LANGAN
ENGINEERING & ENVIRONMENTAL SERVICES

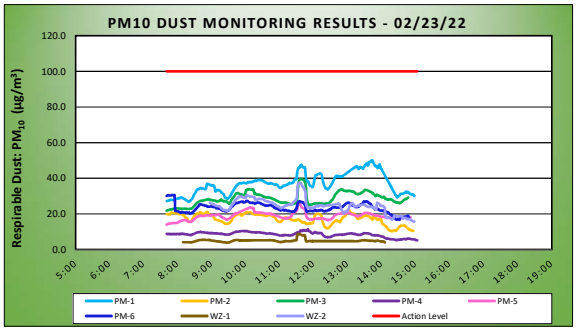
# DAILY AIR MONITORING REPORT
## 250 Water Street Remediation Site
### Manhattan, New York

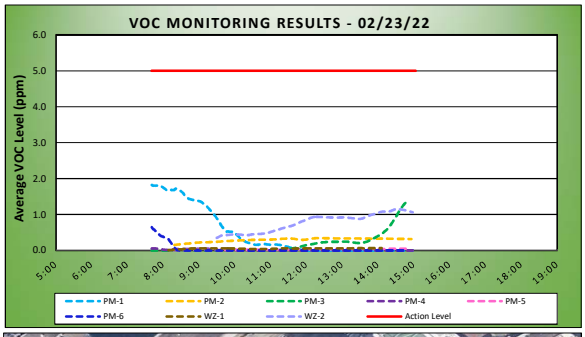
| | |
|---|---|
| 02/23/22 | |
| Project number: 170381202 | |
| Page 1 of 2 | Rev. No. 0 |
| Submitted By: | |
| Dust Action Level (µg/m³) | 100 |
| VOC Action Level (ppm) | 5 |
| Hg Action Level (µg/m³) | 1.0 |

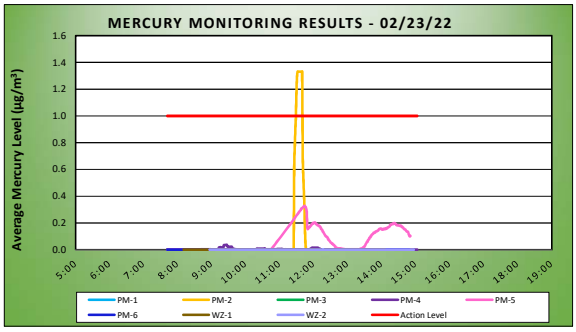
| Weather Data Range for Work Day | | Wind Direction | NNE | Relative Humidity (%) | 33.7 - 84.0 | Daily Rain (in) | 0.05 | Readings in the summary table and graphs below are the reported downwind concentrations. |
|---|---|---|---|---|---|---|---|---|
| Temp (°F) | 58.4 - 68.0 | Wind Speed (MPH) | 0.5 - 7.0 | Barometer (inHg) | 29.95 - 30.00 | | | |

| 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 | 36.6 | 50.2 | 13:43 | 0.5 | 1.8 | 7:41 |
| PM-2 | 17.1 | 22.4 | 13:02 | 0.3 | 0.3 | 12:21 |
| PM-3 | 28.5 | 39.7 | 11:38 | 0.2 | 1.3 | 14:47 |
| PM-4 | 8.5 | 11.4 | 11:50 | 0.0 | 0.1 | 7:42 |
| PM-5 | 18.7 | 25.8 | 11:35 | 0.0 | 0.0 | 14:29 |
| PM-6 | 23.3 | 30.6 | 7:50 | 0.0 | 0.6 | 7:41 |
| WZ-1 | 5.0 | 8.7 | 11:34 | 0.1 | 0.1 | 13:29 |
| WZ-2 | 24.5 | 37.4 | 11:36 | 0.8 | 1.1 | 14:34 |

| 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 | 0.0 | 0.0 | 7:42 |
| PM-2 | 0.0 | * 1.3 | 11:32 |
| PM-3 | 0.0 | 0.0 | 7:42 |
| PM-4 | 0.0 | 0.0 | 9:27 |
| PM-5 | 0.1 | 0.3 | 11:44 |
| PM-6 | 0.0 | 0.0 | 7:42 |
| WZ-1 | 0.0 | 0.0 | 8:11 |
| WZ-2 | 0.0 | 0.0 | 8:57 |



