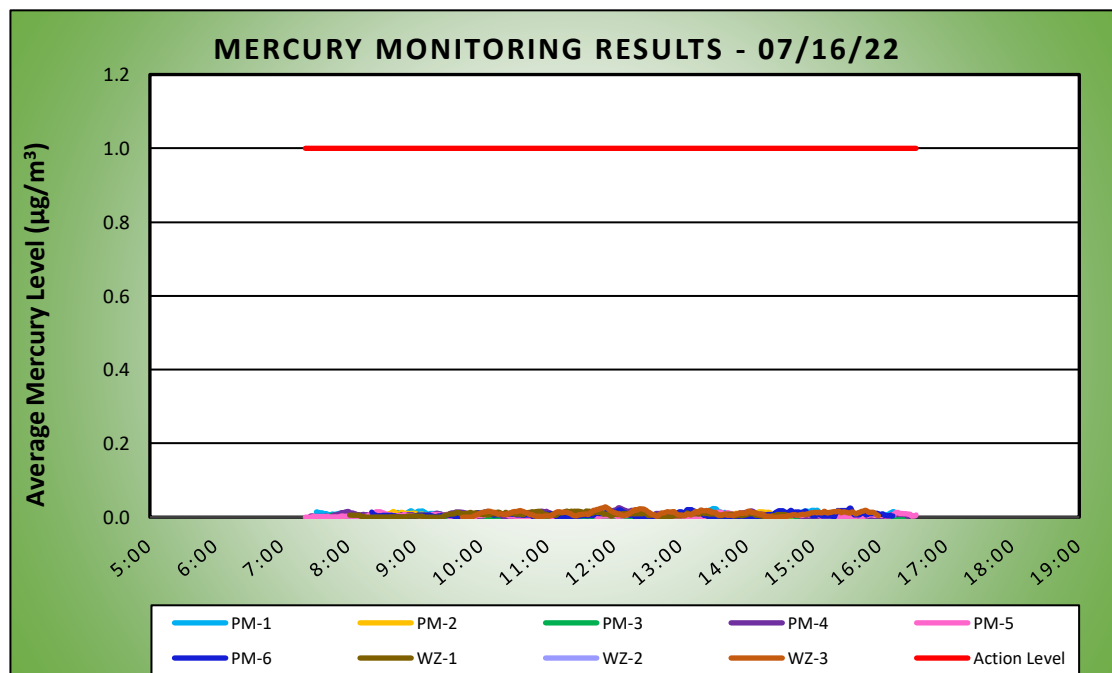
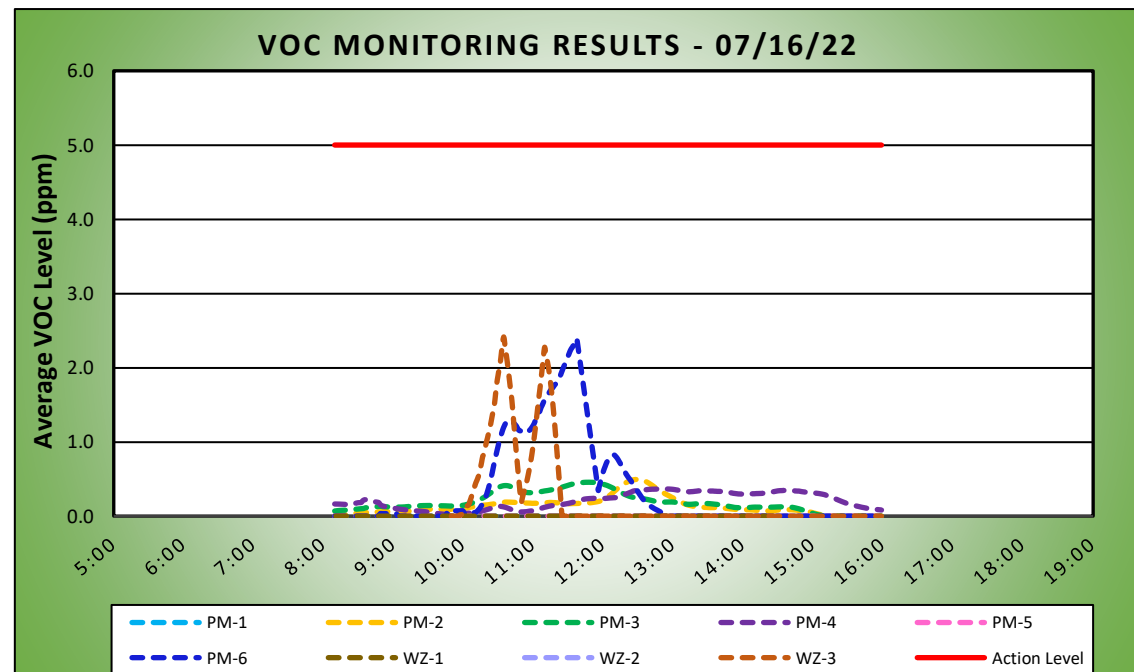
