



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 January 07 – January 13, 2013

The following pages display the results from the USACE-NYD real-time website for the week of Monday, January 07 through Sunday, January 13, 2013.

There were 5 blasts this week in the S-AK-2 project area.

We recorded waveforms in the S-AK-2 project area. The maximum vibration recorded was 0.127 in/s recorded at New York Container Terminal on January 07. 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. Capt AJ Fournier, Dredge FJ Belesimo and Drillboat Kraken operated in S-AK-2 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:

January 07
January 08
January 09
January 10
January 11
January 12
January 13

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 three active stations: Port Ivory, New York Container Terminal (NYCT) and Elizabethport. The station locations are on each page.

Ground vibrations at Port Ivory were all below 0.030 in/s. Ground vibrations at NYCT were all below 0.130 in/s. Ground vibrations at Elizabethport were all below 0.055 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)
AK2-319	2013-01-07 09:25	0,950 - 2,580	0.127
AK2-320	2013-01-07 15:52	1,000 - 2,670	0.0319
AK2-321	2013-01-08 09:00	1,030 - 2,710	0.0981
AK2-322	2013-01-08 15:07	1,090 - 2,800	0.0787
AK2-323	2013-01-09 11:43	1,110 - 2,830	0.0631



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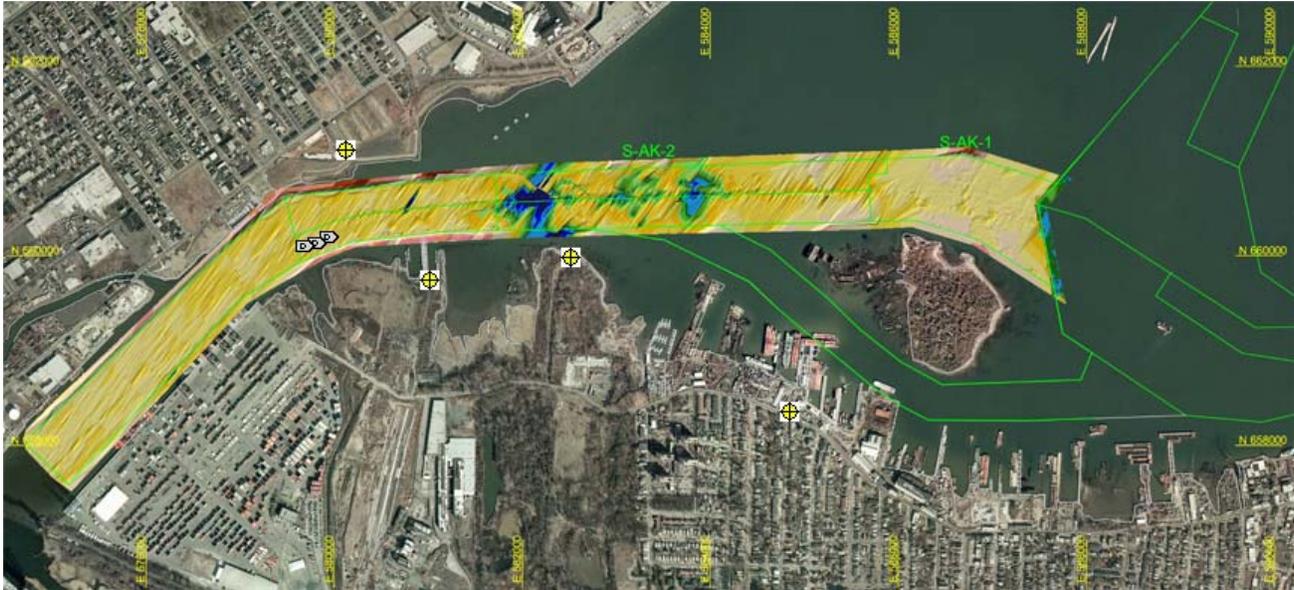
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Dredge Position Summary

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
2013-01-13 Sun				No Activity
2013-01-12 Sat				No Activity
2013-01-11 Fri				No Activity
2013-01-10 Thu				No Activity
2013-01-09 Wed	Drillboat Kraken	▶ 579662	660082	
2013-01-08 Tue	Drillboat Kraken	▶ 579695	660089	
2013-01-07 Mon	Drillboat Kraken	▶ 579830	660141	



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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.

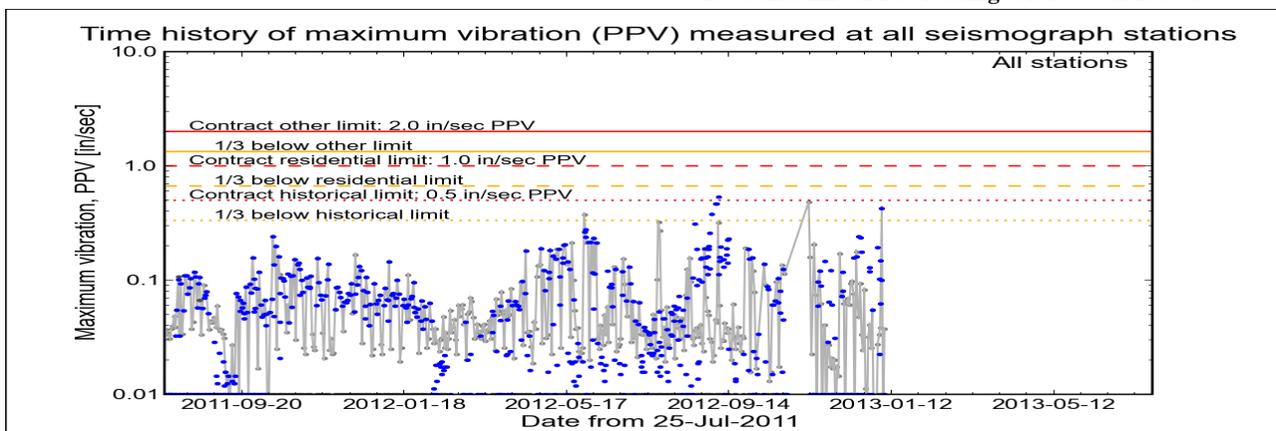
Click station for station information or click channel for event summary.



