



DAILY AIR MONITORING REPORT

250 Water Street Remediation Site

Manhattan, New York

06/11/22

Project number: 170381202

Page 1 of 2

Rev. No. 0

Submitted By: Maitland Robinson

Dust Action Level ($\mu\text{g}/\text{m}^3$)

100

VOC Action Level (ppm)

5

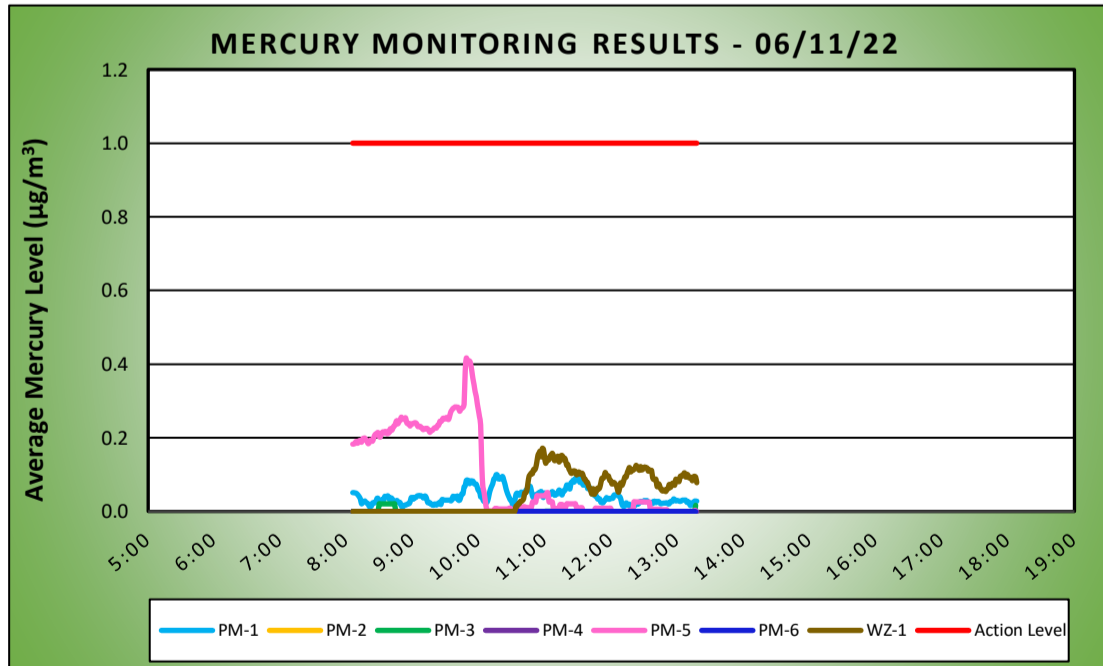
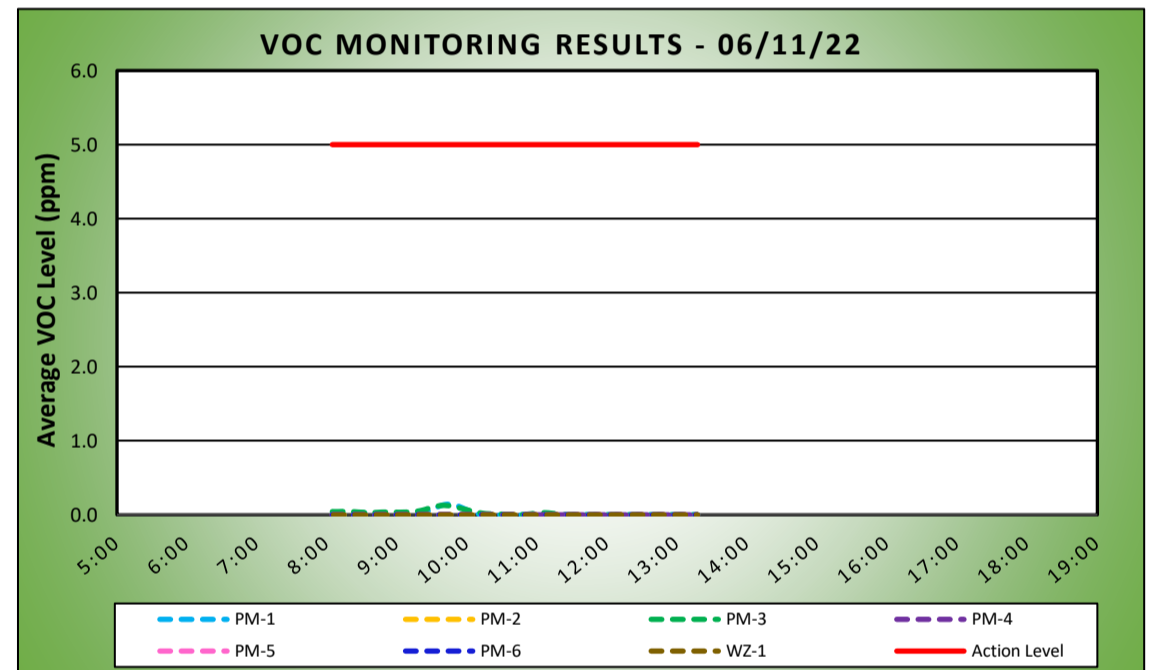
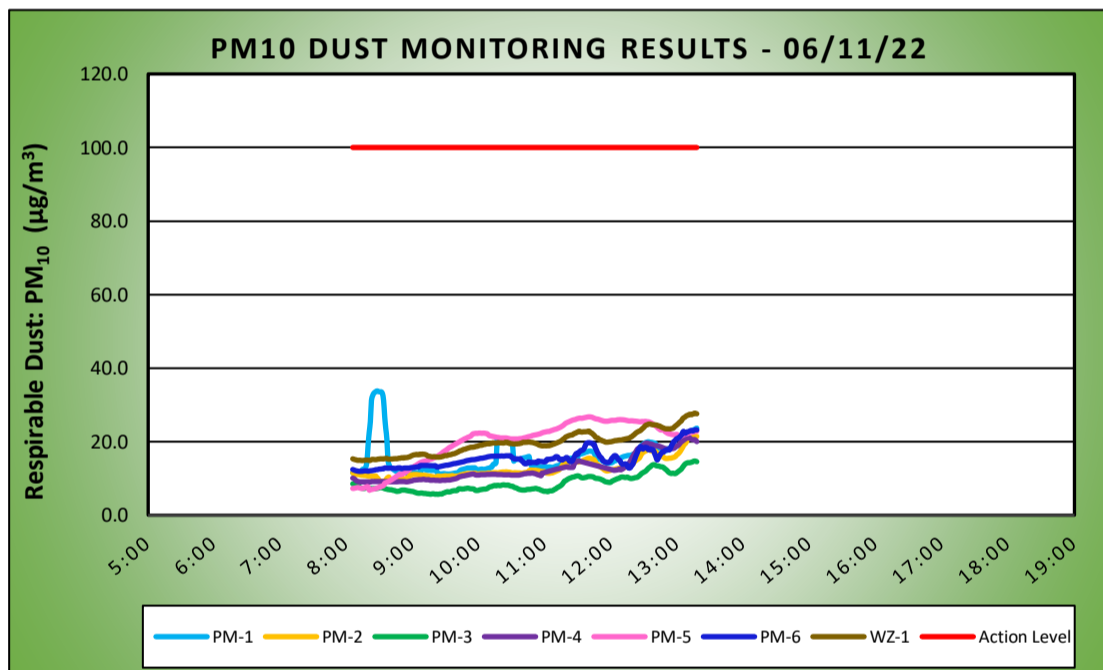
Hg Action Level ($\mu\text{g}/\text{m}^3$)

1.0

Weather Data Range for Work Day		Wind Direction	NNE	Relative Humidity (%)	38.9 - 46.1	Daily Rain (in)	0.05	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp (°F)	71.6 - 77.0	Wind Speed (MPH)	0.6 - 4.8	Barometer (inHg)	29.99 - 30.01			

Station Location Work Area	Daily Avg. Dust Concentration ($\mu\text{g}/\text{m}^3$)	Max 15 Minute Dust Concentration ($\mu\text{g}/\text{m}^3$)	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	16.0	33.8	8:28	0.0	0.1	9:44
PM-2	12.9	21.5	13:16	0.0	0.0	8:06
PM-3	8.8	14.7	13:16	0.0	0.1	9:41
PM-4	12.7	21.2	13:10	0.0	0.0	8:05
PM-5	19.7	26.7	11:40	0.0	0.0	8:05
PM-6	15.5	23.2	13:17	0.0	0.0	8:05
WZ-1	19.7	27.8	13:16	0.0	0.0	8:06

Station Location Work Area	Daily Avg. Mercury Concentration ($\mu\text{g}/\text{m}^3$)	Max 15 Minute Mercury Concentration ($\mu\text{g}/\text{m}^3$)	Time of Max 15 Minute Avg Mercury Reading
PM-1	0.0	0.1	10:16
PM-2	0.0	0.0	8:07
PM-3	0.0	0.0	8:30
PM-4	0.0	0.0	8:06
PM-5	0.1	0.4	9:49
PM-6	0.0	0.0	8:06
WZ-1	0.0	0.2	10:54



Air Monitoring Notes:

Ambient Air (Handheld Jerome® J505 and Handheld PID)

- Langan used a handheld Jerome® J505 mercury vapor analyzer to monitor ambient air conditions at various heights throughout the site.
- Raw data from the Jerome® J505 mercury vapor analyzer will be downloaded on Tuesday, June 14, 2022. Instantaneous mercury vapor concentrations throughout the site were not detected at concentrations above background conditions for the duration of the work day.
- Langan used a handheld PID to monitor VOC concentrations throughout the site. VOC concentrations were not detected above background concentrations throughout the work day.

Off-Site CAMP Station Relocation

- Perimeter air monitoring station PM-5 was relocated to the northern sidewalk of Pearl Street from 7:51am to 9:13am during advancement of soil boring SB24.
- Perimeter air monitoring station PM-4 was relocated to the eastern sidewalk of Peck Slip from 10:59am to 11:31am during advancement of soil boring WC10D.

Prior to CAMP Shutdown

- Prior to discontinuing CAMP at the conclusion of ground-intrusive activities, VOC and mercury vapor concentrations were confirmed to return to background conditions at each perimeter station using the handheld PID and handheld Jerome® J505 mercury vapor analyzer. CAMP stations were discontinued at 1:17pm at the conclusion of ground-intrusive activities.
- Mercury vapor concentrations at each CAMP station were recorded at 0.00 $\mu\text{g}/\text{m}^3$.
- VOC concentrations at each CAMP station ranged from 0.0 to 0.2 ppm.





DAILY AIR MONITORING REPORT

250 Water Street Remediation Site

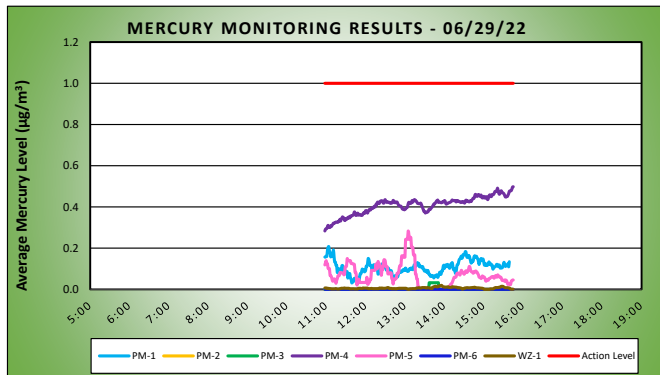
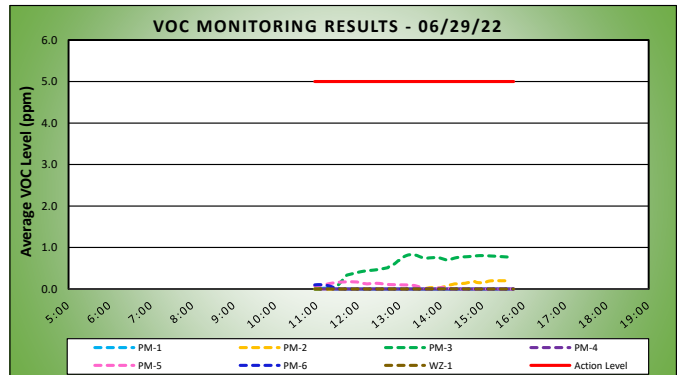
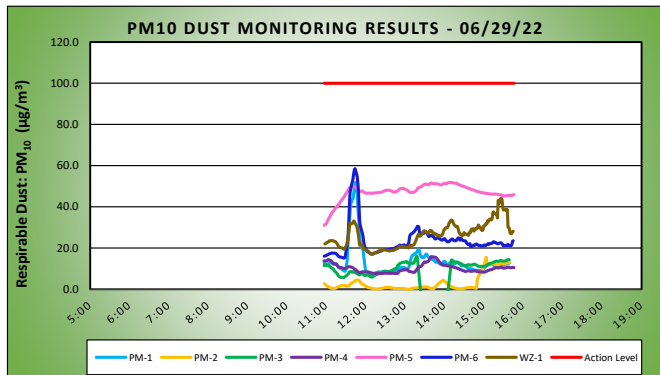
Manhattan, New York

06/29/22	
Project number: 170381202	
Page 1 of 2	Rev. No. 0
Submitted By:	
Dust Action Level ($\mu\text{g}/\text{m}^3$)	100
VOC Action Level (ppm)	5
Hg Action Level ($\mu\text{g}/\text{m}^3$)	1.0

Weather Data Range for Work Day		Wind Direction	SE	Relative Humidity (%)	31.3 - 38.3	Daily Rain (in)	0.00	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp (°F)	78.9 - 84.3	Wind Speed (MPH)	1.3 - 5.8	Barometer (inHg)	30.24 - 30.31			

Station Location Area	Work	Daily Avg. Dust Concentration ($\mu\text{g}/\text{m}^3$)	Max 15 Minute Dust Concentration ($\mu\text{g}/\text{m}^3$)	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		14.4	52.0	11:45	0.0	0.0	11:13
PM-2		3.3	15.4	15:04	0.1	0.2	15:19
PM-3		6.2	16.1	13:18	0.6	0.8	13:19
PM-4		10.1	15.8	13:41	0.0	0.0	11:05
PM-5		46.7	51.9	14:09	0.1	0.2	11:49
PM-6		23.4	58.5	11:44	0.0	0.1	11:02
WZ-1		26.0	44.1	15:27	0.0	0.0	11:05

Station Location Area	Work	Daily Avg. Mercury Concentration ($\mu\text{g}/\text{m}^3$)	Max 15 Minute Mercury Concentration ($\mu\text{g}/\text{m}^3$)	Time of Max 15 Minute Avg Mercury Reading
PM-1		0.1	0.2	11:04
PM-2		0.0	0.0	10:58
PM-3		0.0	0.0	13:37
PM-4		0.4	0.5	15:45
PM-5		0.1	0.3	13:05
PM-6		0.0	0.0	10:58
WZ-1		0.0	0.0	10:58



Air Monitoring Notes:

Langan performed air monitoring at the perimeter of the site and at the work zone at seven locations for particulate matter less than 10 microns in diameter (PM10), volatile organic compounds (VOCs), and mercury vapor, during ground-intrusive activities. Fifteen-minute time-weighted average concentrations of PM10, VOCs and mercury vapor did not exceed the action levels established in the site community air monitoring plan (CAMP) for the duration of work activities.

- CAMP was not implemented until 10:42 am due to a lack of ground-intrusive activities.

Background Concentrations

Background concentrations of mercury vapor and VOCs were recorded using a handheld Jerome® J505 mercury vapor analyzer and a handheld photoionization detector (PID), respectively.

- Background concentrations of mercury vapor at each CAMP station ranged from 0.00 $\mu\text{g}/\text{m}^3$ to 0.01 $\mu\text{g}/\text{m}^3$.
- Background concentrations of VOCs at each CAMP station were recorded at 0.0 ppm.

Ambient Air (Handheld Jerome® J505 and Handheld PID)

Langan used a handheld Jerome® J505 mercury vapor analyzer and a handheld PID to monitor ambient air conditions at various heights throughout the site.

- Instantaneous mercury vapor concentrations throughout the site ranged from 0.00 $\mu\text{g}/\text{m}^3$ to 0.06 $\mu\text{g}/\text{m}^3$.
- Instantaneous VOC concentrations were not recorded above background concentrations throughout the work day.

Equipment Troubleshooting

The DustTrak unit at perimeter CAMP station PM-3 was recalibrated at 1:54 pm due to negative readings being recorded. PM10 readings returned to background conditions following equipment recalibration and data logging resumed at 1:57 pm.

Prior to CAMP Shutdown

Prior to discontinuing CAMP, VOC and mercury vapor concentrations were confirmed to return to background conditions at each p perimeter station using the handheld PID and handheld Jerome® J505 mercury vapor analyzer. CAMP stations were discontinued between 3:38 pm and 3:45 pm at the conclusion of groundintrusive activities.

- Mercury vapor concentrations at each CAMP station ranged from 0.00 $\mu\text{g}/\text{m}^3$ to 0.02 $\mu\text{g}/\text{m}^3$.
- VOC concentrations at each CAMP station were recorded at 0.0 ppm.

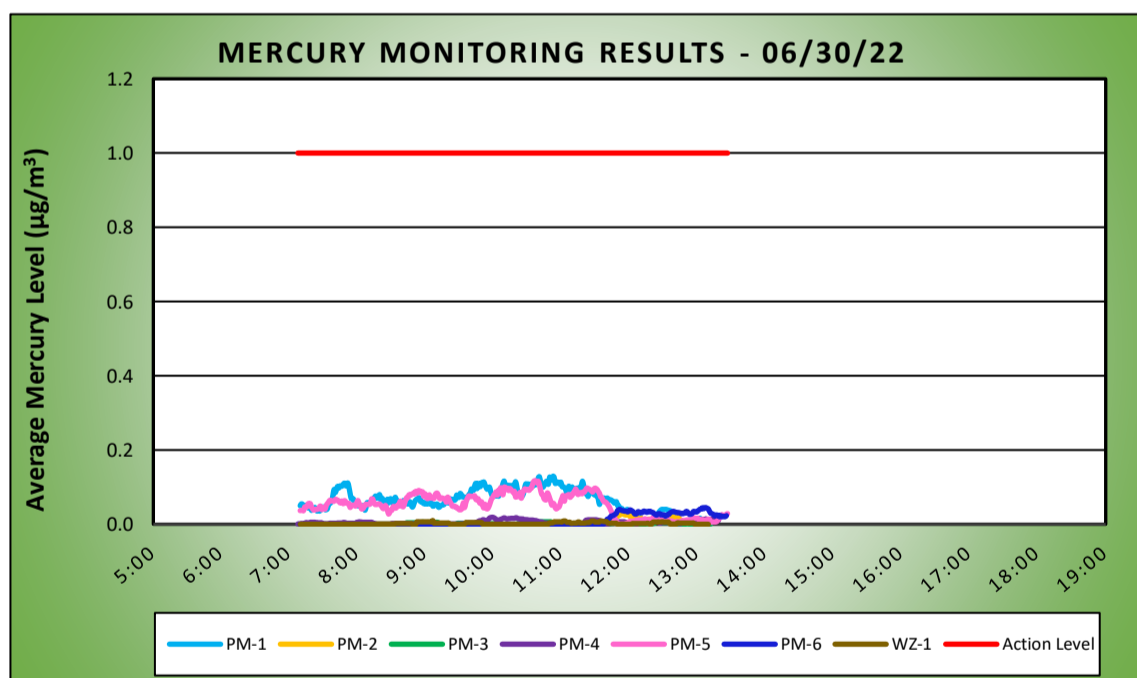
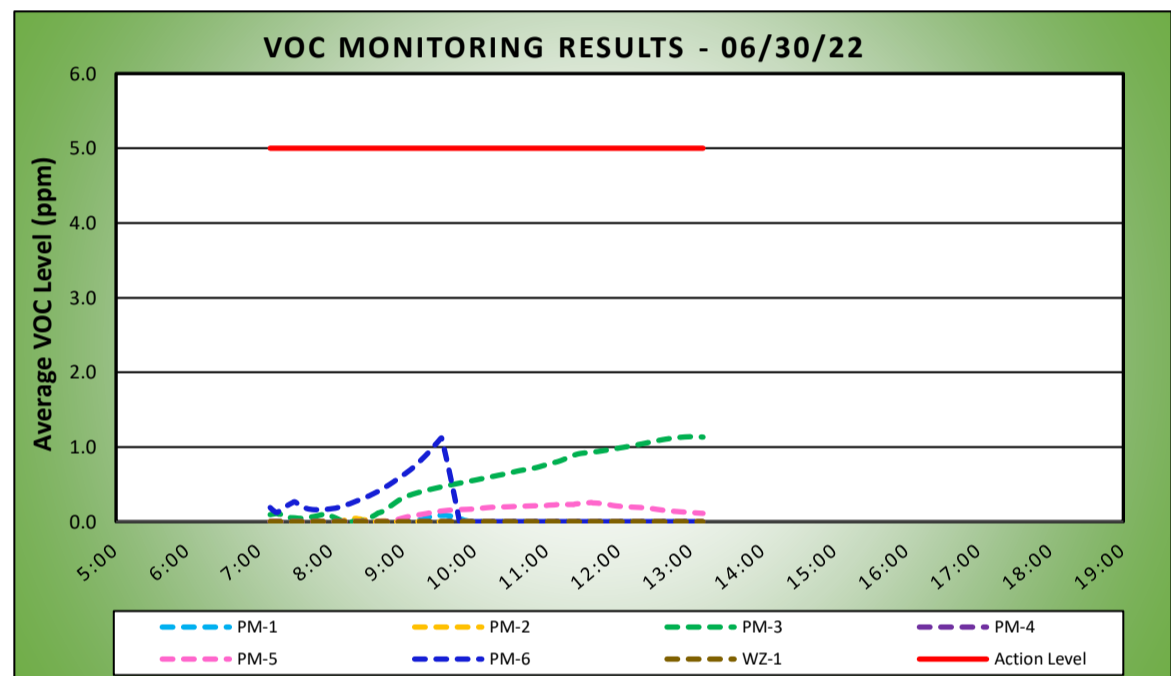
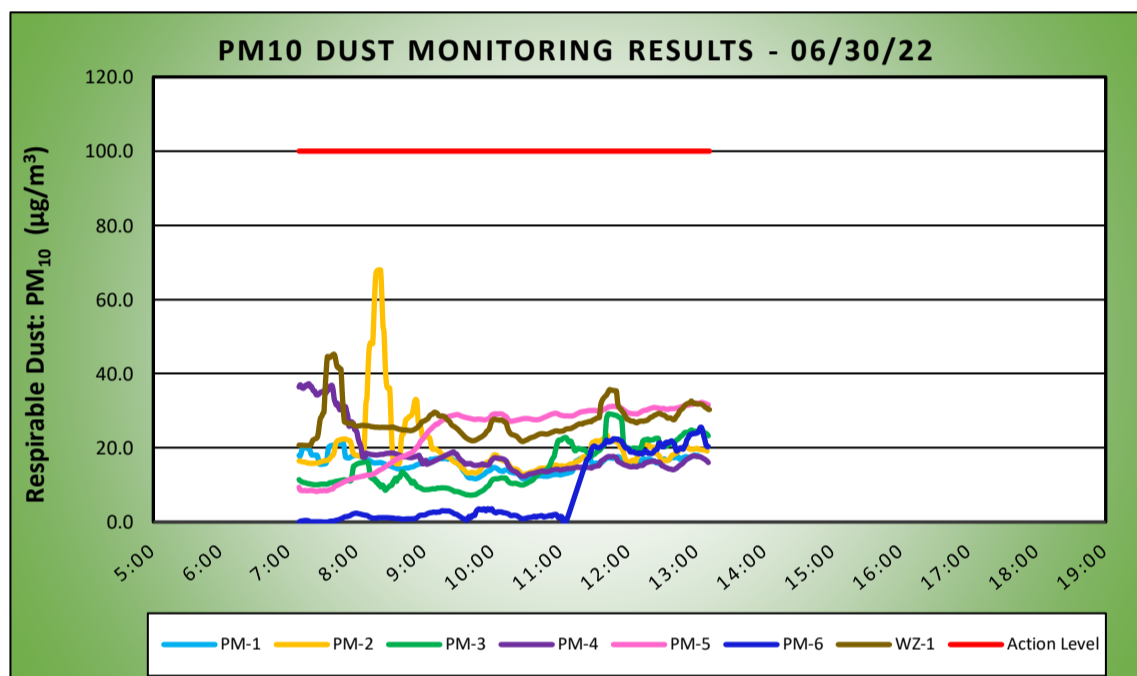


	DAILY AIR MONITORING REPORT 250 Water Street Remediation Site Manhattan, New York				06/30/22	
					Project number: 170381202	
					Page 1 of 2	
					Submitted By:	
					Rev. No. 0	
				Dust Action Level ($\mu\text{g}/\text{m}^3$)		100
				VOC Action Level (ppm)		5
				Hg Action Level ($\mu\text{g}/\text{m}^3$)		1.0

Weather Data Range for Work Day		Wind Direction	ENE	Relative Humidity (%)	32.7 - 53.3	Daily Rain (in)	0.00	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp (°F)	73.0 - 84.5	Wind Speed (MPH)	1.0 - 5.8	Barometer (inHg)	30.25 - 30.29			

Station Location Area	Work	Daily Avg. Dust Concentration ($\mu\text{g}/\text{m}^3$)	Max 15 Minute Dust Concentration ($\mu\text{g}/\text{m}^3$)	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		15.8	21.4	7:48	0.0	0.1	9:28
PM-2		20.0	68.0	8:20	0.0	0.0	8:17
PM-3		15.2	29.2	11:42	0.6	1.1	12:59
PM-4		18.8	37.2	7:17	0.0	0.0	9:37
PM-5		24.2	32.2	13:04	0.1	0.3	11:37
PM-6		7.6	25.5	13:03	0.2	1.1	9:32
WZ-1		27.2	45.2	7:39	0.0	0.0	8:01

Station Location Area	Work	Daily Avg. Mercury Concentration ($\mu\text{g}/\text{m}^3$)	Max 15 Minute Mercury Concentration ($\mu\text{g}/\text{m}^3$)	Time of Max 15 Minute Avg Mercury Reading
PM-1		0.1	0.1	10:53
PM-2		0.0	0.0	11:54
PM-3		0.0	0.0	10:42
PM-4		0.0	0.0	9:59
PM-5		0.1	0.1	10:37
PM-6		0.0	0.0	13:05
WZ-1		0.0	0.0	7:28



Air Monitoring Notes:

Langan performed air monitoring at the perimeter of the site and at the work zone at seven locations for particulate matter less than 10 microns in diameter (PM10), volatile organic compounds (VOCs), and mercury vapor, during ground-intrusive activities. Fifteen-minute average concentrations of PM10, VOCs, and mercury vapor did not exceed the action levels established in the site community air monitoring plan (CAMP) for the duration of work activities.

