



DAILY AIR MONITORING REPORT

250 Water Street Remediation Site Manhattan, New York

05/13/22

Project number: 170381202

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Rev. No. 0

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Dust Action Level ($\mu\text{g}/\text{m}^3$)

100

VOC Action Level (ppm)

5

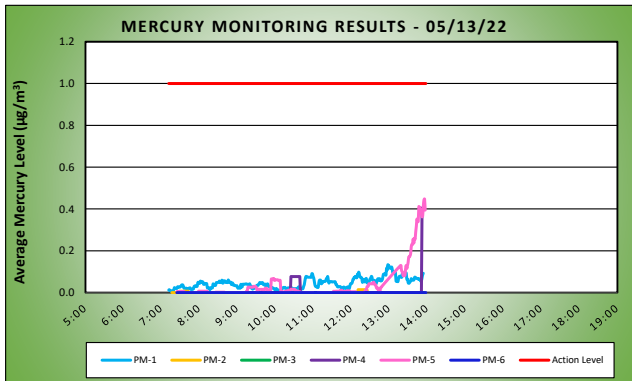
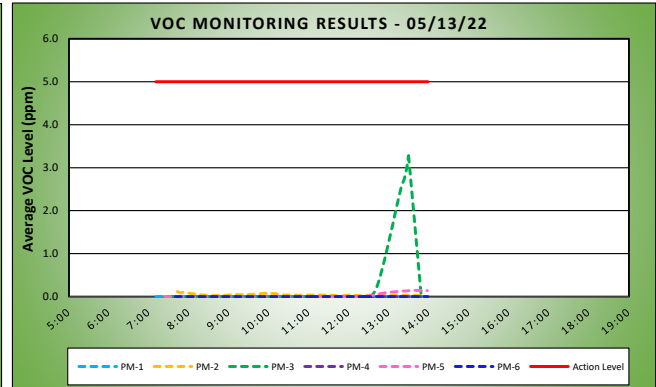
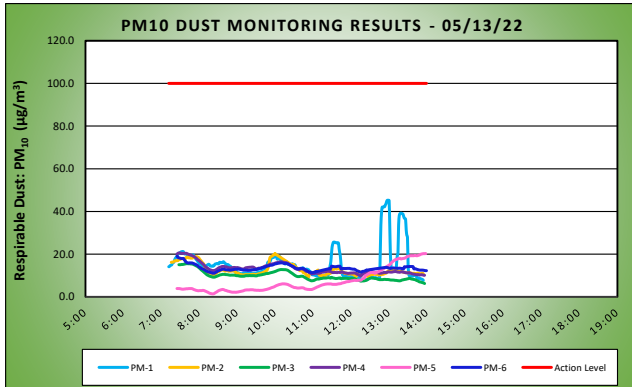
Hg Action Level ($\mu\text{g}/\text{m}^3$)

1.0

Weather Data Range for Work Day		Wind Direction	NNE	Relative Humidity (%)	62.6 - 82.1	Daily Rain (in)	0.00	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp (°F)	60.2 - 71.6	Wind Speed (MPH)	1.0 - 8.0	Barometer (inHg)	30.32 - 30.39			

Station Location Work Area	Daily Avg. Dust Concentration ($\mu\text{g}/\text{m}^3$)	Max 15 Minute Dust Concentration ($\mu\text{g}/\text{m}^3$)	Time of Maximum 15 Minute Avg Dust Reading	Daily Avg. VOC Concentration (ppm)	Max 15 Minute VOC Concentration (ppm)	Time of Max 15 Minute Avg VOC Reading
PM-1	15.4	45.3	12:58	0.0	0.0	7:11
PM-2	12.7	20.2	10:00	0.0	0.1	7:43
PM-3	9.8	15.6	7:42	0.3	3.3	13:30
PM-4	13.3	20.6	7:29	0.0	0.0	7:41
PM-5	7.3	20.3	13:57	0.0	0.1	13:41
PM-6	13.6	18.9	7:25	0.0	0.0	7:40