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: Mon 07-Jan-2013 15:43:53



(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 07-Jan-2013	15:43:53	0.0375	K-Sea Transportation
Ambient	Sun 06-Jan-2013	07:02:34	0.0050	K-Sea Transportation
Blast	Sat 05-Jan-2013	21:06:04	0.4270	K-Sea Transportation
Blast	Fri 04-Jan-2013	14:02:35	0.0381	K-Sea Transportation
Ambient	Thu 03-Jan-2013	20:32:11	0.0331	K-Sea Transportation
Blast	Wed 02-Jan-2013	20:32:34	0.0275	K-Sea Transportation



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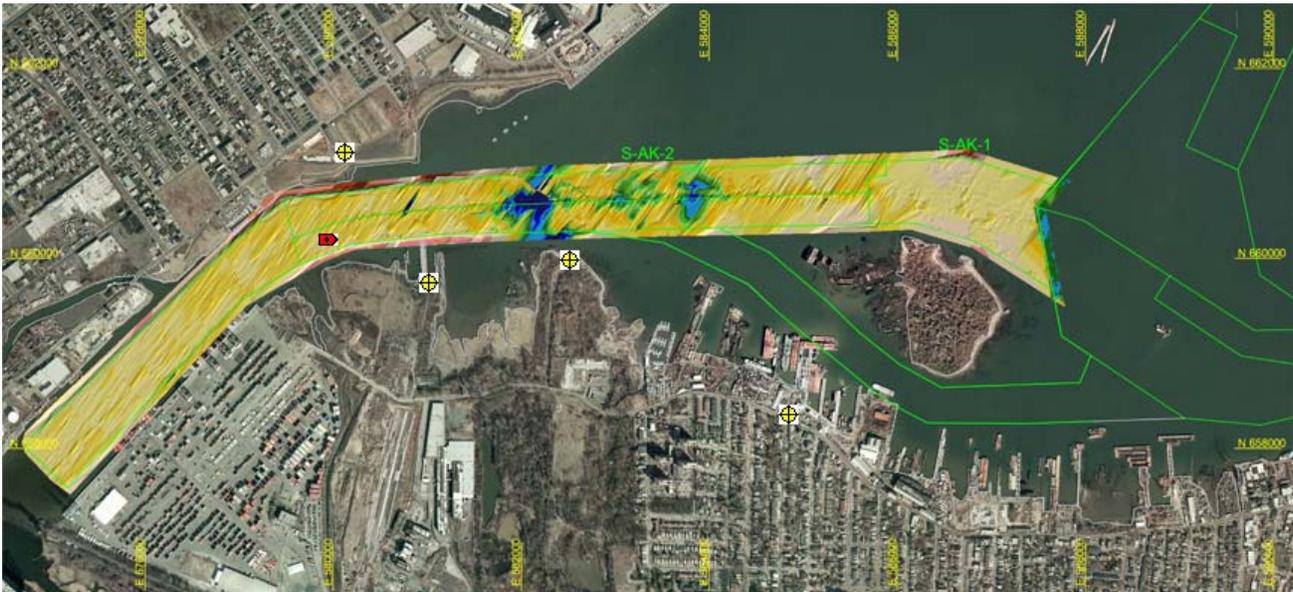
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Arthur Kill Blasting Event Summary

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.

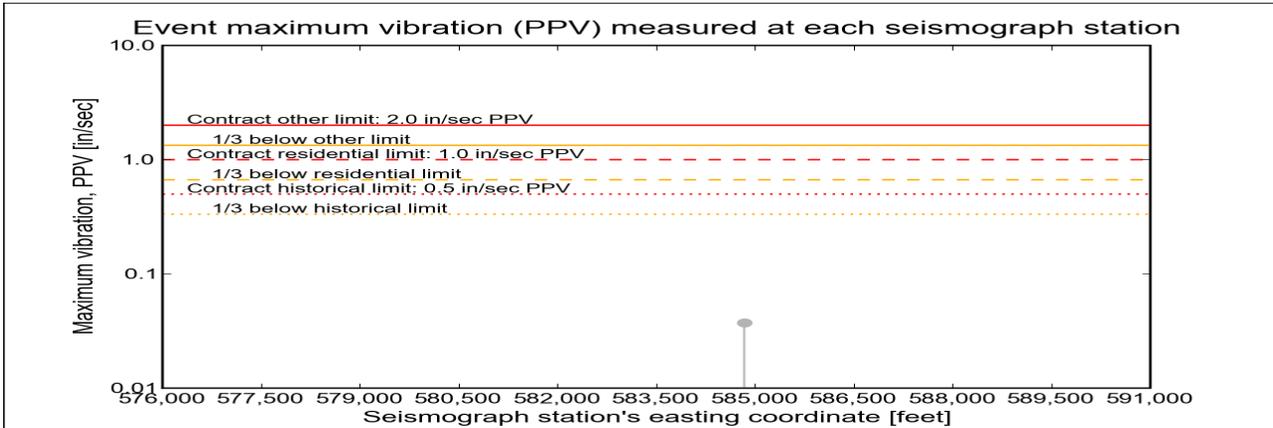
Click station for more information about the station.



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 07-Jan-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
K-Sea Transportation - e4s006	Mon 07-Jan-2013	15:43:53	0.0375	Ambient



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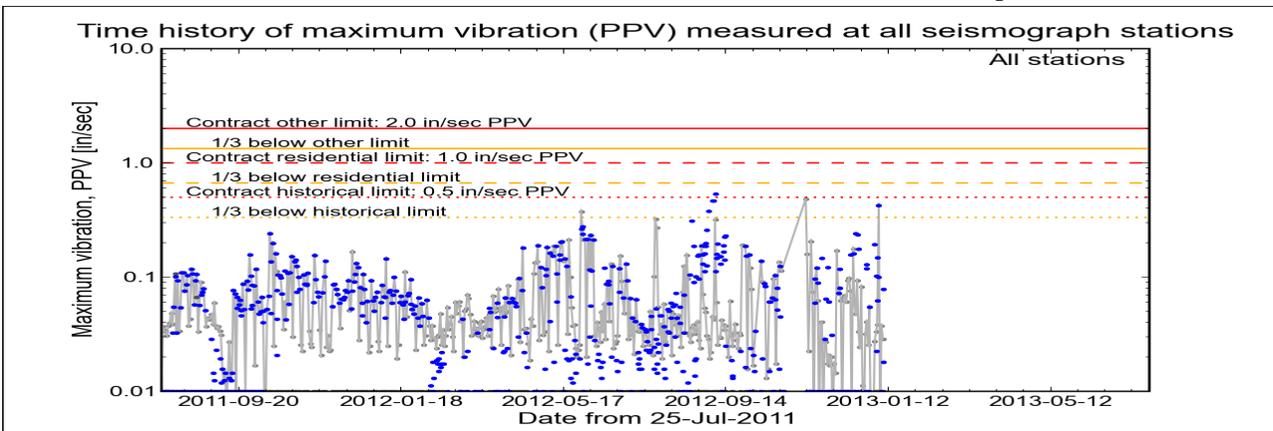
Click station for station information or click channel for event summary.