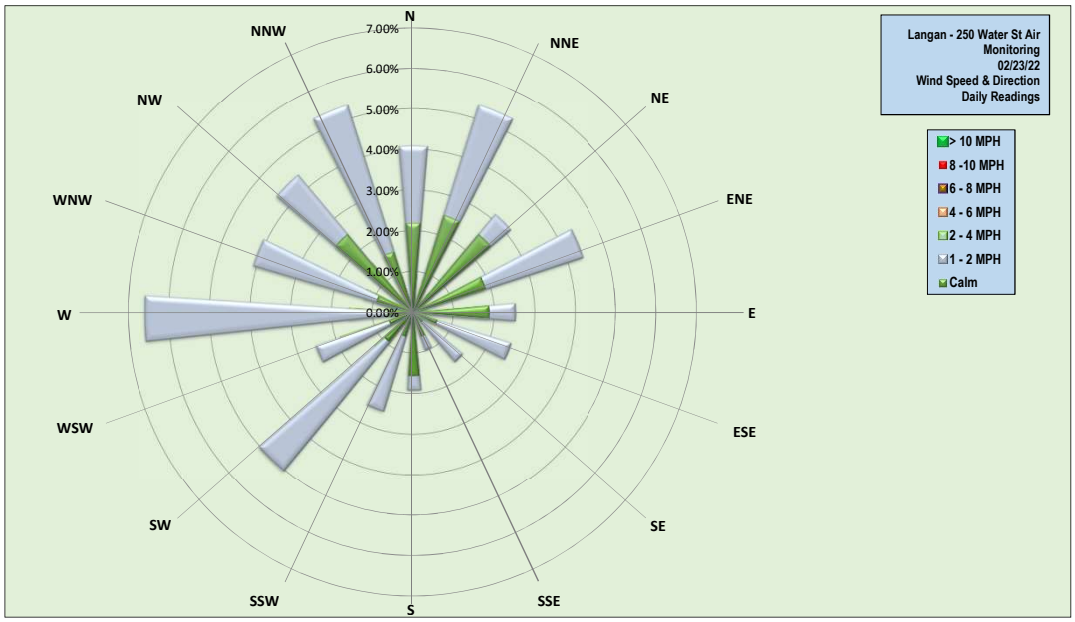





**Air Monitoring Notes:**

* • Mercury vapor concentrations exceeded the action level established in the CAMP from 11:29am to 11:40am at perimeter station PM-2, located along Beekman Street. The exceedances were determined to be erroneous high readings resulting from an equipment malfunction and not a result of ground-intrusive activities associated with drilling activities.
  - o Instantaneous mercury vapor concentrations within the two work zones during this time were collected using the handheld Jerome® J505 mercury analyzer and readings ranged from 0.00 µg/mg³ to 0.07 µg/mg³ throughout these time periods.
  - o The work zone stations (WZ-1 and WZ-2) remained at 0.00 µg/mg³ throughout this time period.
  - o Instantaneous readings on the PM-2 Jerome® J405 unit ranged from 0.5 µg/mg³ to 9.3 µg/mg³. After notification of the elevated readings, work was temporarily halted to investigate the exceedances. The CAMP monitor collected Jerome® J505 readings at the station intake for about 15 minutes and the Jerome® J405 continued to read 0.0 µg/mg³ for the remainder of the operation.
- Langan used a Jerome® J505 mercury analyzer to monitor ambient air conditions in two work zones and throughout the site. Instantaneous mercury vapor concentrations ranged from 0.01 µg/m3 to 0.20 µg/m³.
- Perimeter air monitoring station PM-3 was relocated to the eastern sidewalk of Peck Slip from 8:15am to 8:37am during advancement of soil boring WC10D.
- Perimeter air monitoring station PM-5 was relocated to the northern sidewalk of Pearl Street from 9:48am to 10:47am during advancement of soil boring WC05C.
- Perimeter air monitoring station PM-1 was relocated to the northern sidewalk of Pearl Street from 12:42pm to 2:02pm during advancement of soil boring WC04A.
- Prior to discontinuing the CAMP at the conclusion of ground-intrusive activities, VOC and mercury vapor concentrations were confirmed to return to background conditions at each perimeter station.

EMILCOTT
environmental, health & safety experts


Langan - 250 Water St Air Monitoring
02/23/22
Wind Speed & Direction
Daily Readings
> 10 MPH
8 -10 MPH
6 - 8 MPH
4 - 6 MPH
2 - 4 MPH
1 - 2 MPH
Calm
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
7.00%
6.00%
5.00%
4.00%
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