Background Concentrations

Prior to implementation of ground-intrusive work, 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 0.01 $\mu\text{g}/\text{m}^3$ to 0.09 $\mu\text{g}/\text{m}^3$.
- Background concentrations of VOCs at each CAMP station were recorded at 0.0 ppm.

Ambient Air (Handheld Jerome® J505 and Handheld PID)

- 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 $\mu\text{g}/\text{m}^3$ to 0.24 $\mu\text{g}/\text{m}^3$.

- Langan used a handheld PID to monitor VOC concentrations throughout the site. Instantaneous VOC concentrations were not detected above background concentrations throughout the work day.

Off-Site CAMP Station Relocation

- Air monitoring station WZ-1 was relocated to the southern sidewalk of Water Street from 6:28am to 1:10pm.

Equipment Troubleshooting

- Drilling activities were halted between 9:03am and 9:09am during battery replacement at perimeter CAMP station PM-4. PM10 concentrations were not recorded during this time and fugitive dust was not observed migrating from the site. Data logging resumed at 9:10am.

- The DustTrak unit at perimeter CAMP station PM-6 was recalibrated at 11:04am due to negative readings being recorded. PM10 readings returned to background conditions following equipment recalibration and data logging resumed at 11:08am.

Prior to CAMP Shutdown

Prior to discontinuing CAMP at the conclusion of ground-intrusive activities, VOC and mercury vapor concentrations were confirmed to return to background conditions at each perimeter station using the handheld PID and handheld Jerome® J505 mercury vapor analyzer. CAMP stations were discontinued between 12:59pm and 1:10pm at the conclusion of ground-intrusive activities.

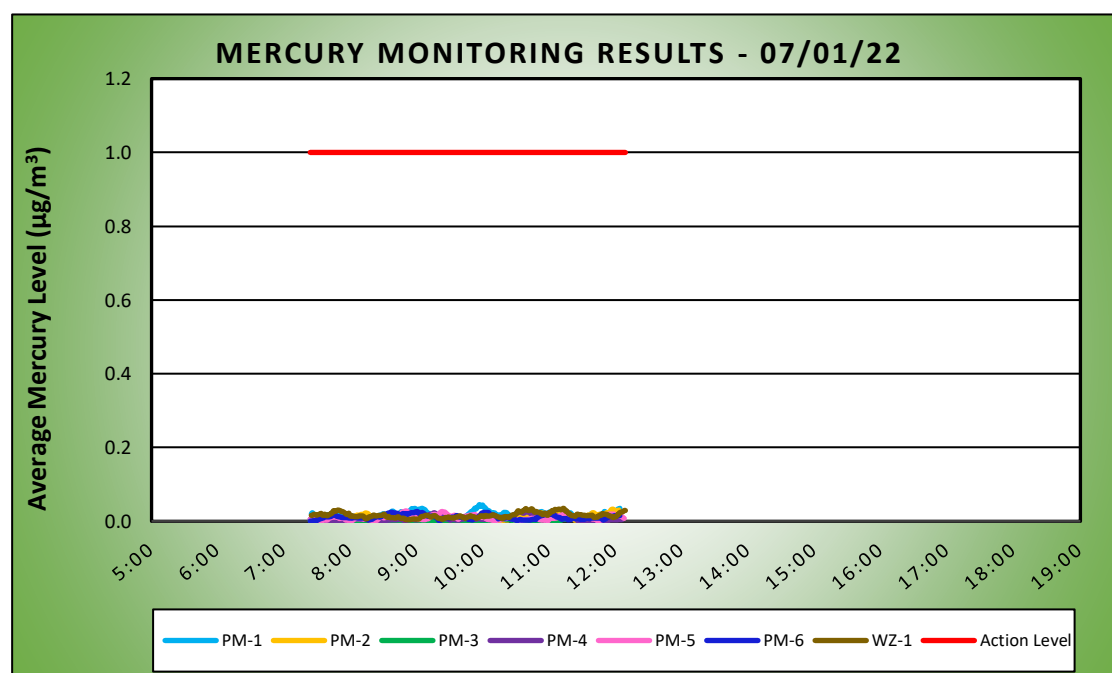
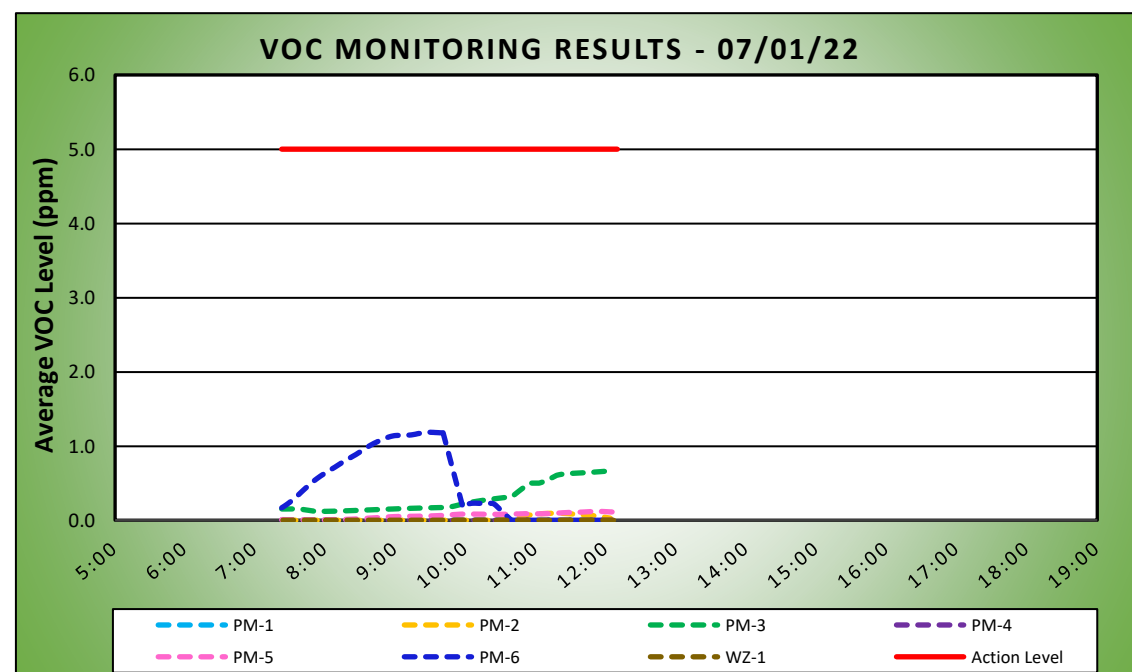
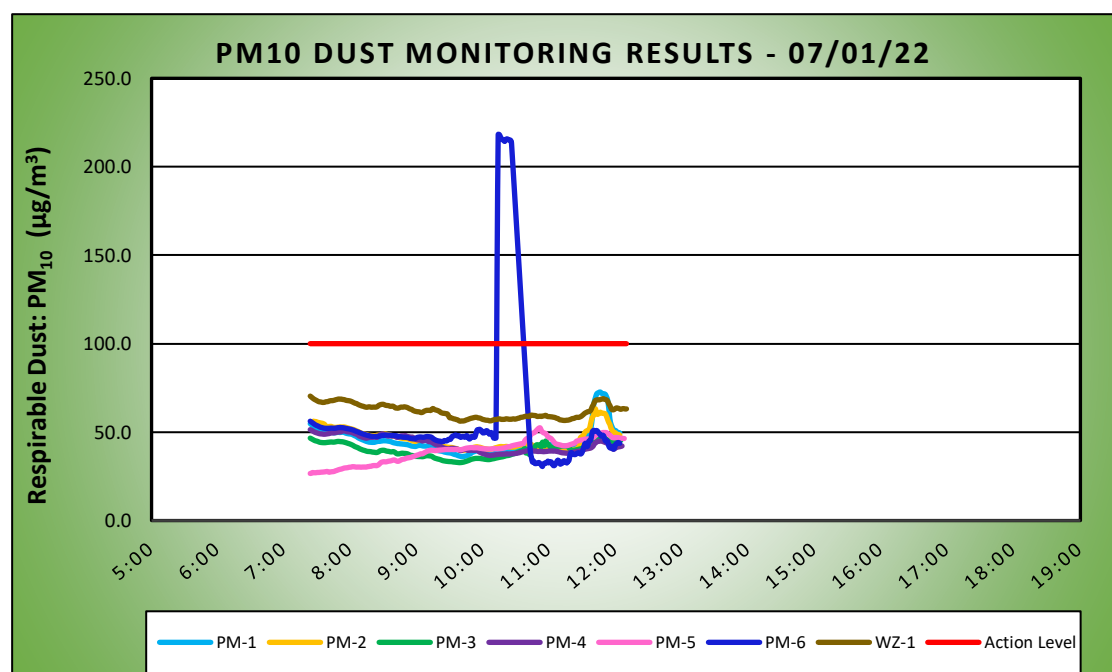
- Mercury vapor concentrations at each CAMP station ranged from 0.01 $\mu\text{g}/\text{m}^3$ to 0.08 $\mu\text{g}/\text{m}^3$.
- VOC concentrations at each CAMP station were recorded at 0.0 ppm.

	DAILY AIR MONITORING REPORT		07/01/22	
	250 Water Street Remediation Site			
	Manhattan, New York			
	Project number: 170381202		Page 1 of 2	
	Submitted By:		Rev. No. 0	
	Dust Action Level ($\mu\text{g}/\text{m}^3$)	100		
VOC Action Level (ppm)	5			
Hg Action Level ($\mu\text{g}/\text{m}^3$)	1.0			

Weather Data Range for Work Day		Wind Direction	S	Relative Humidity (%)	24.0 - 71.6	Daily Rain (in)	0.00	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp (°F)	72.8 - 95.9	Wind Speed (MPH)	0.3 - 6.0	Barometer (inHg)	30.02 - 30.20			

Station Location Work Area	Daily Avg. Dust Concentration ($\mu\text{g}/\text{m}^3$)	Max 15 Minute Dust Concentration ($\mu\text{g}/\text{m}^3$)	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	45.1	72.7	11:46	0.0	0.0	7:24
PM-2	46.5	63.2	11:42	0.0	0.1	11:18
PM-3	40.0	46.6	7:24	0.3	0.7	12:05
PM-4	43.3	51.4	7:24	0.0	0.0	7:23
PM-5	39.1	52.4	10:52	0.1	0.1	11:53
PM-6	54.5	*218.2	10:13	0.5	1.2	9:29
WZ-1	62.1	70.4	7:24	0.0	0.0	7:24

Station Location Work Area	Daily Avg. Mercury Concentration ($\mu\text{g}/\text{m}^3$)	Max 15 Minute Mercury Concentration ($\mu\text{g}/\text{m}^3$)	Time of Max 15 Minute Avg Mercury Reading
PM-1	0.0	0.0	9:57
PM-2	0.0	0.0	11:57
PM-3	0.0	0.0	11:26
PM-4	0.0	0.0	10:40
PM-5	0.0	0.0	8:50
PM-6	0.0	0.0	9:01
WZ-1	0.0	0.0	7:25



Air Monitoring Notes:

Langan performed air monitoring at the perimeter of the site and at the work zone at seven total locations for particulate matter less than 10 microns in diameter (PM10), VOCs, and mercury vapor during ground-intrusive activities. Fifteen-minute average concentrations of VOCs and mercury vapor did not exceed the action levels established in the site community air monitoring plan (CAMP) for the duration of work activities. Fifteen-minute average concentrations of PM10 exceeded the action level established in the site CAMP in one instance discussed below.

Background Concentrations

Prior to implementation of ground-intrusive work, 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 $\mu\text{g}/\text{m}^3$ to 0.03 $\mu\text{g}/\text{m}^3$.
- Background concentrations of VOCs at each CAMP station were recorded at 0.0 ppm.

Perimeter and Work Zone Concentrations

- *Particulate (PM10) concentrations exceeded the action level established in the CAMP from 10:13am to 10:26am at perimeter CAMP station PM-6 due to pinched tubing attached to the intake of the particulate monitor. The particulate monitor was recalibrated at 10:27am and the tubing was replaced. Particulate concentrations returned to background conditions and data logging resumed at 10:28am. The exceedances were determined not to be the result of ground-intrusive activities, as the two downwind CAMP stations nearest to the work area (PM-4 and PM-5) did not register PM10 above background conditions. Fugitive dust was not observed leaving the site during this time.

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 $\mu\text{g}/\text{m}^3$ to 0.13 $\mu\text{g}/\text{m}^3$.

- The dedicated mobile monitor (Langan) used a handheld PID to monitor VOC concentrations throughout the site. Instantaneous VOC concentrations were not detected above background concentrations throughout the work day.

Off-Site CAMP Station Relocation

- CAMP station WZ-1 was relocated to the eastern sidewalk of Peck Slip from 7:09am to 10:04am during advancement of soil borings WC07D and WC08D.
- CAMP station WZ-1 was relocated to the northern sidewalk of Pearl Street from 10:04am to 12:10pm during advancement of soil borings WC07A and WC07B.

Equipment Troubleshooting

- The PID at perimeter CAMP station PM-6 was recalibrated at 9:42am due to a persistent reading of 1.2 ppm, which was inconsistent with readings on the handheld unit (0.0 ppm). VOC concentrations returned to background conditions following equipment recalibration and data logging resumed at 9:43am.

- The DustTrak unit at perimeter CAMP station PM-6 was recalibrated at 10:27am due to erroneous high readings caused by pinched tubing attached to the intake of the particulate monitor. PM10 concentrations returned to background conditions following equipment recalibration and replacement of the tubing and data logging resumed at 10:28am.

Prior to CAMP Shutdown

- Prior to discontinuing CAMP, all locations in which ground-intrusive activities occurred (ie. soil borings) were backfilled with clean drill cuttings and/or clean sand and were sealed at the surface using cold patch asphalt.

- Prior to discontinuing CAMP, VOC and mercury vapor concentrations were confirmed to return to background conditions at each perimeter station using the handheld PID and handheld Jerome® J505 mercury vapor analyzer. CAMP stations were discontinued sequentially between 12:03 pm and 12:11 pm at the conclusion of ground-intrusive activities.

- Mercury vapor concentrations at each CAMP station ranged from 0.00 to 0.03 $\mu\text{g}/\text{m}^3$.
- VOC concentrations at each CAMP station were recorded at 0.0 ppm.



DAILY AIR MONITORING REPORT

250 Water Street Remediation Site

Manhattan, New York

07/05/22

Project number: 170381202

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Submitted By:

Rev. No. 0

Dust Action Level ($\mu\text{g}/\text{m}^3$)

100

VOC Action Level (ppm)

5

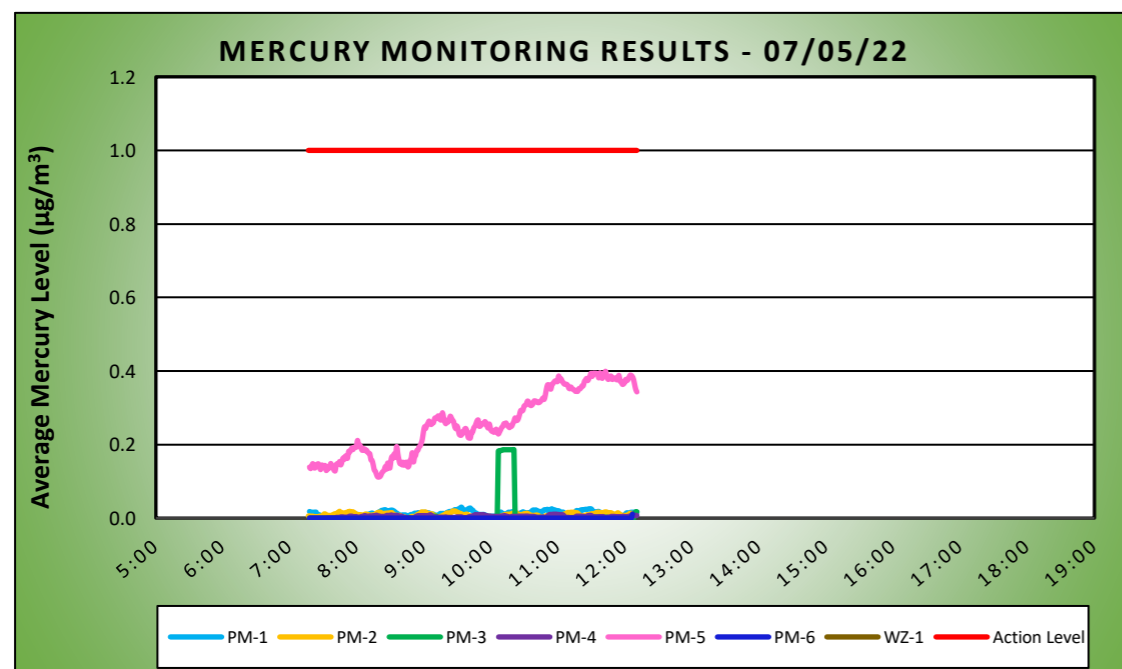
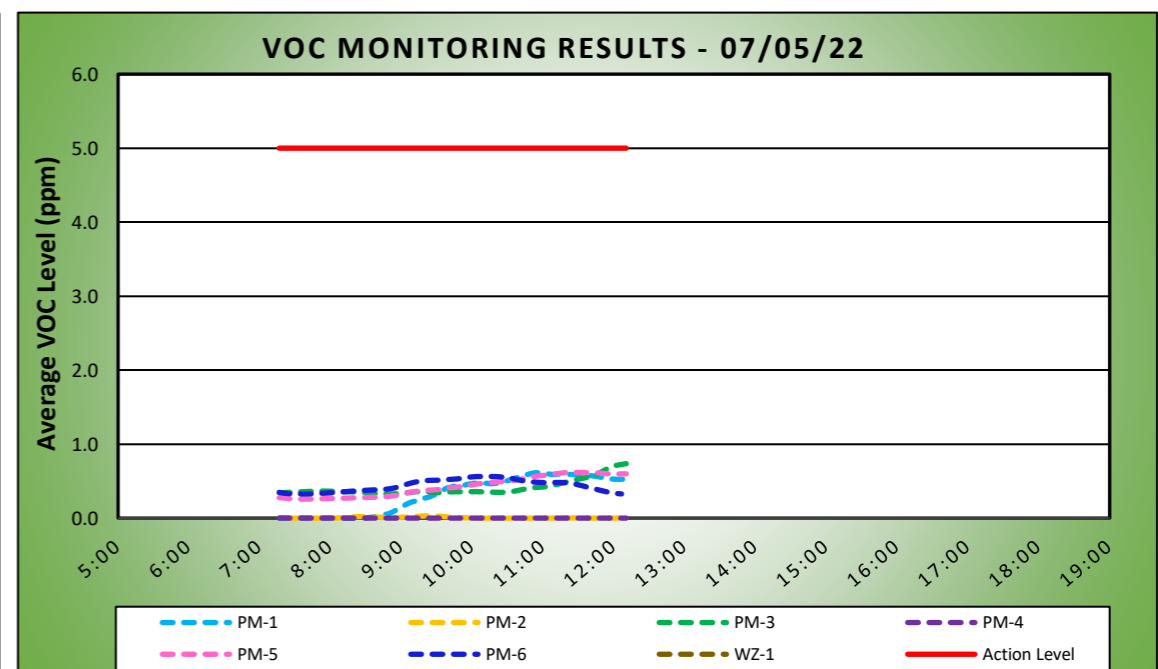
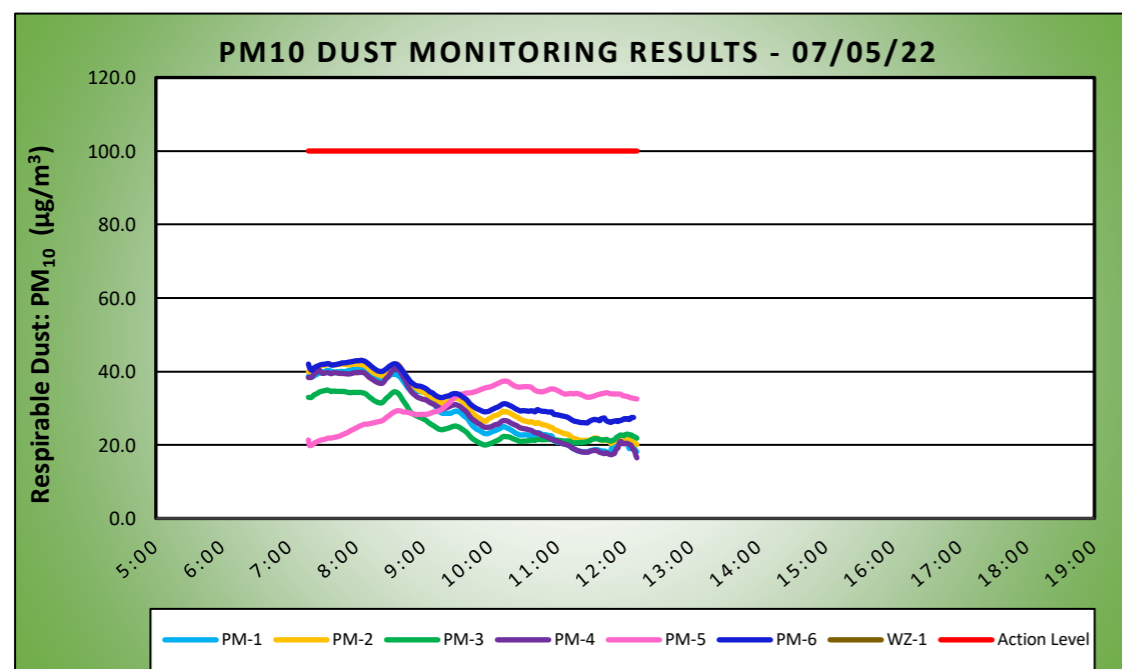
Hg Action Level ($\mu\text{g}/\text{m}^3$)

1.0

Weather Data Range for Work Day		Wind Direction	SE	Relative Humidity (%)	36.4 - 56.1	Daily Rain (in)	0.00	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp (°F)	72.6 - 85.4	Wind Speed (MPH)	1.4 - 7.0	Barometer (inHg)	30.10 - 30.17			

Station Location Work Area	Daily Avg. Dust Concentration ($\mu\text{g}/\text{m}^3$)	Max 15 Minute Dust Concentration ($\mu\text{g}/\text{m}^3$)	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	28.7	40.7	8:03	0.3	0.6	10:55
PM-2	31.1	42.1	8:35	0.0	0.0	9:27
PM-3	26.0	34.9	7:34	0.4	0.7	12:11
PM-4	28.8	40.7	8:35	0.0	0.0	7:17
PM-5	31.5	37.4	10:13	0.4	0.6	11:26
PM-6	33.6	43.0	8:04	0.4	0.6	10:13
WZ-1	N/A	N/A	N/A	N/A	N/A	N/A

Station Location Work Area	Daily Avg. Mercury Concentration ($\mu\text{g}/\text{m}^3$)	Max 15 Minute Mercury Concentration ($\mu\text{g}/\text{m}^3$)	Time of Max 15 Minute Avg Mercury Reading
PM-1	0.0	0.0	9:34
PM-2	0.0	0.0	9:26
PM-3	0.0	0.2	10:11
PM-4	0.0	0.0	10:56
PM-5	0.3	0.4	11:43
PM-6	0.0	0.0	12:07
WZ-1	N/A	N/A	N/A



Air Monitoring Notes:

Langan performed air monitoring at the perimeter of the site at six total locations for particulate matter less than 10 microns in diameter (PM10), VOCs, and mercury vapor. Fifteen-minute average concentrations of PM10, VOCs, and mercury vapor did not exceed the action levels established in the site community air monitoring plan (CAMP) for the duration of air monitoring activities.

