LANGAN
ENGINEERING & ENVIRONMENTAL SERVICES

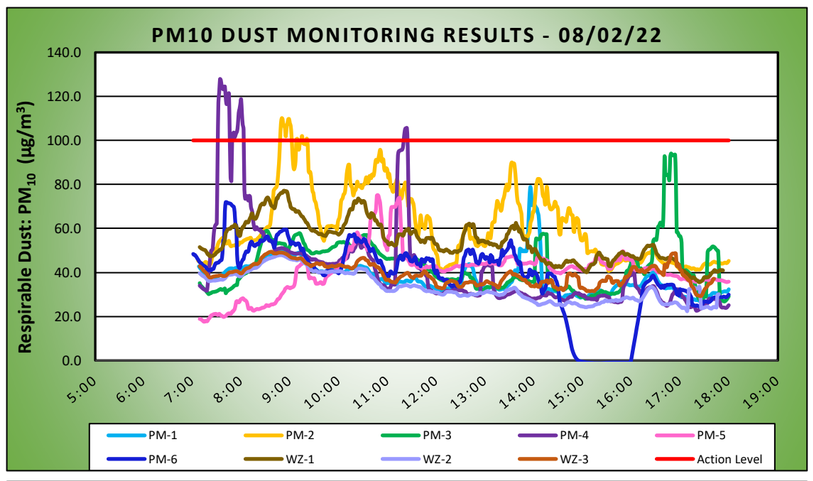
DAILY AIR MONITORING REPORT
250 Water Street Remediation Site
Manhattan, New York

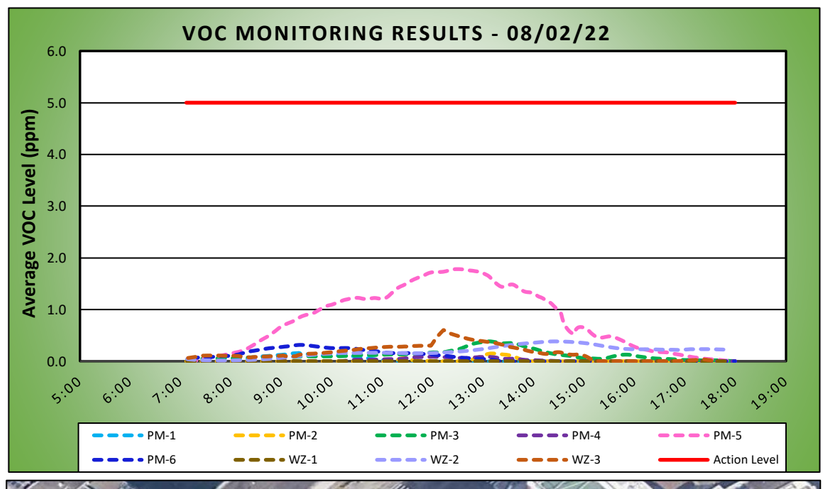
08/02/22	
Project number: 170381202	
Page 1 of 2	Rev. No. 0
Submitted By:	
Dust Action Level (µg/m^3)	100
VOC Action Level (ppm)	5
Hg Action Level (µg/m^3)	1.0

