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 February 03 – February 09, 2014

The following pages display the results from the USACE-NYD real-time website for the week of Monday, February 03, through Sunday, February 09, 2014.

There were 7 blasts this week in the S-AK-3 project area.

Station e4s-010 (Elizabeth Marina) was down for maintenance this week.

We recorded vibrations in the S-AK-3 project area. The maximum vibration recorded was 0.0162 in/s recorded at Elizabethport on February 03. 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 S-AK-3 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:

February 03
February 04
February 05
February 06
February 07
February 08
February 09

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 two active stations: New York Container Terminal (NYCT)and Elizabethport.

Ground vibrations at NYCT were all below 0.02 in/s. Ground vibrations at Elizabethport were all below 0.02 in/s. Blast vibration measurements were 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-197	2014-02-03 10:58	2,720 - 4,120	0.0162
AK-198	2014-02-04 10:30	2,870 - 4,270	0.0137
AK-199	2014-02-05 09:59	2,720 - 4,110	0.0119
AK-200	2014-02-06 09:09	2,880 - 4,270	0.0137
AK-201	2014-02-06 16:14	2,880 - 4,260	0.00875
AK-202	2014-02-07 15:35	3,000 - 4,410	0.0112
AK-203	2014-02-08 15:15	3,040 - 4,430	0.00937

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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
2014-02-09 Sun	Drillboat Apache	577298	657588	
2014-02-08 Sat	Drillboat Apache	577145	657726	
2014-02-07 Fri	Drillboat Apache	577084	657821	
2014-02-06 Thu	Drillboat Apache	577270	657821	
2014-02-05 Wed	Drillboat Apache	577358	657938	
2014-02-04 Tue	Drillboat Apache	577242	657865	
2014-02-03 Mon	Drillboat Apache	577305	658000	

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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.

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Latest Event Summary

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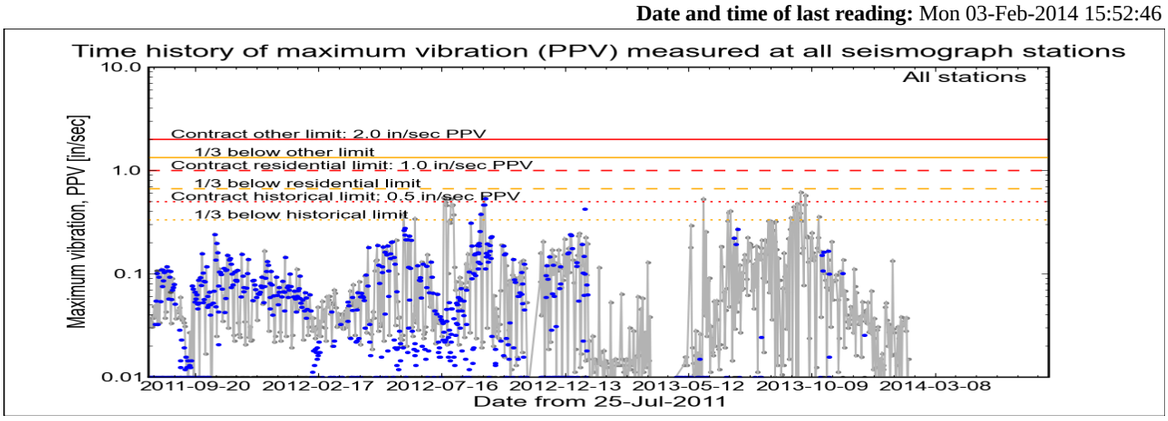
Date and time of last reading: Mon 03-Feb-2014 15:52:46



(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	Mon 03-Feb-2014	15:52:46	0.0150	NYCT
Ambient	Sun 02-Feb-2014	12:50:20	0.0056	Elizabeth Marina
Ambient	Sat 01-Feb-2014	14:02:36	0.0375	Elizabeth Marina
Ambient	Fri 31-Jan-2014	14:05:21	0.0281	Elizabeth Marina
Ambient	Thu 30-Jan-2014	14:05:20	0.0369	Elizabeth Marina
Ambient	Wed 29-Jan-2014	14:05:20	0.0319	Elizabeth Marina

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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.