Background Concentrations

Prior to implementation of air monitoring, 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 $\mu\text{g}/\text{m}^3$ to 0.01 $\mu\text{g}/\text{m}^3$.
- Background concentrations of VOCs at each CAMP station were recorded at 0.0 ppm.

Ambient Air (Handheld Jerome® J505 and Handheld PID)

- The dedicated mobile monitor (Langan) used three handheld Jerome® J505 mercury vapor analyzers to monitor ambient air conditions at various heights throughout the site.

Instantaneous mercury vapor concentrations throughout the site ranged from 0.00 $\mu\text{g}/\text{m}^3$ to 0.11 $\mu\text{g}/\text{m}^3$.

- The dedicated mobile monitor (Langan) used a handheld PID to monitor VOC concentrations throughout the site. Instantaneous VOC concentrations were not detected above background concentrations throughout the work day.

Prior to CAMP Shutdown

Prior to discontinuing air monitoring activities, VOC and mercury vapor concentrations were confirmed to return to background conditions at each perimeter station using the handheld PID and handheld Jerome® J505 mercury vapor analyzer. CAMP stations were discontinued sequentially between 12:07pm and 12:11 pm at the conclusion of ground-intrusive activities.

- Mercury vapor concentrations at each CAMP station ranged from 0.00 to 0.04 $\mu\text{g}/\text{m}^3$.
- VOC concentrations at each CAMP station were recorded at 0.0 ppm.





DAILY AIR MONITORING REPORT

250 Water Street Remediation Site

Manhattan, New York

07/06/22

Project number: 170381202

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Rev. No. 0

Submitted By:

Dust Action Level ($\mu\text{g}/\text{m}^3$)

100

VOC Action Level (ppm)

5

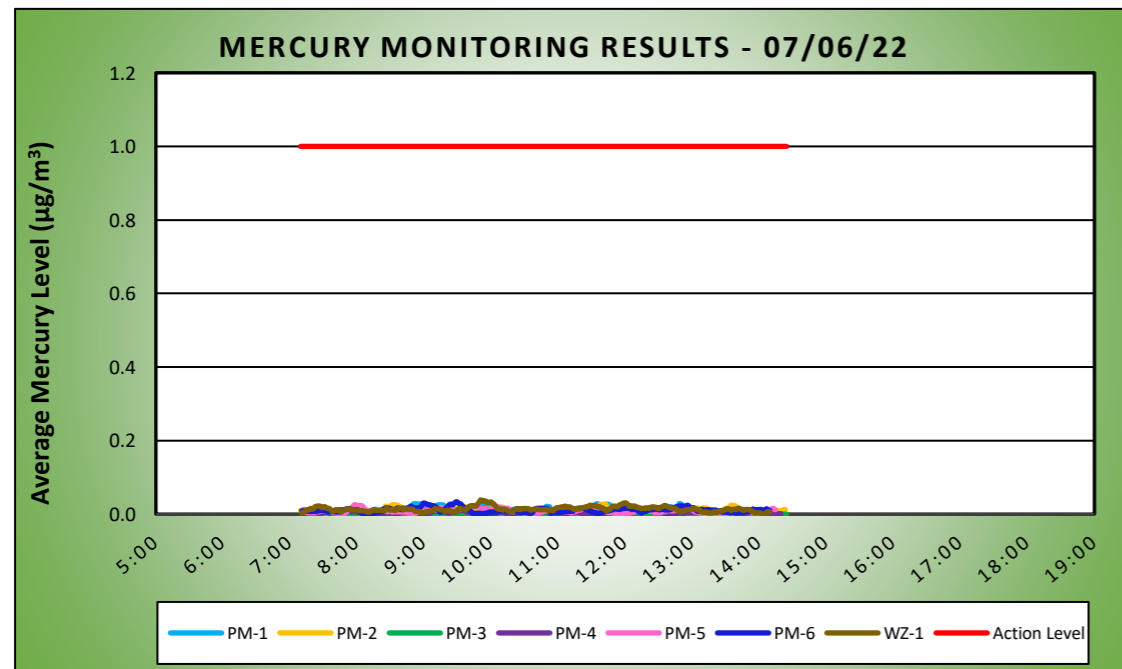
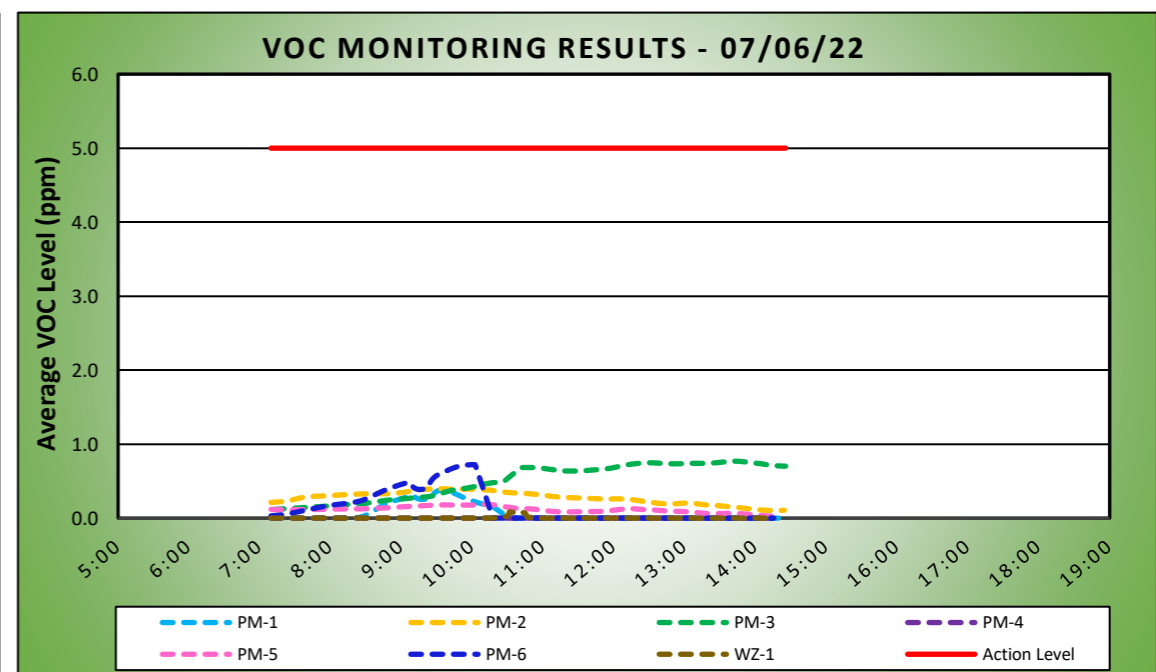
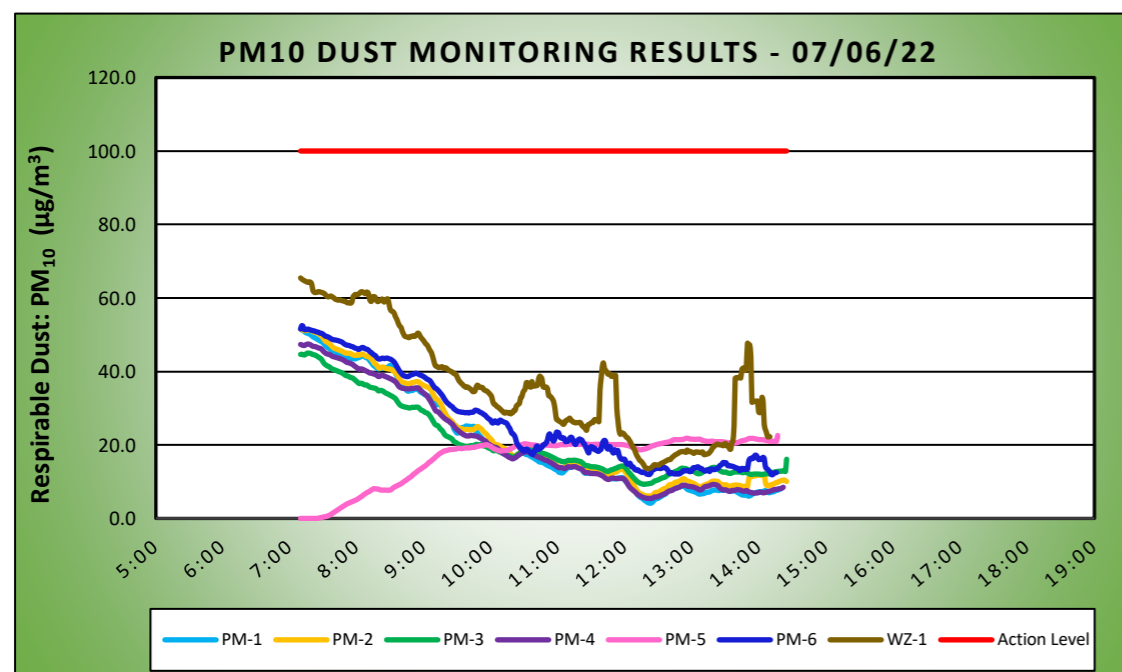
Hg Action Level ($\mu\text{g}/\text{m}^3$)

1.0

Weather Data Range for Work Day		Wind Direction	ENE	Relative Humidity (%)	39.8 - 77.0	Daily Rain (in)	0.00	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp (°F)	77.0 - 86.3	Wind Speed (MPH)	0.7 - 6.2	Barometer (inHg)	29.86 - 29.94			

Station Location Work Area	Daily Avg. Dust Concentration ($\mu\text{g}/\text{m}^3$)	Max 15 Minute Dust Concentration ($\mu\text{g}/\text{m}^3$)	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	21.4	51.6	7:10	0.1	0.4	9:36
PM-2	22.6	51.6	7:10	0.3	0.4	9:30
PM-3	21.3	45.0	7:17	0.5	0.8	13:44
PM-4	20.9	47.4	7:17	0.0	0.0	7:10
PM-5	16.1	22.6	14:17	0.1	0.2	10:10
PM-6	26.6	52.4	7:11	0.1	0.7	10:01
WZ-1	36.7	65.5	7:10	0.0	0.1	10:32

Station Location Work Area	Daily Avg. Mercury Concentration ($\mu\text{g}/\text{m}^3$)	Max 15 Minute Mercury Concentration ($\mu\text{g}/\text{m}^3$)	Time of Max 15 Minute Avg Mercury Reading
PM-1	0.0	0.0	12:49
PM-2	0.0	0.0	11:41
PM-3	0.0	0.0	10:30
PM-4	0.0	0.0	12:20
PM-5	0.0	0.0	7:58
PM-6	0.0	0.0	9:29
WZ-1	0.0	0.0	7:11



Air Monitoring Notes:

Langan performed air monitoring at the perimeter of the site and at the northern sidewalk of Pearl Street at seven total locations for particulate matter less than 10 microns in diameter (PM10), volatile organic compounds (VOCs), and mercury vapor. Fifteen-minute average concentrations of PM10, VOCs, and mercury vapor did not exceed the action levels established in the site CAMP for the duration of air monitoring activities.

Background Concentrations

Prior to implementation of air monitoring, 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 $\mu\text{g}/\text{m}^3$.
- Background concentrations of VOCs at each CAMP station were recorded at 0.0 parts per million (ppm).

Ambient Air (Handheld Jerome® J505 and Handheld PID)

- The dedicated mobile monitor (Langan) used two handheld Jerome® J505 mercury vapor analyzers to monitor ambient air conditions at various heights throughout the site. Instantaneous mercury vapor concentrations throughout the site ranged from 0.00 $\mu\text{g}/\text{m}^3$ to 0.14 $\mu\text{g}/\text{m}^3$.
- The dedicated mobile monitor (Langan) used a handheld PID to monitor VOC concentrations throughout the site. Instantaneous VOC concentrations were not detected above background concentrations throughout the work day.

Off-Site CAMP Station Relocation

- CAMP station WZ-1 was placed on the northern sidewalk of Pearl Street from 6:56am to 2:10pm during removal of a Citi Bike station located along the Pearl Street sidewalk, immediately north of the site.

Prior to CAMP Shutdown

- Prior to discontinuing CAMP, VOC and mercury vapor concentrations were confirmed to return to background conditions at each perimeter station using the handheld PID and handheld Jerome® J505 mercury vapor analyzer. CAMP stations were discontinued sequentially between 2:10pm and 2:25pm.
- Mercury vapor concentrations at each CAMP station ranged from 0.00 to 0.05 $\mu\text{g}/\text{m}^3$.
- VOC concentrations at each CAMP station were recorded at 0.1 ppm.





DAILY AIR MONITORING REPORT

250 Water Street Remediation Site

Manhattan, New York

07/07/22

Project number: 170381202

Page 1 of 2

Rev. No. 0

Submitted By:

Dust Action Level ($\mu\text{g}/\text{m}^3$)

100

VOC Action Level (ppm)

5

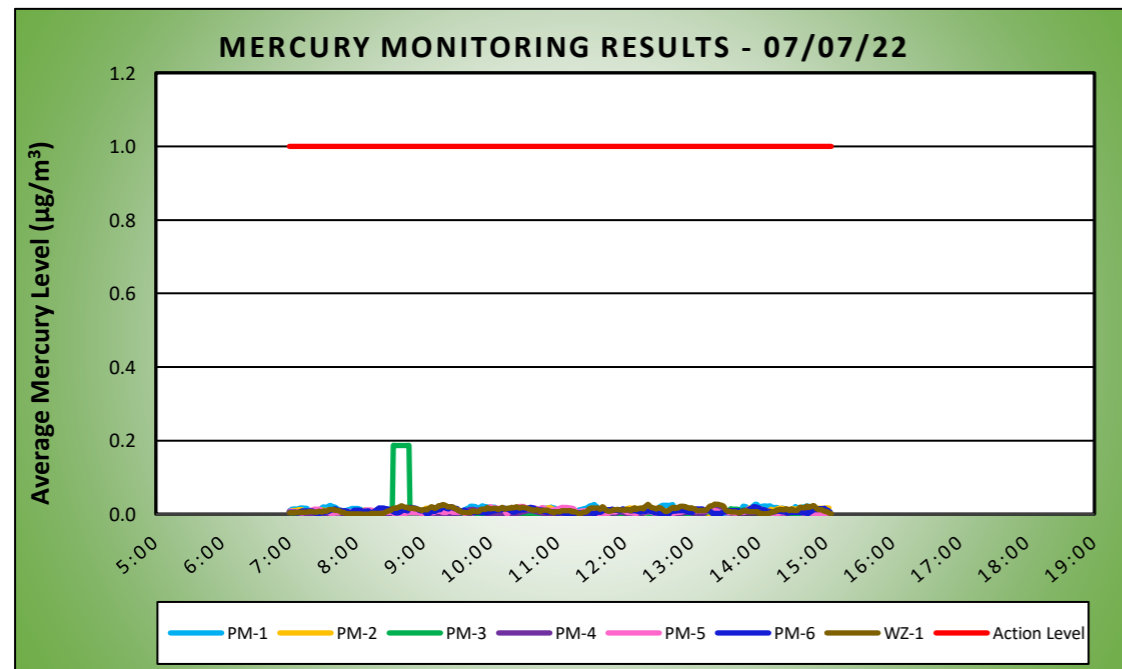
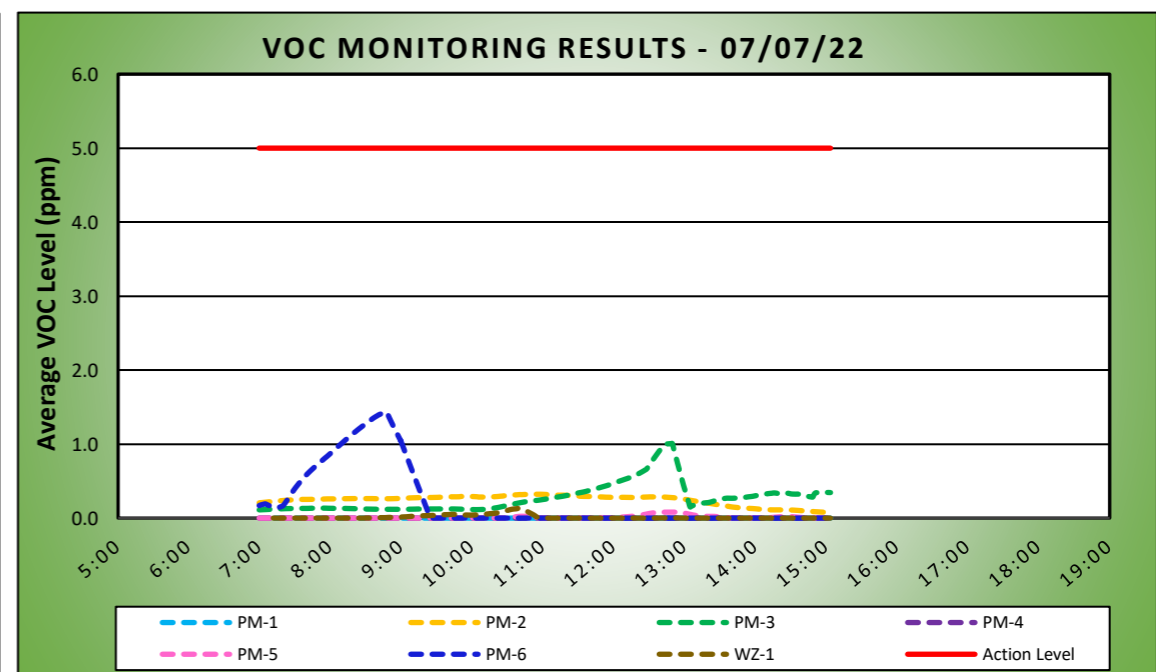
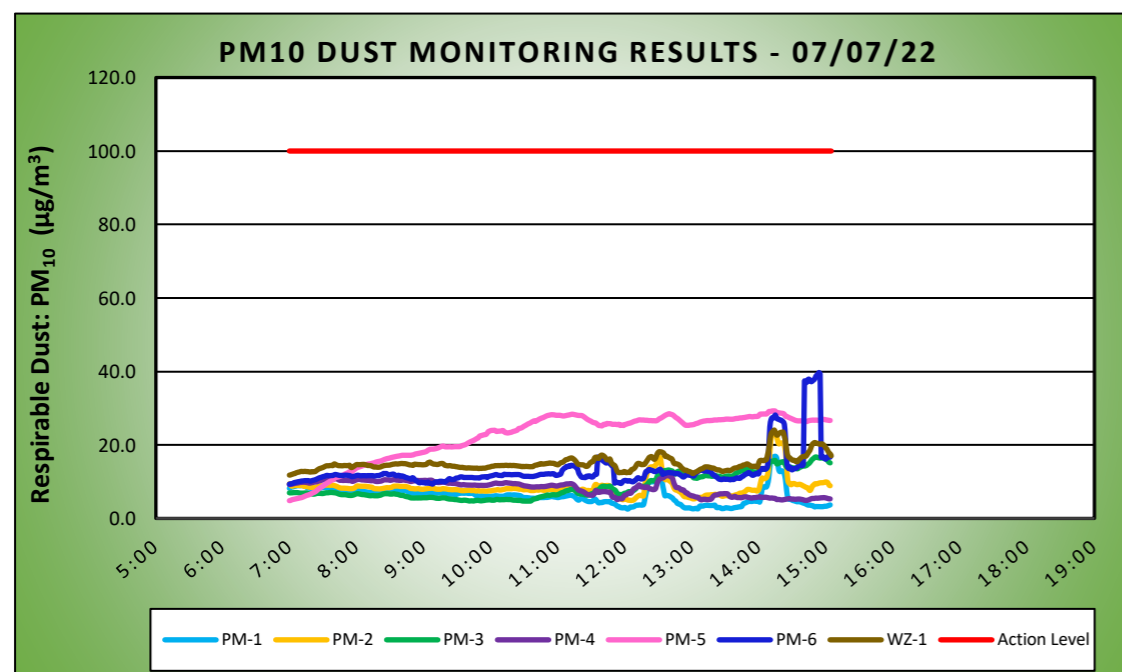
Hg Action Level ($\mu\text{g}/\text{m}^3$)

1.0

Weather Data Range for Work Day		Wind Direction	N	Relative Humidity (%)	42.0 - 60.9	Daily Rain (in)	0.00	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp ($^{\circ}\text{F}$)	74.6 - 82.9	Wind Speed (MPH)	0.8 - 10.2	Barometer (inHg)	30.06 - 30.08			

Station Location Work Area	Daily Avg. Dust Concentration ($\mu\text{g}/\text{m}^3$)	Max 15 Minute Dust Concentration ($\mu\text{g}/\text{m}^3$)	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	6.1	16.9	14:15	0.0	0.0	7:13
PM-2	8.6	23.5	14:15	0.2	0.3	10:53
PM-3	8.7	16.7	14:51	0.3	1.0	12:50
PM-4	8.2	11.7	12:40	0.0	0.0	7:00
PM-5	22.1	29.3	14:13	0.0	0.1	12:51
PM-6	13.1	39.7	14:54	0.2	1.4	8:48
WZ-1	15.0	24.1	N/A	0.0	0.1	N/A

Station Location Work Area	Daily Avg. Mercury Concentration ($\mu\text{g}/\text{m}^3$)	Max 15 Minute Mercury Concentration ($\mu\text{g}/\text{m}^3$)	Time of Max 15 Minute Avg Mercury Reading
PM-1	0.0	0.0	13:57
PM-2	0.0	0.0	10:28
PM-3	0.0	0.2	8:33
PM-4	0.0	0.0	13:17
PM-5	0.0	0.0	10:26
PM-6	0.0	0.0	9:25
WZ-1	0.0	0.0	N/A



Air Monitoring Notes:

Langan performed air monitoring at the perimeter of the site and at the work zone at seven total locations for particulate matter less than 10 microns in diameter (PM10), volatile organic compounds (VOCs), and mercury vapor, during ground-intrusive activities. Fifteen-minute average concentrations of PM10, VOCs, and mercury vapor did not exceed the action levels established in the site community air monitoring plan (CAMP) for the duration of work activities.

Background Concentrations

Prior to implementation of air monitoring, 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 0.05 $\mu\text{g}/\text{m}^3$.
- Background concentrations of VOCs at each CAMP station ranged from 0.0 to 0.1 ppm.

Ambient Air (Handheld Jerome® J505 and Handheld PID)

- The dedicated mobile monitor (Langan) used two handheld Jerome® J505 mercury vapor analyzers to monitor ambient air conditions at various heights throughout the site. Instantaneous mercury vapor concentrations throughout the site ranged from 0.00 $\mu\text{g}/\text{m}^3$ to 0.11 $\mu\text{g}/\text{m}^3$.

- The dedicated mobile monitor (Langan) used a handheld PID to monitor VOC concentrations throughout the site. Instantaneous VOC concentrations were not detected above background concentrations throughout the work day.

Equipment Troubleshooting

The PID at perimeter CAMP station PM-6 was recalibrated at 9:01am due to a persistent reading of 1.0 ppm, which was inconsistent with readings on the handheld unit (0.0 ppm). VOC concentrations returned to background conditions following equipment recalibration and data logging resumed at 9:10am.

Prior to CAMP Shutdown

Prior to discontinuing air monitoring activities, VOC and mercury vapor concentrations were confirmed to return to background conditions at each perimeter station using the handheld PID and handheld Jerome® J505 mercury vapor analyzer. CAMP stations were discontinued between 3:04pm and 3:05pm at the conclusion of ground-intrusive activities.

- Mercury vapor concentrations at each CAMP station were recorded at 0.00 $\mu\text{g}/\text{m}^3$.
- VOC concentrations at each CAMP station were recorded at 0.0 ppm.





