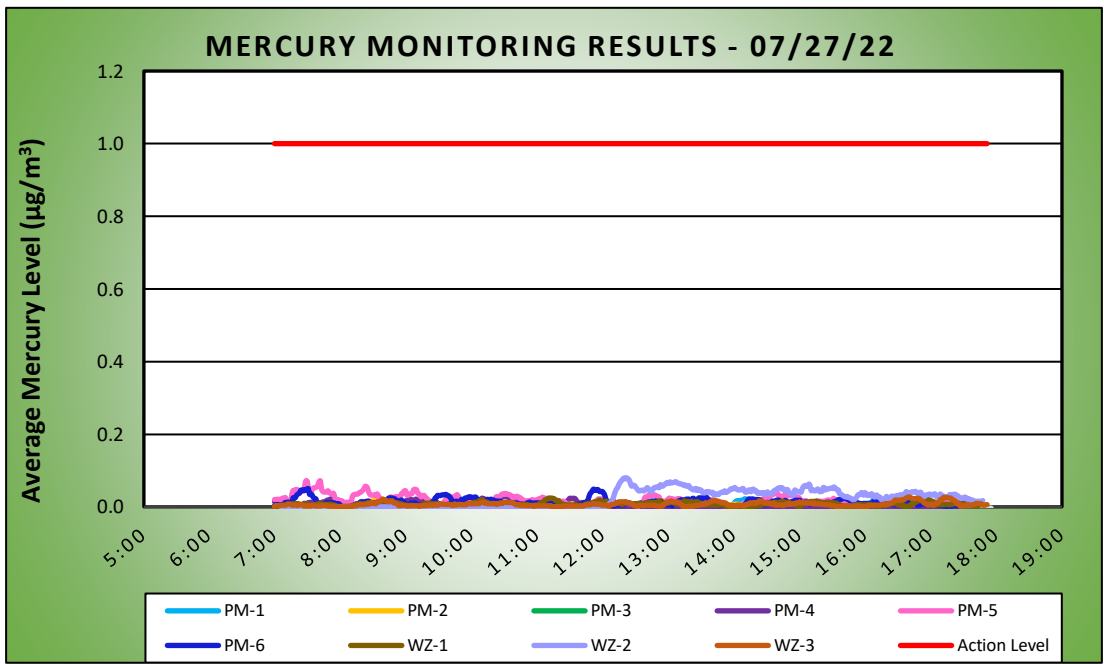
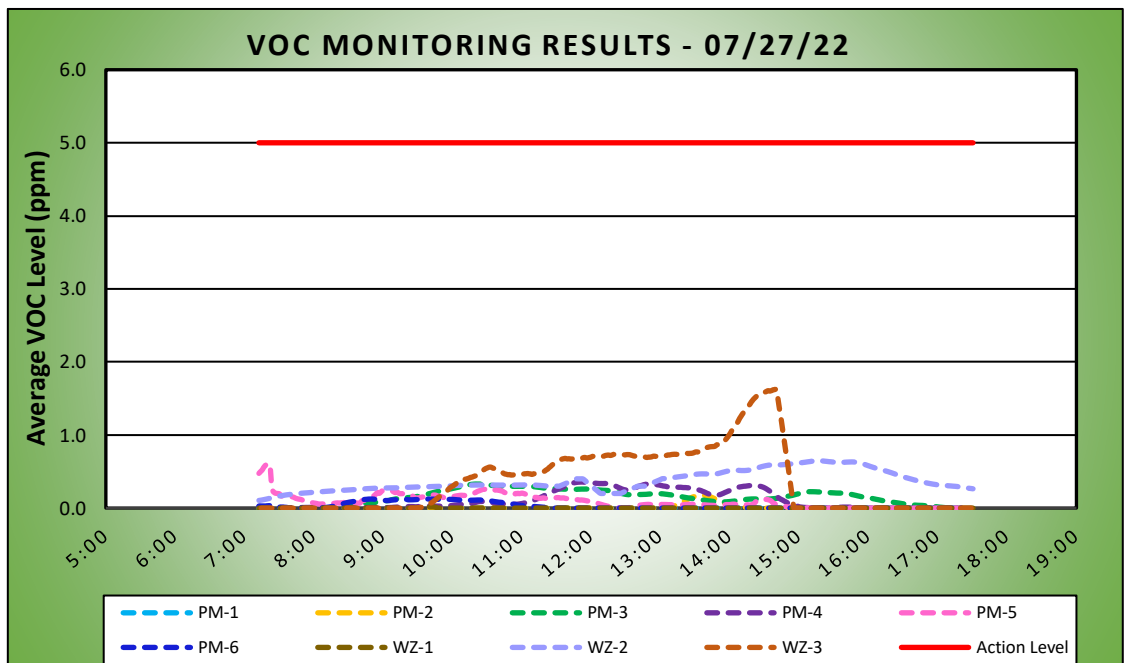
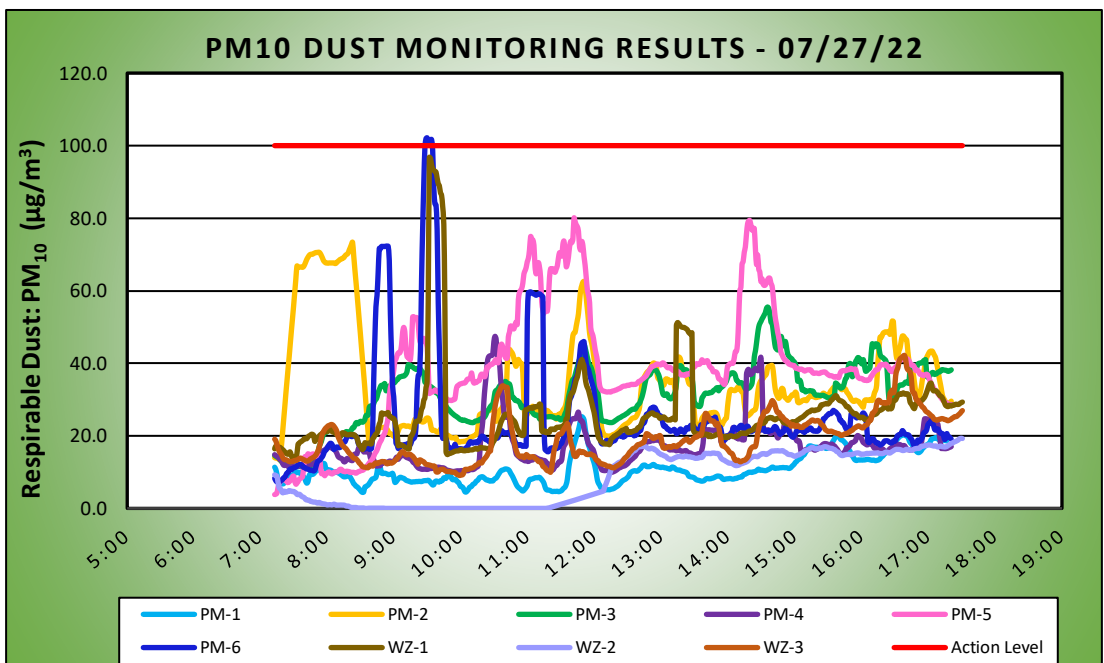