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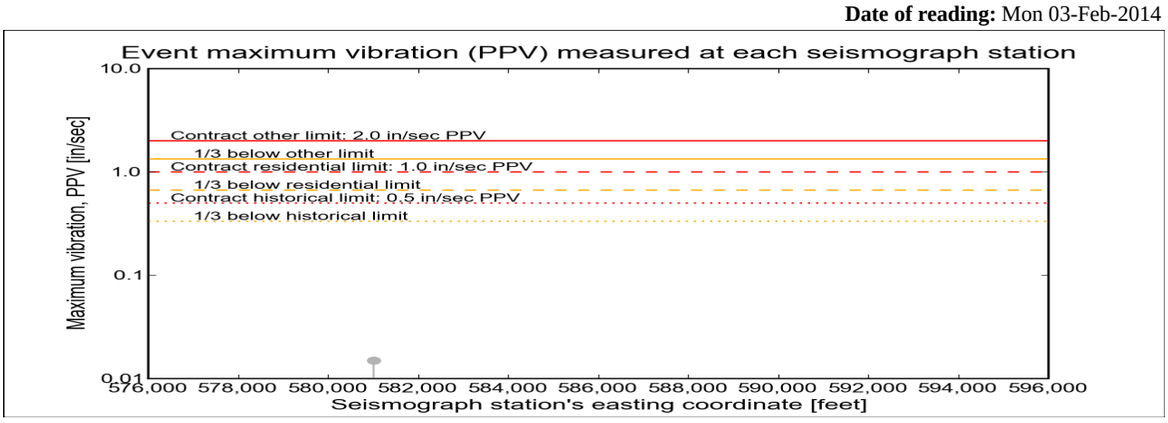
The graph below plots the maximum vibration during the selected event period (blast or ambient) recorded at each and every seismograph station along the easting positions. The vertical axis gives the maximum vibration in peak particle velocity (PPV) in units of inches per second (in/sec). If the maximum 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 03-Feb-2014



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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
NYCT - e4s008	Mon 03-Feb-2014	15:52:46	0.015	Ambient

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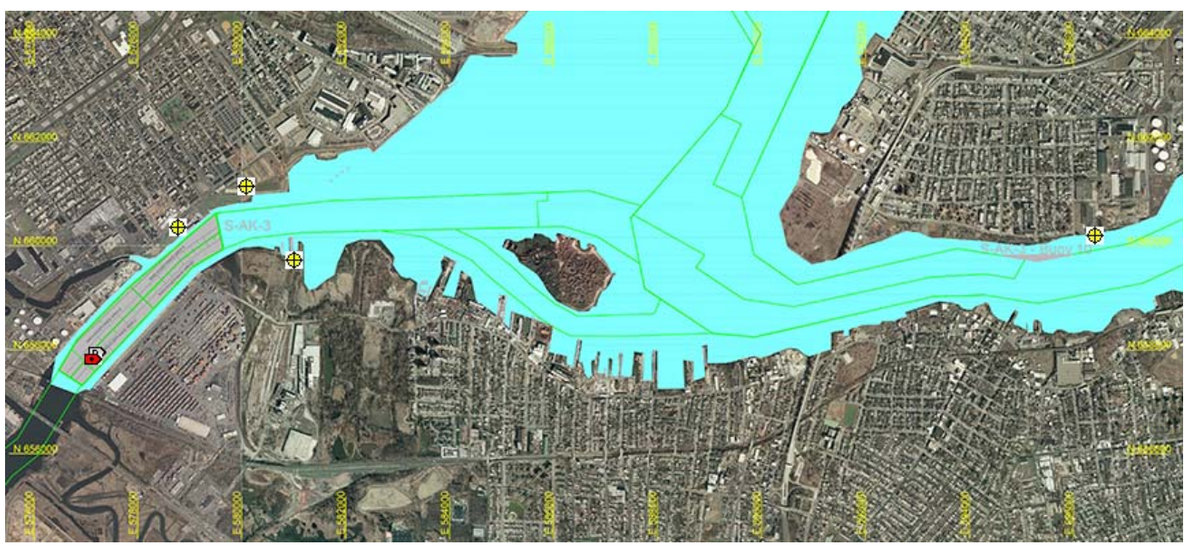
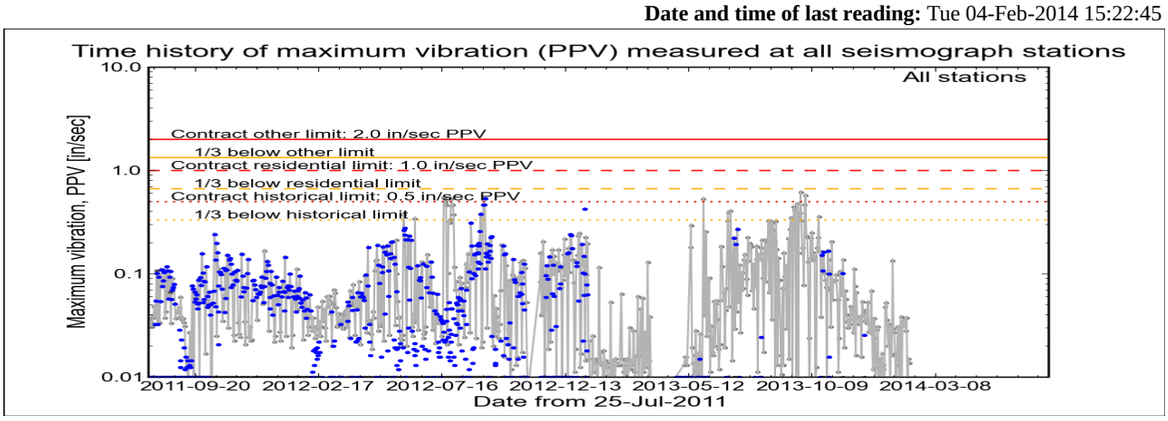


