



DAILY AIR MONITORING REPORT

250 Water Street Remediation Site

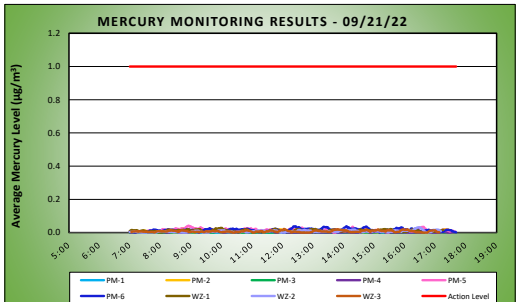
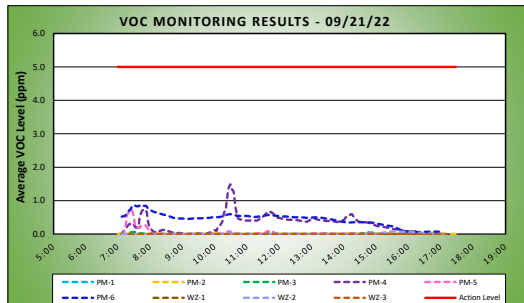
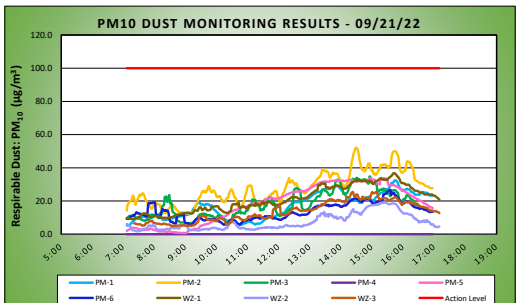
Manhattan, New York

09/21/22	
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	W	Relative Humidity (%)	46.8 - 74.7	Daily Rain (in)	0.00	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp (°F)	65.3 - 80.7	Wind Speed (MPH)	0.4 - 6.1	Barometer (inHg)	29.91 - 30.05			

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	16.9	32.5	15:46	0.0	0.0	7:06
PM-2	27.6	52.1	14:29	0.0	0.0	14:12
PM-3	17.8	34.9	14:56	0.0	0.1	11:41
PM-4	0.0	0.0	7:07	0.3	1.5	10:29
PM-5	18.1	33.8	15:17	0.0	0.7	7:26
PM-6	13.5	26.7	15:36	0.4	0.9	7:29
WZ-1	20.9	36.9	15:43	0.0	0.0	13:26
WZ-2	7.3	19.1	15:22	0.0	0.1	15:33
WZ-3	13.5	25.5	14:23	0.0	0.0	10:34

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	0.00	0.01	11:43
PM-2	0.01	0.03	8:44
PM-3	0.00	0.01	16:52
PM-4	0.00	0.02	9:28
PM-5	0.02	0.04	8:56
PM-6	0.02	0.04	12:22
WZ-1	0.01	0.03	9:58
WZ-2	0.01	0.03	16:26
WZ-3	0.01	0.02	12:02



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, VOCs, or PM10 that approached or exceeded the action levels established by the CAMP (1.00 $\mu\text{g}/\text{m}^3$, 5.0 ppm, and 0.100 mg/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 PID, respectively.

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

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 0.16 $\mu\text{g}/\text{m}^3$.

The dedicated mobile monitor (Langan) used a handheld PID to monitor VOC concentrations throughout the site. Instantaneous VOC concentrations of ambient air around the excavation area in the southeastern part of the site ranged from 0.0 ppm to 33.8 ppm. Exposed soil/fill was actively sprayed with Atmos® AC-645 dust/vapor suppressing foam during excavation and loading of trucks, and during periods of inactivity. VOC concentrations at perimeter and off-site CAMP stations did not exceed the action level established in the CAMP (5.0 ppm) throughout the work day.

CAMP Station Relocation

- CAMP station WZ-3 was relocated to the northern sidewalk of Pearl Street from 6:52am to 5:10pm due to exposed soil/fill within 20 feet of the northern site boundary.
- CAMP station WZ-2 was relocated to the eastern sidewalk of Peck Slip from 6:52am to 5:10pm during excavation activities in the southeastern part of the site.
- CAMP station WZ-3 was relocated to the southern sidewalk of Water Street from 7:06am to 5:08pm during excavation activities in the southeastern part 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 sequentially from 4:57pm to 5:10pm 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 0.07 $\mu\text{g}/\text{m}^3$.
- VOC concentrations at each CAMP station were recorded at 0.0 ppm.