Latest Event Summary

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Date and time of last reading: Tue 08-Jan-2013 15:17:35



(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	Tue 08-Jan-2013	15:17:35	0.0287	K-Sea Transportation
Ambient	Mon 07-Jan-2013	15:43:53	0.0375	K-Sea Transportation
Ambient	Sun 06-Jan-2013	07:02:34	0.0050	K-Sea Transportation
Blast	Sat 05-Jan-2013	21:06:04	0.4270	K-Sea Transportation
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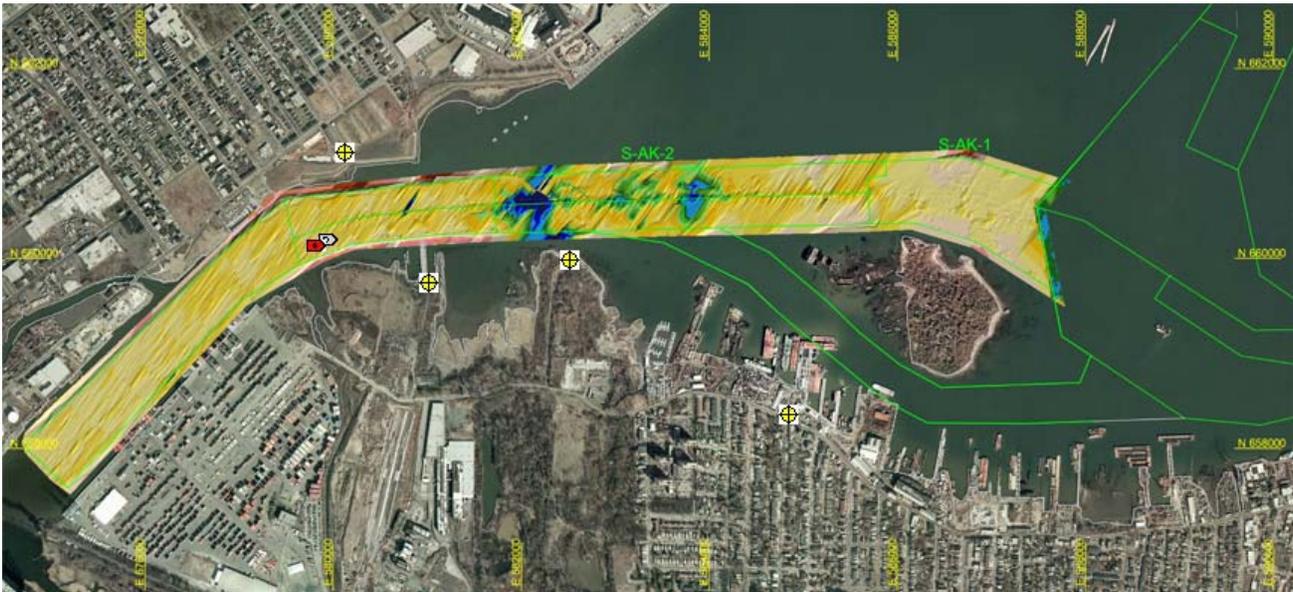
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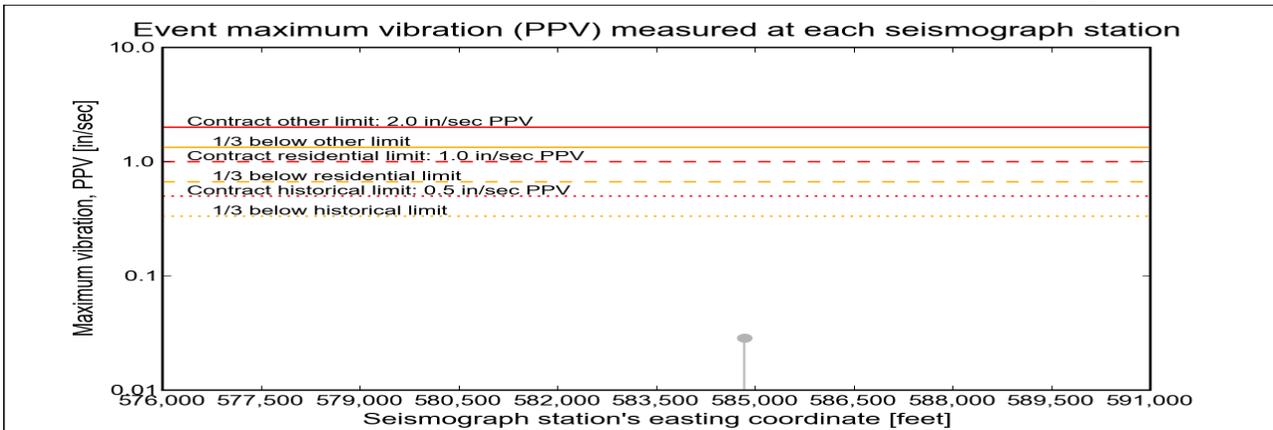
Click station for more information about the station.



Selected Event Summary

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Date of reading: Tue 08-Jan-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
K-Sea Transportation - e4s006	Tue 08-Jan-2013	15:17:35	0.0287	Ambient



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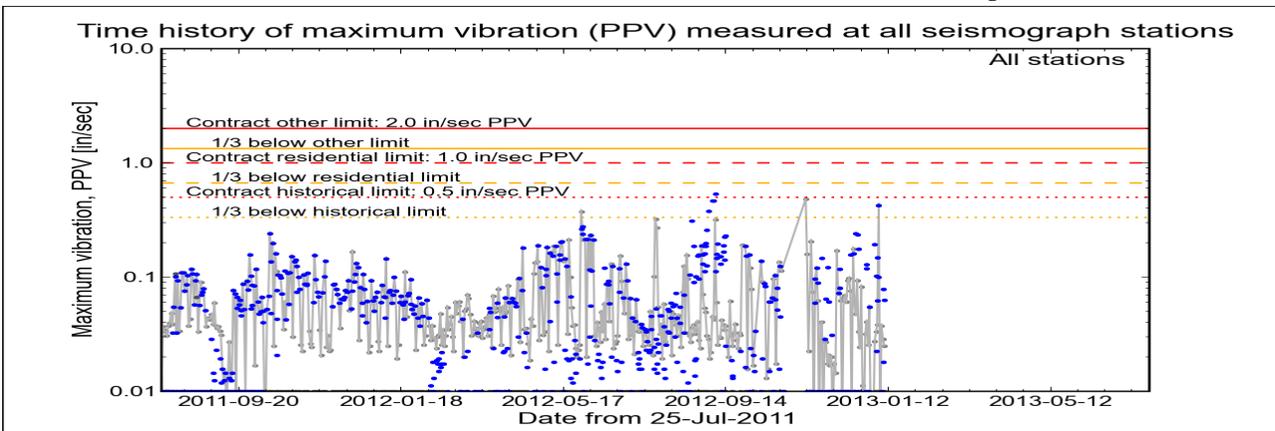
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Date and time of last reading: Wed 09-Jan-2013 16:32:34