Latest Event Summary

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 04-Feb-2014 15:22:45



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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 04-Feb-2014	15:22:45	0.0137	NYCT
Ambient	Mon 03-Feb-2014	15:52:46	0.0150	NYCT
Ambient	Sun 02-Feb-2014	12:50:20	0.0056	Elizabeth Marina
Ambient	Sat 01-Feb-2014	14:02:36	0.0375	Elizabeth Marina
Ambient	Fri 31-Jan-2014	14:05:21	0.0281	Elizabeth Marina
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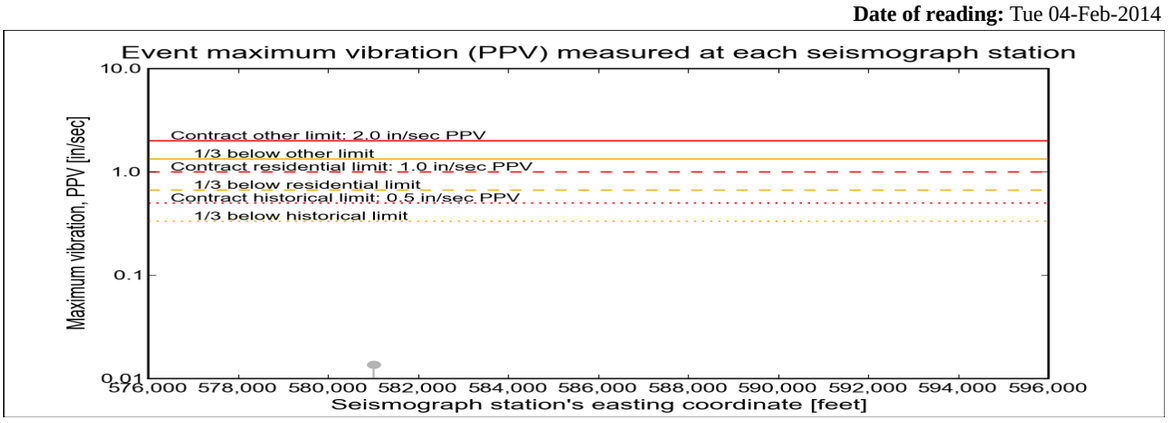
Date of reading: Tue 04-Feb-2014



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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
NYCT - e4s008	Tue 04-Feb-2014	15:22:45	0.0137	Ambient

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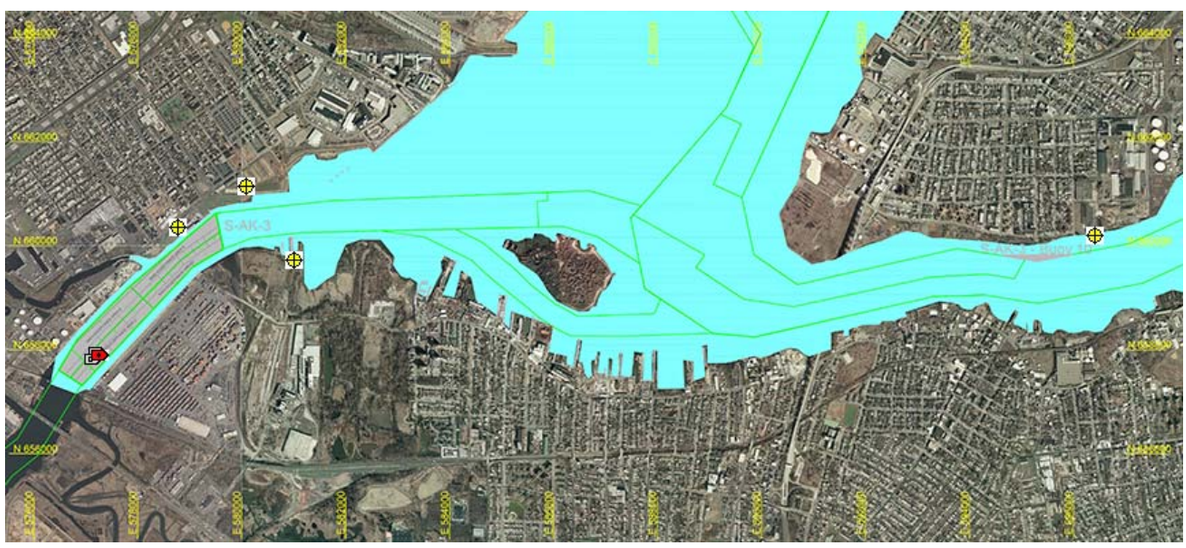

