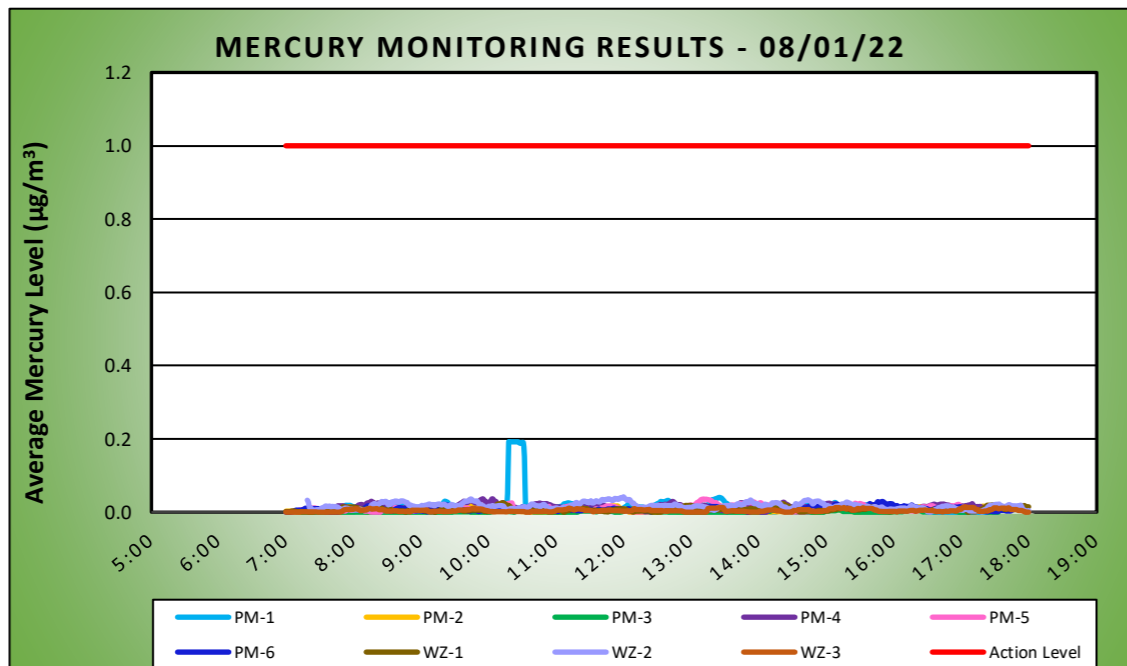
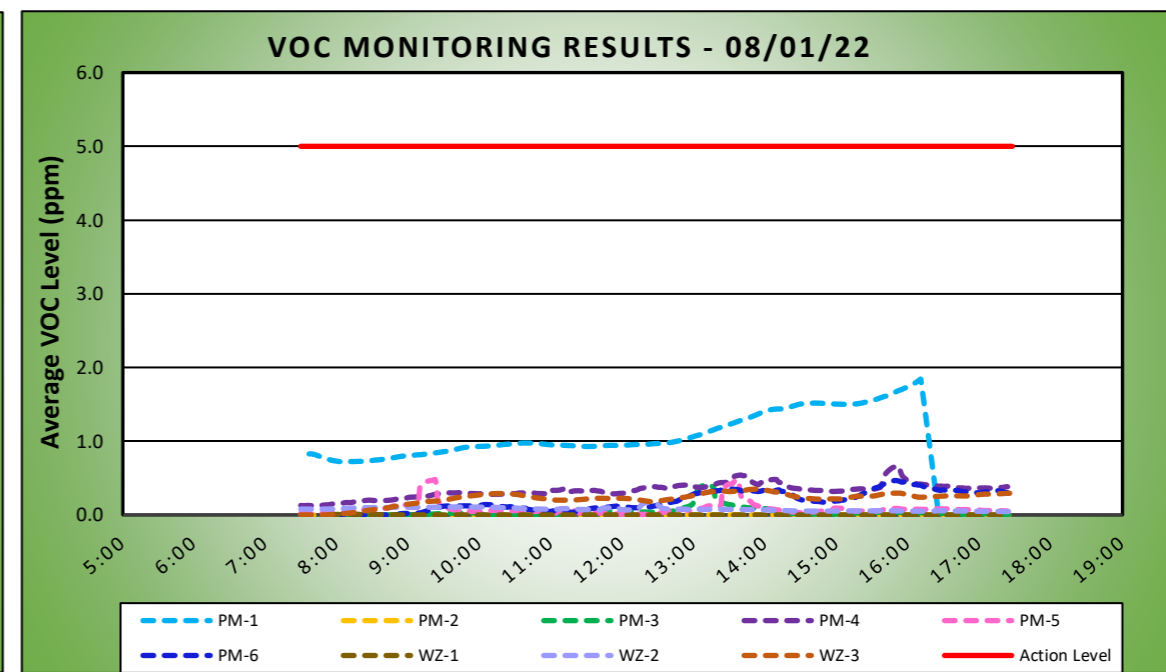
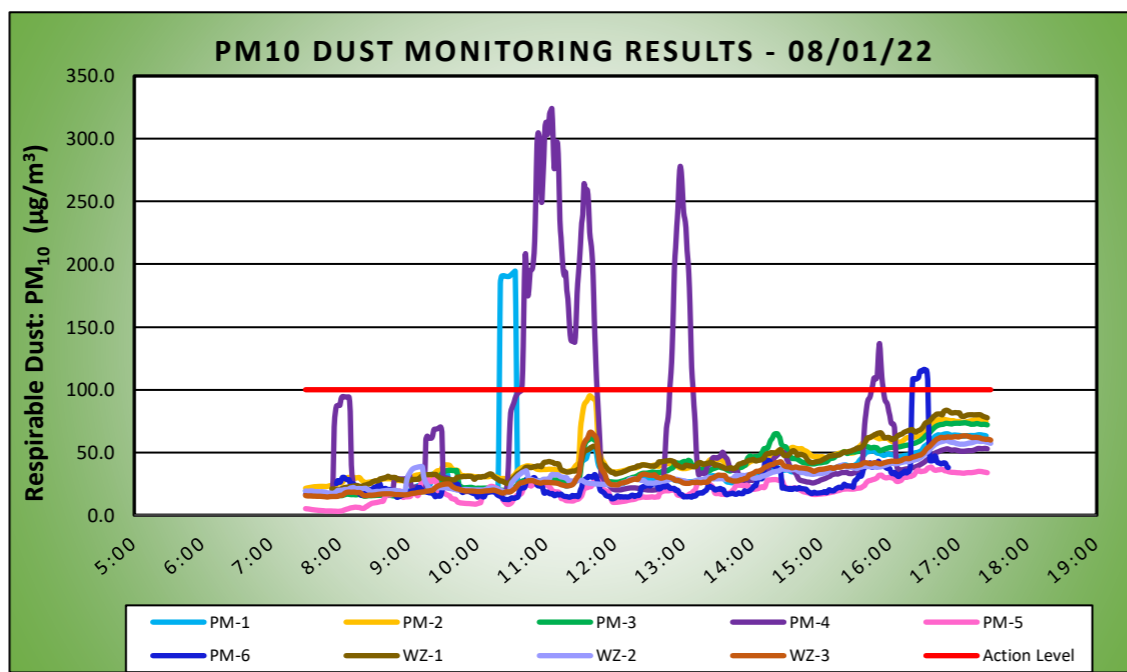


|   |  |  |  |  |                           |     |
|---|--|--|--|--|---------------------------|-----|
|  | <b>DAILY AIR MONITORING REPORT</b>       |  |  |  | 08/01/22                  |     |
|   | <b>250 Water Street Remediation Site</b> |  |  |  | Project number: 170381202 |     |
|   | <b>Manhattan, 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 (%) | 82.0 - 92.0   | Daily Rain (in) | 0.01 | Readings in the summary table and graphs below are the reported downwind concentrations. |
| Temp ( $^{\circ}\text{F}$ )     | 69.0 - 74.0 | Wind Speed (MPH) | 0.0 - 8.1 | Barometer (inHg)      | 29.90 - 30.00 |                 |      |  |

| 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                       | 37.1   | 194.4   | 10:33                                      | 1.0                                | 1.8                                   | 16:11                                 |
| PM-2                       | 44.2   | 95.3  | 11:38                                      | 0.0                                | 0.0                                   | 7:32                                  |
| PM-3                       | 38.5   | 73.7  | 17:05                                      | 0.0                                | 0.4                                   | 13:12                                 |
| PM-4                       | 64.2   | 323.9   | 11:05                                      | 0.3                                | 0.7                                   | 15:52                                 |
| PM-5                       | 19.6   | 38.4  | 16:36                                      | 0.1                                | 0.5                                   | 9:23                                  |
