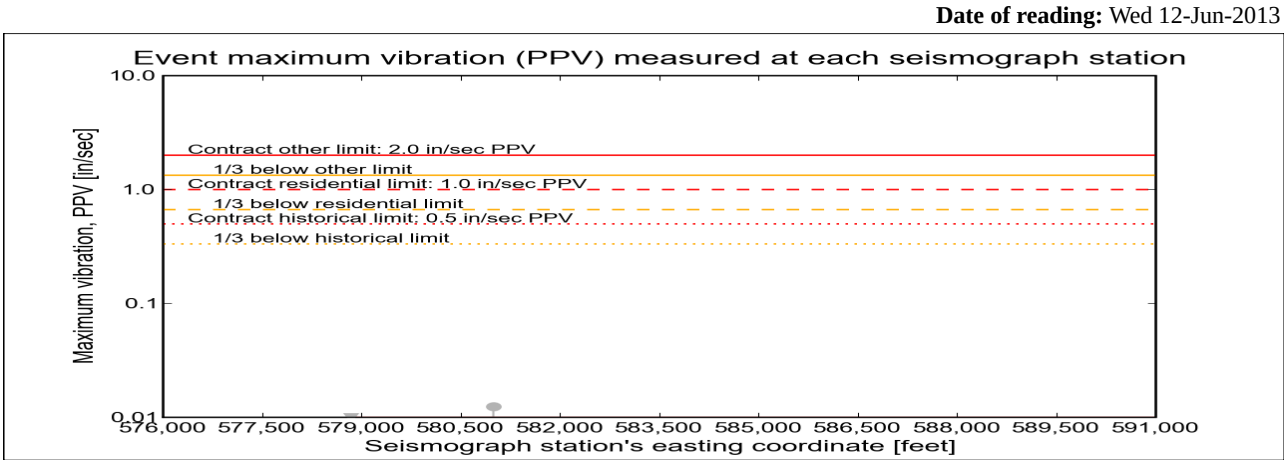

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Station	Date	Time	Max PPV (in / second)	Vibration Type
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NYCT - e4s008	Wed 12-Jun-2013	23:22:45	0.0125	Ambient
Bayonne - e4s011	Wed 12-Jun-2013	23:17:04	0.0544	Ambient

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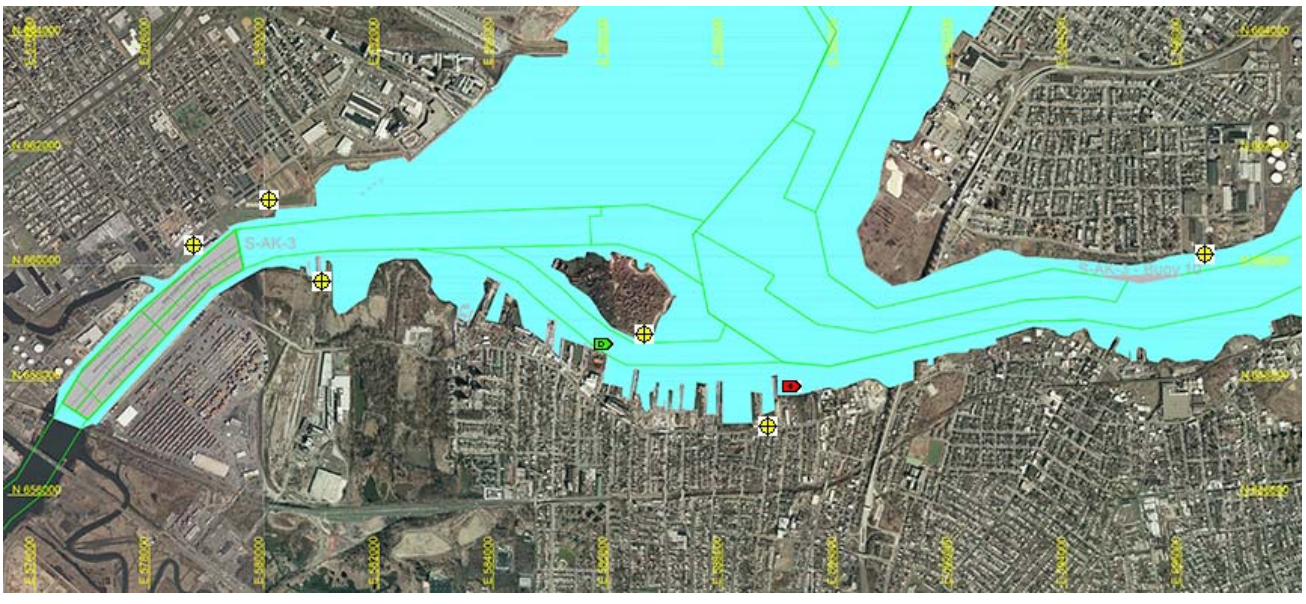