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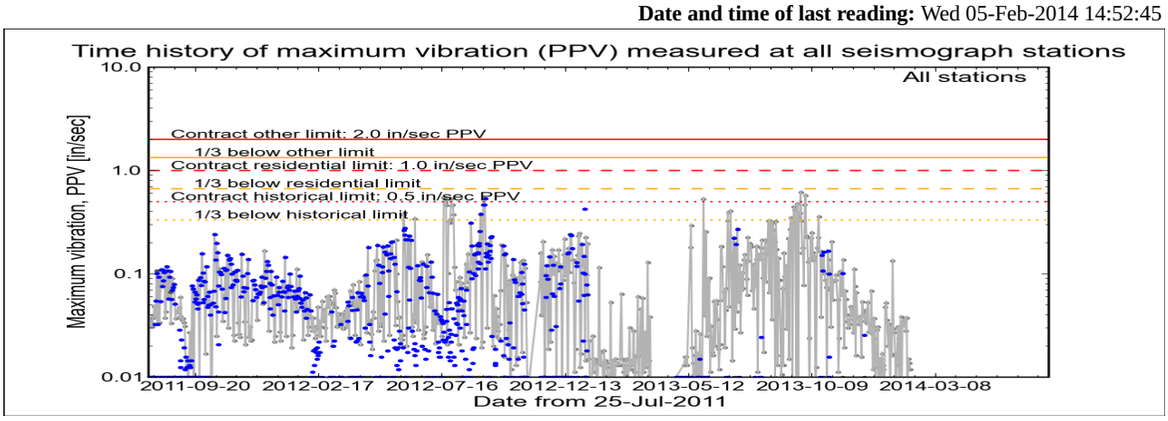
Date and time of last reading: Wed 05-Feb-2014 14:52:45



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Ambient	Wed 05-Feb-2014	14:52:45	0.0119	NYCT
Ambient	Tue 04-Feb-2014	15:22:45	0.0137	NYCT
Ambient	Mon 03-Feb-2014	15:52:46	0.0150	NYCT
Ambient	Sun 02-Feb-2014	12:50:20	0.0056	Elizabeth Marina
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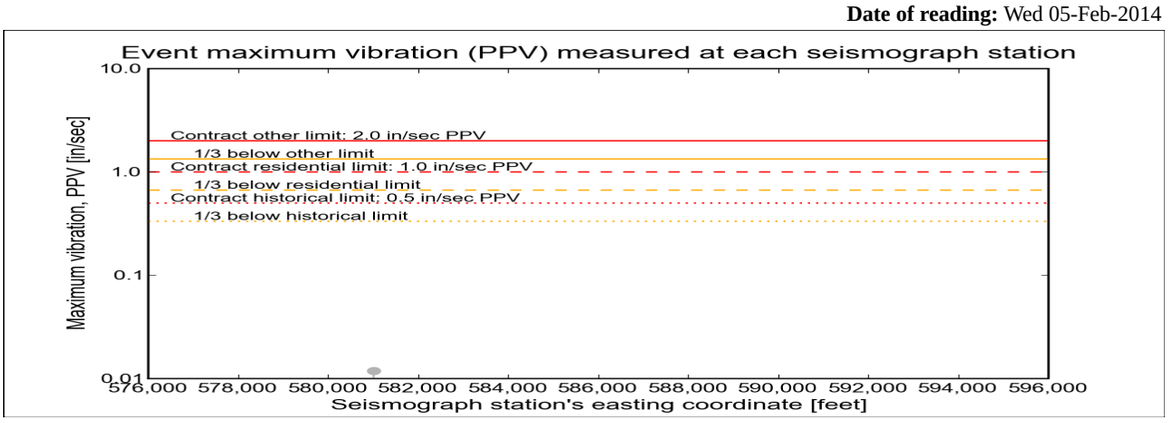
Date of reading: Wed 05-Feb-2014



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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
NYCT - e4s008	Wed 05-Feb-2014	14:52:45	0.0119	Ambient