| PM-6                       | 25.4   | 116.2   | 16:30                                      | 0.2                                | 0.5                                   | 15:50                                 |
| WZ-1                       | 44.1   | 83.7  | 16:49                                      | 0.0                                | 0.0                                   | 8:11                                  |
| WZ-2                       | 31.4   | 59.6  | 16:49                                      | 0.1                                | 0.2                                   | 12:26                                 |
| WZ-3                       | 32.2   | 66.2  | 11:39                                      | 0.2                                | 0.4                                   | 13:52                                 |

| 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                       | 0.02  | 0.19   | 10:18                                     |
| PM-2                       | 0.01  | 0.02   | 9:49                                      |
| PM-3                       | 0.00  | 0.01   | 17:10                                     |
| PM-4                       | 0.02  | 0.04   | 9:55                                      |
| PM-5                       | 0.01  | 0.04   | 13:11                                     |
| PM-6                       | 0.01  | 0.03   | 15:50                                     |
| WZ-1                       | 0.01  | 0.03   | 10:12                                     |
| WZ-2                       | 0.02  | 0.04   | 12:00                                     |
| WZ-3                       | 0.00  | 0.01   | 17:03                                     |



**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 or VOCs that approached or exceeded the action level established by the CAMP (1.00  $\mu\text{g}/\text{m}^3$  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 0.00 to 0.02  $\mu\text{g}/\text{m}^3$ .
- 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-1 exceeded the action level established in the CAMP (0.100  $\text{mg}/\text{m}^3$ ) from 10:20am to 10:34am (15 minutes). The exceedance was caused by exhaust from a truck exiting the site following delivery of timber planks for the SOE system. Fugitive dust was not observed migrating from the site during this time.