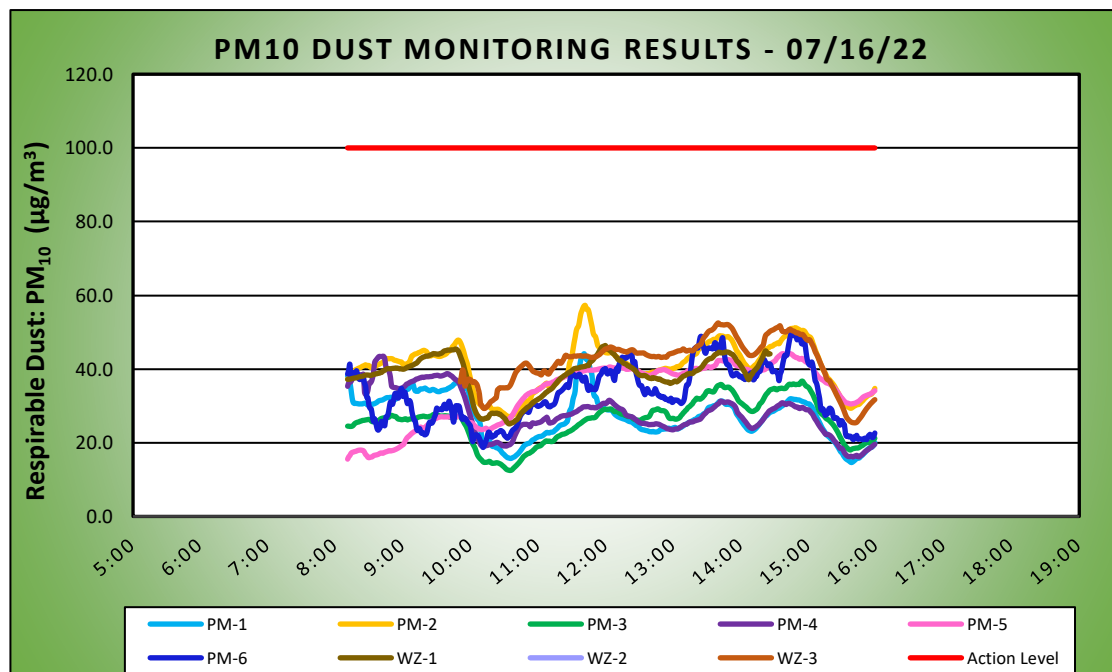