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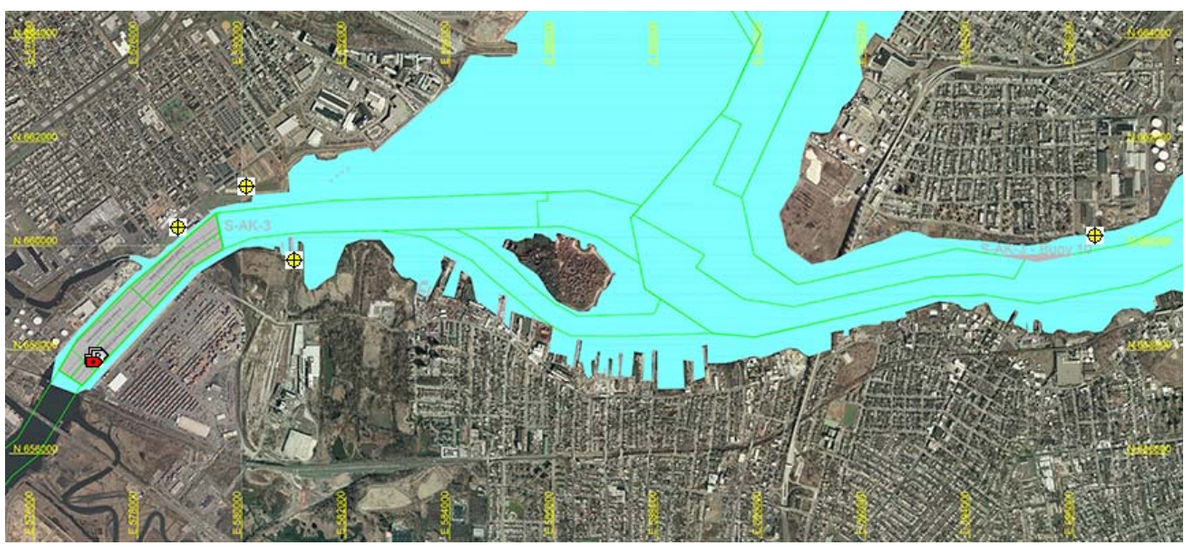

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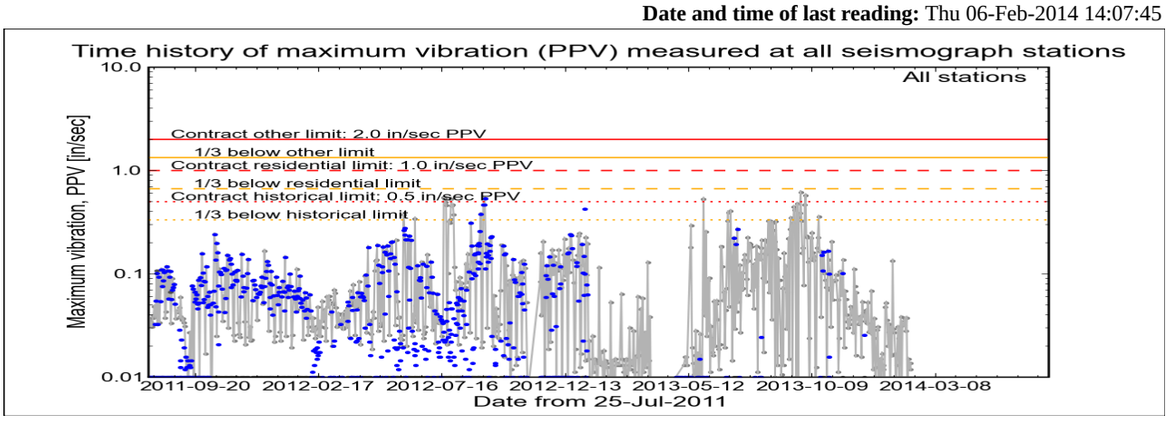
Date and time of last reading: Thu 06-Feb-2014 14:07:45



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Ambient	Thu 06-Feb-2014	14:07:45	0.0137	NYCT
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Ambient	Tue 04-Feb-2014	15:22:45	0.0137	NYCT
Ambient	Mon 03-Feb-2014	15:52:46	0.0150	NYCT
Ambient	Sun 02-Feb-2014	12:50:20	0.0056	Elizabeth Marina
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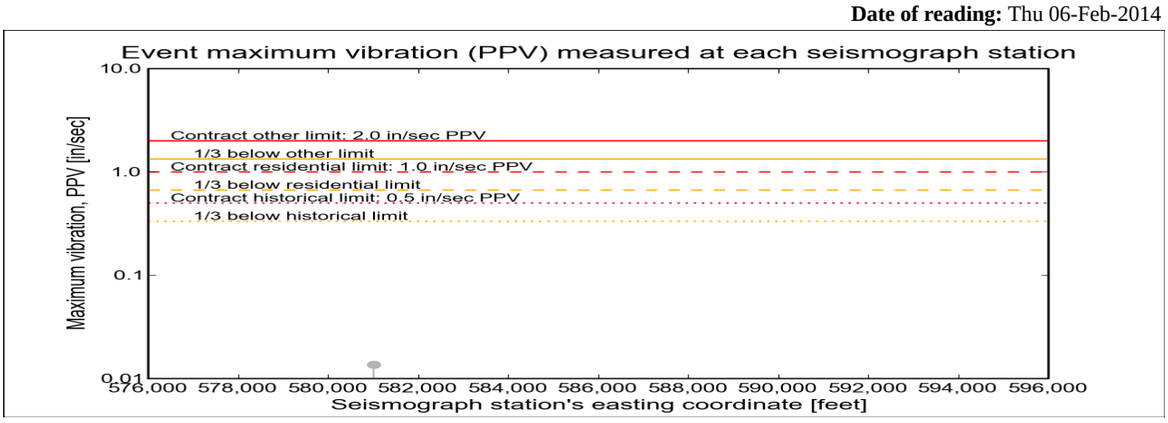
Date of reading: Thu 06-Feb-2014