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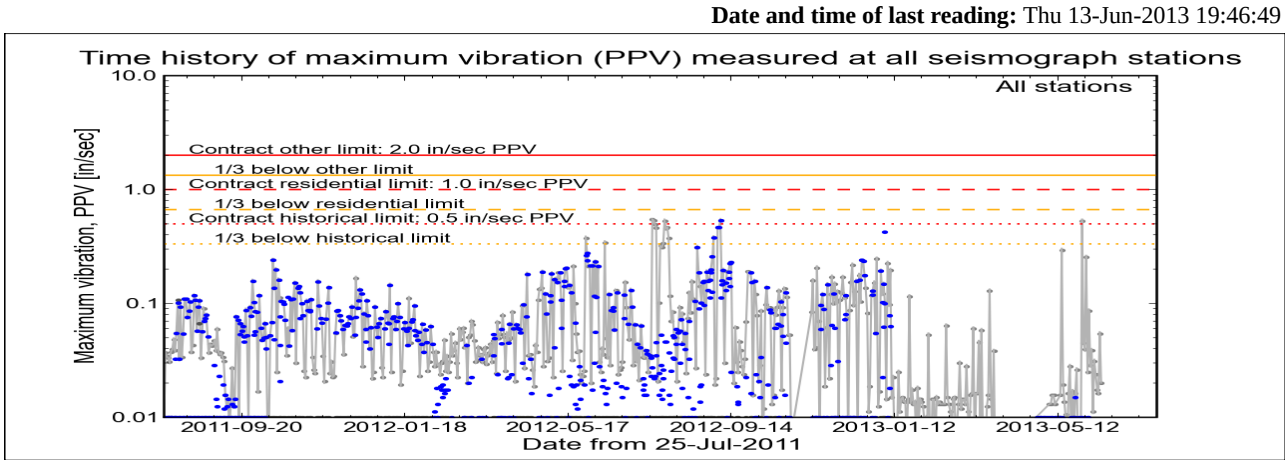
Date and time of last reading: Thu 13-Jun-2013 19:46:49