(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
Blast	Wed 09-Jan-2013	16:32:34	0.0250	K-Sea Transportation
Ambient	Tue 08-Jan-2013	15:17:35	0.0287	K-Sea Transportation
Ambient	Mon 07-Jan-2013	15:43:53	0.0375	K-Sea Transportation
Ambient	Sun 06-Jan-2013	07:02:34	0.0050	K-Sea Transportation
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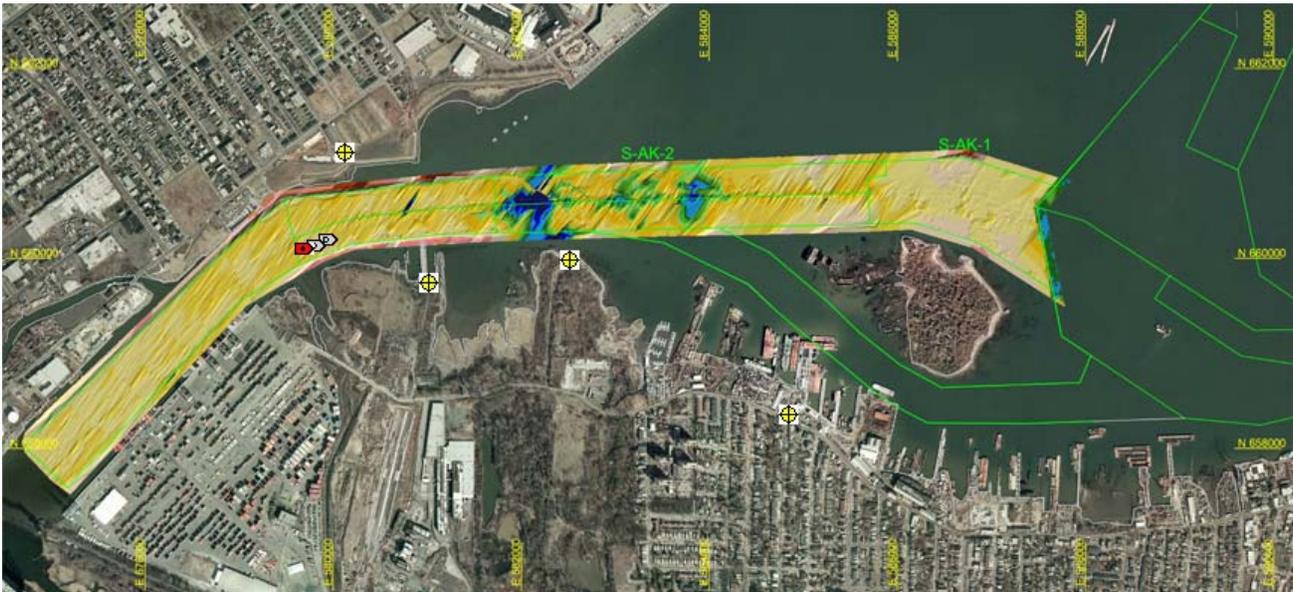
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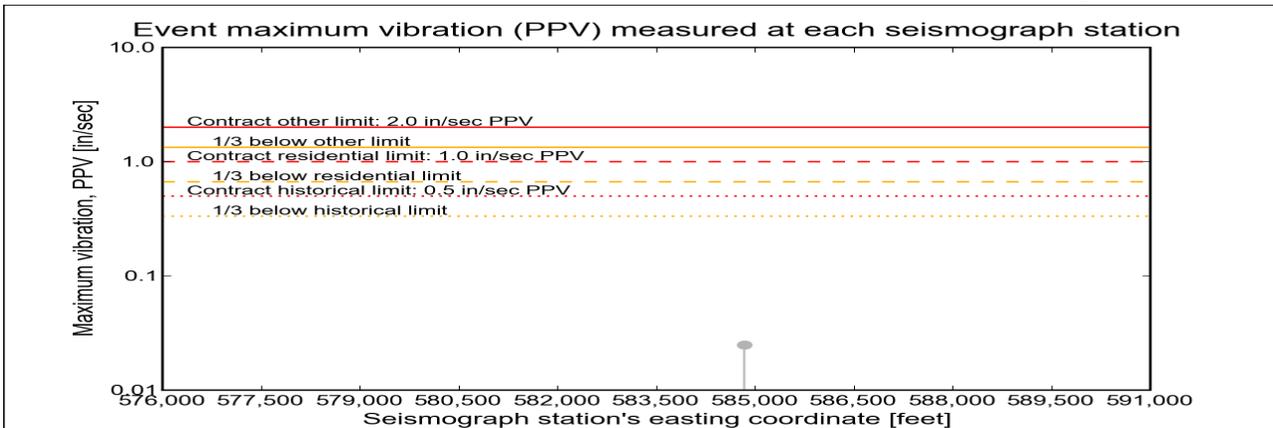
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Date of reading: Wed 09-Jan-2013



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Station	Date	Time	Max PPV (in / second)	Vibration Type
K-Sea Transportation - e4s006	Wed 09-Jan-2013	16:32:34	0.025	Ambient



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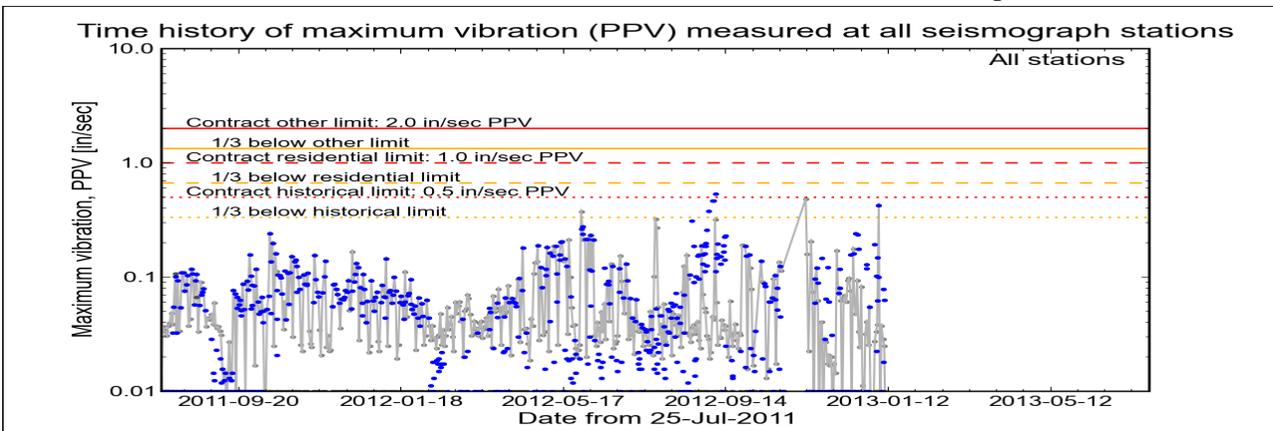
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Date and time of last reading: Thu 10-Jan-2013 17:32:35



