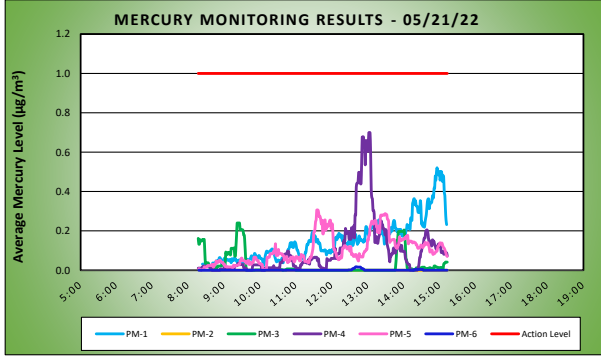
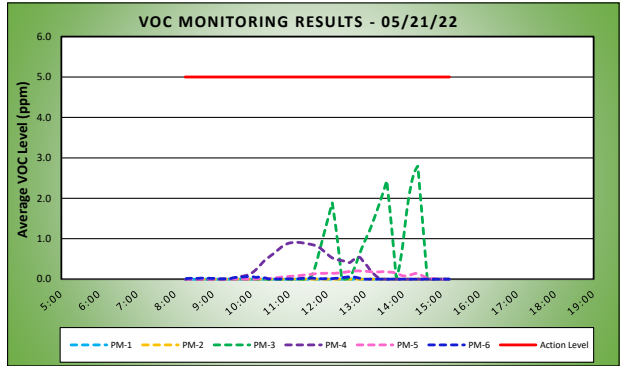
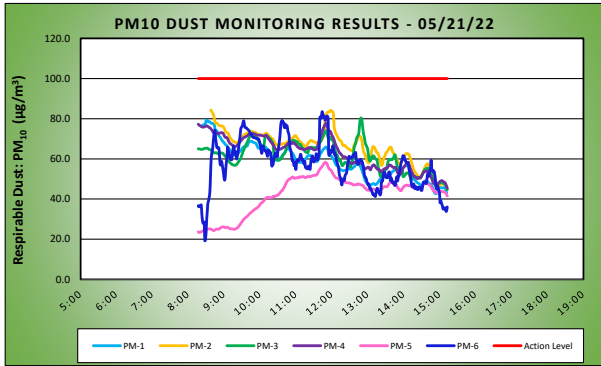


	DAILY AIR MONITORING REPORT		05/21/22	
	250 Water Street Remediation Site		Project number: 170381202	
	Manhattan, New York		Page 1 of 2	
			Submitted By:	
			Rev. No. 0	
		Dust Action Level ($\mu\text{g}/\text{m}^3$)		100
		VOC Action Level (ppm)		5
		Hg Action Level ($\mu\text{g}/\text{m}^3$)		1.0

Weather Data Range for Work Day		Wind Direction	SW	Relative Humidity (%)	39.6 - 87.1	Daily Rain (in)	0.00	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp (°F)	64.5 - 90.6	Wind Speed (MPH)	0.4 - 5.4	Barometer (inHg)	30.06 - 30.11			

Station Location Area	Work	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		58.6	79.4	8:31	0.0	0.0	8:23
PM-2		66.2	84.3	8:38	0.0	0.0	8:37
PM-3		61.3	80.4	12:49	0.5	2.8	14:23
PM-4		63.1	77.8	11:51	0.3	0.9	11:10
PM-5		42.0	58.3	11:49	0.1	0.2	12:49
PM-6		56.6	83.6	11:44	0.0	0.1	9:57

Station Location Area	Work	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		0.1	0.5	14:56
PM-2		0.0	0.0	8:38
PM-3		0.0	** 0.2	9:22
PM-4		0.1	0.7	13:02
PM-5		0.1	** 0.3	11:35
PM-6		0.0	0.0	12:40



Air Monitoring Notes:

- *Elevated concentrations of PM10 were generally observed throughout the work day and were attributed to poor air quality in New York City (listed as "Moderate" in the air quality index [AQI]). Work zone action levels are not included in the site CAMP, however, particulate concentrations exceeded the perimeter thresholds from 11:29am to 11:30am, 11:55am to 12:03pm, 12:32pm to 12:45pm and 2:46pm to 2:52pm during welding of steel walers to the interior of the steel sheet pile wall.
 - Work was temporarily halted in each instance and dust suppression was implemented by spraying exposed soil/fill with municipally supplied water.
 - CAMP PM10 action levels were not exceeded at the off-site PM-2 station throughout the work day.
 - No fugitive dust was observed to be leaving the site.
- **Instantaneous mercury vapor concentrations were recorded at concentrations ranging from 0.1 $\mu\text{g}/\text{m}^3$ to 1.2 $\mu\text{g}/\text{m}^3$ at perimeter CAMP station PM-3 (between 1:47pm and 1:52pm) and from 0.1 $\mu\text{g}/\text{m}^3$ to 0.7 $\mu\text{g}/\text{m}^3$ at perimeter CAMP station PM-5 (between 12:53pm and 1:04pm), which were located over 100 feet away from the work area along Water Street and Pearl Street, respectively. During this time, no ground-intrusive activities were ongoing at the site, however, work was halted at 1:05pm, Mercon-X was sprayed on exposed soil/fill and the work area was temporarily covered with polyethylene sheeting. The instantaneous mercury vapor concentrations did not result in a 15-minute time-weighted average exceedance of the CAMP action levels and the dedicated CAMP monitor investigated the elevated mercury vapor readings upon notification via the remote telemetry system.
 - The Jerome J405 mercury vapor analyzer within perimeter CAMP station PM-3 was disconnected and allowed to cool down from 1:53pm to 2:16pm. During this time, the handheld Jerome J505 unit was stationed at perimeter station PM-3 and mercury vapor concentrations ranged from 0.0 $\mu\text{g}/\text{m}^3$ to 0.1 $\mu\text{g}/\text{m}^3$. The Jerome J405 unit was reconnected and resumed data logging at 2:17pm.
 - The Jerome J405 mercury vapor analyzer within perimeter CAMP station PM-5 was disconnected and allowed to cool down from 1:05pm to 2:20pm. During this time, the work zone Jerome J505 unit was stationed at perimeter station PM-5 and mercury vapor concentrations ranged from 0.0 $\mu\text{g}/\text{m}^3$ to 1.2 $\mu\text{g}/\text{m}^3$. The Jerome J405 unit was reconnected and resumed data logging at 2:21pm.
 - The work zone Jerome J505 mercury vapor analyzer was observed to be recording consistently higher readings than the handheld unit and is anticipated to be replaced on Tuesday, May 24, 2022. - - The instantaneous reading of 1.2 $\mu\text{g}/\text{m}^3$ was recorded during a one-minute sampling interval and did not result in a 15-minute time-weighted average exceedance of the CAMP action level.
 - Work resumed at approximately 2:33pm, when mercury vapor concentrations were confirmed to return to background conditions.
- Langan used two handheld Jerome J505 mercury analyzers to monitor ambient air conditions throughout the site and within the work zone.
 - Instantaneous mercury vapor concentrations throughout the site ranged from 0.00 $\mu\text{g}/\text{m}^3$ to 0.05 $\mu\text{g}/\text{m}^3$.
 - Instantaneous mercury vapor concentrations within the work zone ranged from 0.0 $\mu\text{g}/\text{m}^3$ to 2.5 $\mu\text{g}/\text{m}^3$.
 - Intermittent instantaneous mercury vapor readings were recorded at concentrations ranging from 0.8 and 2.5 $\mu\text{g}/\text{m}^3$ during torch-cutting and welding activities using acetylene gas.
 - The intermittent instantaneous mercury vapor readings did not result in a 15-minute time-weighted average exceedance of the CAMP action level.
- Langan used a handheld 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.
 - The PID unit within perimeter CAMP station PM-3 was recalibrated at 1:35pm and 2:23pm due to elevated VOC readings while the handheld unit and other perimeter stations were recording concentrations ranging from 0.0 ppm to 0.2 ppm. VOC concentrations returned to background conditions after recalibration in each instance.
 - Perimeter air monitoring station PM-2 was relocated to the southern sidewalk of Water Street from 8:22am to 3:12pm.
 - 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 at 3:12pm at the conclusion of ground-intrusive activities.
 - Mercury vapor concentrations at each CAMP station were recorded at 0.00 $\mu\text{g}/\text{m}^3$.
 - VOC concentrations at each CAMP station were recorded at 0.0 ppm.