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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
NYCT - e4s008	Thu 06-Feb-2014	14:07:45	0.0137	Ambient

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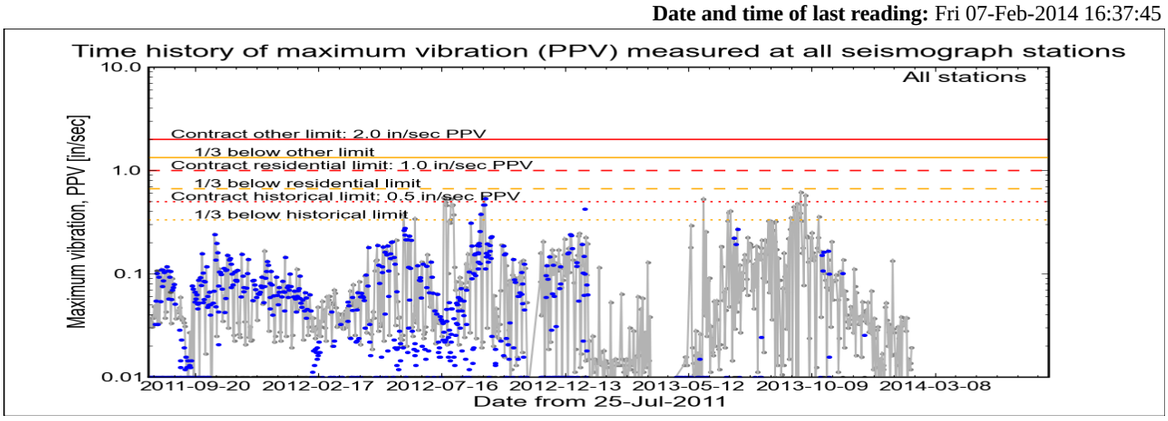
Date and time of last reading: Fri 07-Feb-2014 16:37:45



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Ambient	Fri 07-Feb-2014	16:37:45	0.0194	NYCT
Ambient	Thu 06-Feb-2014	14:07:45	0.0137	NYCT
Ambient	Wed 05-Feb-2014	14:52:45	0.0119	NYCT
Ambient	Tue 04-Feb-2014	15:22:45	0.0137	NYCT
Ambient	Mon 03-Feb-2014	15:52:46	0.0150	NYCT
Ambient	Sun 02-Feb-2014	12:50:20	0.0056	Elizabeth Marina

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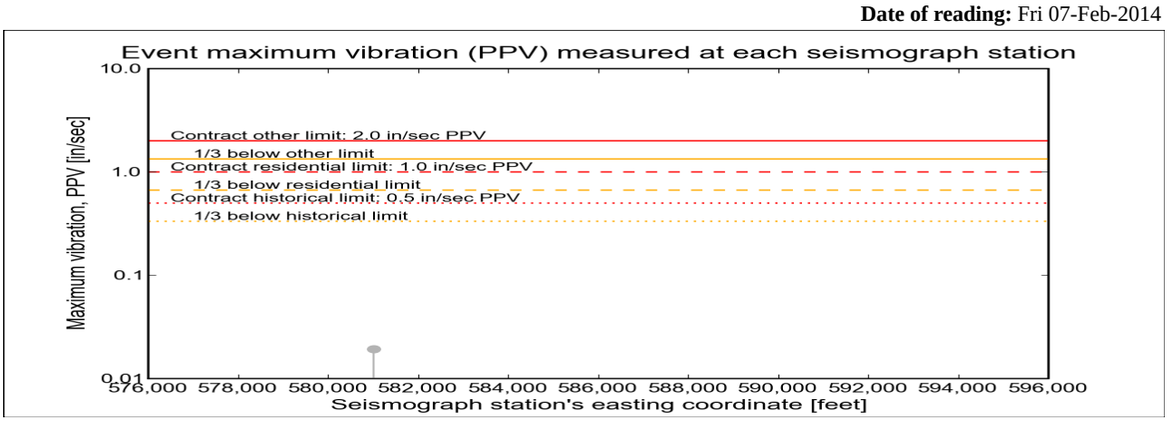