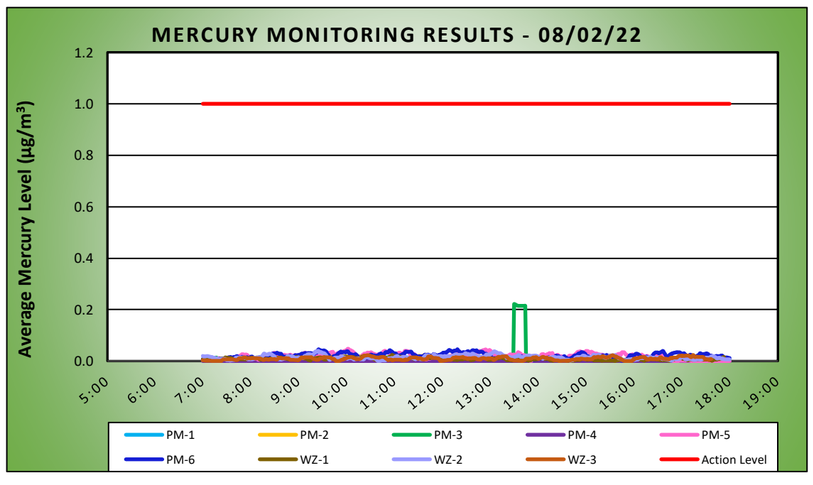
Weather Data Range for Work Day		Wind Direction	N	Relative Humidity (%)	38.0 - 86.0	Daily Rain (in)	0.00	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp (°F)	72.0 - 90.0	Wind Speed (MPH)	0.0 - 10.4	Barometer (inHg)	29.80 - 29.80			

Station Location Work Area	Daily Avg. Dust Concentration (µg/m^3)	Max 15 Minute Dust Concentration (µg/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	37.7	78.9	13:56	0.0	0.2	9:21
PM-2	60.8	** 110.1	8:50	0.0	0.2	13:10
PM-3	42.6	94.0	16:49	0.1	0.4	13:08
PM-4	41.4	* 127.9	7:34	0.0	0.1	12:01
PM-5	40.2	75.2	10:48	0.8	1.8	12:28
PM-6	37.3	71.9	7:42	0.1	0.3	9:23
WZ-1	53.7	77.2	8:53	0.0	0.0	7:08
WZ-2	33.2	47.9	8:49	0.2	0.4	14:25
WZ-3	39.1	49.4	8:37	0.2	0.6	12:13

Station Location Work Area	Daily Avg. Mercury Concentration (µg/m^3)	Max 15 Minute Mercury Concentration (µg/m^3)	Time of Max 15 Minute Avg Mercury Reading
PM-1	0.00	0.01	14:28
PM-2	0.01	0.02	11:39
PM-3	0.01	0.22	13:30
PM-4	0.00	0.00	7:00
PM-5	0.02	0.05	10:02
PM-6	0.02	0.05	12:19
WZ-1	0.01	0.02	10:57
WZ-2	0.01	0.04	9:24
WZ-3	0.01	0.02	17:14







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 µg/m^3 and 5.0 ppm, 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 station ranged from 0.00 to 0.01 µg/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-4 exceeded the action level established in the CAMP (0.100 mg/m^3) from 7:32am to 8:03am (32 minutes) and from 11:21am to 11:24am (4 minutes). The exceedances were caused by welding activities along the eastern boundary of the site (Peck Slip) adjacent to perimeter CAMP station PM-4 and were not the result of ground-intrusive activities associated with soil/fill 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 these times.

** PM10 concentrations at perimeter CAMP station PM-2 exceeded the action level established in the CAMP (0.100 mg/m^3) intermittently from 8:49am to 9:21am (18 minutes in total). The exceedances were caused by fence construction activities in the southwestern part of the site in proximity to perimeter CAMP station PM-2 and were not the result of ground-intrusive activities associated with soil/fill at the site. Fugitive dust was not observed migrating from the site during these times.

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 µg/m^3 to 0.13 µg/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 6:54am to 5:53pm due to exposed soil/fill within 20 feet of the northern fence line.
- CAMP station WZ-2 was relocated to the southern sidewalk of Water Street from 6:54am to 5:47pm during excavation of test pits along the southern boundary of the site.
- CAMP station WZ-3 was relocated to the eastern sidewalk of Peck Slip from 6:54am to 5:37pm during excavation activities in the eastern part of the site.