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Ambient	Thu 10-Jan-2013	17:32:35	0.0050	K-Sea Transportation
Blast	Wed 09-Jan-2013	16:32:34	0.0250	K-Sea Transportation
Ambient	Tue 08-Jan-2013	15:17:35	0.0287	K-Sea Transportation
Ambient	Mon 07-Jan-2013	15:43:53	0.0375	K-Sea Transportation
Ambient	Sun 06-Jan-2013	07:02:34	0.0050	K-Sea Transportation
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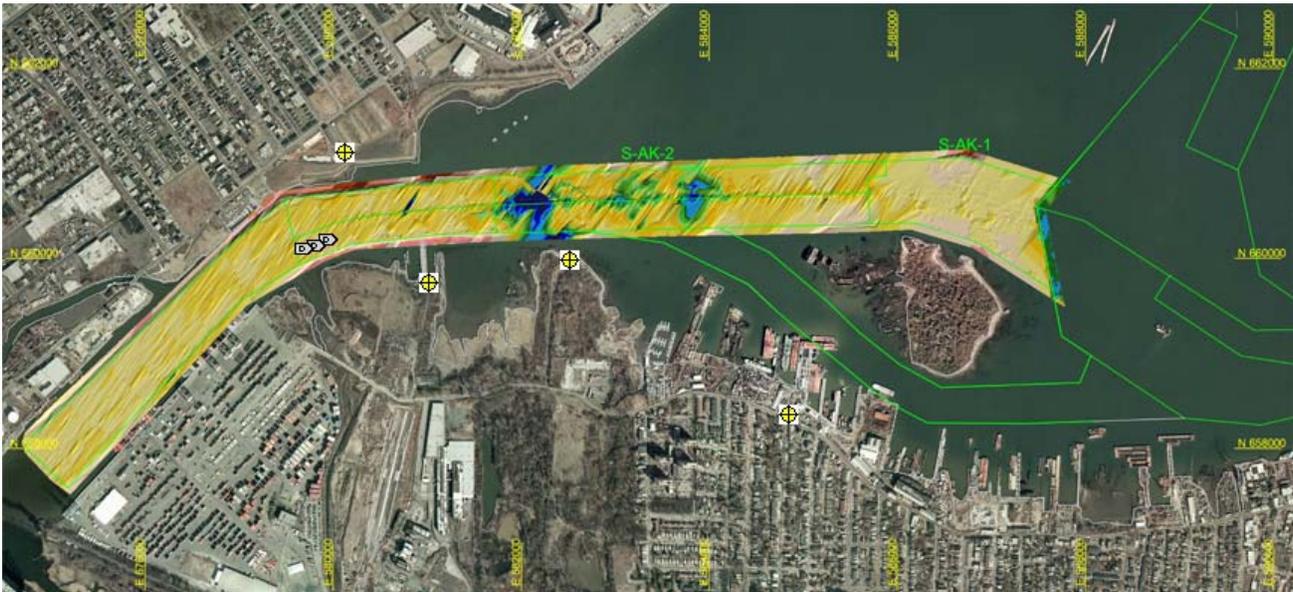
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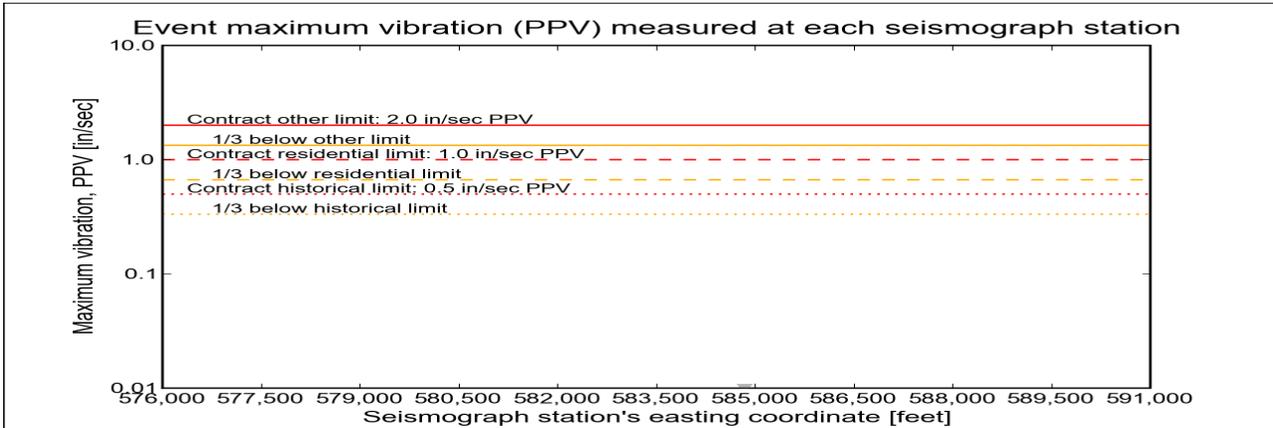
Click station for more information about the station.



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Date of reading: Thu 10-Jan-2013



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

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Station	Date	Time	Max PPV (in / second)	Vibration Type
K-Sea Transportation - e4s006	Thu 10-Jan-2013	17:32:35	0.005	Ambient



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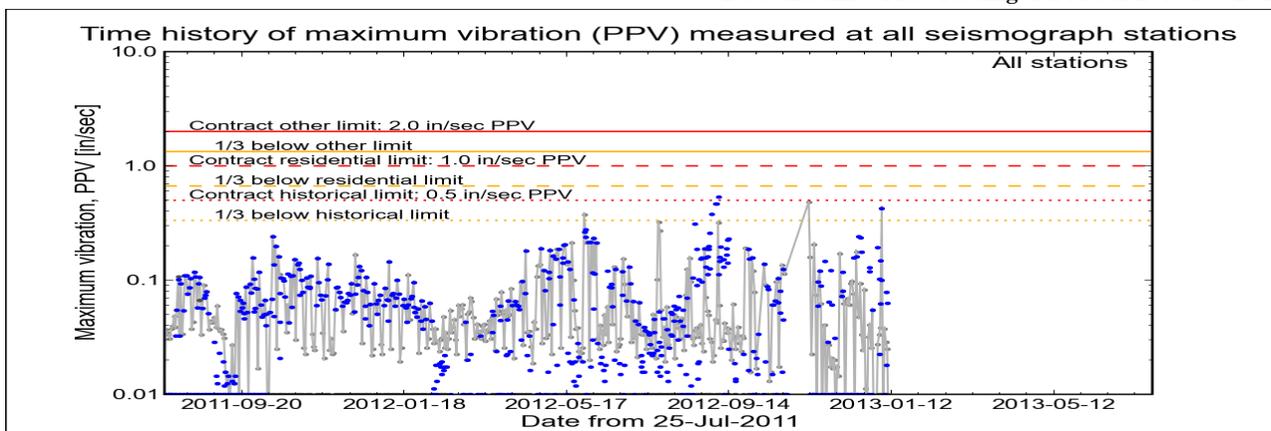
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Date and time of last reading: Fri 11-Jan-2013 13:32:32