	DAILY AIR MONITORING REPORT 250 Water Street Remediation Site Manhattan, New York		07/16/22		
			Project number: 170381202		
			Page 1 of 2		Rev. No. 0
			Submitted By:		
			Dust Action Level ($\mu\text{g}/\text{m}^3$)		100
VOC Action Level (ppm)		5			
Hg Action Level ($\mu\text{g}/\text{m}^3$)		1.0			

Weather Data Range for Work Day		Wind Direction	SW	Relative Humidity (%)	48.1 - 71.0	Daily Rain (in)	0.00	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp (°F)	75.9 - 84.9	Wind Speed (MPH)	0.5 - 7.5	Barometer (inHg)	30.12 - 30.20			

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	27.3	44.2	11:41	0.0	0.0	8:11
PM-2	40.7	57.2	11:42	0.1	0.5	12:30
PM-3	26.0	36.7	14:54	0.2	0.5	11:48
PM-4	28.1	43.4	8:42	0.2	0.4	12:52
PM-5	33.1	44.2	14:43	0.0	0.0	8:10
PM-6	33.1	49.9	14:45	0.3	2.4	11:38
WZ-1	38.5	46.3	12:00	0.0	0.0	8:11
WZ-2	N/A	N/A	N/A	N/A	N/A	N/A
WZ-3	41.7	52.5	13:40	0.2	2.4	10:35

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	0.0	13:29
PM-2	0.0	0.0	8:41
PM-3	0.0	0.0	7:49
PM-4	0.0	0.0	12:04
PM-5	0.0	0.0	8:25
PM-6	0.0	0.0	15:33
WZ-1	0.0	0.0	11:35
WZ-2	N/A	N/A	N/A
WZ-3	0.0	0.0	11:52



Air Monitoring Notes:

Langan performed air monitoring at the perimeter of the site and at the work zone at eight total locations for mercury vapor, volatile organic compounds (VOCs), and particulate matter less than 10 microns in diameter (PM10), during ground-intrusive activities. There were no fifteen-minute average concentrations for mercury vapor, VOCs, or PM10 that approached or exceeded the action level established by the community air monitoring plan (CAMP) (1.0 $\mu\text{g}/\text{L}$, 5.0 ppm, and 0.1 mg/m^3 , respectively).

Background Concentrations

Prior to implementation of ground-intrusive work, instantaneous background concentrations of mercury vapor and VOCs were recorded using a handheld Jerome® J505 mercury vapor analyzer and a handheld PID, respectively.

- Background concentrations of mercury vapor at each CAMP station ranged from 0.00 to 0.01 $\mu\text{g}/\text{m}^3$.
- Background concentrations of VOCs at each CAMP station were recorded at 0.0 parts per million (ppm).

Ambient Air (Handheld Jerome® J505 and Handheld PID)

- The dedicated mobile monitor (Langan) used two handheld Jerome® J505 mercury vapor analyzers to monitor ambient air conditions at various heights throughout the site. Instantaneous mercury vapor concentrations throughout the site ranged from 0.00 $\mu\text{g}/\text{m}^3$ to 0.15 $\mu\text{g}/\text{m}^3$.

- The dedicated mobile monitor (Langan) used a handheld PID to monitor VOC concentrations throughout the site. Instantaneous VOC concentrations were at or below background concentrations throughout the work day.

Equipment Troubleshooting

- The PID at perimeter CAMP station PM-6 was recalibrated at 11:39am due to persistent readings of 2.4 ppm, which was inconsistent with readings on the handheld unit (0.0 ppm). Data logging resumed at 11:41am and VOC concentrations returned to background conditions following equipment recalibration. Odors were not observed migrating off-site during this time.

Off-Site CAMP Station Relocation

- CAMP station WZ-1 was relocated to the eastern sidewalk of Peck Slip from 7:56am to 2:26pm during removal of UST contents in the eastern part of the site.
- CAMP station WZ-3 was relocated to the northern sidewalk of Pearl Street from 9:36am to 3:59pm during excavation and backfill of test pits along northern boundary of site.

Prior to CAMP Shutdown

Prior to discontinuing the CAMP, air quality at each CAMP station was verified using the handheld PID and Jerome® J505 mercury vapor analyzer and there were either no readings or no readings above background concentrations recorded. Additionally, areas of exposed soil were covered with polyethylene sheeting and/or Atmos® AC-645 dust/vapor suppressing foam. CAMP stations (with the exception of station WZ-1) were discontinued at 3:59pm at the conclusion of ground-intrusive activities. CAMP station WZ-1 was discontinued at 2:26pm at the conclusion of UST removal activities within 20 feet of the eastern fence line.

- Mercury vapor concentrations at each CAMP station ranged from 0.00 to 0.02 $\mu\text{g}/\text{m}^3$.
- VOC concentrations at each CAMP station ranged from 0.0 to 0.2 ppm.