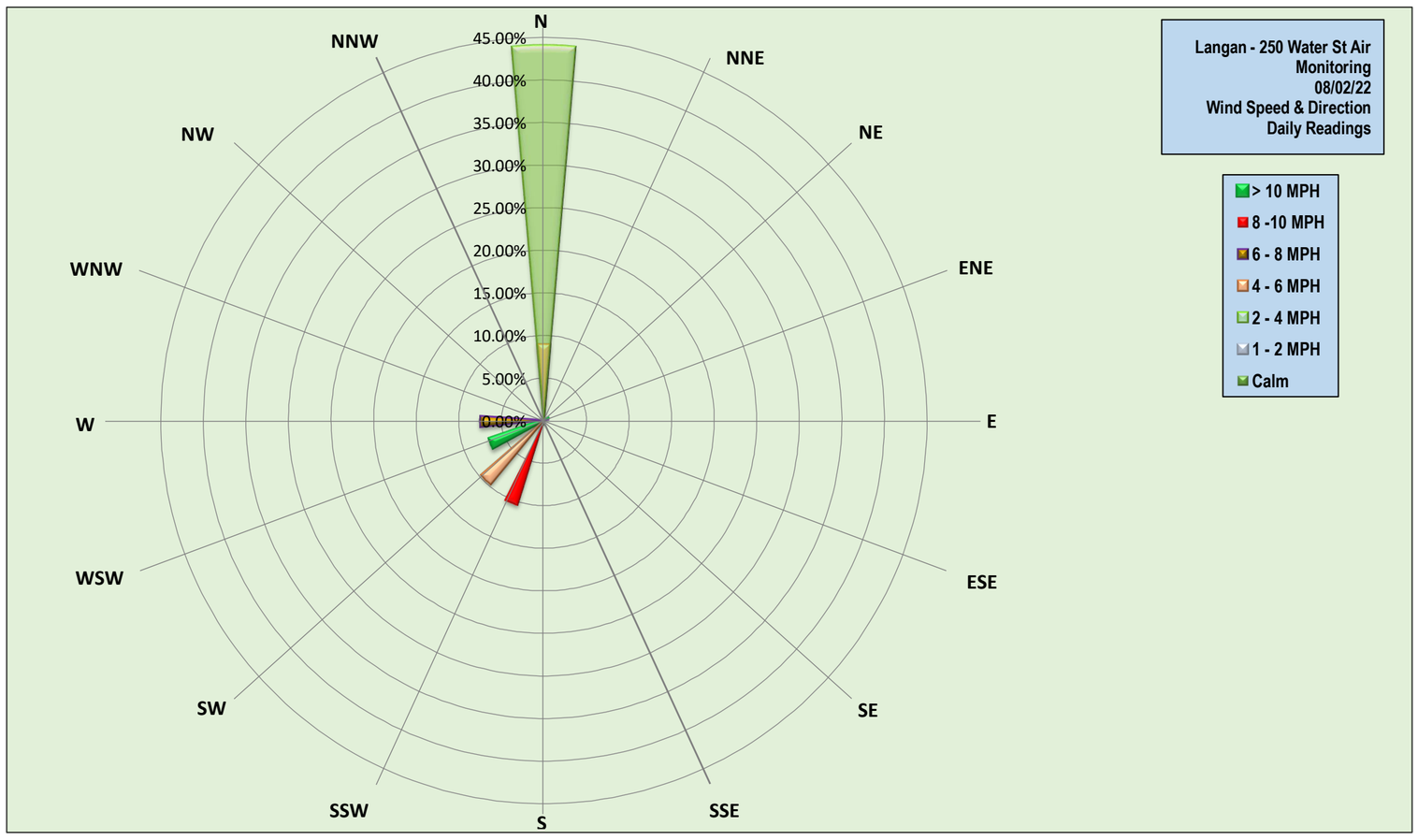
Prior to CAMP Shutdown

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:

- Mercury vapor concentrations at each CAMP station ranged from 0.00 µg/m^3 to 0.05 µg/m^3.
- VOC concentrations at each CAMP station were recorded at 0.0 ppm.

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 5:37pm and 6:23pm at the conclusion of ground-intrusive activities.

EMILCOTT
environmental, health & safety experts


Langan - 250 Water St Air Monitoring
08/02/22
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
45.00%
40.00%
35.00%
30.00%
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10.00%
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