(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 11-Jan-2013	13:32:32	0.0050	K-Sea Transportation
Ambient	Thu 10-Jan-2013	17:32:35	0.0050	K-Sea Transportation
Blast	Wed 09-Jan-2013	16:32:34	0.0250	K-Sea Transportation
Ambient	Tue 08-Jan-2013	15:17:35	0.0287	K-Sea Transportation
Ambient	Mon 07-Jan-2013	15:43:53	0.0375	K-Sea Transportation
Ambient	Sun 06-Jan-2013	07:02:34	0.0050	K-Sea Transportation



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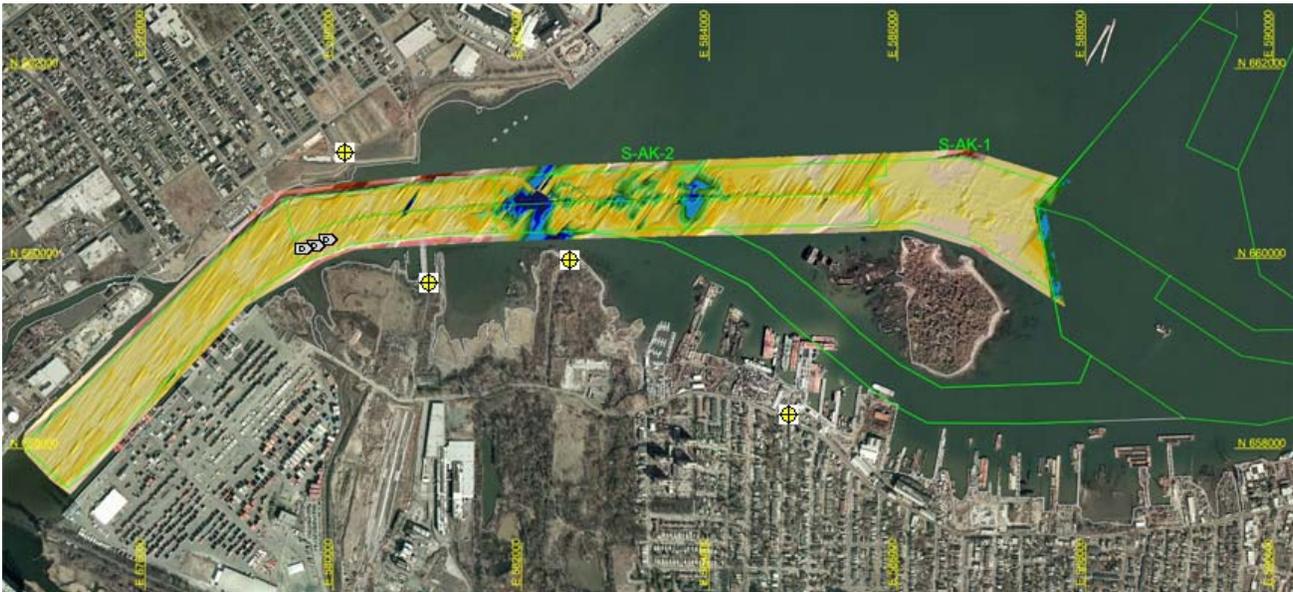
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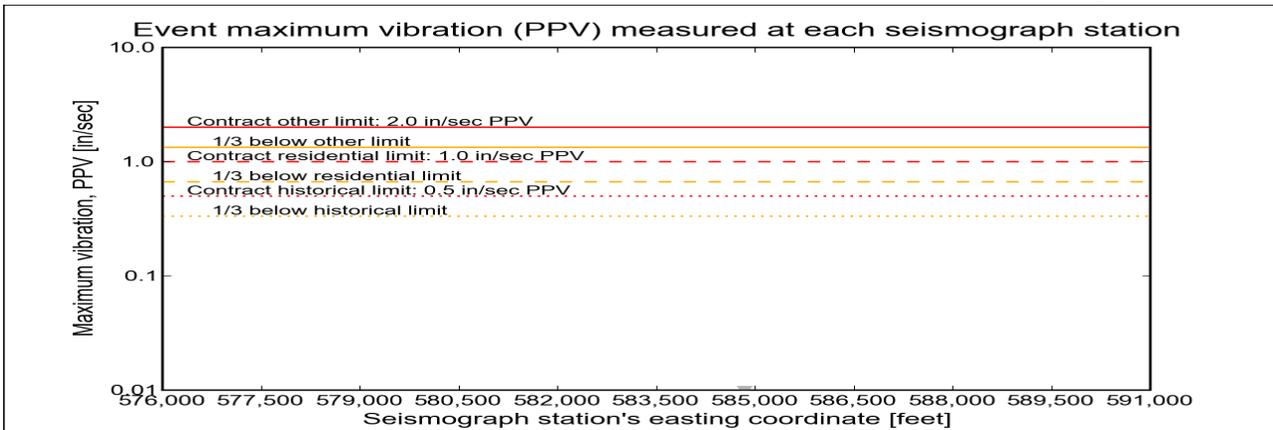
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Date of reading: Fri 11-Jan-2013



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

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Station	Date	Time	Max PPV (in / second)	Vibration Type
K-Sea Transportation - e4s006	Fri 11-Jan-2013	13:32:32	0.005	Ambient



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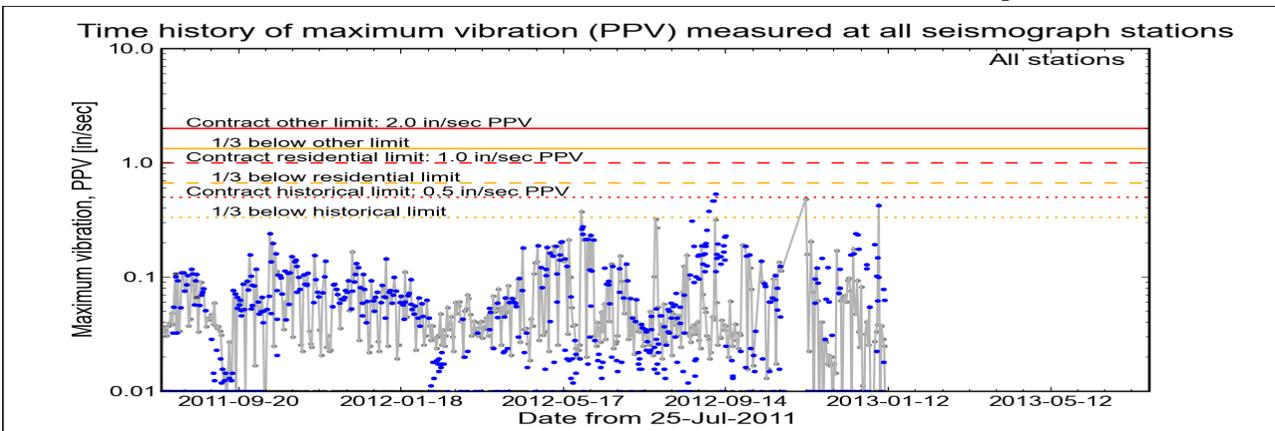
Click station for station information or click channel for event summary.