DAILY AIR MONITORING REPORT

250 Water Street Remediation Site

Manhattan, New York

07/08/22

Project number: 170381202

Page 1 of 2

Rev. No. 0

Submitted By:

Dust Action Level ($\mu\text{g}/\text{m}^3$)

100

VOC Action Level (ppm)

5

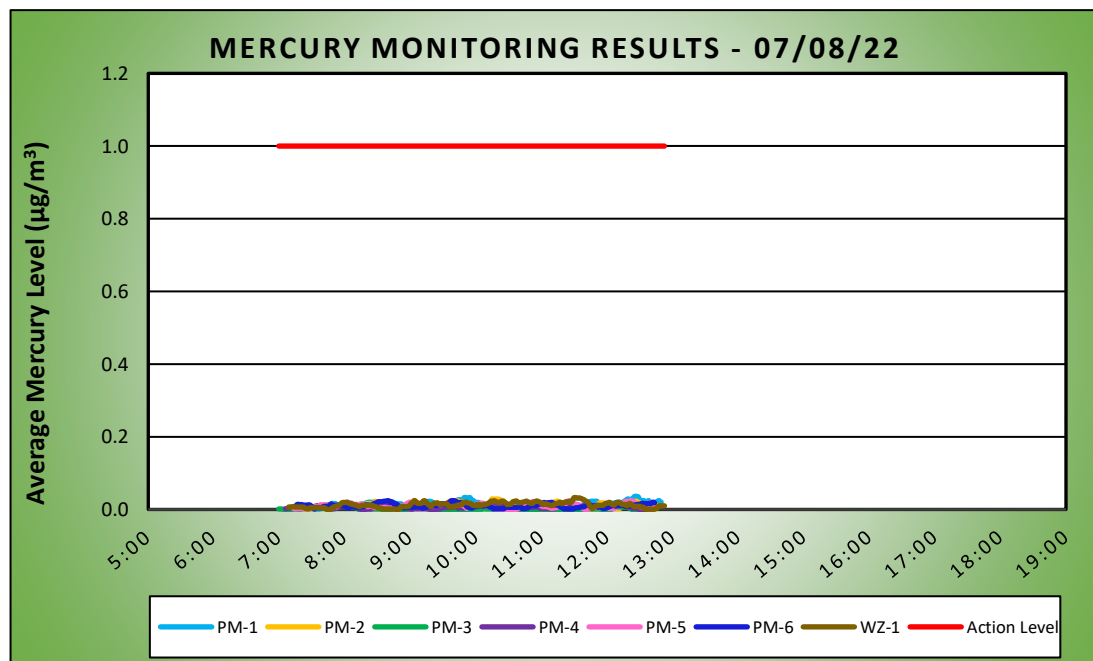
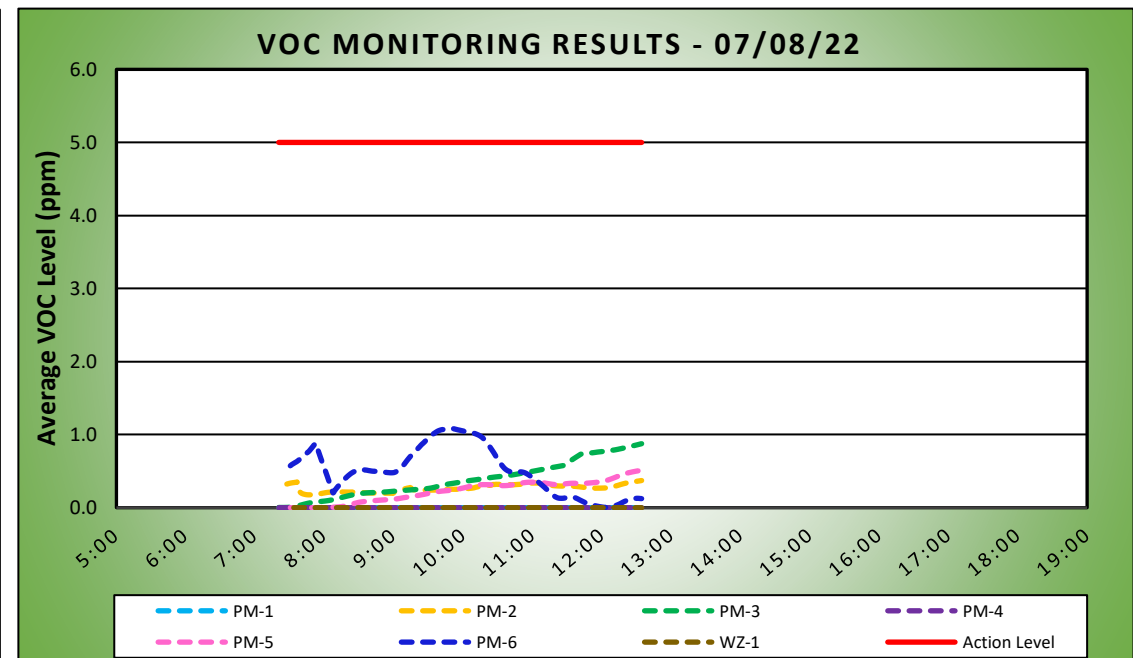
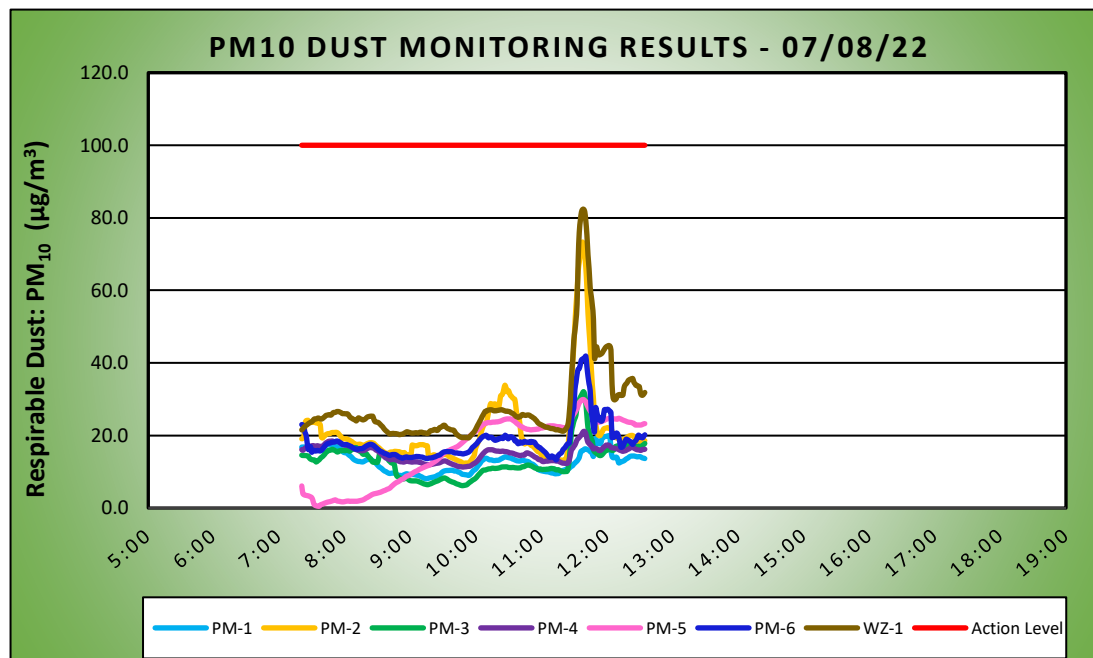
Hg Action Level ($\mu\text{g}/\text{m}^3$)

1.0

Weather Data Range for Work Day		Wind Direction	SW	Relative Humidity (%)	52.1 - 75.1	Daily Rain (in)	0.00	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp (°F)	71.0 - 81.5	Wind Speed (MPH)	0.7 - 5.1	Barometer (inHg)	30.07 - 30.10			

Station Location Work Area	Daily Avg. Dust Concentration ($\mu\text{g}/\text{m}^3$)	Max 15 Minute Dust Concentration ($\mu\text{g}/\text{m}^3$)	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	12.8	20.0	12:03	0.0	0.0	7:30
PM-2	21.0	73.3	11:38	0.3	0.4	12:35
PM-3	13.0	32.1	11:39	0.4	0.9	12:35
PM-4	15.1	21.1	11:39	0.0	0.0	7:21
PM-5	16.0	29.9	11:38	0.2	0.5	12:35
PM-6	18.6	41.9	11:41	0.5	1.1	9:50
WZ-1	28.0	82.4	N/A	0.0	0.0	N/A

Station Location Work Area	Daily Avg. Mercury Concentration ($\mu\text{g}/\text{m}^3$)	Max 15 Minute Mercury Concentration ($\mu\text{g}/\text{m}^3$)	Time of Max 15 Minute Avg Mercury Reading
PM-1	0.0	0.0	12:27
PM-2	0.0	0.0	10:15
PM-3	0.0	0.0	7:58
PM-4	0.0	0.0	12:08
PM-5	0.0	0.0	12:22
PM-6	0.0	0.0	9:39
WZ-1	0.0	0.0	N/A



Air Monitoring Notes:

Langan performed air monitoring at the perimeter of the site and at the work zone at seven total locations for particulate matter less than 10 microns in diameter (PM10), VOCs, and mercury vapor, during ground-intrusive activities. Fifteen-minute average concentrations of VOCs and mercury vapor did not exceed the action levels established in the site community air monitoring plan (CAMP) for the duration of work activities.

Background Concentrations

Prior to implementation of ground-intrusive work, 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 $\mu\text{g}/\text{m}^3$ to 0.01 $\mu\text{g}/\text{m}^3$.
- Background concentrations of VOCs at each CAMP station were recorded at 0.0 ppm.

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 $\mu\text{g}/\text{m}^3$ to 0.10 $\mu\text{g}/\text{m}^3$.

- The dedicated mobile monitor (Langan) used a handheld PID to monitor VOC concentrations throughout the site. Instantaneous VOC concentrations were not detected above background concentrations throughout the work day.

Off-Site CAMP Station Relocation

- CAMP station WZ-1 was relocated to the southern sidewalk of Water Street from 6:54am to 12:35pm during advancement of soil borings in the west-central and south-central parts of the site.

Prior to CAMP Shutdown

Prior to discontinuing CAMP at the conclusion of ground-intrusive activities, VOC and mercury vapor concentrations were confirmed to return to background conditions at each perimeter station using the handheld PID and handheld Jerome® J505 mercury vapor analyzer. CAMP stations were discontinued sequentially between 12:35pm and 12:53pm at the conclusion of ground-intrusive activities.

- Mercury vapor concentrations at each CAMP station ranged from 0.00 to 0.04 $\mu\text{g}/\text{m}^3$.





DAILY AIR MONITORING REPORT

250 Water Street Remediation Site

Manhattan, New York

07/11/22

Project number: 170381202

Page 1 of 2

Rev. No. 0

Submitted By:

Dust Action Level ($\mu\text{g}/\text{m}^3$)

100

VOC Action Level (ppm)

5

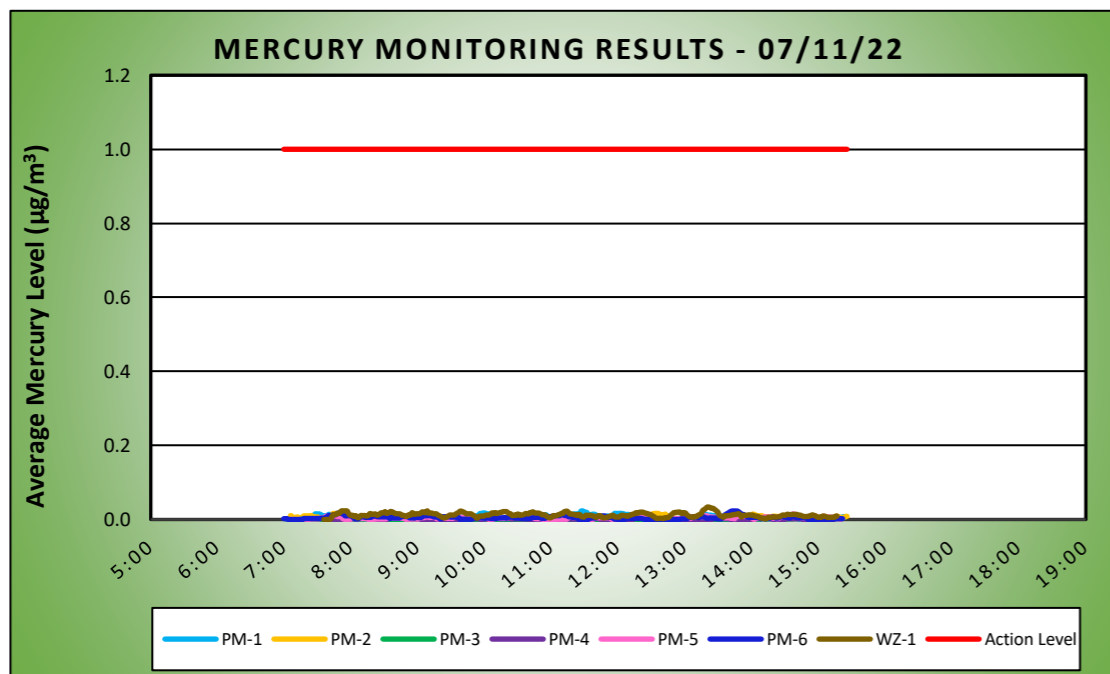
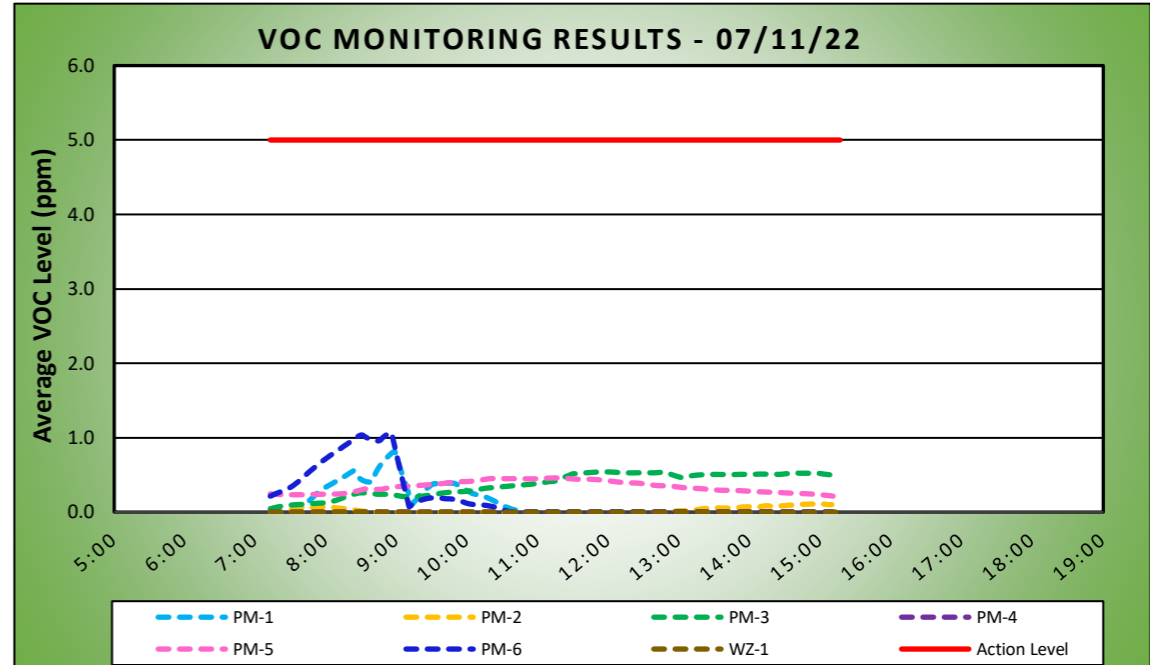
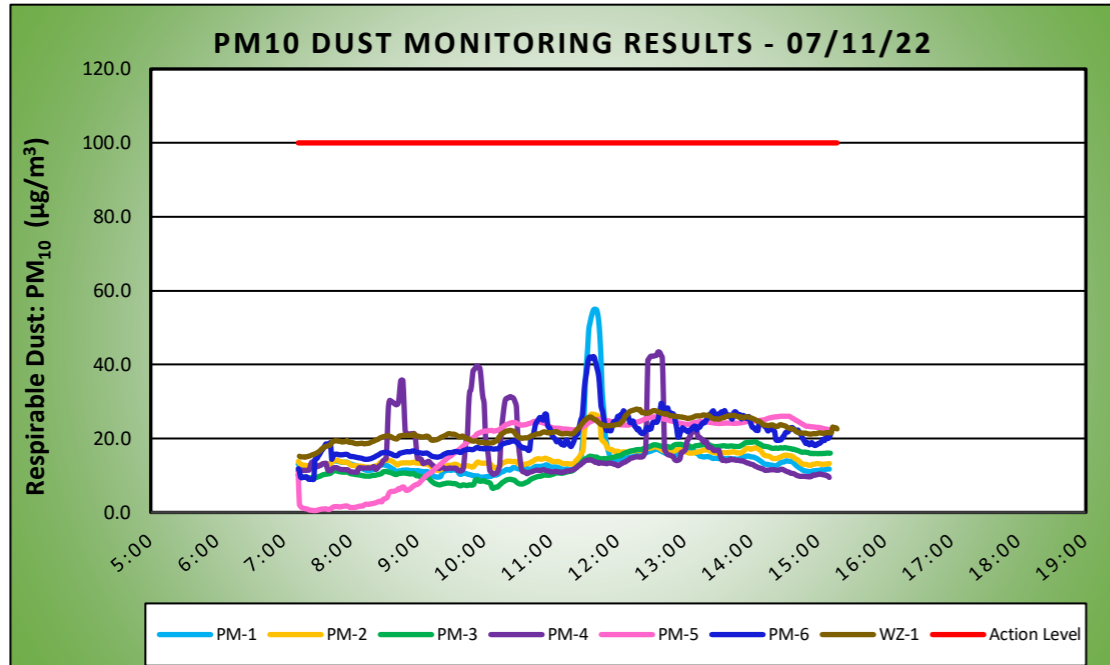
Hg Action Level ($\mu\text{g}/\text{m}^3$)

1.0

Weather Data Range for Work Day		Wind Direction	SE	Relative Humidity (%)	36.8 - 66.4	Daily Rain (in)	0.00	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp (°F)	69.0 - 84.0	Wind Speed (MPH)	1.4 - 6.4	Barometer (inHg)	29.98 - 30.08			

Station Location Work Area	Daily Avg. Dust Concentration ($\mu\text{g}/\text{m}^3$)	Max 15 Minute Dust Concentration ($\mu\text{g}/\text{m}^3$)	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	14.2	55.0	11:39	0.1	0.8	8:58
PM-2	14.8	26.6	11:37	0.0	0.1	14:52
PM-3	13.1	19.2	14:03	0.4	0.5	11:56
PM-4	15.8	43.5	12:37	0.0	0.0	8:43
PM-5	18.5	26.0	14:26	0.3	0.5	11:16
PM-6	20.4	42.2	11:38	0.2	1.1	8:56
WZ-1	22.1	28.0	N/A	0.0	0.0	N/A

Station Location Work Area	Daily Avg. Mercury Concentration ($\mu\text{g}/\text{m}^3$)	Max 15 Minute Mercury Concentration ($\mu\text{g}/\text{m}^3$)	Time of Max 15 Minute Avg Mercury Reading
PM-1	0.0	0.0	11:27
PM-2	0.0	0.0	12:33
PM-3	0.0	0.0	14:10
PM-4	0.0	0.0	8:48
PM-5	0.0	0.0	14:38
PM-6	0.0	0.0	13:43
WZ-1	0.0	0.0	N/A



Air Monitoring Notes:

Langan performed air monitoring at the perimeter of the site and at the work zone at seven total locations for particulate matter less than 10 microns in diameter (PM10), volatile organic compounds (VOCs), and mercury vapor, during ground-intrusive activities. Fifteen-minute average concentrations of VOCs and mercury vapor did not exceed the action levels established in the site community air monitoring plan (CAMP) for the duration of work activities.

Background Concentrations

Prior to implementation of ground-intrusive work, 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 $\mu\text{g}/\text{m}^3$.
- Background concentrations of VOCs at each CAMP station were recorded at 0.0 ppm.

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 $\mu\text{g}/\text{m}^3$ to 0.12 $\mu\text{g}/\text{m}^3$.
- The dedicated mobile monitor (Langan) used a handheld PID to monitor VOC concentrations throughout the site. Instantaneous VOC concentrations were not detected above background concentrations throughout the work day.

Off-Site CAMP Station Relocation

- CAMP station WZ-1 was relocated to the eastern sidewalk of Peck Slip from 7:21am to 15:17pm during extension of the perimeter construction fence in the eastern part of the site.

Prior to CAMP Shutdown

Prior to discontinuing CAMP at the conclusion of ground-intrusive activities, VOC and mercury vapor concentrations were confirmed to return to background conditions at each perimeter station using the handheld PID and handheld Jerome® J505 mercury vapor analyzer. CAMP stations were discontinued sequentially between 15:10pm and 15:26pm at the conclusion of ground-intrusive activities.

- Mercury vapor concentrations at each CAMP station ranged from 0.00 to 0.09 $\mu\text{g}/\text{m}^3$.
- VOC concentrations at each CAMP station ranged from 0.0 to 0.1 ppm.



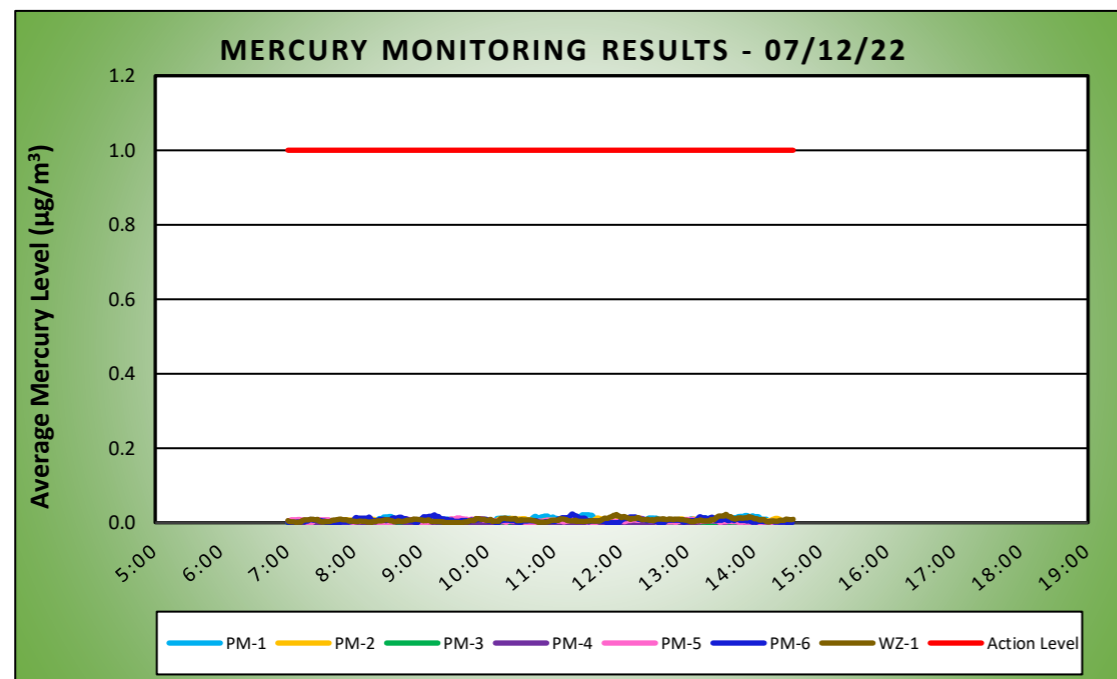
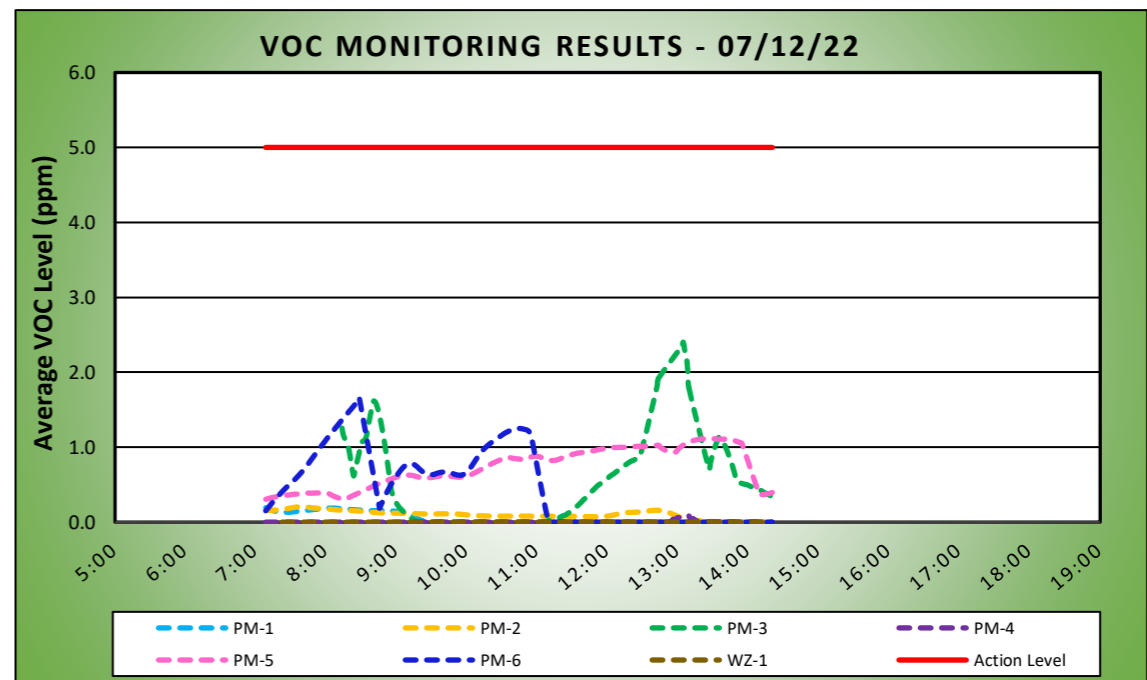
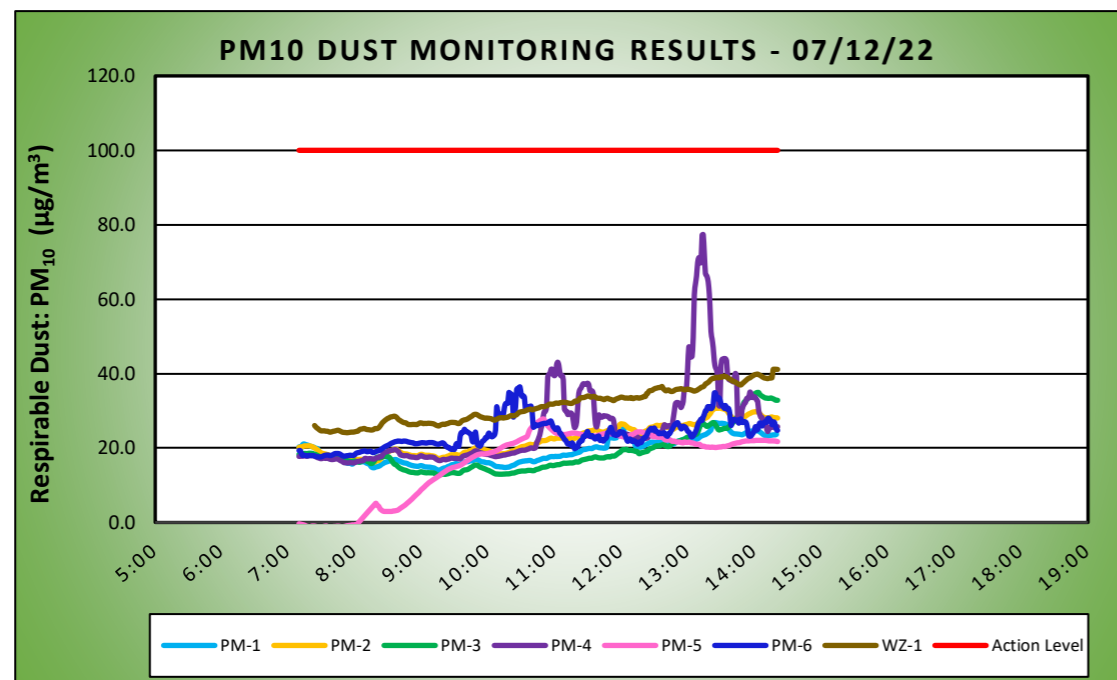
DAILY AIR MONITORING REPORT
250 Water Street Remediation Site
Manhattan, New York