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Ambient	Tue 11-Jun-2013	17:47:34	0.0162	Elizabeth Marina
Ambient	Mon 10-Jun-2013	02:03:20	0.0175	Bayonne
Ambient	Sun 09-Jun-2013	15:31:46	0.0237	Bayonne
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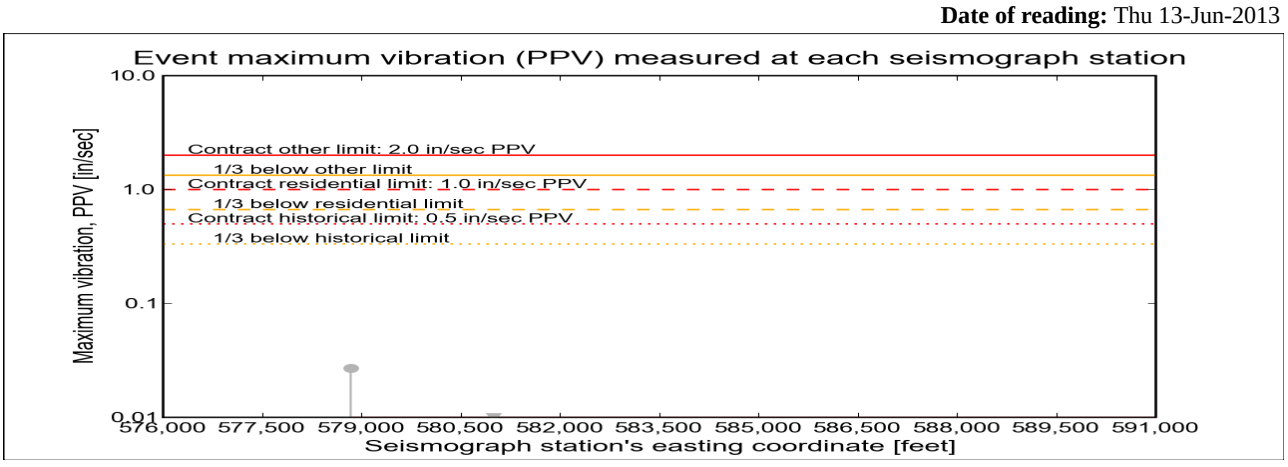

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Bayonne - e4s011	Thu 13-Jun-2013	19:46:49	0.02	Ambient

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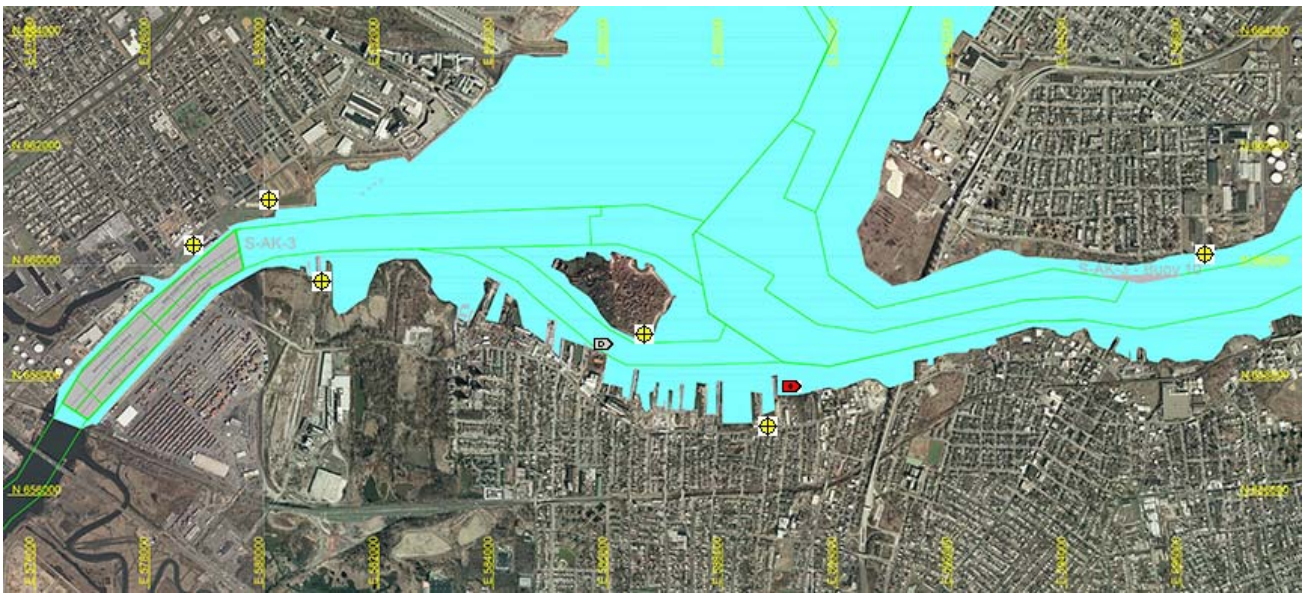