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 12-Jan-2013 14:17:35



(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	Sat 12-Jan-2013	14:17:35	0.0050	K-Sea Transportation
Ambient	Fri 11-Jan-2013	13:32:32	0.0050	K-Sea Transportation
Ambient	Thu 10-Jan-2013	17:32:35	0.0050	K-Sea Transportation
Blast	Wed 09-Jan-2013	16:32:34	0.0250	K-Sea Transportation
Ambient	Tue 08-Jan-2013	15:17:35	0.0287	K-Sea Transportation
Ambient	Mon 07-Jan-2013	15:43:53	0.0375	K-Sea Transportation



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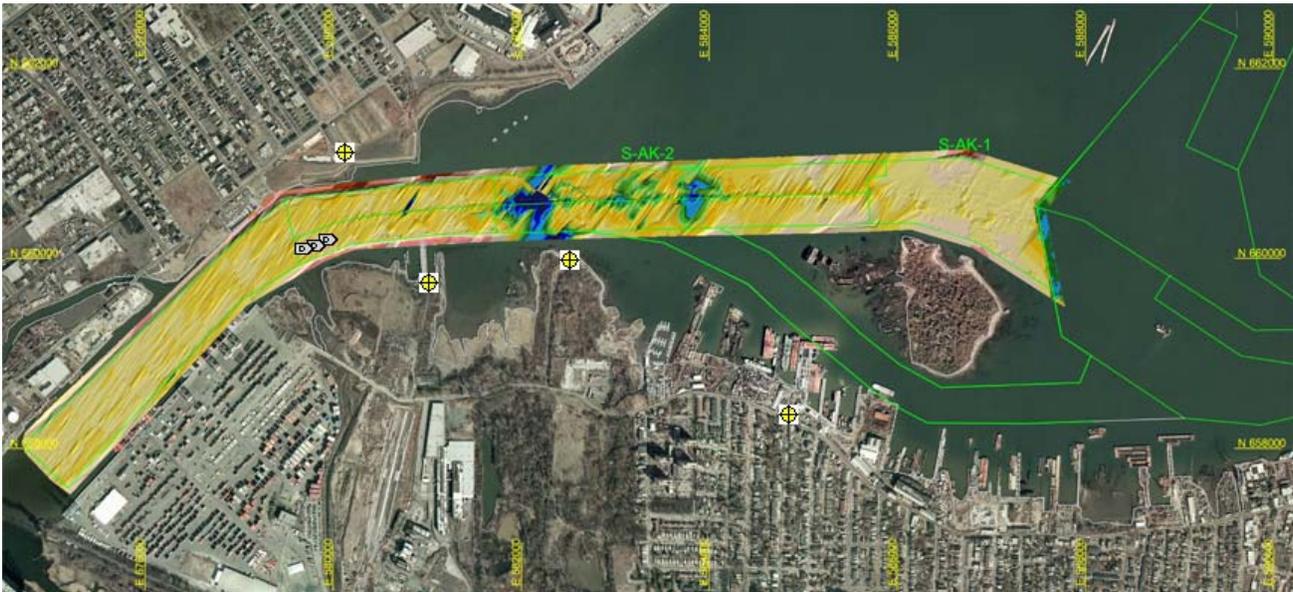
[Home](#) [Event Summary](#) [Stations:](#) [Dredges](#) [History](#) [Links](#)

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.

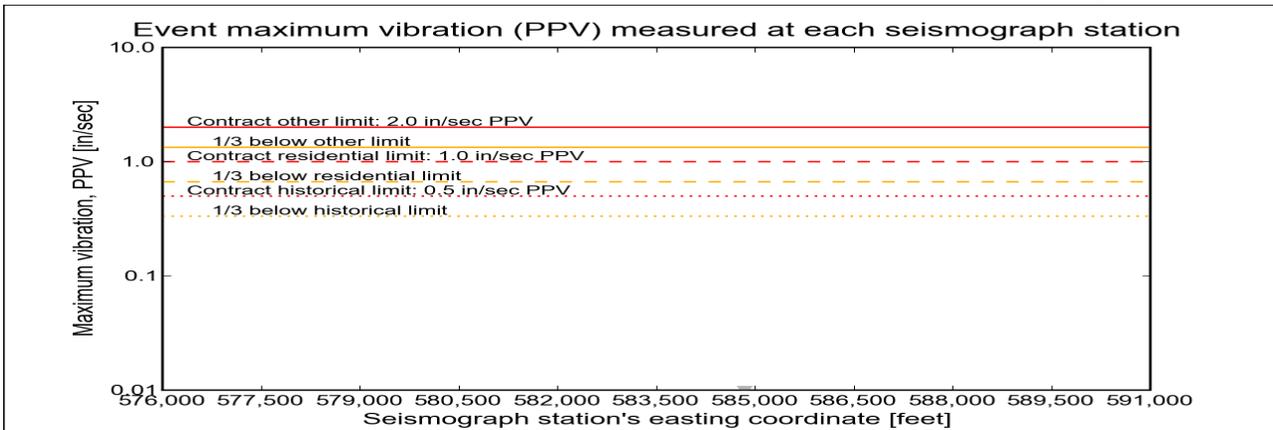
Click station for more information about the station.



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 12-Jan-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
K-Sea Transportation - e4s006	Sat 12-Jan-2013	14:17:35	0.005	Ambient



Home Event Summary Stations: Dredges History Links

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.

