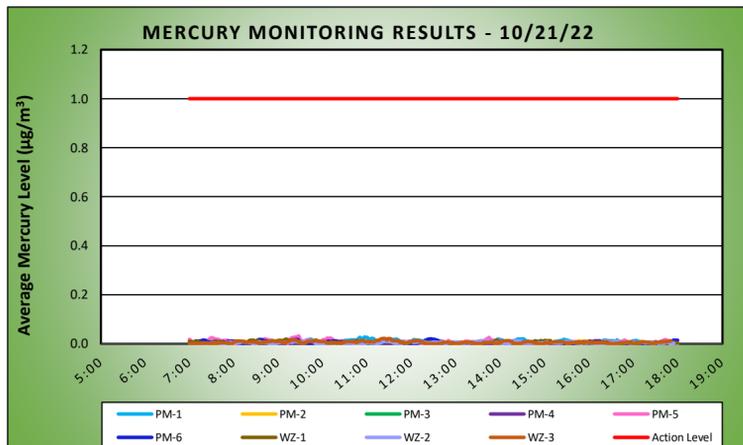
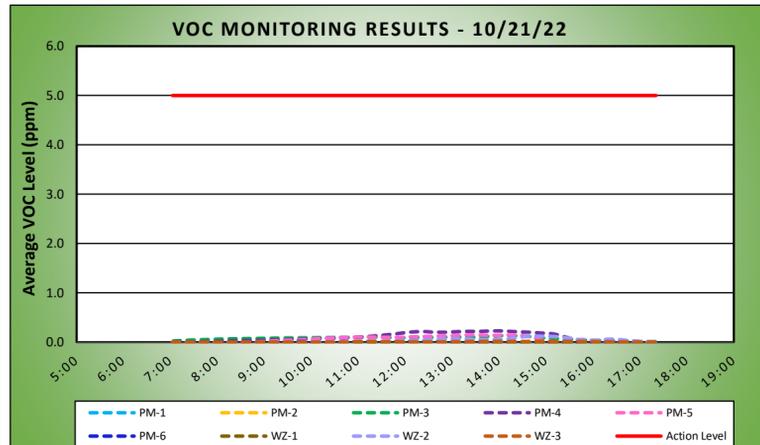
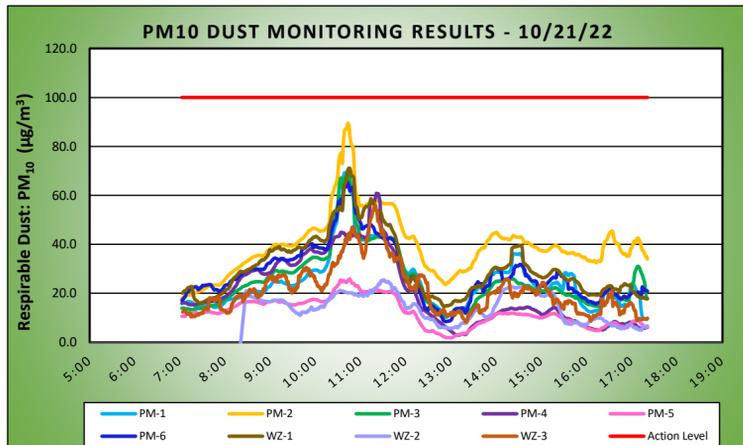


	<b>DAILY AIR MONITORING REPORT</b>				10/21/22	
	<b>250 Water Street Remediation Site</b>				Project number: 170381202	
	<b>Manhattan, New York</b>				Page 1 of 2	
					Submitted By:	
					Rev. No. 0	
					Dust Action Level ( $\mu\text{g}/\text{m}^3$ )	
				100		
				VOC Action Level (ppm)		
				5		
				Hg Action Level ( $\mu\text{g}/\text{m}^3$ )		
				1.0		

Weather Data Range for Work Day		Wind Direction	NE	Relative Humidity (%)	18.6 - 61.7	Daily Rain (in)	0.00	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp (°F)	50.7 - 64.2	Wind Speed (MPH)	0.4 - 5.4	Barometer (inHg)	30.16 - 30.23			

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		24.8	70.1	10:43	0.0	0.0	7:03
PM-2		39.3	89.3	10:44	0.0	0.0	7:03
PM-3		25.2	70.6	10:44	0.1	0.1	14:10
PM-4		20.7	60.8	11:22	0.1	0.2	14:00
PM-5		12.2	25.8	10:46	0.1	0.1	13:29
PM-6		27.8	65.3	10:43	0.0	0.0	12:07
WZ-1		30.3	71.2	10:45	0.0	0.0	7:03
WZ-2		8.1	25.4	11:31	0.0	0.1	14:44
WZ-3		21.2	55.9	11:20	0.0	0.0	14:47

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		0.01	0.03	10:57
PM-2		0.00	0.01	8:59
PM-3		0.00	0.01	9:51
PM-4		0.00	0.01	16:09
PM-5		0.01	0.03	9:27
PM-6		0.01	0.02	12:26
WZ-1		0.01	0.02	9:11
WZ-2		0.00	0.01	14:17
WZ-3		0.01	0.02	11:22



**Air Monitoring Notes:**

Langan performed air monitoring at the perimeter of the site and at work zones at nine 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 levels established by the CAMP (1.00  $\mu\text{g}/\text{m}^3$ , 5.0 parts per million [ppm], and 0.100  $\text{mg}/\text{m}^3$  respectively).

Background Concentrations

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

- Background concentrations of mercury vapor at each CAMP station ranged from 0.00  $\mu\text{g}/\text{m}^3$  to 0.10  $\mu\text{g}/\text{m}^3$ .
- Background concentrations of VOCs at each CAMP station were recorded at 0.0 ppm.

Equipment Troubleshooting

- The PM10 concentration was not recorded at off-site CAMP station WZ-2 at 8:12am during equipment recalibration due to persistent negative readings being recorded by the DustTrak unit. Data logging for PM10 resumed at 8:13am following recalibration of the unit. Fugitive dust was not observed migrating from the site during this time.
- PM10 concentrations were intermittently not recorded at perimeter CAMP station PM-4 between 12:23pm and 12:51pm due to a loose connection from the external battery to the CAMP station. Data logging for PM10 resumed at 12:52pm after replacement of the cable. Fugitive dust was not observed migrating from the site during this time.

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  $\mu\text{g}/\text{m}^3$  to 0.11  $\mu\text{g}/\text{m}^3$ .
- 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.

CAMP Station Relocation

- CAMP station WZ-1 was relocated to the northern sidewalk of Pearl Street from 6:49am to 5:21pm during backfilling activities in the north-central part of the site.
- CAMP station WZ-2 was relocated to the eastern sidewalk of Peck Slip from 6:49am to 5:21pm during backfilling activities in the southeastern part of the site
- CAMP station WZ-3 was relocated to the southern sidewalk of Water Street from 6:49am to 5:21pm during backfilling activities in the south-central and southeastern parts 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. CAMP stations were discontinued at 5:21pm 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.