	<b>DAILY AIR MONITORING REPORT</b> <b>250 Water Street Remediation Site</b> <b>Manhattan, New York</b>		07/27/22	
			Project number: 170381202	
			Page 1 of 2	Rev. No. 0
			Submitted By:	
			Dust Action Level (µg/m³)	100
			VOC Action Level (ppm)	5
			Hg Action Level (µg/m³)	1.0

Weather Data Range for Work Day		Wind Direction	N	Relative Humidity (%)	43.4 - 48.6	Daily Rain (in)	0.00	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp (°F)	75.2 - 78.0	Wind Speed (MPH)	0.5 - 4.0	Barometer (inHg)	30.04 - 30.04			

Station Location Work Area	Daily Avg. Dust Concentration (µg/m³)	Max 15 Minute Dust Concentration (µg/m³)	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	10.9	25.3	11:49	0.0	0.0	14:27
PM-2	34.0	73.3	8:23	0.0	0.2	13:37
PM-3	31.4	55.5	14:36	0.1	0.3	10:21
PM-4	17.2	47.4	10:31	0.1	0.4	11:53
PM-5	37.6	80.0	11:42	0.1	0.6	7:21
PM-6	24.3	* 102.2	9:30	0.0	0.1	8:51
WZ-1	25.6	96.8	9:32	0.0	0.0	9:33
WZ-2	8.9	19.3	17:30	0.4	0.6	15:17
WZ-3	19.0	42.2	16:39	0.4	1.6	14:40