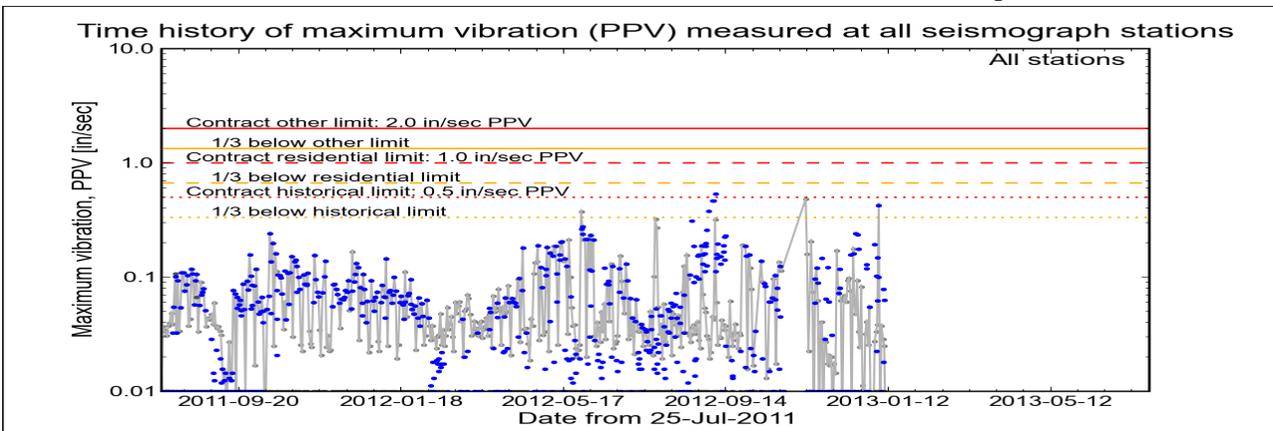
Click station for station information or click channel for event summary.



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 13-Jan-2013 10:17:34



(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 13-Jan-2013	10:17:34	0.0044	K-Sea Transportation
Ambient	Sat 12-Jan-2013	14:17:35	0.0050	K-Sea Transportation
Ambient	Fri 11-Jan-2013	13:32:32	0.0050	K-Sea Transportation
Ambient	Thu 10-Jan-2013	17:32:35	0.0050	K-Sea Transportation
Blast	Wed 09-Jan-2013	16:32:34	0.0250	K-Sea Transportation
Ambient	Tue 08-Jan-2013	15:17:35	0.0287	K-Sea Transportation



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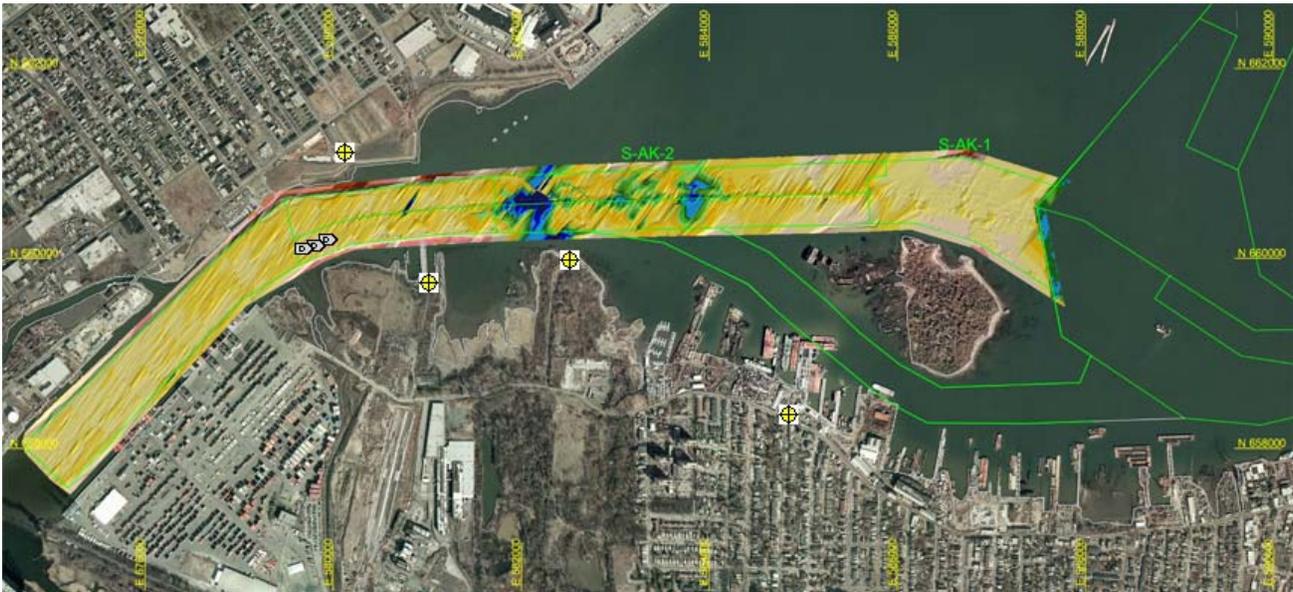
[Home](#) [Event Summary](#) [Stations:](#) [Dredges](#) [History](#) [Links](#)

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.

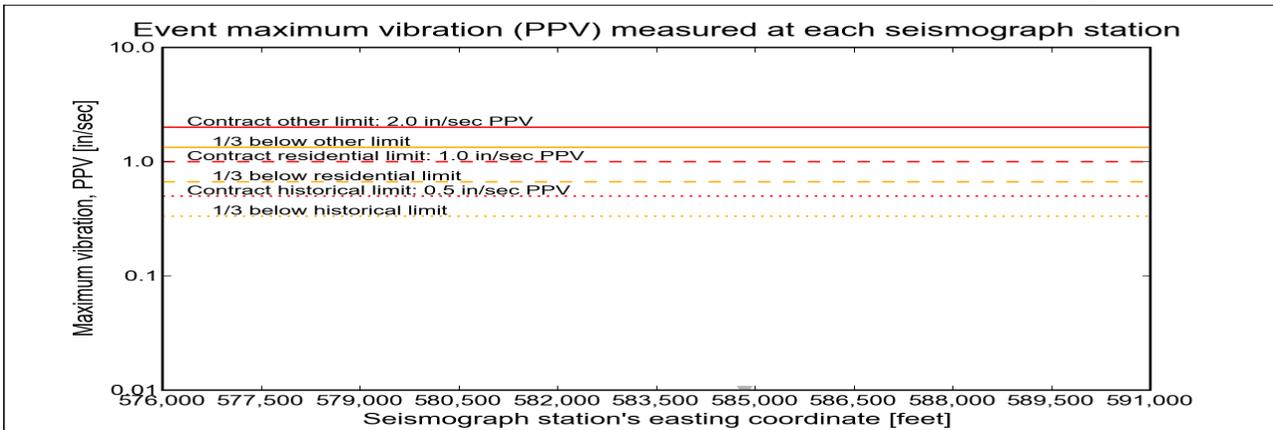
Click station for more information about the station.



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 13-Jan-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
K-Sea Transportation - e4s006	Sun 13-Jan-2013	10:17:34	0.00437	Ambient