- \*\* PM10 concentrations at perimeter CAMP station PM-4 exceeded the action level established in the CAMP from 10:39am to 11:44am (66 minutes), 12:48pm to 1:08pm (21 minutes), and 3:44pm to 3:54pm (11 minutes). The exceedances were caused by welding activities adjacent to perimeter CAMP station PM-4 along the eastern boundary of the site and were not the result of ground-intrusive activities at the site. The CAMP station was not able to be moved due to limited space along the eastern site boundary. Fugitive dust was not observed migrating from the site during each of these times.
- \*\*\* PM10 concentrations at perimeter CAMP station PM-6 exceeded the action level established in the CAMP from 4:20pm to 4:33pm (14 minutes). The exceedance was caused by welding activities adjacent to perimeter CAMP station PM-6 and was not the result of ground-intrusive activities at the site. 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 0.09  $\mu\text{g}/\text{m}^3$ .
- 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 7:38am to 5:25pm during excavation activities in the north-central and northeastern parts of the site.
- CAMP station WZ-2 was relocated to the southern sidewalk of Water Street from 7:15am to 5:28pm due to exposed soil/fill within 20 feet of the southern fence line.
- CAMP station WZ-3 was relocated to the eastern sidewalk of Peck Slip from 7:15am to 5:28pm during excavation activities in the northeastern 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 between 4:51pm and 5:28pm 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 0.02  $\mu\text{g}/\text{m}^3$ .
- VOC concentrations at each CAMP station were recorded at 0.0 ppm.