07/12/22	
Project number: 170381202	
Page 1 of 2	Rev. No. 0
Submitted By:	
Dust Action Level ($\mu\text{g}/\text{m}^3$)	100
VOC Action Level (ppm)	5
Hg Action Level ($\mu\text{g}/\text{m}^3$)	1.0

Weather Data Range for Work Day		Wind Direction	SE	Relative Humidity (%)	46.1 - 77.4	Daily Rain (in)	0.00	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp (°F)	71.7 - 88.3	Wind Speed (MPH)	1.8 - 6.4	Barometer (inHg)	29.80 - 29.90			

Station Location Work Area	Daily Avg. Dust Concentration ($\mu\text{g}/\text{m}^3$)	Max 15 Minute Dust Concentration ($\mu\text{g}/\text{m}^3$)	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	19.2	26.9	13:25	0.0	0.2	7:09
PM-2	22.3	30.8	13:29	0.1	0.2	7:38
PM-3	18.9	34.9	14:03	0.6	2.4	13:05
PM-4	25.6	77.4	13:14	0.0	0.1	13:05
PM-5	16.0	27.9	10:50	0.7	1.1	13:24
PM-6	23.7	36.4	10:29	0.4	1.6	8:29
WZ-1	31.4	41.2	14:17	0.0	0.0	7:23

Station Location Work Area	Daily Avg. Mercury Concentration ($\mu\text{g}/\text{m}^3$)	Max 15 Minute Mercury Concentration ($\mu\text{g}/\text{m}^3$)	Time of Max 15 Minute Avg Mercury Reading
PM-1	0.0	0.0	11:25
PM-2	0.0	0.0	11:38
PM-3	0.0	0.0	13:03
PM-4	0.0	0.0	13:18
PM-5	0.0	0.0	9:32
PM-6	0.0	0.0	11:16
WZ-1	0.0	0.0	7:00



Air Monitoring Notes:

Langan performed air monitoring at the perimeter of the site and at the work zone at seven total locations for particulate matter less than 10 microns in diameter (PM10), volatile organic compounds (VOCs), and mercury vapor, during ground-intrusive activities. Fifteen-minute average concentrations of PM10, VOCs and mercury vapor did not exceed the action levels established in the site community air monitoring plan (CAMP) for the duration of work activities.

Background Concentrations

Prior to implementation of ground-intrusive work, 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 0.03 $\mu\text{g}/\text{m}^3$.
- Background concentrations of VOCs at each CAMP station were recorded at 0.0 parts per million (ppm).

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 $\mu\text{g}/\text{m}^3$ to 0.11 $\mu\text{g}/\text{m}^3$.

- The dedicated mobile monitor (Langan) used a handheld PID to monitor VOC concentrations throughout the site. Instantaneous VOC concentrations were not detected above background concentrations throughout the work day.

Equipment Troubleshooting:

- The DustTrak unit at perimeter CAMP station PM-5 was recalibrated at 8:03am due to persistent negative readings being recorded. PM10 concentrations returned to background conditions following equipment recalibration and data logging resumed at 8:04am. Fugitive dust or odors were not observed migrating the site during this time.
- The PID at perimeter CAMP station PM-6 was recalibrated at 8:30am due to persistent readings ranging between 1.0 and 1.8 ppm, which was inconsistent with readings on the handheld unit (0.0 ppm). VOC concentrations returned on background conditions following equipment recalibration and data logging resumed at 8:31am.
- The PID at perimeter CAMP station PM-3 was recalibrated at 12:45pm due to persistent readings ranging between 1.0 and 2.8 ppm, which were inconsistent with readings on the handheld unit (0.0 ppm). Data logging resumed at 12:46pm and VOC concentrations returned to background conditions for approximately 4 minutes before spiking again. The PID at perimeter CAMP station PM-3 was replaced with a spare unit at 1:11pm. VOC concentrations returned to background conditions and data logging resumed at 1:12pm.

Off-Site CAMP Station Relocation

CAMP station WZ-1 was relocated to the eastern sidewalk of Peck Slip from 7:09am to 2:21pm during excavation and backfill of test pits in the northeastern part of the site.

Prior to CAMP Shutdown

Prior to discontinuing CAMP at the conclusion of ground-intrusive activities, VOC and mercury vapor concentrations were confirmed to return to background conditions at each perimeter station using the handheld PID and handheld Jerome® J505 mercury vapor analyzer. Additionally, areas of exposed soil were covered with polyethylene sheeting. CAMP stations were discontinued sequentially between 2:20pm and 2:21pm at the conclusion of ground-intrusive activities.

- Mercury vapor concentrations at each CAMP station ranged from 0.00 to 0.04 $\mu\text{g}/\text{m}^3$.
- VOC concentrations at each CAMP station were recorded at from 0.0 ppm.

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

07/13/22

Project number: 170381202

Page 1 of 2

Submitted By:

Rev. No. 0

Dust Action Level ($\mu\text{g}/\text{m}^3$)

100

VOC Action Level (ppm)

5

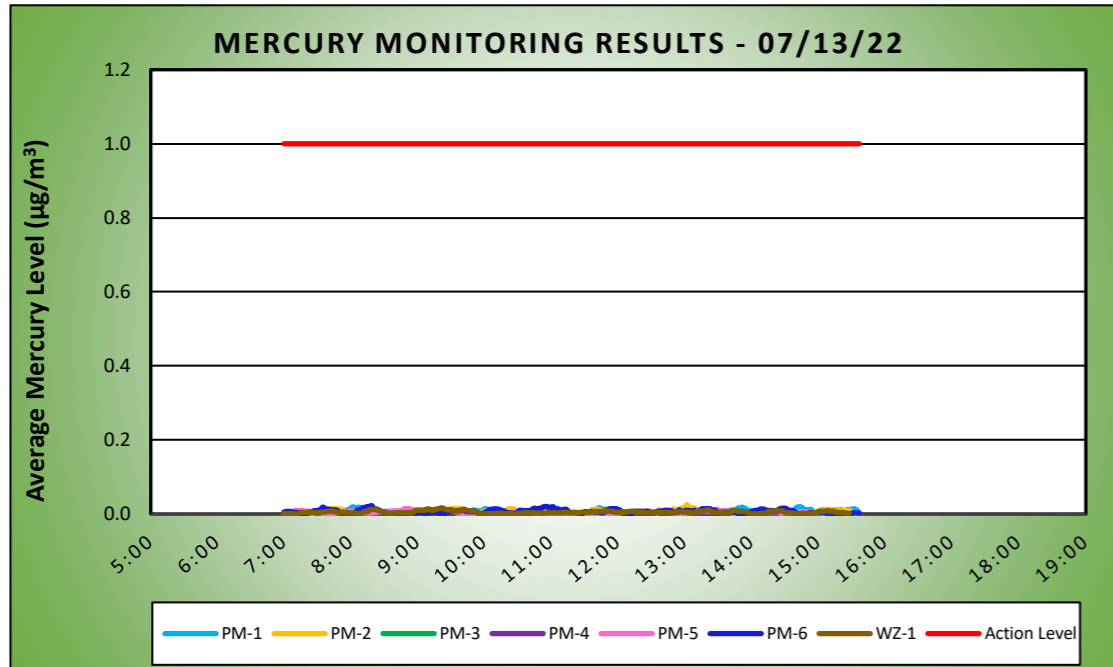
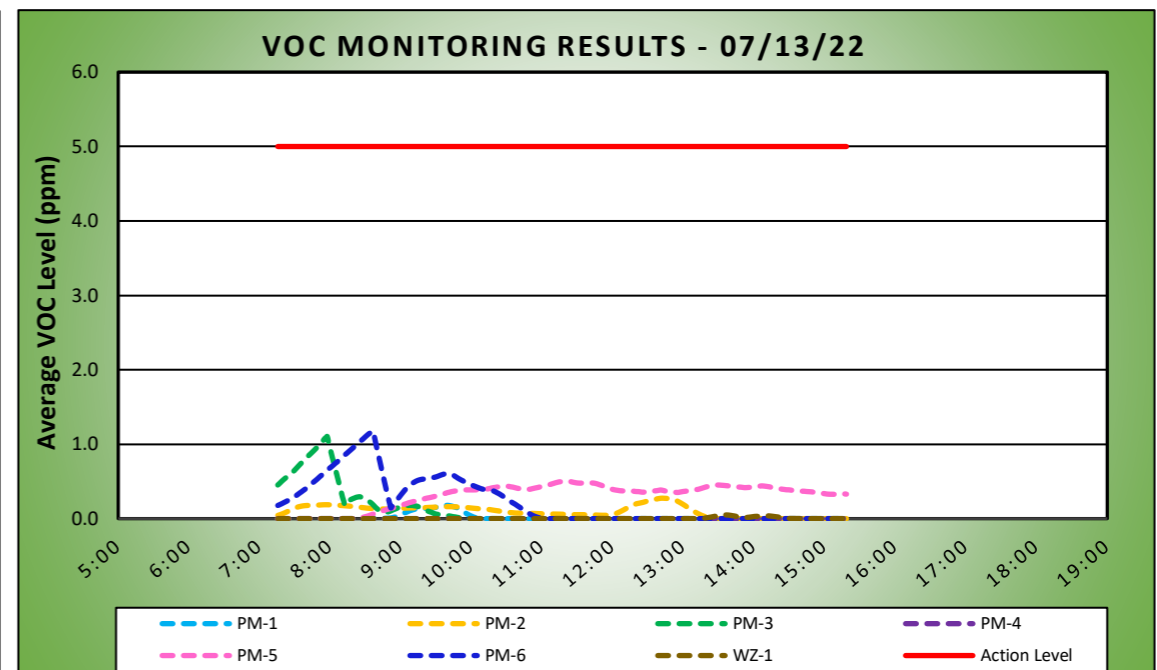
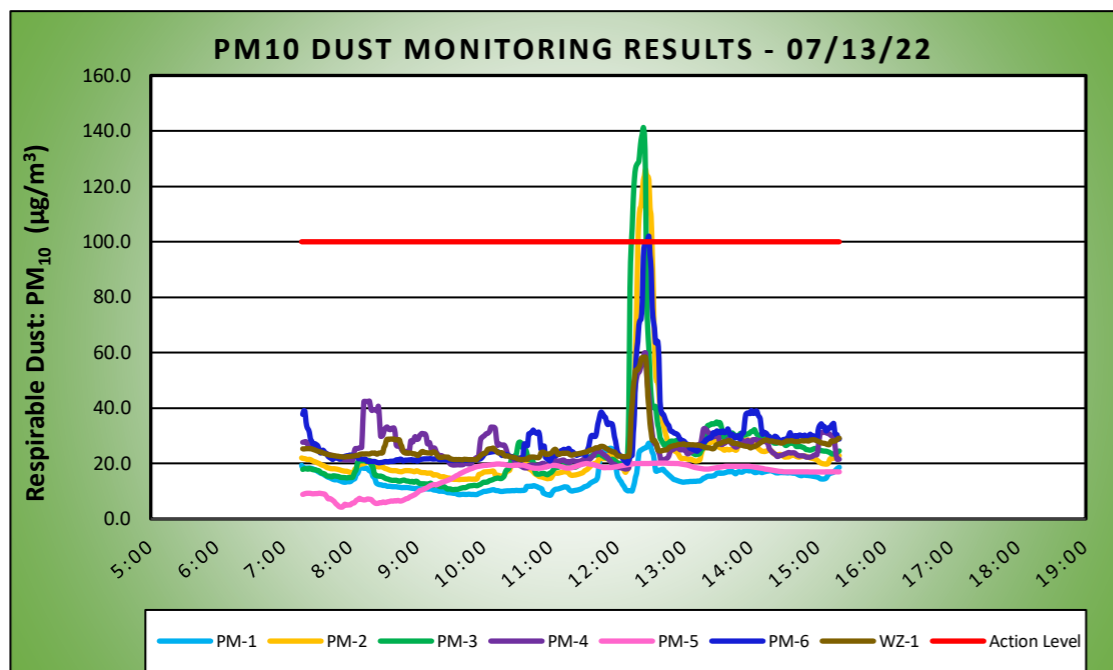
Hg Action Level ($\mu\text{g}/\text{m}^3$)

1.0

Weather Data Range for Work Day		Wind Direction	ENE	Relative Humidity (%)	30.2 - 61.7	Daily Rain (in)	0.00	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp (°F)	77.5 - 90.5	Wind Speed (MPH)	1.1 - 6.5	Barometer (inHg)	29.94 - 29.98			

Station Location Work Area	Daily Avg. Dust Concentration ($\mu\text{g}/\text{m}^3$)	Max 15 Minute Dust Concentration ($\mu\text{g}/\text{m}^3$)	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	14.5	27.4	12:28	0.0	0.2	9:39
PM-2	23.6	*126.1	12:25	0.1	0.3	12:43
PM-3	24.5	*141.3	12:23	0.1	1.1	7:58
PM-4	25.9	60.0	12:24	0.0	0.0	7:16
PM-5	15.6	20.2	12:37	0.3	0.5	11:20
PM-6	28.9	*101.9	12:28	0.2	1.2	8:37
WZ-1	25.9	58.4	12:24	0.0	0.0	7:16

Station Location Work Area	Daily Avg. Mercury Concentration ($\mu\text{g}/\text{m}^3$)	Max 15 Minute Mercury Concentration ($\mu\text{g}/\text{m}^3$)	Time of Max 15 Minute Avg Mercury Reading
PM-1	0.0	0.0	8:02
PM-2	0.0	0.0	13:02
PM-3	0.0	0.0	14:01
PM-4	0.0	0.0	7:27
PM-5	0.0	0.0	8:48
PM-6	0.0	0.0	8:19
WZ-1	0.0	0.0	7:00



Air Monitoring Notes:

Langan performed air monitoring at the perimeter of the site and at the work zone at seven total locations for particulate matter less than 10 microns in diameter (PM10), volatile organic compounds (VOCs), and mercury vapor, during ground-intrusive activities. Fifteen-minute average concentrations of VOCs and mercury vapor did not exceed the action levels established in the site community air monitoring plan (CAMP) for the duration of work activities.

Background Concentrations

Prior to implementation of ground-intrusive work, 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 0.06 $\mu\text{g}/\text{m}^3$.
- Background concentrations of VOCs at each CAMP station were recorded at 0.0 parts per million (ppm).

Perimeter and Work Zone Concentrations

* PM10 concentrations at perimeter stations PM-2, PM-3, and/or PM-6 exceeded the action level established in the CAMP between 12:13pm and 12:30pm due to an apparent off-site building fire in proximity to Water Street, where visible smoke was observed to be entering the site. The PM10 exceedances were not a result of ground-intrusive activities at the site.

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 $\mu\text{g}/\text{m}^3$ to 0.13 $\mu\text{g}/\text{m}^3$.
- The dedicated mobile monitor (Langan) used a handheld PID to monitor VOC concentrations throughout the site. Instantaneous VOC concentrations were not detected above background concentrations throughout the work day.

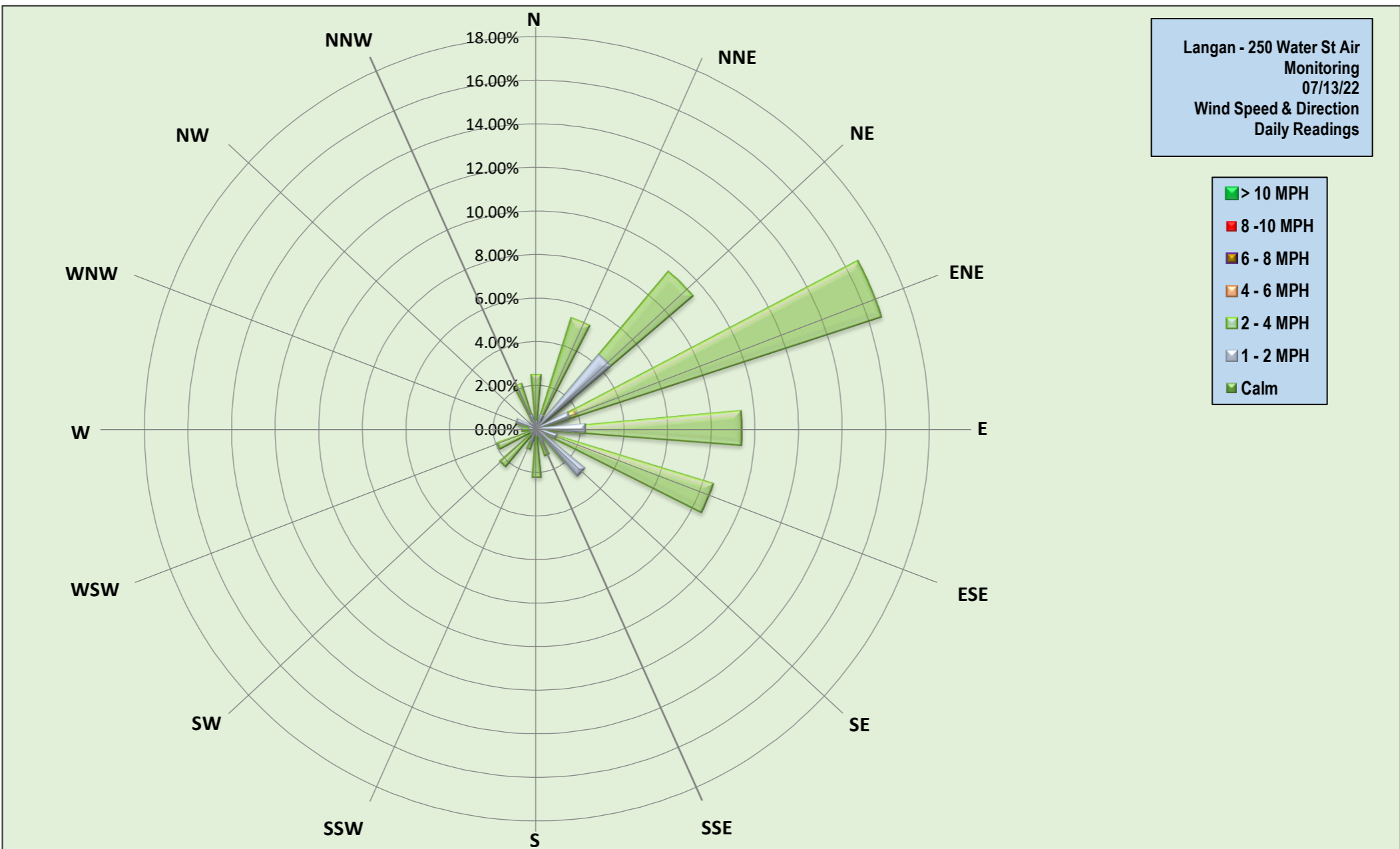
Off-Site CAMP Station Relocation

CAMP station WZ-1 was relocated to the eastern sidewalk of Peck Slip from 7:02am to 3:19pm during excavation and backfill of test pits in the eastern part of the site.

Prior to CAMP Shutdown

Prior to discontinuing CAMP at the conclusion of ground-intrusive activities, VOC and mercury vapor concentrations were confirmed to return to background conditions at each perimeter station using the handheld PID and handheld Jerome® J505 mercury vapor analyzer. Additionally, areas of exposed soil were covered with polyethylene sheeting and/or Atmos® AC-645 dust/vapor suppressing foam. CAMP stations were discontinued sequentially between 3:17pm and 3:25pm at the conclusion of ground-intrusive activities.

- Mercury vapor concentrations at each CAMP station ranged from 0.00 to 0.03 $\mu\text{g}/\text{m}^3$.
- VOC concentrations at each CAMP station were recorded at from 0.0 ppm.

