LANGAN
ENGINEERING & ENVIRONMENTAL SERVICES

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

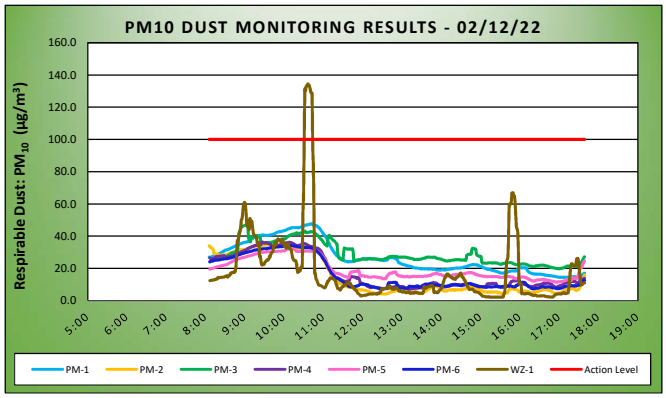
02/12/22	
Project number: 170381202	
Page 1 of 2	Rev. No. 0
Submitted By: Michael Au	
Dust Background & Action Level (µg/m³)	100
VOC Background & Action Level (ppm)	5
Hg Background & Action Level (µg/m³)	1.0

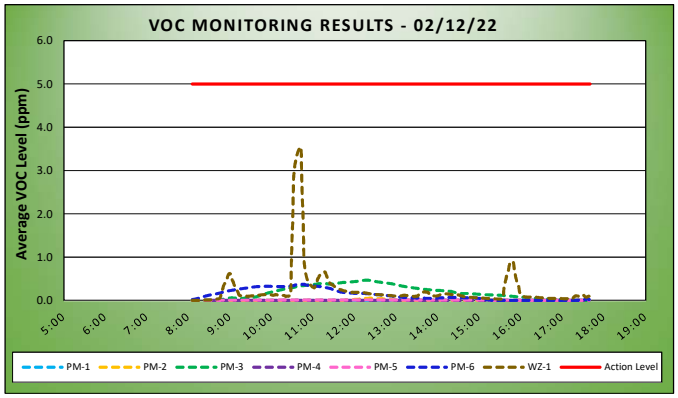
Weather Data Range for Work Day		Wind Direction	SSW	Relative Humidity (%)	30.4 - 48.0	Daily Rain (in)	0.00
Temp (°F)	53.4 - 59.3	Wind Speed (MPH)	1.1 - 6.0	Barometer (inHg)	29.95 - 30.01		

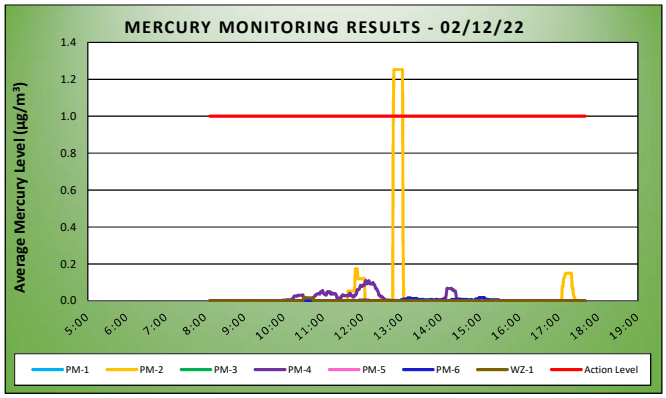
Readings in the summary table and graphs below are the reported downwind concentrations.

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	26.5	47.6	10:42 AM	0.0	0.0	8:06 AM
PM-2	15.0	34.9	9:34 AM	0.0	0.1	12:24 PM
PM-3	28.9	48.0	9:04 AM	0.2	0.5	12:18 PM
PM-4	17.2	36.4	9:27 AM	0.0	0.0	9:24 AM
PM-5	19.3	32.2	10:09 AM	0.0	0.0	12:21 PM
PM-6	16.1	34.1	10:10 AM	0.1	0.4	10:45 AM
WZ-1	17.3	134.4	10:37 AM	0.2	3.5	10:42 AM

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	8:32 AM
PM-2	0.0	* 1.3	12:48 PM
PM-3	0.0	0.0	8:07 AM
PM-4	0.0	0.1	12:05 PM
PM-5	0.0	0.0	8:07 AM
PM-6	0.0	0.0	2:58 PM
WZ-1	0.0	0.0	10:30 AM