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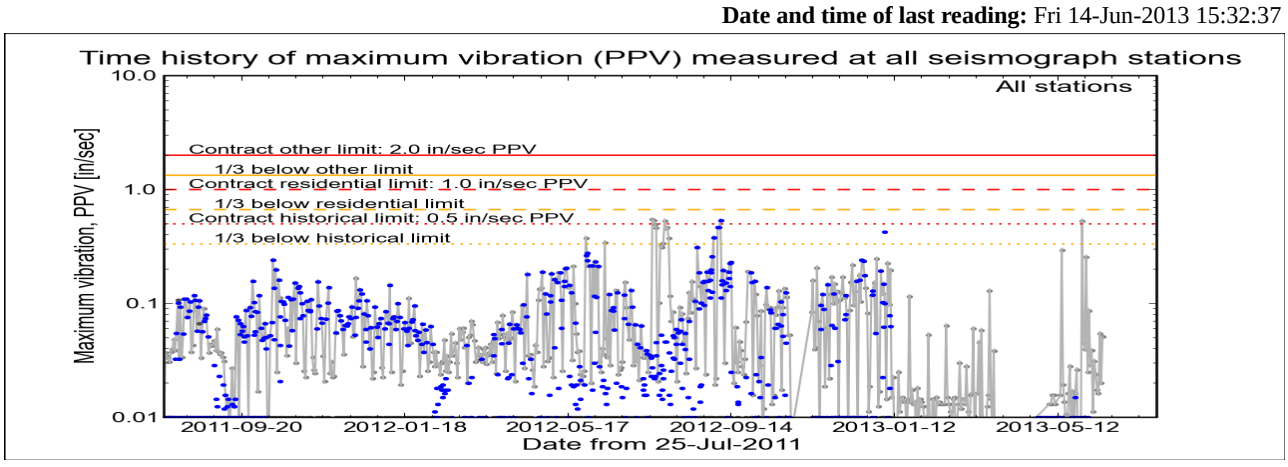
Date and time of last reading: Fri 14-Jun-2013 15:32:37



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Ambient	Tue 11-Jun-2013	17:47:34	0.0162	Elizabeth Marina
Ambient	Mon 10-Jun-2013	02:03:20	0.0175	Bayonne
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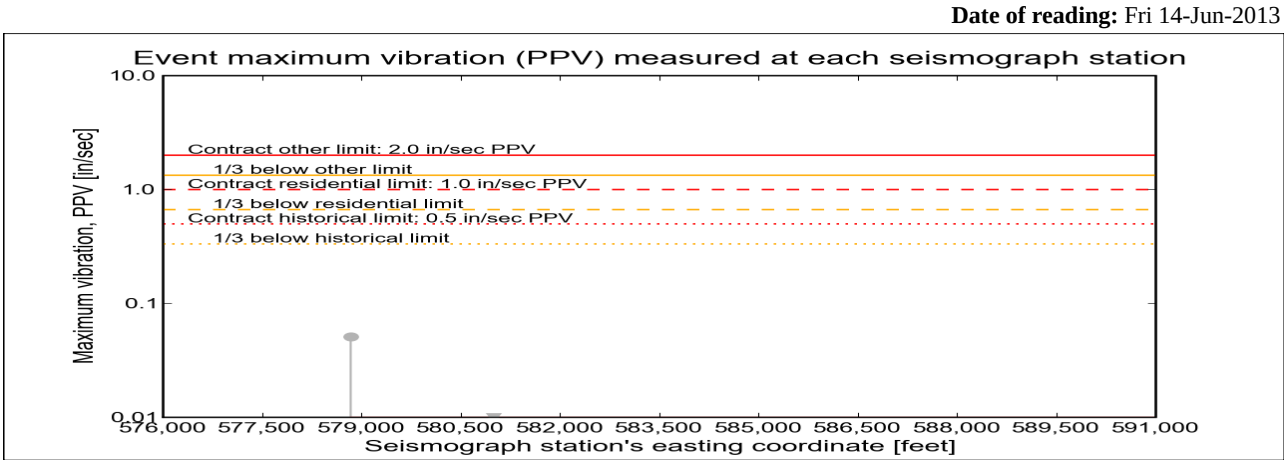
Date of reading: Fri 14-Jun-2013