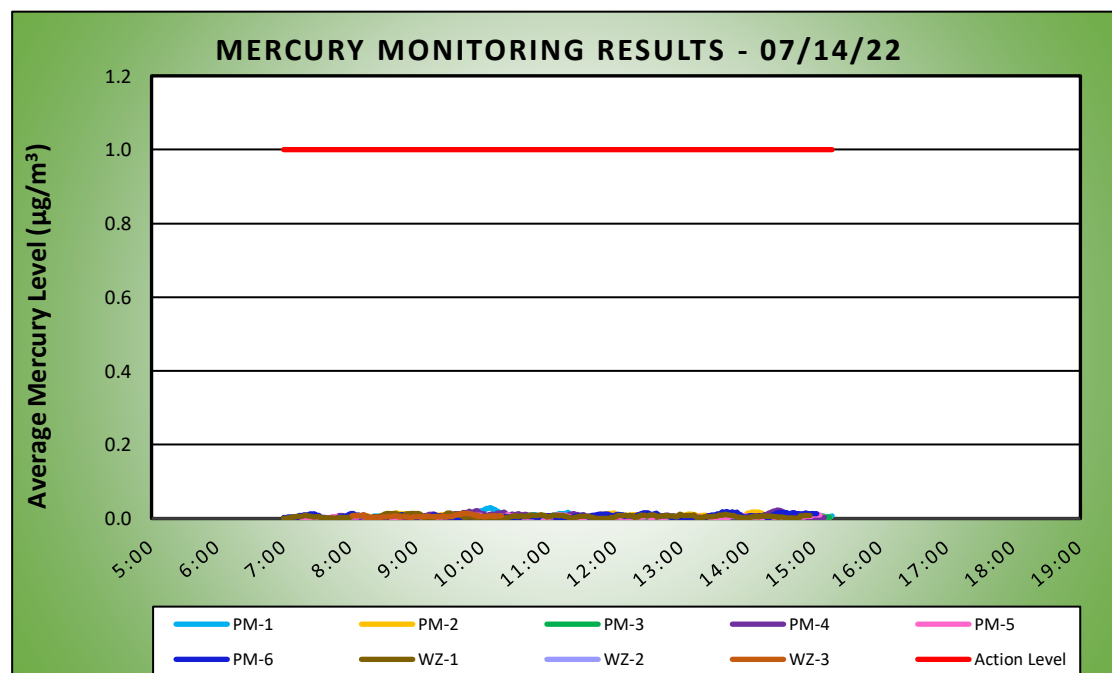
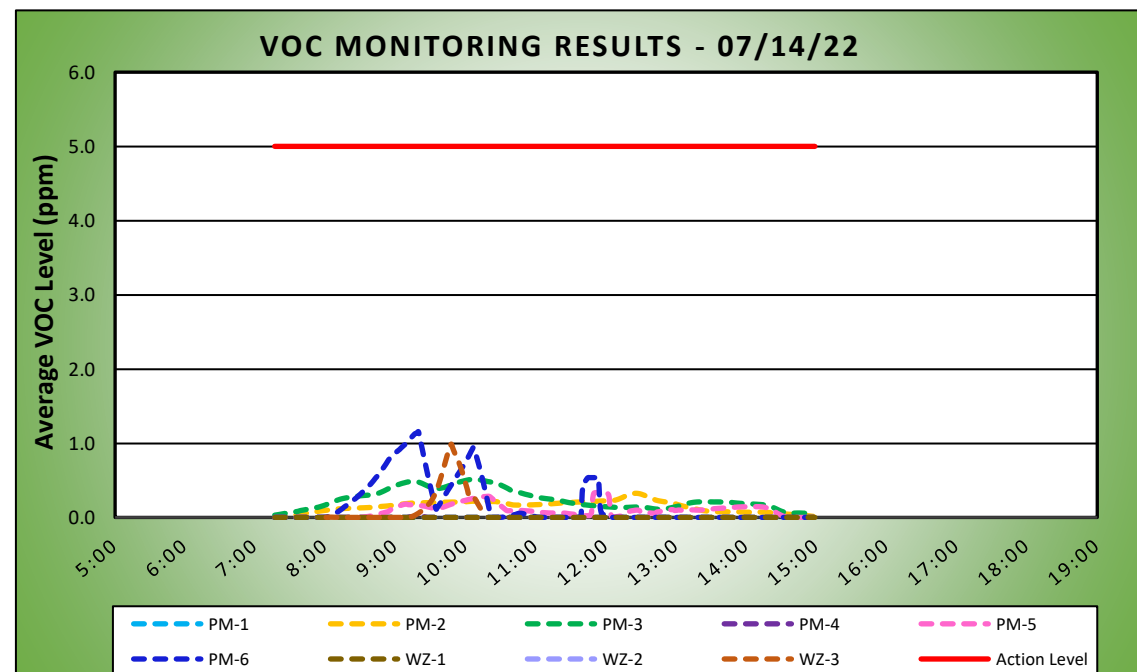
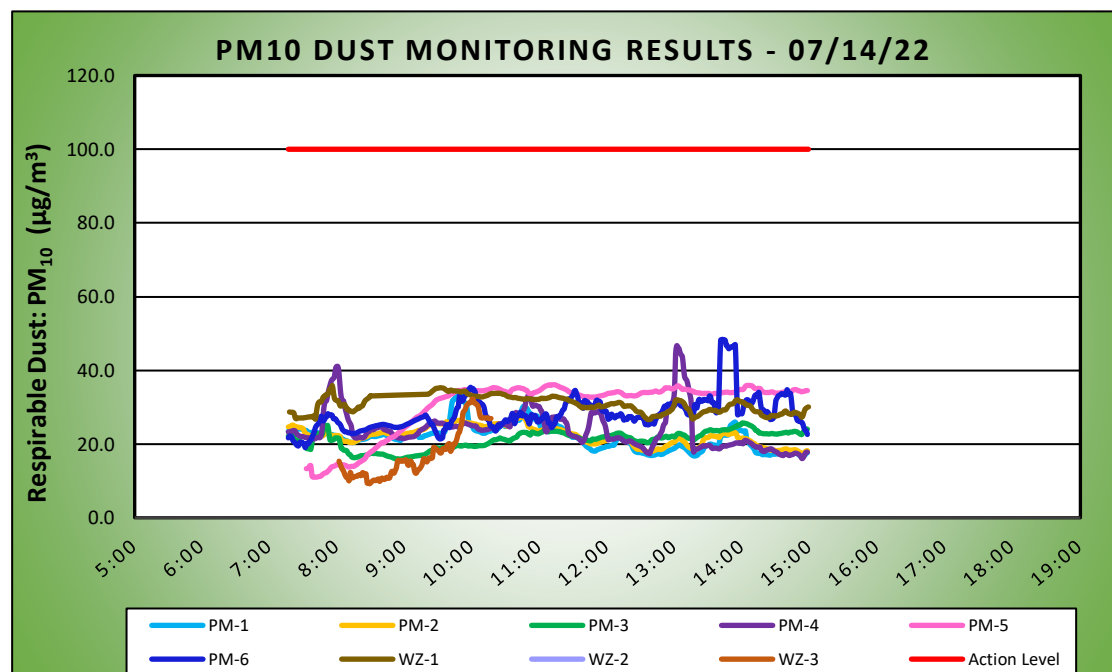


	DAILY AIR MONITORING REPORT 250 Water Street Remediation Site Manhattan, New York				07/14/22	
					Project number: 170381202	
					Page 1 of 2	
					Submitted By:	
					Rev. No. 0	
		Dust Action Level ($\mu\text{g}/\text{m}^3$)		100		
		VOC Action Level (ppm)		5		
		Hg Action Level ($\mu\text{g}/\text{m}^3$)		1.0		

Weather Data Range for Work Day		Wind Direction	ENE	Relative Humidity (%)	34.4 - 65.7	Daily Rain (in)	0.00	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp (°F)	75.0 - 89.4	Wind Speed (MPH)	0.9 - 7.0	Barometer (inHg)	30.01 - 30.05			

Station Location Work Area	Daily Avg. Dust Concentration ($\mu\text{g}/\text{m}^3$)	Max 15 Minute Dust Concentration ($\mu\text{g}/\text{m}^3$)	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	21.8	33.9	9:49	0.0	0.0	10:30
PM-2	22.2	27.3	10:43	0.1	0.3	12:26
PM-3	21.3	25.7	14:00	0.2	0.5	10:07
PM-4	23.9	46.7	13:02	0.0	0.0	9:13
PM-5	30.1	36.1	11:12	0.1	0.3	11:55
PM-6	28.0	48.4	13:43	0.2	1.2	9:20
WZ-1	30.7	35.9	7:56	0.0	0.0	7:17
WZ-2	N/A	N/A	N/A	N/A	N/A	N/A
WZ-3	17.7	32.1	10:01	0.2	1.0	9:48

Station Location Work Area	Daily Avg. Mercury Concentration ($\mu\text{g}/\text{m}^3$)	Max 15 Minute Mercury Concentration ($\mu\text{g}/\text{m}^3$)	Time of Max 15 Minute Avg Mercury Reading
PM-1	0.0	0.0	10:07
PM-2	0.0	0.0	14:09
PM-3	0.0	0.0	15:00
PM-4	0.0	0.0	14:26
PM-5	0.0	0.0	11:07
PM-6	0.0	0.0	13:41
WZ-1	0.0	0.0	9:30
WZ-2	N/A	N/A	N/A
WZ-3	0.0	0.0	9:46



Air Monitoring Notes:

Langan performed air monitoring at the perimeter of the site and at the work zone at eight total locations for particulate matter less than 10 microns in diameter (PM10), volatile organic compounds (VOCs), and mercury vapor, during ground-intrusive activities. Fifteen-minute average concentrations of PM10, VOCs and mercury vapor did not exceed the action levels established in the site community air monitoring plan (CAMP) for the duration of work activities.

Background Concentrations

Prior to implementation of ground-intrusive work, 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 0.03 $\mu\text{g}/\text{m}^3$.
- Background concentrations of VOCs at each CAMP station ranged from 0.0 to 0.1 parts per million (ppm).

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 $\mu\text{g}/\text{m}^3$ to 0.13 $\mu\text{g}/\text{m}^3$.

- The dedicated mobile monitor (Langan) used a handheld PID to monitor VOC concentrations throughout the site. Instantaneous VOC concentrations were not detected above background concentrations throughout the work day.

Equipment Troubleshooting

PM10 data were not recorded at CAMP station WZ-1 between 8:31am and 9:05am due to a low battery. Data logging resumed at 9:06am, after replacement of the depleted battery. No ground-intrusive activities were ongoing at this time, and fugitive dust was not observed migrating from the site.

Off-Site CAMP Station Relocation

- CAMP station WZ-1 was relocated to the eastern sidewalk of Peck Slip from 7:02am to 2:56pm during excavation and backfill of test pits in the eastern part of the site.
- CAMP station WZ-3 was relocated to the northern sidewalk of Pearl Street from 7:47am to 8:00am and from 8:53am to 10:17am during excavation and backfill of a test pit in the northeastern part of site.
- CAMP station WZ-3 was relocated to the southern sidewalk of Water Street from 8:00am to 8:53am during excavation and backfill of a test pit in the southeastern part of site.

Prior to CAMP Shutdown

Prior to discontinuing CAMP at the conclusion of ground-intrusive activities, VOC and mercury vapor concentrations were confirmed to return to background conditions at each perimeter station using the handheld PID and handheld Jerome® J505 mercury vapor analyzer. Additionally, areas of exposed soil were covered with polyethylene sheeting and/or Atmos® AC-645 dust/vapor suppressing foam. CAMP stations were discontinued sequentially between 2:56pm and 3:16pm at the conclusion of ground-intrusive activities.

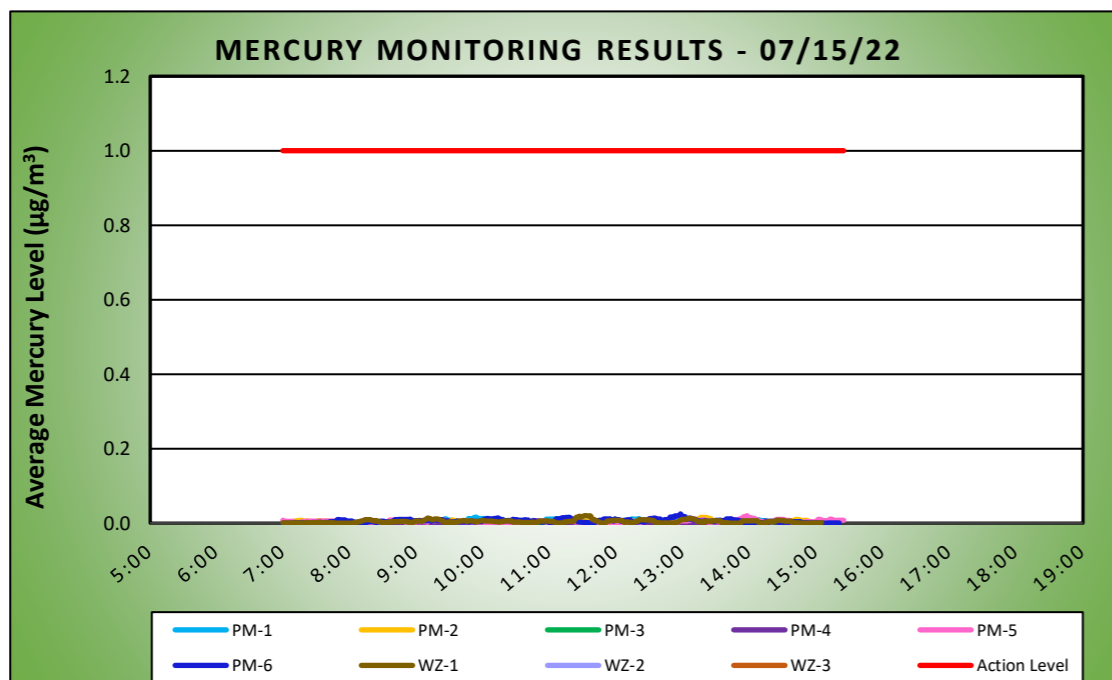
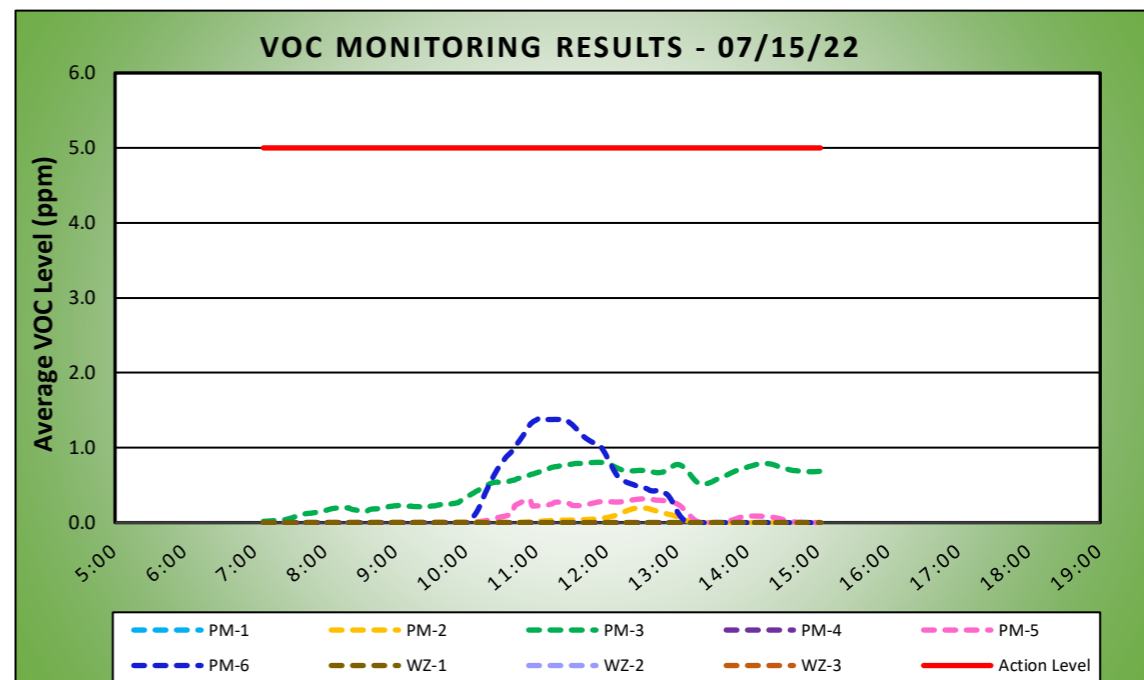
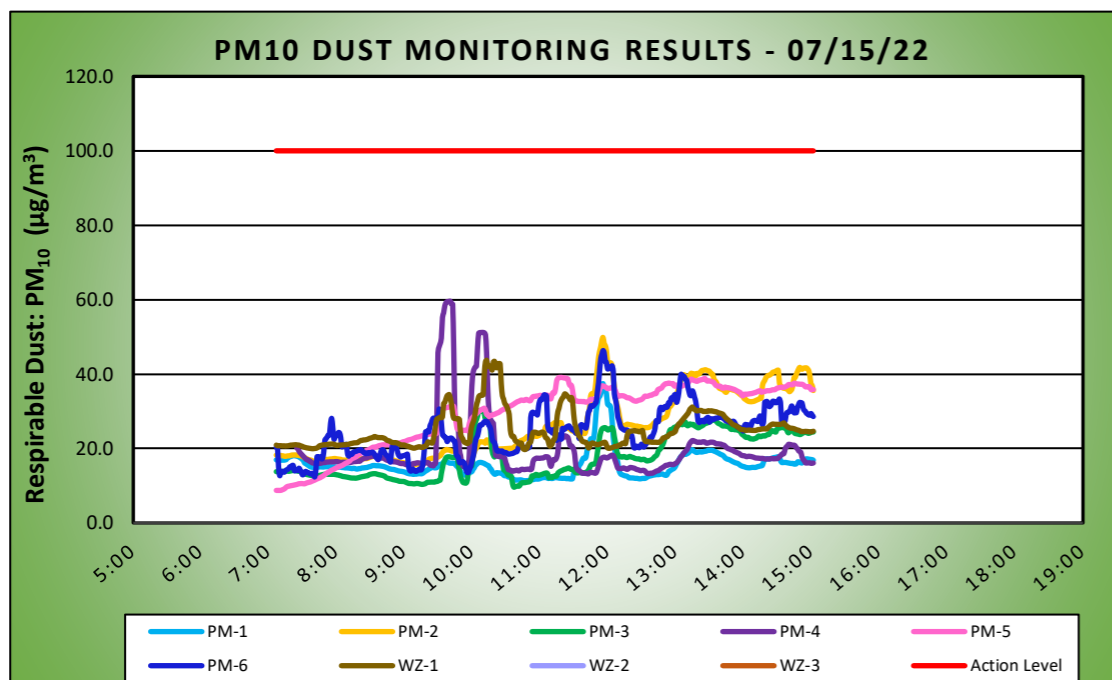
- Mercury vapor concentrations at each CAMP station ranged from 0.00 to 0.03 $\mu\text{g}/\text{m}^3$.
- VOC concentrations at each CAMP station were recorded at from 0.1 ppm.

	DAILY AIR MONITORING REPORT 250 Water Street Remediation Site Manhattan, New York				07/15/22		
					Project number: 170381202		Rev. No. 0
					Page 1 of 2		
					Submitted By:		
					Dust Action Level ($\mu\text{g}/\text{m}^3$)		100
					VOC Action Level (ppm)		5
Hg Action Level ($\mu\text{g}/\text{m}^3$)		1.0					

Weather Data Range for Work Day		Wind Direction	SSE	Relative Humidity (%)	30.2 - 52.6	Daily Rain (in)	0.00	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp (°F)	75.2 - 85.6	Wind Speed (MPH)	1.2 - 6.4	Barometer (inHg)	30.18 - 30.23			

Station Location Work Area	Daily Avg. Dust Concentration ($\mu\text{g}/\text{m}^3$)	Max 15 Minute Dust Concentration ($\mu\text{g}/\text{m}^3$)	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	15.7	37.4	11:56	0.0	0.0	7:07
PM-2	26.1	49.8	11:56	0.0	0.2	12:29
PM-3	17.8	30.2	10:07	0.5	0.8	11:52
PM-4	19.5	59.6	9:41	0.0	0.0	7:26
PM-5	28.8	39.1	11:19	0.1	0.3	12:30
PM-6	24.6	46.3	11:56	0.3	1.4	11:03
WZ-1	24.9	43.7	10:13	0.0	0.0	7:07
WZ-2	N/A	N/A	N/A	N/A	N/A	N/A
WZ-3	N/A	N/A	N/A	N/A	N/A	N/A

Station Location Work Area	Daily Avg. Mercury Concentration ($\mu\text{g}/\text{m}^3$)	Max 15 Minute Mercury Concentration ($\mu\text{g}/\text{m}^3$)	Time of Max 15 Minute Avg Mercury Reading
PM-1	0.0	0.0	9:54
PM-2	0.0	0.0	13:19
PM-3	0.0	0.0	9:40
PM-4	0.0	0.0	14:14
PM-5	0.0	0.0	13:58
PM-6	0.0	0.0	12:58
WZ-1	0.0	0.0	11:32
WZ-2	N/A	N/A	N/A
WZ-3	N/A	N/A	N/A



Air Monitoring Notes:

Langan performed air monitoring at the perimeter of the site and at the work zone at seven 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, VOCs, or PM10 that approached or exceeded the action level established by the community air monitoring plan (CAMP) (1.0 $\mu\text{g}/\text{L}$, 5.0 ppm, and 0.1 mg/m^3 , respectively).

Background Concentrations

Prior to implementation of ground-intrusive work, 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 $\mu\text{g}/\text{m}^3$.
- Background concentrations of VOCs at each CAMP station were recorded at 0.0 parts per million (ppm).

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 $\mu\text{g}/\text{m}^3$ to 0.13 $\mu\text{g}/\text{m}^3$.
- The dedicated mobile monitor (Langan) used a handheld PID to monitor VOC concentrations throughout the site. Instantaneous 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 eastern sidewalk of Peck Slip from 6:52am to 3:02pm during removal of UST contents in the eastern part of the site.

Equipment Troubleshooting

- PM10 data were not recorded at CAMP station PM-2 between 10:21am and 10:22am during replacement of the particulate monitoring unit. Data logging resumed at 10:23am, after the new unit was connected. No ground-intrusive activities were ongoing and fugitive dust was not observed migrating off-site during this time.

Prior to CAMP Shutdown

Prior to discontinuing the CAMP, air quality at each CAMP station was verified using the handheld PID and handheld Jerome® J505 mercury vapor analyzer and there were either no readings or no readings above background concentrations recorded. Additionally, areas of exposed soil were covered with polyethylene sheeting and/or Atmos® AC-645 dust/vapor suppressing foam. CAMP stations were discontinued at 3:02pm at the conclusion of ground-intrusive activities.

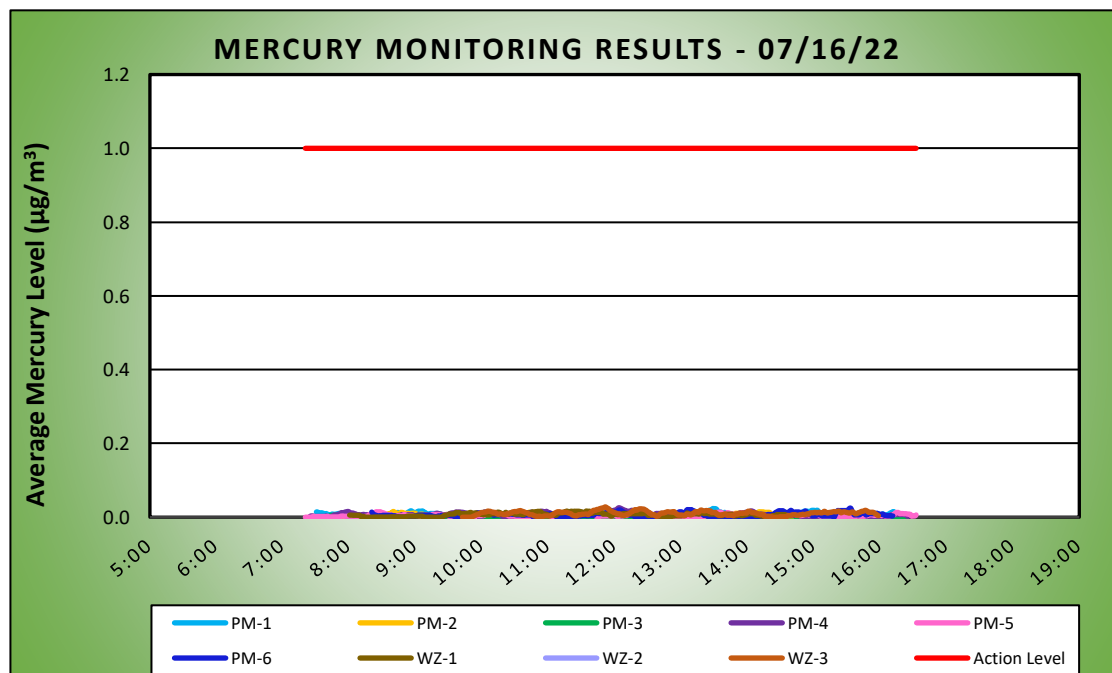
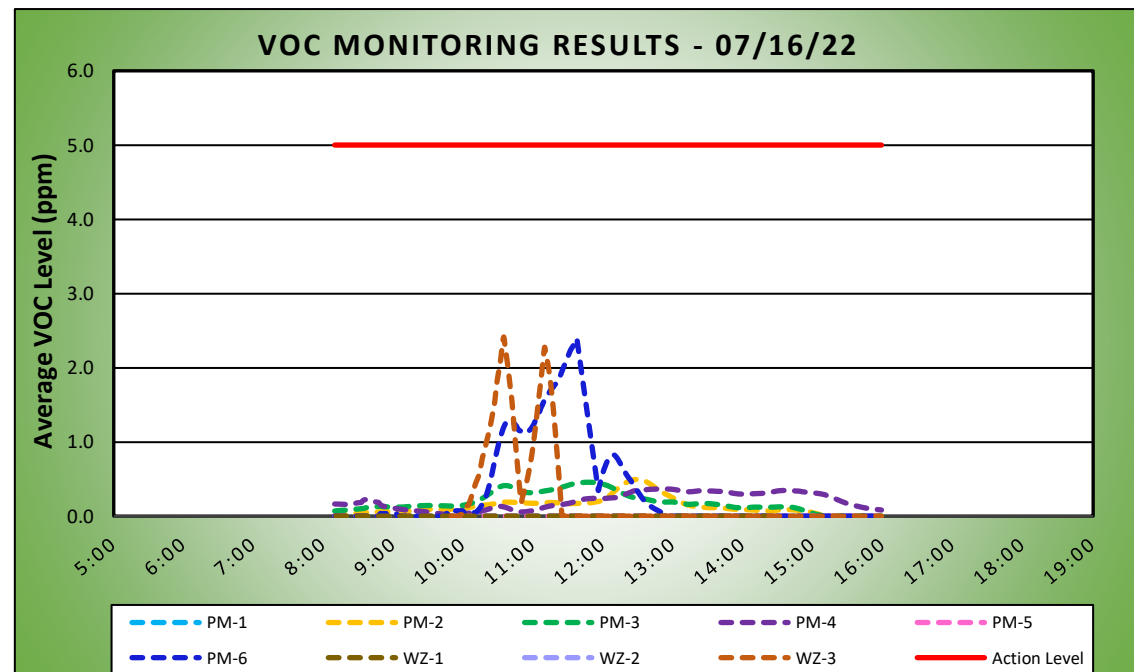
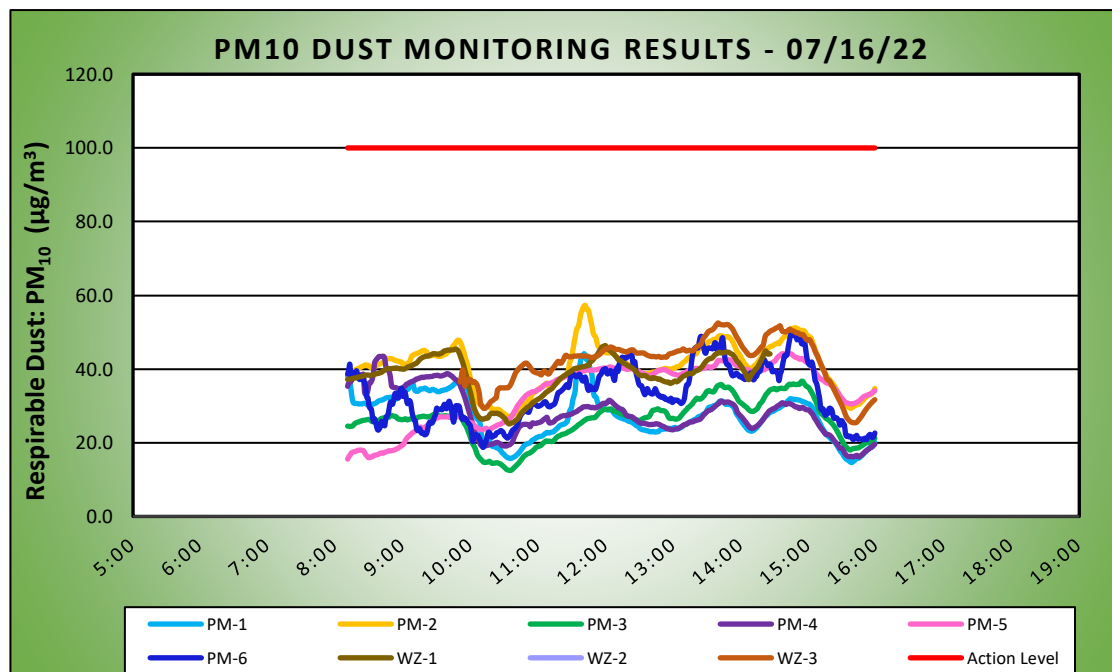
- Mercury vapor concentrations at each CAMP station ranged from 0.00 to 0.05 $\mu\text{g}/\text{m}^3$.
- VOC concentrations at each CAMP station were recorded at 0.0 ppm.