Station Location Work Area	Daily Avg. Mercury Concentration ($\mu\text{g}/\text{m}^3$)	Max 15 Minute Mercury Concentration ($\mu\text{g}/\text{m}^3$)	Time of Max 15 Minute Avg Mercury Reading
PM-1	0.0	0.1	12:58
PM-2	0.0	0.0	12:11
PM-3	0.0	0.0	7:29
PM-4	0.0	0.4	13:52
PM-5	0.0	0.4	13:56
PM-6	0.0	0.0	7:25



Air Monitoring Notes:

- Prior to discontinuing the CAMP at the conclusion of ground-intrusive activities, VOC and mercury vapor concentrations were confirmed to return to background conditions at each perimeter station. CAMP stations were discontinued sequentially from 1:44pm to 1:59pm at the conclusion of ground-intrusive activities.
 - Mercury vapor concentrations at each CAMP station ranged from 0.00 $\mu\text{g}/\text{m}^3$ to 0.06 $\mu\text{g}/\text{m}^3$.
 - VOC concentrations at each CAMP station ranged from 0.0 ppm to 0.1 ppm.
- Langan used a handheld Jerome® J505 mercury analyzer to monitor ambient air conditions within the work zone and throughout the site. Instantaneous mercury vapor concentrations ranged from 0.00 $\mu\text{g}/\text{m}^3$ to 0.09 $\mu\text{g}/\text{m}^3$.
- Langan used a handheld photoionization detector (PID) to monitor VOC concentrations within the work zone and throughout the site. VOC concentrations were not detected above background concentrations throughout the work day.
- Concentrations of mercury vapor and PM10 were not recorded at perimeter station PM-2 from 9:50am to 10:01am and from 10:01am to 10:10am, respectively, due to a connection issue within the CAMP station. The Jerome® J405 mercury analyzer and DustTrak within perimeter station PM-2 were reset and data logging resumed at 10:02 and 10:11am, respectively.
 - Instantaneous mercury vapor concentrations recorded with the handheld Jerome® J505 mercury vapor analyzer at perimeter station PM-2 ranged from 0.00 $\mu\text{g}/\text{m}^3$ to 0.09 $\mu\text{g}/\text{m}^3$ between 9:50am and 10:01am.
 - Fugitive dust was not observed migrating from the site during these times.
- Concentrations of PM10, VOCs, and mercury vapor were not recorded at perimeter station PM-6, which was located upwind of the work area, from 11:05am to 11:11am and from 12:25pm to 12:39pm, due to a malfunction with the telemetry system. The modem within perimeter station PM-6 was reset and data logging resumed at 11:12am and 12:40pm, respectively.
 - Instantaneous mercury vapor concentrations recorded with the handheld Jerome® J505 mercury vapor analyzer at perimeter station PM-6 ranged from 0.00 $\mu\text{g}/\text{m}^3$ to 0.07 $\mu\text{g}/\text{m}^3$ during these times.
 - Fugitive dust and odors were not observed migrating from the site during these times.
- Concentrations of mercury vapor were not recorded at perimeter station PM-5, which was located upwind of the work area, from 12:52pm to 1:02pm due to an equipment malfunction with the Jerome® J405 unit. The Jerome® J405 mercury analyzer was reset and data logging resumed at 1:03pm.
 - Instantaneous mercury vapor concentrations recorded with the handheld Jerome® J505 mercury vapor analyzer at perimeter station PM-5 ranged from 0.00 $\mu\text{g}/\text{m}^3$ to 0.07 $\mu\text{g}/\text{m}^3$ during this time.
- Concentrations of VOCs were not recorded at perimeter station PM-3, which was located upwind of the work area, from 1:31pm to 1:33pm during instrument recalibration. Data logging resumed at 1:34pm and instantaneous VOC concentrations recorded with the handheld PID ranged from 0.0 to 0.2 ppm during this time.