(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 14-Jun-2013	15:32:37	0.0512	Ambient
NYCT - e4s008	Fri 14-Jun-2013	23:37:48	0.00937	Ambient
Bayonne - e4s011	Fri 14-Jun-2013	23:01:46	0.0112	Ambient

US Army Corps of Engineers®
New York District

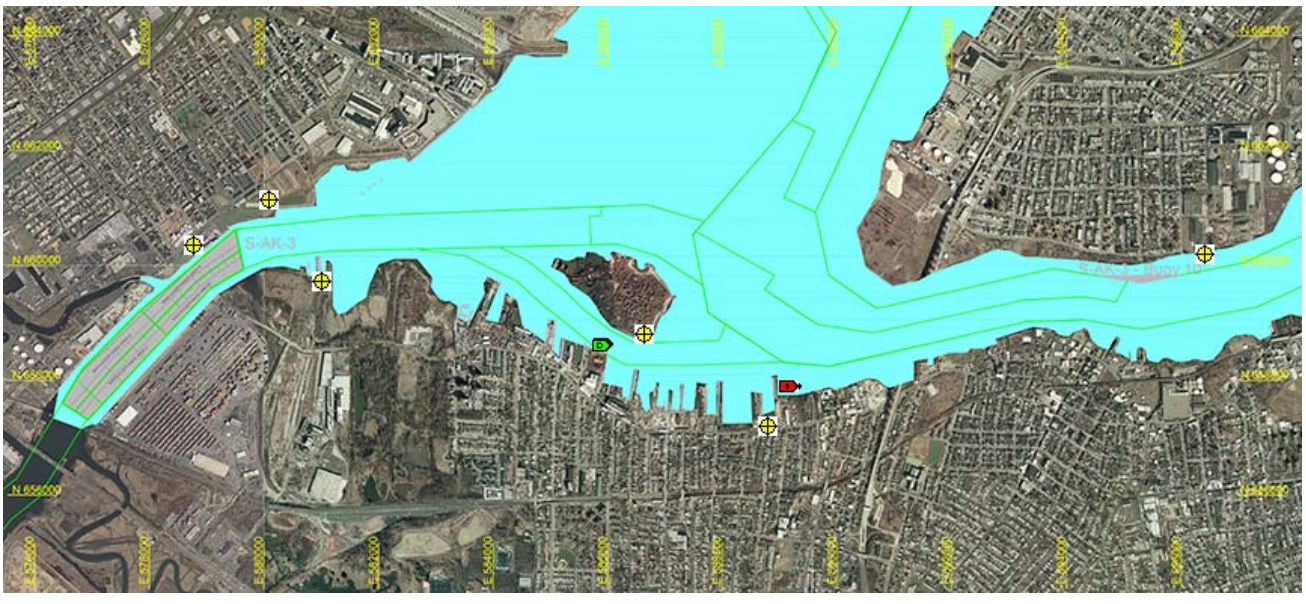
Arthur Kill Blast Vibration Summary

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.

