LANGAN
ENGINEERING & ENVIRONMENTAL SERVICES

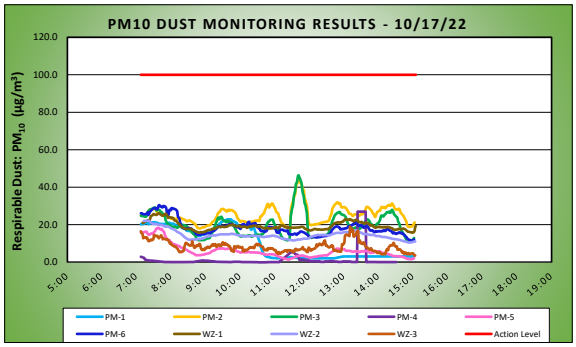
DAILY AIR MONITORING REPORT
250 Water Street Remediation Site
Manhattan, New York

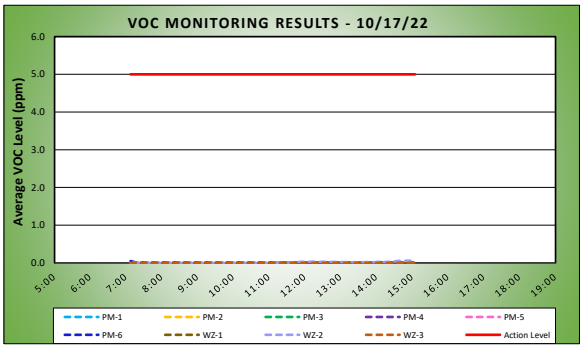
10/17/22	
Project number: 170381202	
Page 1 of 2	Rev. No. 0
Submitted By:	
Dust Action Level (µg/m³)	100
VOC Action Level (ppm)	5
Hg Action Level (µg/m³)	1.0

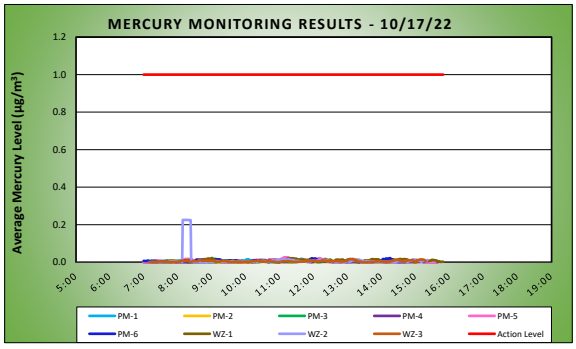
Weather Data Range for Work Day		Wind Direction	W	Relative Humidity (%)	63.3 - 87.1	Daily Rain (in)	0.00	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp (°F)	60.2 - 66.7	Wind Speed (MPH)	0.7 - 5.7	Barometer (inHg)	29.69 - 29.81			

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	9.8	22.8	9:41	0.0	0.0	14:02
PM-2	25.3	45.9	11:42	0.0	0.0	7:08
PM-3	20.0	46.2	11:41	0.0	0.0	7:08
PM-4	1.4	26.9	13:24	0.0	0.0	7:08
PM-5	6.0	18.3	7:39	0.0	0.0	7:08
PM-6	18.5	30.4	7:40	0.0	0.0	7:08
WZ-1	19.4	26.1	7:38	0.0	0.0	7:11
WZ-2	14.5	22.1	7:21	0.0	0.1	14:54
WZ-3	8.4	18.9	13:11	0.0	0.0	7:08

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	0.01	0.02	9:04
PM-2	0.00	0.01	10:38
PM-3	0.00	0.01	7:19
PM-4	0.00	0.01	10:50
PM-5	0.01	0.03	11:14
PM-6	0.01	0.02	14:15
WZ-1	0.01	0.02	9:01
WZ-2	0.01	0.23	8:09
WZ-3	0.00	0.02	13:09







Air Monitoring Notes:

Langan performed air monitoring at the perimeter of the site and at work zones at nine total locations for mercury vapor, VOC s and particulate matter less than 10 microns in diameter (PM10), during ground-intrusive activities. There were no fifteen-minute average concentrations for mercury vapor, VOCs, or PM10 that approached or exceeded the action levels established by the CAMP (1.00 µg/m³, 5.0 ppm, and 0.100 mg/m³ 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 were recorded at 0.00 µg/m³.
- Background concentrations of VOCs at each CAMP station were recorded at 0.0 ppm.