	DAILY AIR MONITORING REPORT		07/16/22	
	250 Water Street Remediation Site		Project number: 170381202	
	Manhattan, New York		Page 1 of 2	
			Submitted By: _____	
			Rev. No. 0	
		Dust Action Level ($\mu\text{g}/\text{m}^3$)		100
		VOC Action Level (ppm)		5
		Hg Action Level ($\mu\text{g}/\text{m}^3$)		1.0

Weather Data Range for Work Day		Wind Direction	SW	Relative Humidity (%)	48.1 - 71.0	Daily Rain (in)	0.00	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp (°F)	75.9 - 84.9	Wind Speed (MPH)	0.5 - 7.5	Barometer (inHg)	30.12 - 30.20			

Station Location Work Area	Daily Avg. Dust Concentration ($\mu\text{g}/\text{m}^3$)	Max 15 Minute Dust Concentration ($\mu\text{g}/\text{m}^3$)	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	27.3	44.2	11:41	0.0	0.0	8:11
PM-2	40.7	57.2	11:42	0.1	0.5	12:30
PM-3	26.0	36.7	14:54	0.2	0.5	11:48
PM-4	28.1	43.4	8:42	0.2	0.4	12:52
PM-5	33.1	44.2	14:43	0.0	0.0	8:10
PM-6	33.1	49.9	14:45	0.3	2.4	11:38
WZ-1	38.5	46.3	12:00	0.0	0.0	8:11
WZ-2	N/A	N/A	N/A	N/A	N/A	N/A
WZ-3	41.7	52.5	13:40	0.2	2.4	10:35

Station Location Work Area	Daily Avg. Mercury Concentration ($\mu\text{g}/\text{m}^3$)	Max 15 Minute Mercury Concentration ($\mu\text{g}/\text{m}^3$)	Time of Max 15 Minute Avg Mercury Reading
PM-1	0.0	0.0	13:29
PM-2	0.0	0.0	8:41
PM-3	0.0	0.0	7:49
PM-4	0.0	0.0	12:04
PM-5	0.0	0.0	8:25
PM-6	0.0	0.0	15:33
WZ-1	0.0	0.0	11:35
WZ-2	N/A	N/A	N/A
WZ-3	0.0	0.0	11:52



Air Monitoring Notes:

Langan performed air monitoring at the perimeter of the site and at the work zone at eight 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, VOCs, or PM10 that approached or exceeded the action level established by the community air monitoring plan (CAMP) (1.0 $\mu\text{g}/\text{L}$, 5.0 ppm, and 0.1 mg/m^3 , respectively).

Background Concentrations

Prior to implementation of ground-intrusive work, 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 $\mu\text{g}/\text{m}^3$.
- Background concentrations of VOCs at each CAMP station were recorded at 0.0 parts per million (ppm).

Ambient Air (Handheld Jerome® J505 and Handheld PID)

- The dedicated mobile monitor (Langan) used two handheld Jerome® J505 mercury vapor analyzers to monitor ambient air conditions at various heights throughout the site. Instantaneous mercury vapor concentrations throughout the site ranged from 0.00 $\mu\text{g}/\text{m}^3$ to 0.15 $\mu\text{g}/\text{m}^3$.

- The dedicated mobile monitor (Langan) used a handheld PID to monitor VOC concentrations throughout the site. Instantaneous VOC concentrations were at or below background concentrations throughout the work day.

Equipment Troubleshooting

- The PID at perimeter CAMP station PM-6 was recalibrated at 11:39am due to persistent readings of 2.4 ppm, which was inconsistent with readings on the handheld unit (0.0 ppm). Data logging resumed at 11:41am and VOC concentrations returned to background conditions following equipment recalibration. Odors were not observed migrating off-site during this time.

Off-Site CAMP Station Relocation

- CAMP station WZ-1 was relocated to the eastern sidewalk of Peck Slip from 7:56am to 2:26pm during removal of UST contents in the eastern part of the site.
- CAMP station WZ-3 was relocated to the northern sidewalk of Pearl Street from 9:36am to 3:59pm during excavation and backfill of test pits along northern boundary of site.

Prior to CAMP Shutdown

Prior to discontinuing the CAMP, air quality at each CAMP station was verified using the handheld PID and Jerome® J505 mercury vapor analyzer and there were either no readings or no readings above background concentrations recorded. Additionally, areas of exposed soil were covered with polyethylene sheeting and/or Atmos® AC-645 dust/vapor suppressing foam. CAMP stations (with the exception of station WZ-1) were discontinued at 3:59pm at the conclusion of ground-intrusive activities. CAMP station WZ-1 was discontinued at 2:26pm at the conclusion of UST removal activities within 20 feet of the eastern fence line.

- Mercury vapor concentrations at each CAMP station ranged from 0.00 to 0.02 $\mu\text{g}/\text{m}^3$.
- VOC concentrations at each CAMP station ranged from 0.0 to 0.2 ppm.





DAILY AIR MONITORING REPORT

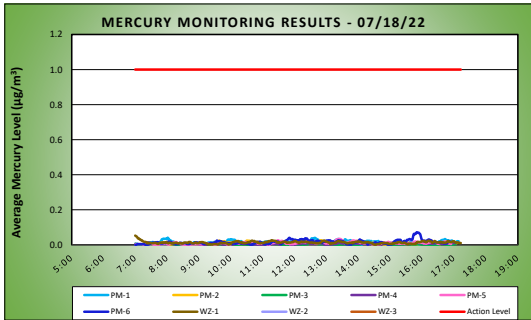
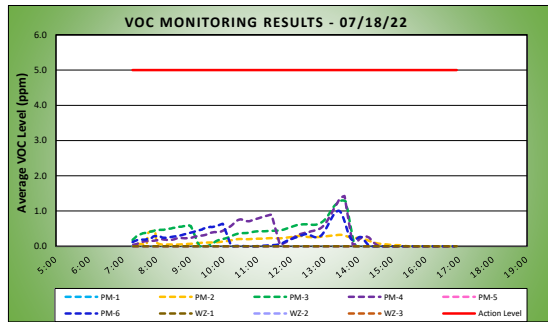
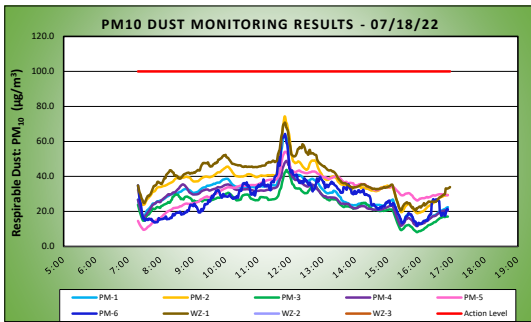
250 Water Street Remediation Site Manhattan, New York

07/18/22	
Project number: 170381202	
Page 1 of 2	Rev. No. 0
Submitted By:	
Dust Action Level ($\mu\text{g}/\text{m}^3$)	100
VOC Action Level (ppm)	5
Hg Action Level ($\mu\text{g}/\text{m}^3$)	1.0

Weather Data Range for Work Day		Wind Direction	N		Relative Humidity (%)	55.6 - 77.9		Daily Rain (in)	0.04	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp (°F)	77.3 - 87.9	Wind Speed (MPH)	0.7 - 8.9		Barometer (inHg)	29.84 - 30.04				

Station Location Work Area	Daily Avg. Dust Concentration ($\mu\text{g}/\text{m}^3$)	Max 15 Minute Dust Concentration ($\mu\text{g}/\text{m}^3$)	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	29.3	63.6	11:50	0.0	0.0	15:18
PM-2	36.7	74.2	11:49	0.1	0.4	7:56
PM-3	24.2	43.7	11:53	0.3	1.3	13:32
PM-4	27.4	48.8	11:52	0.3	1.4	13:35
PM-5	31.7	54.0	11:50	0.0	0.0	7:18
PM-6	27.8	64.3	11:50	0.2	1.0	13:24
WZ-1	40.1	70.8	11:50	0.0	0.0	7:18
WZ-2	N/A	N/A	N/A	N/A	N/A	N/A
WZ-3	N/A	N/A	N/A	N/A	N/A	N/A

Station Location Work Area	Daily Avg. Mercury Concentration ($\mu\text{g}/\text{m}^3$)	Max 15 Minute Mercury Concentration ($\mu\text{g}/\text{m}^3$)	Time of Max 15 Minute Avg Mercury Reading
PM-1	0.0	0.0	8:01
PM-2	0.0	0.0	16:15
PM-3	0.0	0.0	12:30
PM-4	0.0	0.0	8:03
PM-5	0.0	0.0	13:24
PM-6	0.0	0.1	15:50
WZ-1	0.0	0.1	7:00
WZ-2	N/A	N/A	N/A
WZ-3	N/A	N/A	N/A



Air Monitoring Notes:

Langan performed air monitoring at the perimeter of the site and at the work zone at seven 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, VOCs, or PM10 that approached or exceeded the action level established by the CAMP (1.0 $\mu\text{g}/\text{L}$, 5.0 ppm, and 0.1 mg/m^3 , respectively).

Background Concentrations

- Prior to implementation of ground-intrusive work, 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 $\mu\text{g}/\text{m}^3$.
- Background concentrations of VOCs at each CAMP station were recorded at 0.0 parts per million (ppm).

Ambient Air (Handheld Jerome® J505 and Handheld PID)

- The dedicated mobile monitor (Langan) used two handheld Jerome® J505 mercury vapor analyzers to monitor ambient air conditions at various heights throughout the site. Instantaneous mercury vapor concentrations throughout the site ranged from 0.00 $\mu\text{g}/\text{m}^3$ to 0.47 $\mu\text{g}/\text{m}^3$.
- The dedicated mobile monitor (Langan) used a handheld PID to monitor VOC concentrations throughout the site. Instantaneous VOC concentrations ranged from 0.0 ppm to 1.4 ppm.

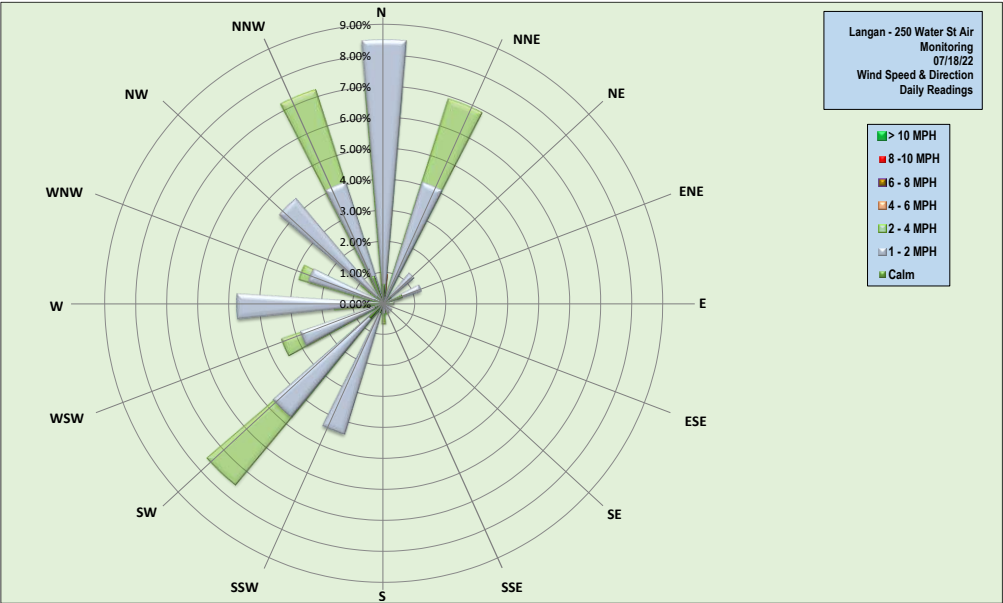
Off-Site CAMP Station Relocation

- CAMP station WZ-1 was relocated to the northern sidewalk of Pearl Street from 7:03am to 4:55pm during test pit excavation, backfill and soldier pile installation along the northern boundary of the site.

Prior to CAMP Shutdown

- Prior to discontinuing the CAMP, air quality at each CAMP station was verified using the handheld PID and Jerome® J505 mercury vapor analyzer and there were no readings above background concentrations recorded. Additionally, areas of exposed soil were covered with polyethylene sheeting and/or Atmos® AC-645 dust/vapor suppressing foam. CAMP stations were discontinued sequentially between 4:50pm and 4:55pm at the conclusion of ground-intrusive activities.
- Mercury vapor concentrations at each CAMP station ranged from 0.00 to 0.06 $\mu\text{g}/\text{m}^3$.
- VOC concentrations at each CAMP station ranged from 0.0 to 0.1 ppm.



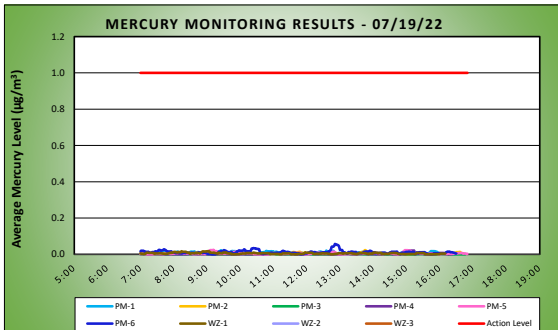
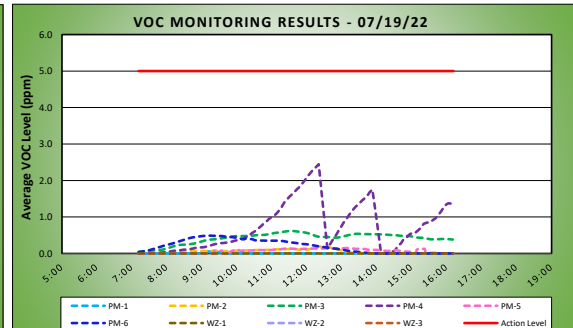
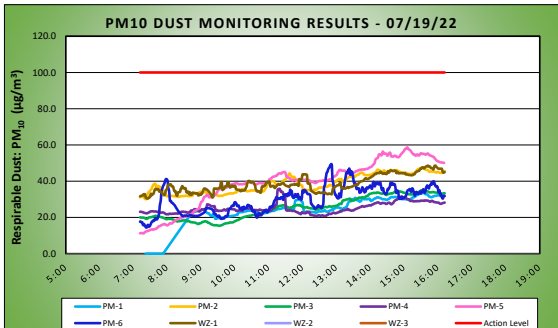


	DAILY AIR MONITORING REPORT 250 Water Street Remediation Site Manhattan, New York	07/19/22		
		Project number: 170381202		
		Page 1 of 2		
		Submitted By:		Rev. No. 0
		Dust Action Level ($\mu\text{g}/\text{m}^3$)		100
VOC Action Level (ppm)		5		
Hg Action Level ($\mu\text{g}/\text{m}^3$)		1.0		

Weather Data Range for Work Day		Wind Direction	SW	Relative Humidity (%)	30.5 - 54.2	Daily Rain (in)	0.00	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp (°F)	82.2 - 94.6	Wind Speed (MPH)	1.1 - 8.0	Barometer (inHg)	29.83 - 29.88			

Station Location Work Area	Daily Avg. Dust Concentration ($\mu\text{g}/\text{m}^3$)	Max 15 Minute Dust Concentration ($\mu\text{g}/\text{m}^3$)	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	23.7	33.5	15:33	0.0	0.1	9:11
PM-2	38.4	47.4	15:32	0.1	0.2	12:30
PM-3	25.2	35.0	15:36	0.4	0.6	11:34
PM-4	25.1	35.8	11:19	0.7	2.4	12:21
PM-5	38.7	58.6	15:05	0.1	0.1	13:08
PM-6	29.7	49.5	12:51	0.2	0.5	9:11
WZ-1	38.4	48.6	15:42	0.0	0.0	7:12
WZ-2	N/A	N/A	N/A	N/A	N/A	N/A
WZ-3	N/A	N/A	N/A	N/A	N/A	N/A

Station Location Work Area	Daily Avg. Mercury Concentration ($\mu\text{g}/\text{m}^3$)	Max 15 Minute Mercury Concentration ($\mu\text{g}/\text{m}^3$)	Time of Max 15 Minute Avg Mercury Reading
PM-1	0.0	0.0	9:26
PM-2	0.0	0.0	13:45
PM-3	0.0	0.0	10:48
PM-4	0.0	0.0	15:00
PM-5	0.0	0.0	9:12
PM-6	0.0	0.1	12:51
WZ-1	0.0	0.0	9:02
WZ-2	N/A	N/A	N/A
WZ-3	N/A	N/A	N/A



Air Monitoring Notes:

Langan performed air monitoring at the perimeter of the site and at the work zone at seven 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, VOCs, or PM10 that approached or exceeded the action level established by the CAMP (1.0 $\mu\text{g}/\text{m}^3$, 5.0 ppm, and 0.1 mg/m^3 , respectively).

Background Concentrations

Prior to implementation of ground-intrusive work, 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 0.05 $\mu\text{g}/\text{m}^3$.
- Background concentrations of VOCs at each CAMP station were recorded at 0.0 parts per million (ppm).

Ambient Air (Handheld Jerome® J505 and Handheld PID)

- The dedicated mobile monitor (Langan) used two handheld Jerome® J505 mercury vapor analyzers to monitor ambient air conditions at various heights throughout the site. Instantaneous mercury vapor concentrations throughout the site ranged from 0.00 $\mu\text{g}/\text{m}^3$ to 0.36 $\mu\text{g}/\text{m}^3$.

- The dedicated mobile monitor (Langan) used a handheld PID to monitor VOC concentrations throughout the site. Instantaneous VOC concentrations ranged from 0.0 ppm to 1.6 ppm.

Off-Site CAMP Station Relocation

- CAMP station WZ-1 was relocated to the northern sidewalk of Pearl Street from 6:57am to 4:10pm during test pit excavation/backfill and soldier pile installation along the northern boundary of the site.

Equipment Troubleshooting

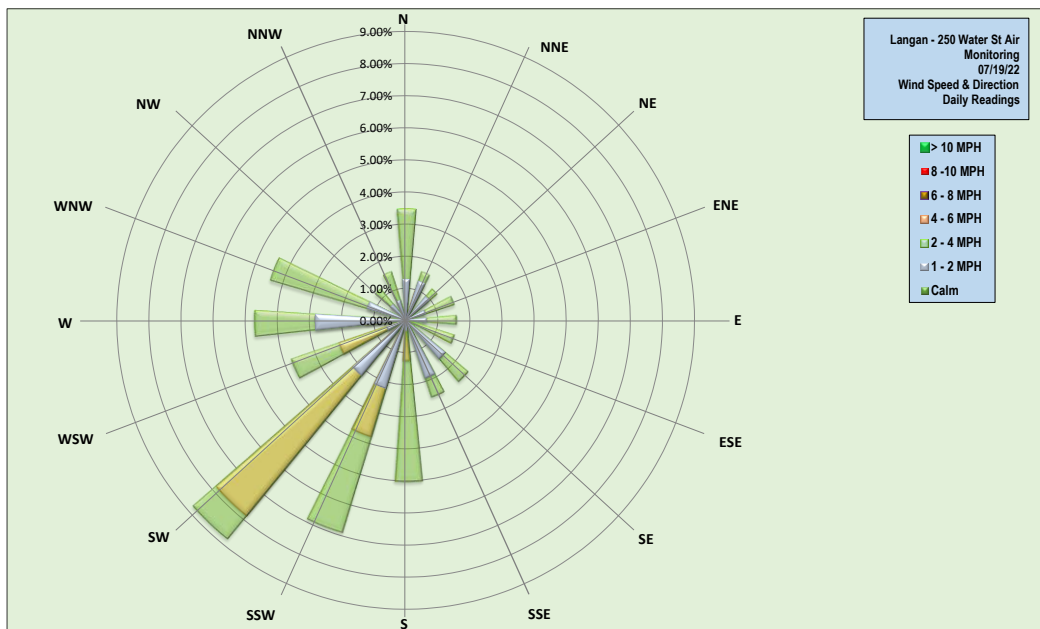
PM10 concentrations were intermittently not recorded at perimeter CAMP station PM-1 between 7:53am and 9:44am due to a connectivity issue with the telemetry system. Equipment troubleshooting was performed by replacing the CAMP station battery and the DustTrak unit, and data logging resumed at 9:45am.

- During this time, CCV was in the process of excavating test pits and installing SOE soldier piles in the northeastern part 1 of the site.
- Perimeter CAMP station PM-1 was located at least 150 feet away from the nearest work area and in an upwind direction.
- Fugitive dust was not observed migrating from the site during this time.

Prior to CAMP Shutdown

Prior to discontinuing the 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 were covered with polyethylene sheeting and/or Atmos® AC-645 dust/vapor suppressing foam. CAMP stations were discontinued between 4:10pm and 4:12pm at the conclusion of ground-intrusive activities.

- Mercury vapor concentrations at each CAMP station ranged from 0.00 to 0.07 $\mu\text{g}/\text{m}^3$.
- VOC concentrations at each CAMP station ranged from 0.0 to 0.2 ppm.

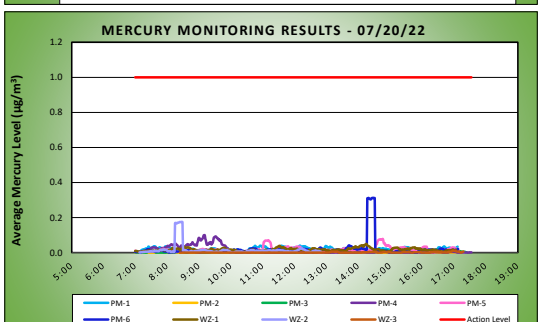
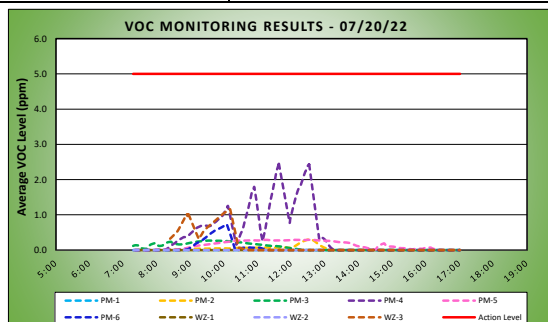
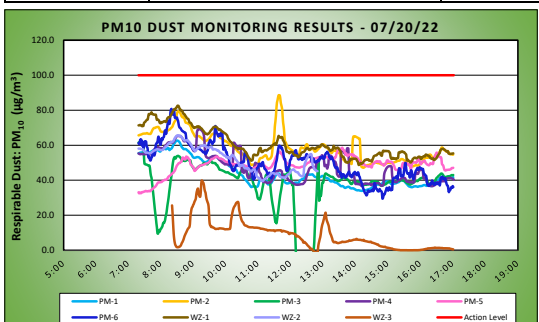


	DAILY AIR MONITORING REPORT		07/20/22	
	250 Water Street Remediation Site			
	Manhattan, New York			
	Project number: 170381202		Page 1 of 2	
	Submitted By:		Rev. No. 0	
Dust Action Level ($\mu\text{g}/\text{m}^3$)		100		
VOC Action Level (ppm)		5		
Hg Action Level ($\mu\text{g}/\text{m}^3$)		1.0		

Weather Data Range for Work Day		Wind Direction	N	Relative Humidity (%)	37.2 - 61.0	Daily Rain (in)	0.00	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp (°F)	79.1 - 95.3	Wind Speed (MPH)	0.9 - 6.2	Barometer (inHg)	29.78 - 29.88			

Station Location Work Area	Daily Avg. Dust Concentration ($\mu\text{g}/\text{m}^3$)	Max 15 Minute Dust Concentration ($\mu\text{g}/\text{m}^3$)	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	43.9	62.7	8:30	0.0	0.0	7:18
PM-2	58.9	88.6	11:38	0.0	0.3	12:33
PM-3	35.5	61.8	7:21	0.1	0.3	9:34
PM-4	47.7	69.2	9:10	0.5	2.4	11:38
PM-5	48.6	58.5	13:36	0.1	0.3	12:35
PM-6	50.0	80.7	8:20	0.1	0.7	10:05
WZ-1	60.7	82.6	8:31	0.0	0.0	7:27
WZ-2	52.4	65.6	8:32	0.0	0.0	7:19
WZ-3	9.0	39.9	9:16	0.2	1.2	10:11

Station Location Work Area	Daily Avg. Mercury Concentration ($\mu\text{g}/\text{m}^3$)	Max 15 Minute Mercury Concentration ($\mu\text{g}/\text{m}^3$)	Time of Max 15 Minute Avg Mercury Reading
PM-1	0.0	0.0	12:10
PM-2	0.0	0.0	14:30
PM-3	0.0	0.0	15:50
PM-4	0.0	0.1	9:10
PM-5	0.0	0.1	14:46
PM-6	0.0	0.3	14:28
WZ-1	0.0	0.1	14:15
WZ-2	0.0	0.2	8:27
WZ-3	0.0	0.0	16:58



Air Monitoring Notes:

Langan performed air monitoring at the perimeter of the site and at the work zone 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, VOCs, or PM10 that approached or exceeded the action level established by the community air monitoring plan (CAMP) (1.0 $\mu\text{g}/\text{m}^3$, 5.0 ppm, and 0.1 mg/m^3 , respectively).