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NYCT - e4s008	Fri 07-Feb-2014	16:37:45	0.0194	Ambient

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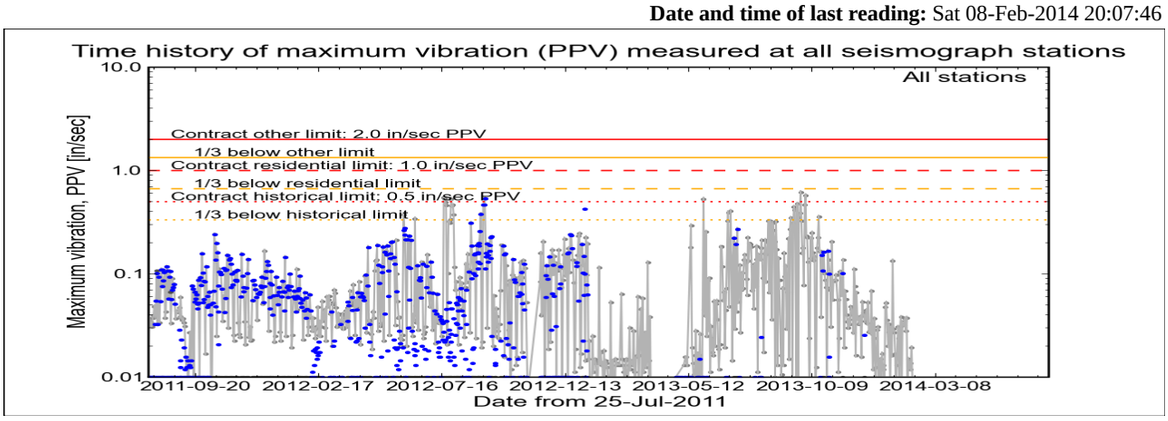
Click station for station information or click channel for event summary.

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 08-Feb-2014 20:07:46



(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	Sat 08-Feb-2014	20:07:46	0.0094	NYCT
Ambient	Fri 07-Feb-2014	16:37:45	0.0194	NYCT
Ambient	Thu 06-Feb-2014	14:07:45	0.0137	NYCT
Ambient	Wed 05-Feb-2014	14:52:45	0.0119	NYCT
Ambient	Tue 04-Feb-2014	15:22:45	0.0137	NYCT
Ambient	Mon 03-Feb-2014	15:52:46	0.0150	NYCT

US Army Corps of Engineers®
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.

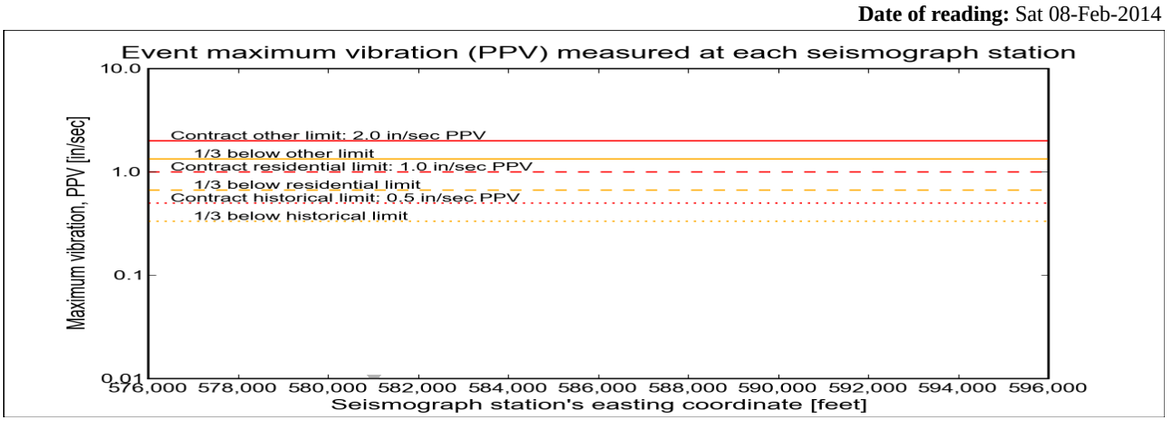
The Arthur Kill contract area is mapped below with a top-of-rock map. Today's dredge locations are marked by colored symbols, connected by colored lines to this week's past locations marked by gray symbols. The drilling and blasting barge location is marked in red. The easting and northing map coordinates 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 08-Feb-2014



(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
NYCT - e4s008	Sat 08-Feb-2014	20:07:46	0.00937	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.