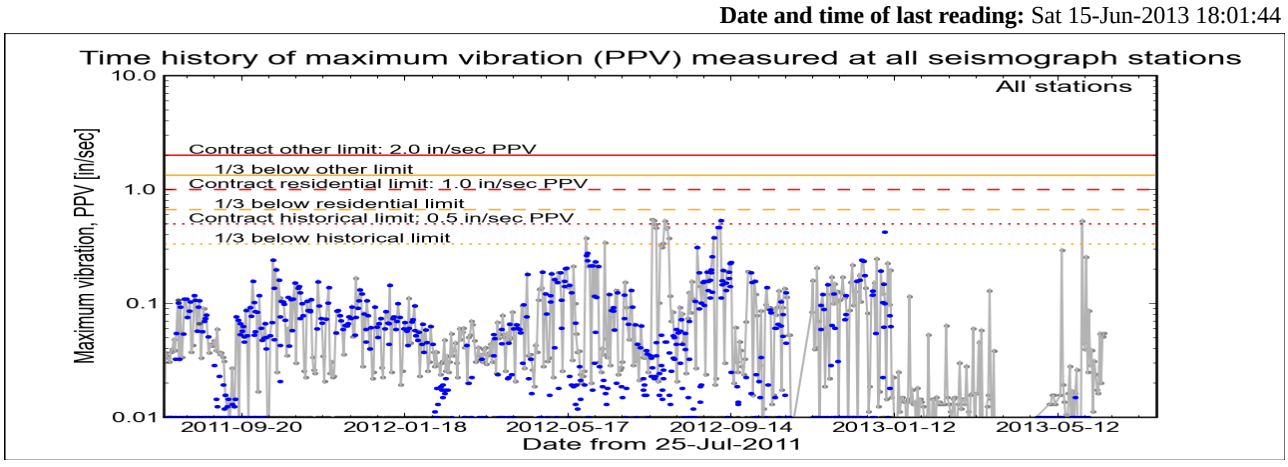
Click station for station information or click channel for event summary.



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 15-Jun-2013 18:01:44



(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	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	Bayonne
Ambient	Tue 11-Jun-2013	17:47:34	0.0162	Elizabeth Marina
Ambient	Mon 10-Jun-2013	02:03:20	0.0175	Bayonne

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New York District

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.

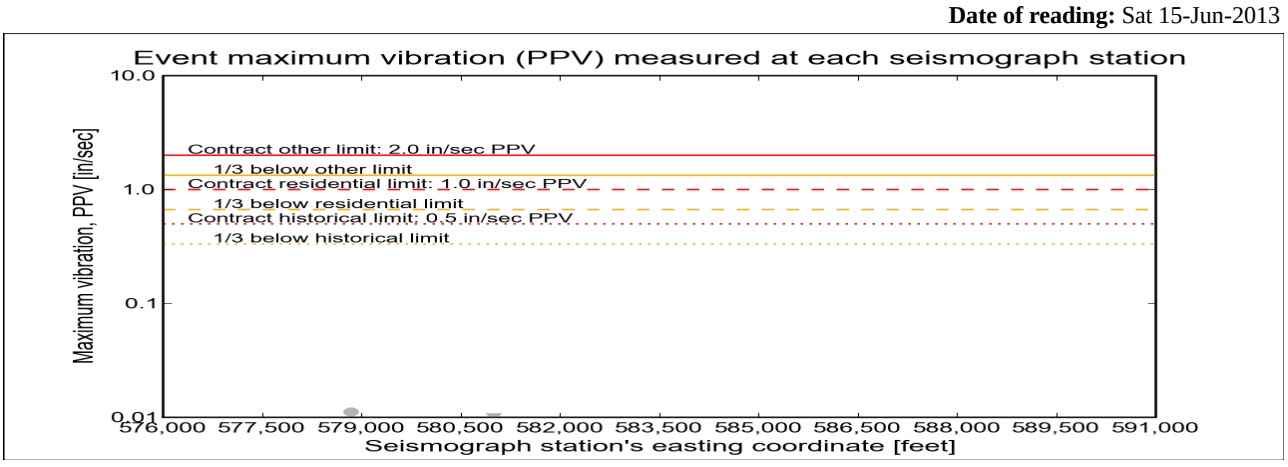
The Arthur Kill contract area is mapped below with a top-of-rock map. Today's dredge locations are marked by colored symbols, connected by colored lines to this week's past locations marked by gray symbols. The drilling and blasting barge location is marked in red. The easting and northing map coordinates 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 15-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 15-Jun-2013	18:02:33	0.0112	Ambient
NYCT - e4s008	Sat 15-Jun-2013	15:22:47	0.005	Ambient
Bayonne - e4s011	Sat 15-Jun-2013	18:01:44	0.055	Ambient