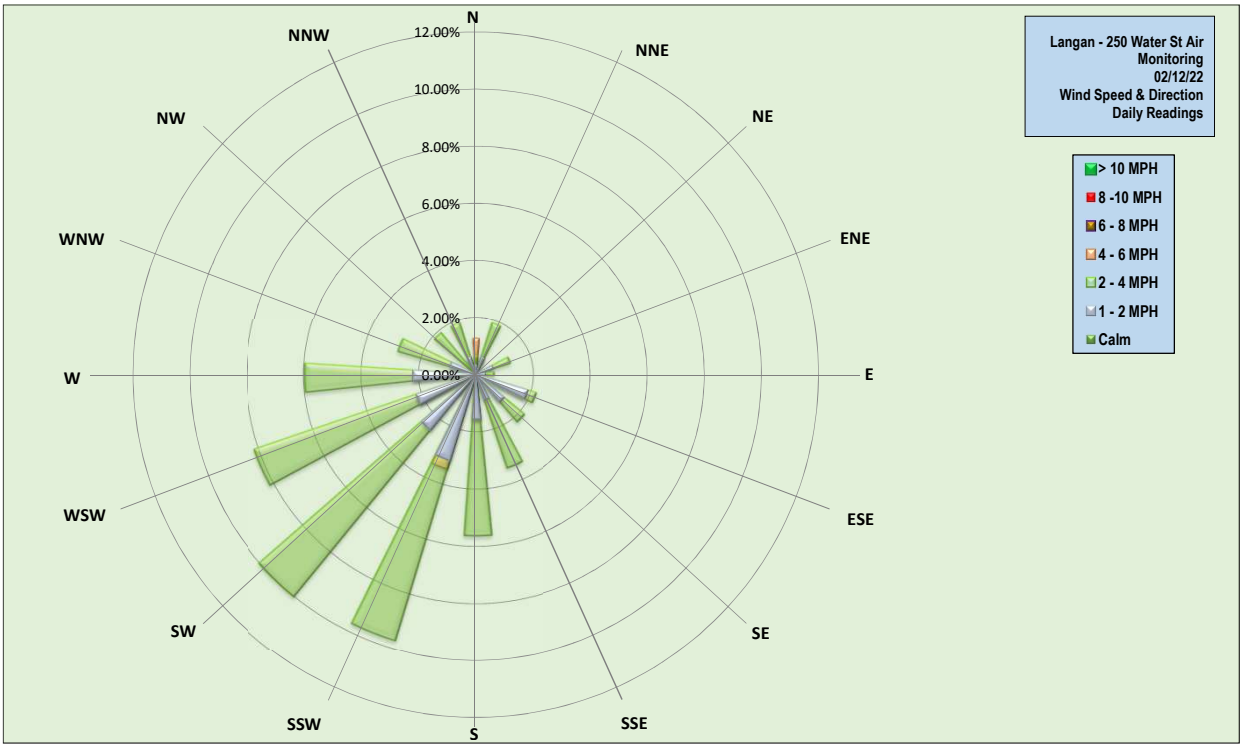


Air Monitoring Notes:

*Mercury vapor concentrations exceeded the action level established in the CAMP from 12:48pm to 1:01pm at perimeter station PM-2, which was located along Pearl Street, next to the parking lot entrance. The exceedance was determined to be an erroneous high reading resulting from an equipment malfunction or unknown interference and mercury vapor data from the Jerome® J505 mercury analyzer indicate the erroneously high reading is not a result of ground-intrusive activities. During this time, AARCO was in the process of backfilling test pit TP-02 after the test pit was open for one hour. Perimeter station PM-2 was located about 120 feet and in an upwind direction from the TP-02 work zone.

- Instantaneous mercury vapor concentrations within the work zone during this time were collected using the Jerome® J505 mercury analyzer and readings ranged from 0.00 µg/m³ to 0.05 µg/m³.
- The work zone station (WZ-1) was located between TP-02 and PM-2 and Jerome® J405 15-minute average mercury concentrations remained at 0.0 µg/m³ throughout this time period.
- Two instantaneous readings of 14.30 µg/m³ and 4.50 µg/m³ were recorded at PM-2 before returning to the daily average of 0.0 µg/m³. The instantaneous readings were immediately checked at the perimeter station using the - Jerome® J505 mercury analyzer and a maximum concentration of 0.01 µg/m³ was recorded.
- Additionally, the independent community monitoring conducted continuous monitoring with a Jerome® J405 throughout the day and reported that mercury vapor was not detected, with all readings measured at 0.0 µg/m³.

EMILCOTT
environmental, health & safety experts


Langan - 250 Water St Air Monitoring
02/12/22
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
12.00%
10.00%
8.00%
6.00%
4.00%
2.00%
0.00%