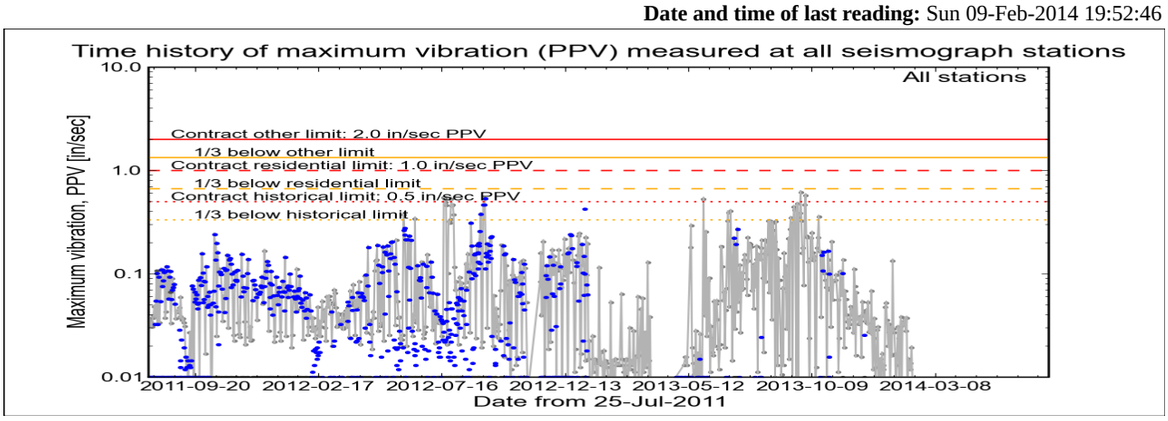
The Arthur Kill contract area is mapped below in light gray. The navigation grid is superimposed. Today's dredge locations are marked by colored symbols, connected by colored lines to this week's past locations marked by gray symbols. The drilling and blasting barge is marked in red. The easting and 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: Sun 09-Feb-2014 19:52:46



(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	Sun 09-Feb-2014	19:52:46	0.0037	NYCT
Ambient	Sat 08-Feb-2014	20:07:46	0.0094	NYCT
Ambient	Fri 07-Feb-2014	16:37:45	0.0194	NYCT
Ambient	Thu 06-Feb-2014	14:07:45	0.0137	NYCT
Ambient	Wed 05-Feb-2014	14:52:45	0.0119	NYCT
Ambient	Tue 04-Feb-2014	15:22:45	0.0137	NYCT

US Army Corps of Engineers®
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.

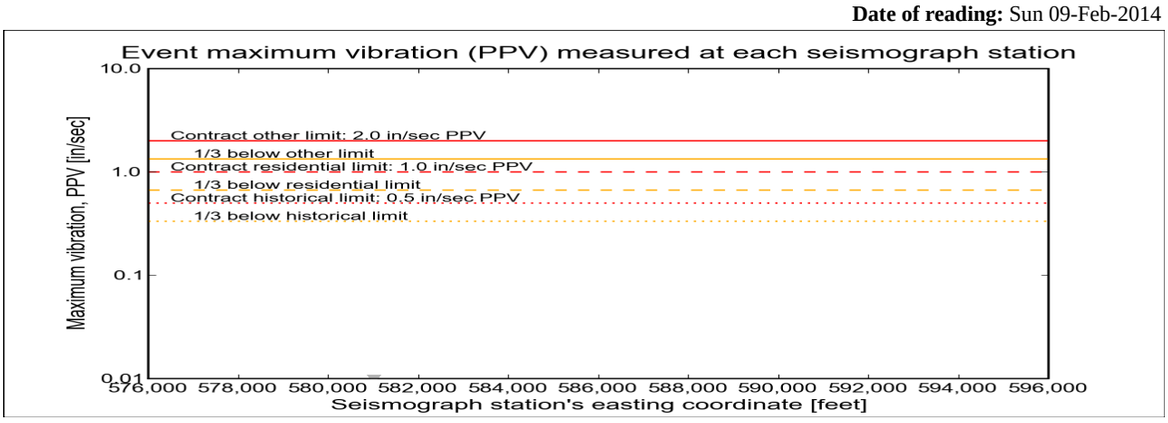
The Arthur Kill contract area is mapped below with a top-of-rock map. Today's dredge locations are marked by colored symbols, connected by colored lines to this week's past locations marked by gray symbols. The drilling and blasting barge location is marked in red. The easting and northing map coordinates 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: Sun 09-Feb-2014



(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
NYCT - e4s008	Sun 09-Feb-2014	19:52:46	0.00375	Ambient