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Arthur Kill Blast Vibration Summary

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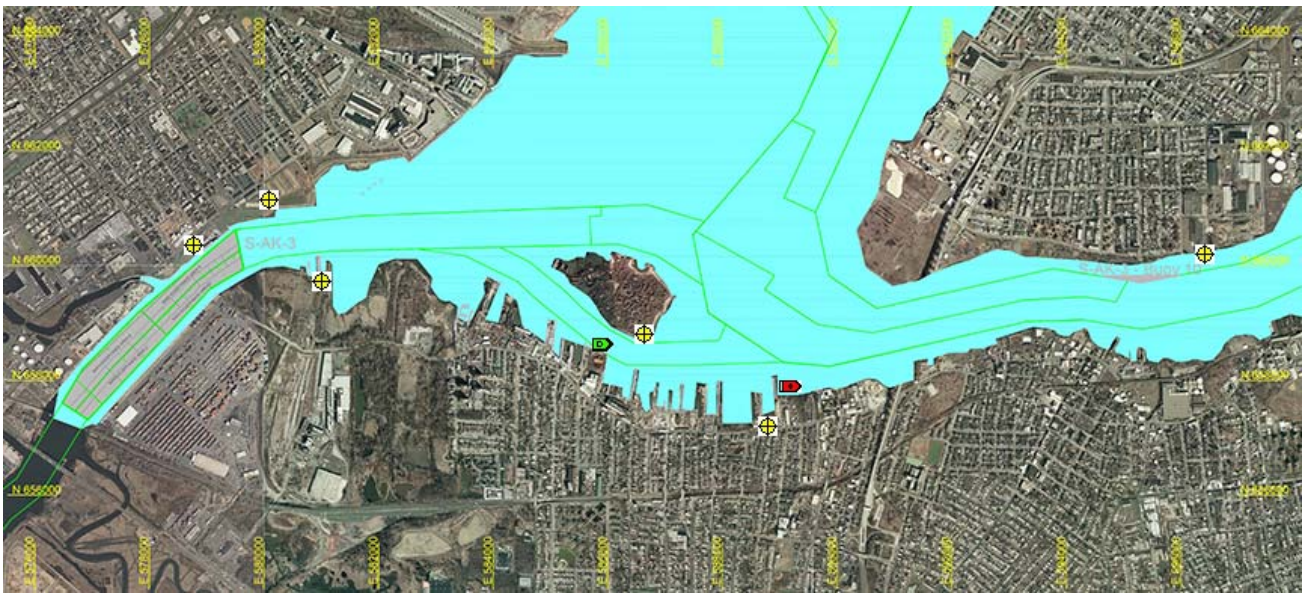
This page represents the most recent observations.

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.