Station Location Work Area	Daily Avg. Mercury Concentration (µg/m³)	Max 15 Minute Mercury Concentration (µg/m³)	Time of Max 15 Minute Avg Mercury Reading
PM-1	0.01	0.02	14:10
PM-2	0.01	0.02	8:39
PM-3	0.00	0.01	8:01
PM-4	0.01	0.03	10:30
PM-5	0.02	0.07	7:29
PM-6	0.01	0.05	7:30
WZ-1	0.01	0.03	16:56
WZ-2	0.02	0.08	12:22
WZ-3	0.01	0.03	16:40



**Air Monitoring Notes:**

Langan performed air monitoring at the perimeter of the site and at work zones at nine total locations for mercury vapor, 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 or VOCs that approached or exceeded the action level established by the CAMP (1.00 µg/m³ and 5.0 ppm, 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 at 0.00 to 0.03 µg/m³.
- Background concentrations of VOCs at each CAMP station were recorded at 0.0 ppm.

**Perimeter and Work Zone Concentrations**

- \* PM10 concentrations at perimeter CAMP station PM-6 exceeded the action level established in the CAMP (0.100 mg/m3) from 9:29am to 9:34am (6 minutes). The exceedance was caused by exhaust from a truck exiting the site following delivery of tie-backs for the SOE system. Fugitive dust was not observed migrating from the site during this time.

**Equipment Troubleshooting**

- PM10 concentrations at off-site CAMP station WZ-2 (located along the Peck Slip sidewalk) were not recorded from 11:19am to 11:52am due to a depleted battery. Upon notification that off-site CAMP station WZ-2 was not transmitting data, the dedicated CAMP monitor investigated the station and observed that the telemetry case and Jerome® J505 unit was stolen. A Jerome® J405 unit was stationed with off-site CAMP station WZ-2 prior to the start of work and a spare Jerome® J505 was placed atop the station for the remainder of the day. The Daily Air Monitoring Report reflects mercury vapor data using the Jerome® J405 from 6:51am to 12:06pm and the Jerome® J505 from 12:06pm to 5:31pm. Following coordination with the New York City Police Department, the depleted battery at off-site CAMP station WZ-2 was replaced and data logging for PM10 resumed at 11:53am. Perimeter CAMP station PM-4 was located between the work area and off-site CAMP station WZ-2 during this time and PM10 concentrations were not recorded above background conditions.

**Ambient Air (Handheld Jerome® J505 and Handheld PID)**

- The dedicated mobile monitor (Langan) used a handheld Jerome® J505 mercury vapor analyzer to monitor ambient air conditions at various heights throughout the site. Instantaneous mercury vapor concentrations throughout the site ranged from 0.00 µg/m³ to 0.85 µg/m³ (mercury vapor concentrations above background conditions are associated with ambient air screening during excavation activities in the mercury-impacted area). There were no 15-minute time-weighted average (TWA) concentrations for mercury vapor that exceeded the action level established in the CAMP at any perimeter or work zone CAMP station.
- The dedicated mobile monitor (Langan) used a handheld PID to monitor VOC concentrations throughout the site. VOC concentrations were at or below background concentrations throughout the work day.

**Off-Site CAMP Station Relocation**

- CAMP station WZ-1 was relocated to the northern sidewalk of Pearl Street from 6:58am to 5:31pm during excavation activities and SOE soldier pile installation along the northern boundary of the site.
- CAMP station WZ-2 was relocated to the eastern sidewalk of Peck Slip from 6:58am to 5:31pm during installation of SOE soldier piles along the eastern boundary of the site.
- CAMP station WZ-3 was relocated to the southern sidewalk of Water Street from 7:00am to 5:31pm during test pit excavation and installation of the perimeter construction fence along the southern boundary of the site.

**Prior to CAMP Shutdown**

Prior to discontinuing CAMP, air quality at each CAMP station was verified using the handheld PID and handheld Jerome® J505 mercury vapor analyzer and no readings above background concentrations were recorded. Additionally, areas of exposed soil/fill were covered with polyethylene sheeting and/or Atmos® AC-645 dust/vapor suppressing foam. CAMP stations were discontinued between 5:17pm and 5:31pm at the conclusion of ground-intrusive activities.

- Mercury vapor concentrations at each CAMP station were recorded at 0.02 µg/m³.
- VOC concentrations at each CAMP station were recorded at 0.0 ppm.