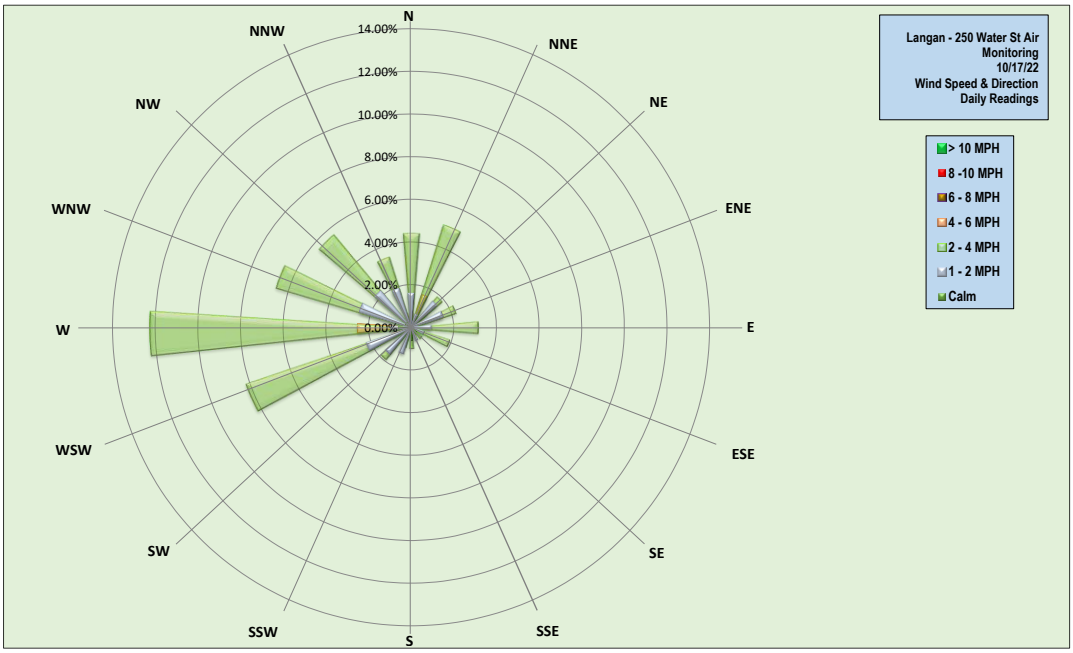
Equipment Troubleshooting
- Perimeter CAMP station PM-4 and off-site CAMP stations WZ-1 and WZ-2 intermittently did not record PM10 and VOC concentrations between 11:09am and 11:28am (for a maximum timeframe of 4 minutes) to accommodate manual download of data from each unit. Fugitive dust was not observed migrati ng 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/m³ to 0.15 µg/m³.
- The dedicated mobile monitor (Langan) used a handheld PID to monitor VOC concentrations throughout the site. InstantaneousVOC concentrations were at or below background concentrations throughout the work day.

CAMP Station Relocation
- CAMP station WZ-1 was relocated to the northern sidewalk of Pearl Street from 7:01am to 3:04pm due to exposed soil/fill located within 20 feet of the northern site boundary.
- CAMP station WZ-2 was relocated to the eastern sidewalk of Peck Slip from 6:58am to 3:04pm due to exposed soil/fill located within 20 feet of the eastern site boundary.
- CAMP station WZ-3 was relocated to the southern sidewalk of Water Street from 6:55am to 3:04pm due to exposed soil/fill located within 20 feet of the southern site boundary.

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 sequentially between 2:31pm and 3:04pm at the conclusion of ground -intrusive activities.
- Mercury vapor concentrations at each CAMP station ranged from 0.00 µg/m³ to 0.03 µg/m³.
- VOC concentrations at each CAMP station were recorded at 0.0 ppm.

EMILCOTT
environmental, health & safety experts


Langan - 250 Water St Air Monitoring
10/17/22
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
14.00%
12.00%
10.00%
8.00%
6.00%
4.00%
2.00%
0.00%