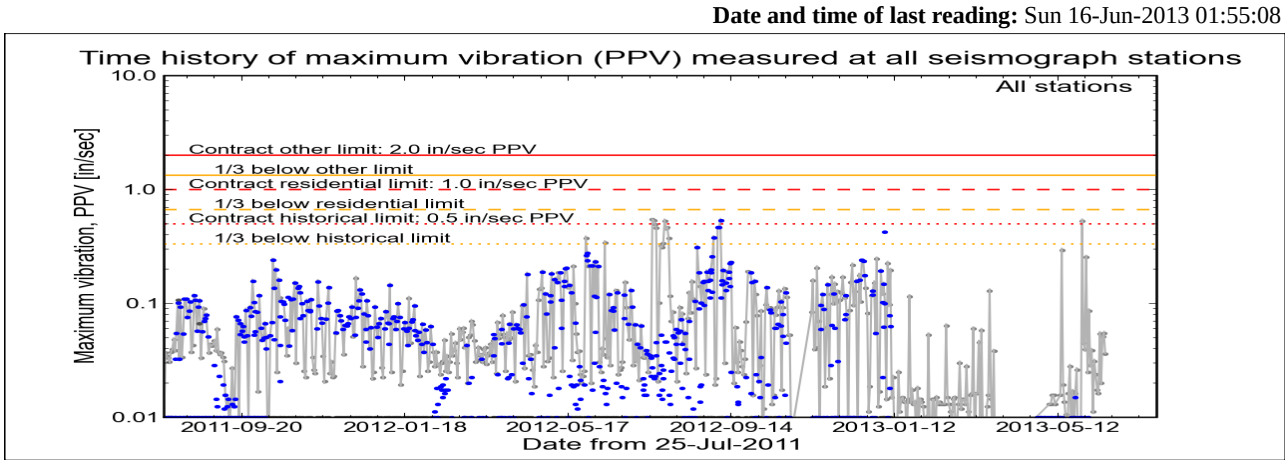
Click station for station information or click channel for event summary.



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: Sun 16-Jun-2013 01:55:08



(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 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	Bayonne
Ambient	Tue 11-Jun-2013	17:47:34	0.0162	Elizabeth Marina

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New York District

Arthur Kill Blasting Event Summary

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

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

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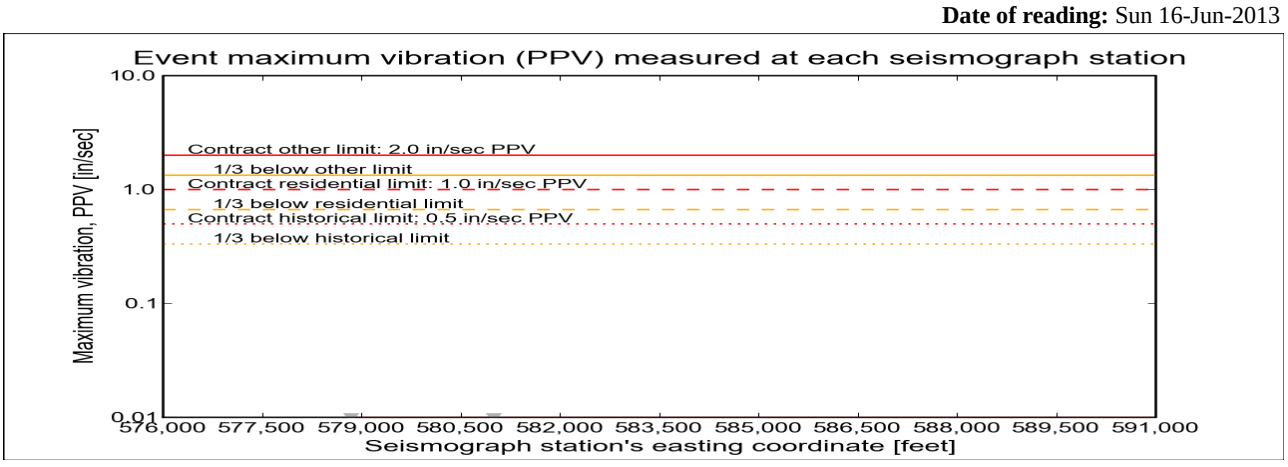
Selected Event Summary

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 16-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 16-Jun-2013	23:02:32	0.00687	Ambient
NYCT - e4s008	Sun 16-Jun-2013	03:38:29	0.00562	Ambient
Bayonne - e4s011	Sun 16-Jun-2013	01:55:08	0.0362	Ambient

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