LANGAN
ENGINEERING & ENVIRONMENTAL SERVICES

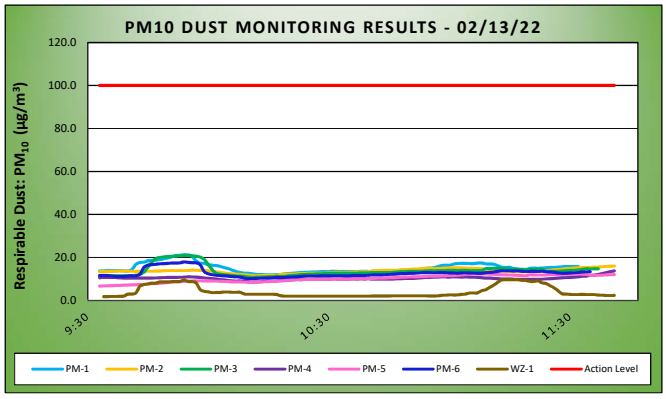
DAILY AIR MONITORING REPORT
250 Water Street Remediation Site
Manhattan, New York

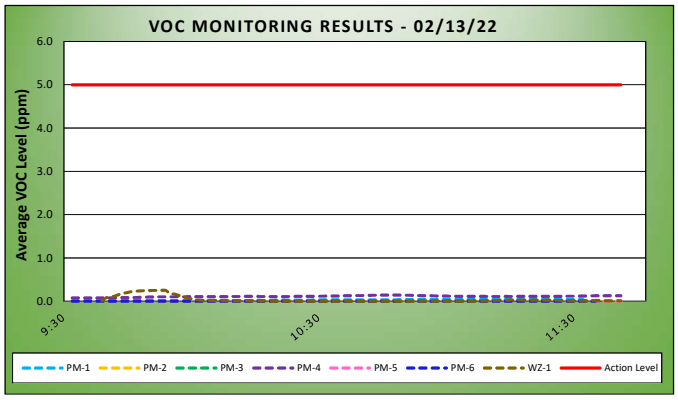
02/13/22	
Project number: 170381202	
Page 1 of 2	Rev. No. 0
Submitted By: Farielle Brazier	
Dust Background & Action Level (µg/m³)	100
VOC Background & Action Level (ppm)	5
Hg Background & Action Level (µg/m³)	1.0

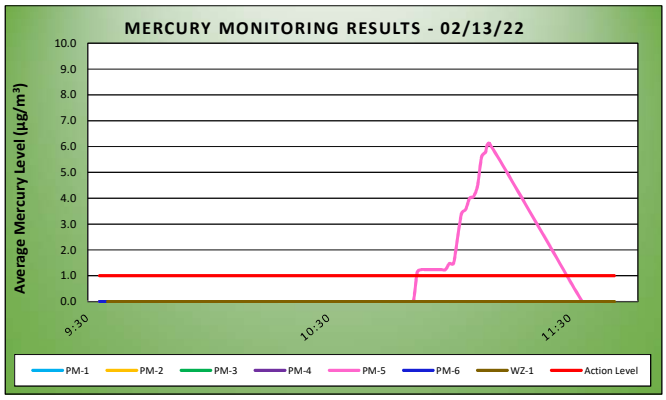
Weather Data Range for Work Day		Wind Direction	NE	Relative Humidity (%)	86.8 - 88.8	Daily Rain (in)	0.00	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp (°F)	31.4 - 32.1	Wind Speed (MPH)	6.6 - 7.5	Barometer (inHg)	30.23 - 30.26			

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	15.1	21.3	9:54 AM	0.0	0.0	11:32 AM
PM-2	13.8	16.0	11:41 AM	0.0	0.0	10:41 AM
PM-3	13.7	20.9	9:55 AM	0.0	0.0	9:32 AM
PM-4	10.5	13.8	11:41 AM	0.1	0.1	10:47 AM
PM-5	10.0	12.3	11:07 AM	0.0	0.0	11:39 AM
PM-6	12.7	17.9	9:54 AM	0.0	0.0	9:32 AM
WZ-1	3.8	9.7	11:15 AM	0.0	0.3	9:53 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	9:33 AM
PM-2	0.0	0.0	9:33 AM
PM-3	0.0	0.0	9:33 AM
PM-4	0.0	0.0	9:33 AM
PM-5	* 0.8	* 6.1	11:10 AM
PM-6	0.0	0.0	9:33 AM
WZ-1	0.0	0.0	9:35 AM







Air Monitoring Notes:

* Mercury vapor concentrations exceeded the action level established in the CAMP from 10:52am to 11:10am at perimeter station PM-5, located along Water Street, closer to Peck Slip. The exceedances were determined to be erroneous high readings resulting from an equipment malfunction and not a result of ground-intrusive activities associated with test pitting operations. During this time, AARCO was in the process of backfilling test pit TP-04 after the test pit was open for one hour. Perimeter station PM-5 was located about 200 feet and in an upwind direction from the TP-04 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 0.06 µg/m³.
- The work zone station (WZ-1) and nearby perimeter stations PM-3 and PM-6 remained at 0.0 µg/m³ throughout this time period.
- Instantaneous readings on the PM-5 Jerome® J405 unit during this time period ranged from 0.0 µg/m³ to 23.8 µg/m³. After notification of the elevated readings, the CAMP monitor collected Jerome® J505 readings in between the work zone and station PM-5, and a maximum concentration of 0.00 µg/m³ was recorded. The CAMP monitor collected Jerome® J505 readings at the station intake, and the Jerome® J505 unit read 0.00 µg/m³ at the same time the PM-5 station Jerome® J405 unit recorded a reading of 14.81 µg/m³.
- To diagnose the equipment malfunction, the CAMP monitor ran a warm-up function on the Jerome® J405 unit. After running the 5-minute warmup, elevated readings were still observed. The CAMP monitor disconnected the Jerome® J405 from the CAMP unit tubing, and walked towards the work area collecting readings, and the Jerome® J405 unit readings returned to 0.0 µg/m³ after being disconnected from the CAMP station. The Jerome® J405 unit was reconnected to the CAMP station, and continued to read 0.0 µg/m³ for the remainder of the operation.

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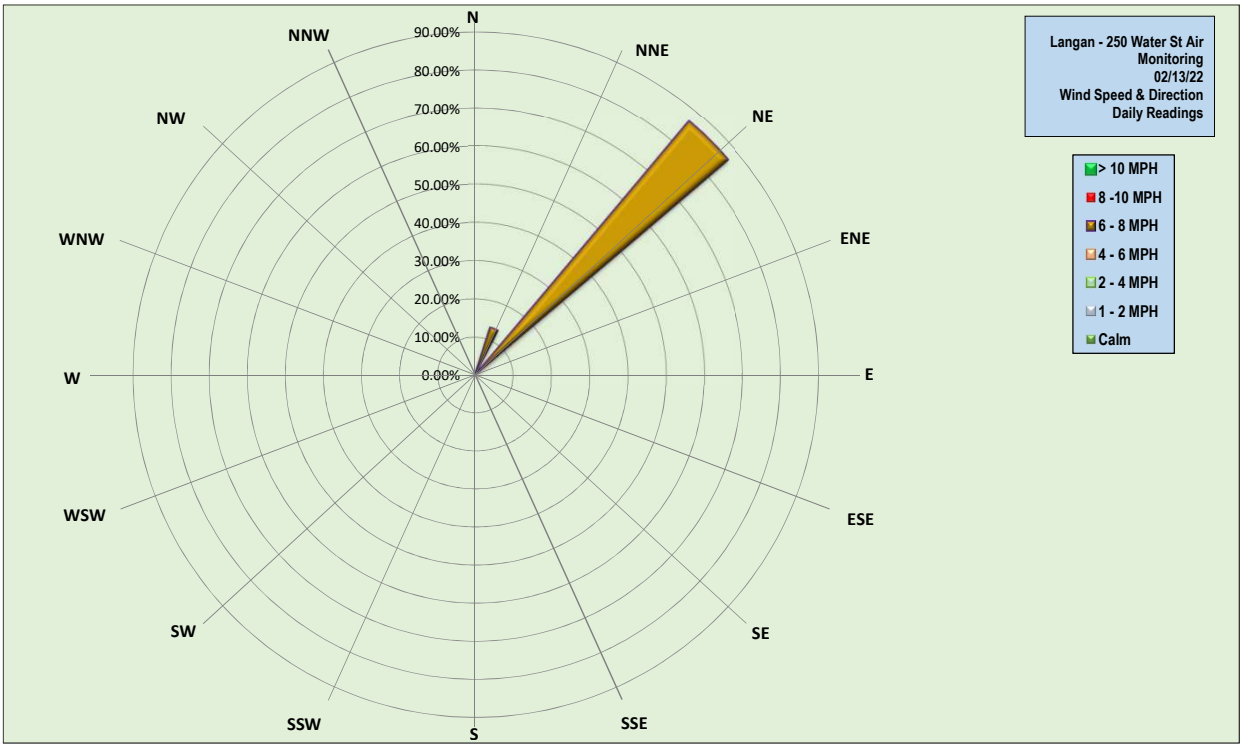
Langan - 250 Water St Air Monitoring
02/13/22
Wind Speed & Direction
Daily Readings
> 10 MPH
8 -10 MPH
6 - 8 MPH
4 - 6 MPH
2 - 4 MPH
1 - 2 MPH
Calm
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
90.00%
80.00%
70.00%
60.00%
50.00%
40.00%
30.00%
20.00%
10.00%
0.00%