Background Concentrations
 Prior to implementation of ground-intrusive work, 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 0.03 $\mu\text{g}/\text{m}^3$.
 - Background concentrations of VOCs at each CAMP station were recorded at 0.0 ppm.

Perimeter and Work Zone Concentrations
 - Two instantaneous mercury vapor readings above background concentrations were recorded at off-site CAMP station WZ-2 (2.5 $\mu\text{g}/\text{m}^3$ at 8:15am) and perimeter CAMP station PM-6 (4.4 $\mu\text{g}/\text{m}^3$ at 2:17pm), respectively. There were no 15-minute average exceedances of the action level established in the CAMP, however, out of an abundance of caution, work was temporarily halted and Mercon-X® was applied to all stockpiles and exposed soil/fill throughout the site. In each instance, mercury vapor concentrations returned background conditions immediately following the instantaneous reading and work resumed following application of Mercon-X®.

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 $\mu\text{g}/\text{m}^3$ to 0.16 $\mu\text{g}/\text{m}^3$.
 - The dedicated mobile monitor (Langan) used a handheld PID to monitor VOC concentrations throughout the site. Instantaneous VOC concentrations were at or below background concentrations throughout the work day.

Equipment Troubleshooting
 - The PID at off-site CAMP station WZ-1 was recalibrated at 8:58am due to persistent readings of 1.2 ppm, which was inconsistent with readings on the handheld unit (0.0 ppm). Data logging resumed at 9:00am and VOC concentrations returned to background conditions following equipment recalibration. Odors were not observed migrating from the site during this time.
 - The PID at perimeter CAMP station PM-4 was recalibrated at 11:39am and 12:33pm due to persistent readings ranging from 2.1 ppm to 2.7ppm, which was inconsistent with readings on the handheld unit (0.0 ppm). Data logging resumed at 11:42am and 12:35pm, respectively, and VOC concentrations returned to background conditions in each instance. Odors were not observed migrating from the site during this time.

Off-Site CAMP Station Relocation
 - CAMP station WZ-1 was relocated to the northern sidewalk of Pearl Street from 7:12am to 5:01pm during excavation/backfill of test pits and installation of SOE soldier piles along the northern boundary of the site.
 - CAMP station WZ-2 was relocated to the southern sidewalk of Water Street from 7:04am to 12:50pm during advancement of soil borings in the south-central part of the site.
 - CAMP station WZ-3 was relocated to the eastern sidewalk of Peck Slip from 8:09am to 5:01pm during excavation/backfill of test pits along the eastern boundary 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. Additionally, areas of exposed soil/fill were covered with polyethylene sheeting and/or Atmo® AC-645 dust/vapor suppressing foam. CAMP stations were discontinued at 5:01pm at the conclusion of ground-intrusive activities.
 - Mercury vapor concentrations at each CAMP station ranged from 0.00 to 0.02 $\mu\text{g}/\text{m}^3$.
 - VOC concentrations at each CAMP station were recorded at 0.0 ppm.

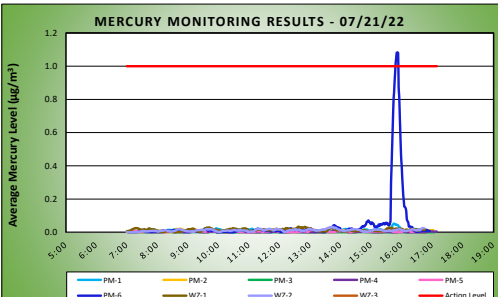
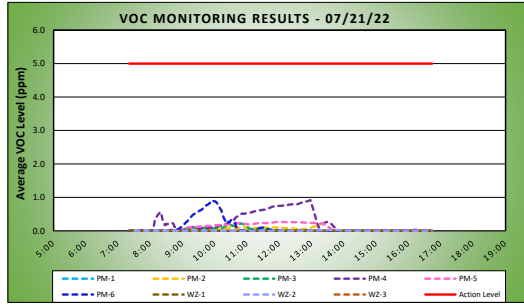
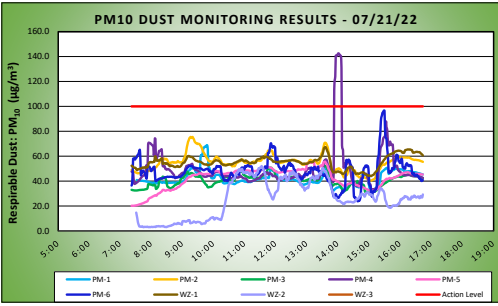


	DAILY AIR MONITORING REPORT 250 Water Street Remediation Site Manhattan, New York				07/21/22		
					Project number: 170381202		Rev. No. 0
					Page 1 of 2		
					Submitted By:		
					Dust Action Level (µg/m ³)		100
VOC Action Level (ppm)		5					
Hg Action Level (µg/m ³)		1.0					

Weather Data Range for Work Day		Wind Direction	WSW	Relative Humidity (%)	55.7 - 69.9	Daily Rain (in)	0.00	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp (°F)	81.1 - 89.0	Wind Speed (MPH)	0.8 - 4.9	Barometer (inHg)	29.74 - 29.75			

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	42.2	68.8	9:48	0.0	0.0	7:32
PM-2	54.9	75.5	9:16	0.0	0.2	13:21
PM-3	40.4	52.4	13:34	0.0	0.2	10:47
PM-4	49.7	**142.6	14:01	0.2	0.9	12:58
PM-5	41.8	55.7	13:35	0.1	0.3	12:00
PM-6	47.6	96.7	15:29	0.1	0.9	9:55
WZ-1	55.1	67.4	13:36	0.0	0.0	7:22
WZ-2	25.8	52.1	11:33	0.0	0.0	13:38
WZ-3	N/A	N/A	N/A	N/A	N/A	N/A

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	0.01	0.05	15:45
PM-2	0.01	0.02	8:44
PM-3	0.00	0.00	16:21
PM-4	0.00	0.01	13:59
PM-5	0.01	0.02	16:37
PM-6	0.05	*1.08	15:51
WZ-1	0.01	0.03	12:38
WZ-2	0.01	0.03	13:44
WZ-3	N/A	N/A	N/A



Air Monitoring Notes:

Langan performed air monitoring at the perimeter of the site and at the work zone at eight 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 VOCs that approached or exceeded the action level established by the CAMP (5.0 ppm).

Background Concentrations

Prior to implementation of ground-intrusive work, 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 0.07 µg/m³.
- Background concentrations of VOCs at each CAMP station were recorded at 0.0 ppm.

Perimeter and Work Zone Concentrations

* During application of Mercon-X® across the excavation area in the north-central part of the site, the 15-minute TWA action level for mercury vapor (1.00 µg/m³) was exceeded at perimeter CAMP station PM-6, which was located about 30 feet from the work area, for a duration of about 6 minutes (from 3:48pm to 3:53pm). Work was previously halted across the site at 3:36pm due to an instantaneous mercury vapor reading of 63.1 µg/m³, which was recorded during screening of excavated soil/fill using the handheld Jerome® J505 unit. The maximum 15-minute TWA concentration of mercury vapor was recorded at 1.08 µg/m³ and was caused by instantaneous mercury vapor concentrations ranging from 1.0 µg/m³ to 3.4 µg/m³. During this time, off-site CAMP station WZ-1 was located on the northern sidewalk of Pearl Street and no instantaneous mercury vapor concentrations above background conditions were recorded.

- Following application of Mercon-X®, exposed soil/fill and stockpiles were covered with polyethylene sheeting. As an additional measure, Atmos® AC-645 odor/vapor suppressing foam was sprayed atop the polyethylene sheeting and mercury vapor concentrations returned to background conditions at approximately 4:00pm.

* Construction activities ceased for the remainder of the work day, however, CAMP was implemented until at least 4:30pm before implementing shutdown protocols (i.e. collecting background readings at each CAMP station).

** PM10 concentrations at perimeter CAMP station PM-4 exceeded the action level established in the CAMP (0.100 mg/m³) for a duration of about 15 minutes (1:53pm to 2:07pm). The maximum 15-minute TWA concentration of PM10 was recorded at 0.143 mg/m³ and was caused by instantaneous PM10 concentrations ranging from 0.153 mg/m³ to 1.022 mg/m³. Prior to the exceedance, CIV was in the process of removing the asphalt cover along the eastern boundary of the site to facilitate excavation of a test pit for SOE soldier pile installation. Heavy rain was ongoing and fugitive dust was not observed migrating off-site during this time. PM10 concentrations returned to background conditions at 2:08pm.

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. With the exception of the 15-minute TWA mercury vapor exceedance previously described, instantaneous mercury vapor concentrations throughout the site ranged from 0.00 µg/m³ to 0.40 µg/m³.

- The dedicated mobile monitor (Langan) used a handheld PID to monitor VOC concentrations throughout the site. With the exception of ambient air screening during removal of the USTs, instantaneous VOC concentrations were at or below background concentrations throughout the work day. A maximum instantaneous VOC concentration of 8.1 ppm was observed at 9:26am during removal of the USTs in the eastern part of the site, however, VOC concentrations at the nearest perimeter CAMP station (PM-4) were not recorded above background conditions.

Off-Site CAMP Station Relocation

- CAMP station WZ-1 was relocated to the northern sidewalk of Pearl Street from 7:07am to 4:44pm during excavation of test pits and installation of SOE soldier piles along the northern boundary of the site.

- CAMP station WZ-2 was relocated to the eastern sidewalk of Peck Slip from 7:16am to 4:44pm during excavation of test pits and demolition of concrete along the eastern boundary of the site.

Prior to CAMP Shutdown

Prior to discontinuing CAMP and approximately 30 minutes after mercury vapor readings returned to background concentrations at perimeter CAMP station PM-6, 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 at 4:44pm at the conclusion of ground-intrusive activities.

- Mercury vapor concentrations at each CAMP station ranged from 0.00 to 0.08 µg/m³.

- VOC concentrations at each CAMP station ranged from 0.0 ppm to 0.1 ppm.



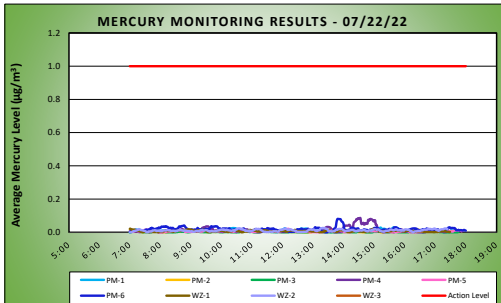
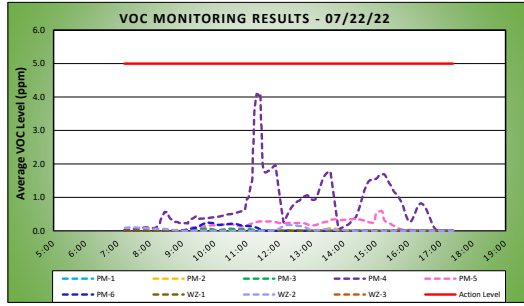
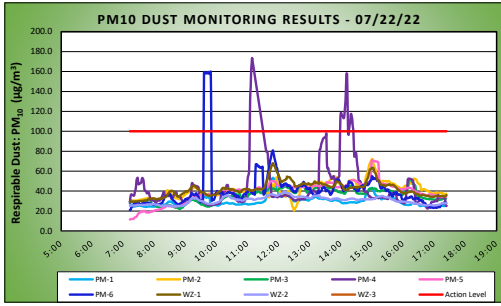
DAILY AIR MONITORING REPORT
250 Water Street Remediation Site
Manhattan, New York

07/22/22	
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 (%)	23.2 - 52.6	Daily Rain (in)	0.00	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp (°F)	82.2 - 97.8	Wind Speed (MPH)	0.6 - 7.2	Barometer (inHg)	29.91 - 29.96			

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	29.6	53.3	11:49	0.0	0.0	7:12
PM-2	41.6	72.2	15:00	0.0	0.1	13:38
PM-3	35.5	51.9	16:13	0.0	0.1	9:43
PM-4	45.3	**172.9	11:09	0.7	4.1	11:24
PM-5	38.8	70.7	15:00	0.2	0.6	15:09
PM-6	41.1	*160.0	9:49	0.0	0.3	9:46
WZ-1	41.9	68.0	11:49	0.0	0.0	7:13
WZ-2	30.5	39.5	12:12	0.0	0.2	12:17
WZ-3	N/A	N/A	N/A	N/A	N/A	N/A

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	0.01	0.03	15:38
PM-2	0.01	0.02	13:36
PM-3	0.00	0.01	10:48
PM-4	0.01	0.09	14:33
PM-5	0.01	0.02	12:10
PM-6	0.02	0.08	13:48
WZ-1	0.01	0.02	7:01
WZ-2	0.01	0.03	13:19
WZ-3	N/A	N/A	N/A



Air Monitoring Notes:

Langan performed air monitoring at the perimeter of the site and at the work zone at eight 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 (1.0 µg/m³ and 5.0 ppm, respectively).

Background Concentrations

Prior to implementation of ground-intrusive work, 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/m³.
- 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-6 exceeded the action level established in the CAMP (0.100 mg/m³) for a duration of about 15 minutes (9:36am to 9:50am). The maximum 15-minute TWA concentration of PM10 was recorded at 0.160 mg/m³ and was caused by instantaneous PM10 concentrations ranging from 0.798 mg/m³ to 1.208 mg/m³. No ground-intrusive activities were ongoing at the site and fugitive dust was not observed migrating from the site during this time. The DustTrak unit at perimeter CAMP station PM-6 was recalibrated and instantaneous PM10 concentrations returned to background conditions at 9:37am.

** PM10 concentrations at perimeter CAMP station PM-4 exceeded the action level established in the CAMP (0.100 mg/m³) for a duration of about 5 minutes (11:05am to 11:09am). The maximum 15-minute TWA concentration of PM10 was recorded at 0.173 mg/m³ and was caused by instantaneous PM10 concentrations ranging from 0.118 mg/m³ to 0.691 mg/m³. The exceedances were caused by exhaust from a nearby generator, which resulted in PM10 and VOC concentrations above background conditions. Perimeter CAMP station PM-4 was relocated further downwind of the work area at 11:10am to avoid potential interference from the generator. During this time, off-site CAMP station WZ-2 was located on the eastern sidewalk of Peck Slip and no instantaneous PM10 concentrations above background conditions were recorded.

PM10 concentrations at perimeter CAMP station PM-4 exceeded the action level established in the CAMP (0.100 mg/m³) for a duration of about 26 minutes (1:59pm to 2:24pm). The maximum 15-minute TWA concentration of PM10 was recorded at 0.158 mg/m³ and was caused by instantaneous PM10 concentrations ranging from 0.134 mg/m³ to 0.500 mg/m³. The exceedances were caused by concrete demolition activities in proximity to the perimeter CAMP station. Dust suppression was implemented by spraying the work area with water and PM10 concentrations returned to background conditions. During this time, off-site CAMP station WZ-2 was located on the eastern sidewalk of Peck Slip and no instantaneous PM10 concentrations above background conditions were recorded.

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 0.28 µg/m³.

- The dedicated mobile monitor (Langan) used a handheld PID to monitor VOC concentrations throughout the site. Instantaneous 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 6:58am to 5:23pm during excavation/backfilling activities along the northern boundary of the site.

- CAMP station WZ-2 was relocated to the eastern sidewalk of Peck Slip from 6:58am to 5:23pm during installation of SDE soldier pile along the eastern boundary of the site.

Equipment Troubleshooting

PM10 concentrations were not recorded at perimeter CAMP station PM-4 between 11:10am and 11:20am during relocation of the CAMP station further downwind of the work area to avoid interference from a nearby generator. Fugitive dust was not observed migrating from the site during this time and data logging resumed at 11:21am. During this time, off-site CAMP station WZ-2 was located on the eastern sidewalk of Peck Slip and no instantaneous PM10 concentrations above background conditions were recorded.

Prior to CAMP Shutdown

Prior to discontinuing the 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 a nd/or Atmos[®] AC-645 dust/vapor suppressing foam. CAMP stations were discontinued between 5:22pm and 5:24pm at the conclusion of ground-intrusive activities.

- Mercury vapor concentrations at each CAMP station were recorded at 0.00 µg/m³.
- VOC concentrations at each CAMP station were recorded at 0.0 ppm.

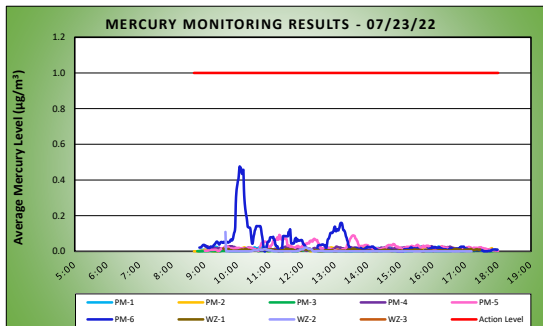
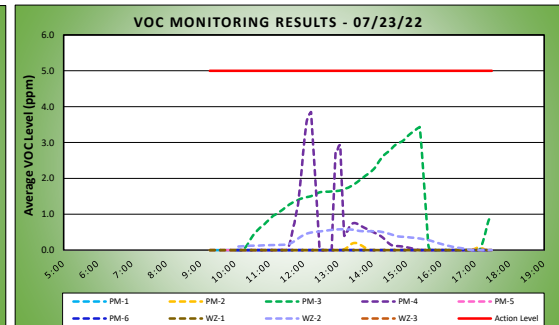
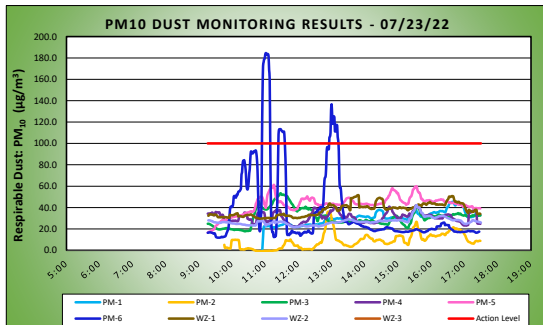
DAILY AIR MONITORING REPORT
250 Water Street Remediation Site
Manhattan, New York

07/23/22	
Project number: 170381202	
Page 1 of 2	Rev. No. 0
Submitted By:	
Dust Action Level ($\mu\text{g}/\text{m}^3$)	100
VOC Action Level (ppm)	5
Hg Action Level ($\mu\text{g}/\text{m}^3$)	1.0

Weather Data Range for Work Day		Wind Direction	N	Relative Humidity (%)	25.6 - 35.6	Daily Rain (in)	0.00	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp (°F)	90.5 - 97.8	Wind Speed (MPH)	1.2 - 6.2	Barometer (inHg)	30.04 - 30.09			

Station Location Work Area	Daily Avg. Dust Concentration ($\mu\text{g}/\text{m}^3$)	Max 15 Minute Dust Concentration ($\mu\text{g}/\text{m}^3$)	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	14.2	45.4	16:40	0.0	0.0	9:26
PM-2	8.9	36.4	12:56	0.0	0.2	13:30
PM-3	30.8	53.3	11:28	1.3	3.4	15:23
PM-4	31.0	41.6	15:33	0.4	3.9	12:13
PM-5	42.3	61.1	11:16	0.0	0.0	13:30
PM-6	37.1	184.6	11:01	0.0	0.0	10:03
WZ-1	37.5	51.6	13:48	0.0	0.0	9:16
WZ-2	26.9	42.2	15:33	0.3	0.6	13:05
WZ-3	N/A	N/A	N/A	N/A	N/A	N/A

Station Location Work Area	Daily Avg. Mercury Concentration ($\mu\text{g}/\text{m}^3$)	Max 15 Minute Mercury Concentration ($\mu\text{g}/\text{m}^3$)	Time of Max 15 Minute Avg Mercury Reading
PM-1	0.01	0.03	16:10
PM-2	0.01	0.03	13:58
PM-3	0.00	0.01	17:29
PM-4	0.02	0.03	11:32
PM-5	0.02	0.09	11:17
PM-6	0.05	0.48	10:04
WZ-1	0.01	0.02	9:34
WZ-2	0.01	0.11	9:38
WZ-3	N/A	N/A	N/A



Air Monitoring Notes:

Langan performed air monitoring at the perimeter of the site and at the work zone at eight 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 exceeded the action level established by the CAMP (1.00 $\mu\text{g}/\text{m}^3$ and 5.0 ppm, respectively).

Background Concentrations

- Prior to implementation of ground-intrusive work, 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 $\mu\text{g}/\text{m}^3$.
- 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-6 exceeded the action level established in the CAMP (0.100 mg/m³) from 10:55am to 11:08am (14 minutes), 11:24am to 11:35am (12 minutes), and 12:56pm to 1:09pm (13 minutes). The exceedances were caused by welding activities in proximity to perimeter CAMP station PM-6 and were not a result of ground-intrusive activities at the site. In each instance, work was temporarily halted and dust suppression was implemented by spraying the work area with water. Fugitive dust was not observed migrating from the site during each of these times.

Ambient Air (Handheld Jerome®, J505 and Handheld PID)

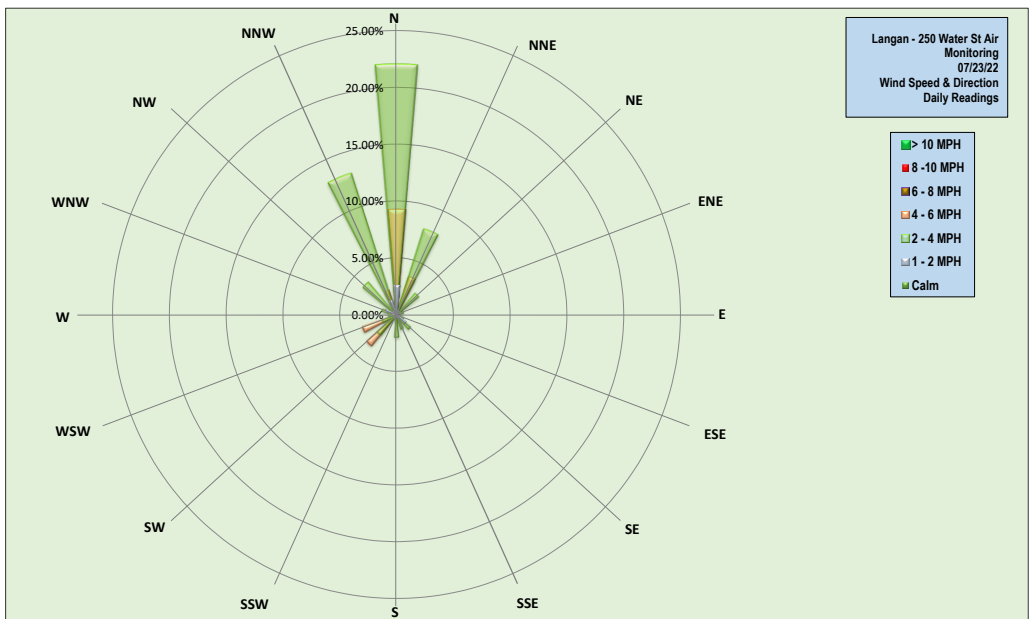
- The dedicated mobile monitor (Langan) used a handheld Jerome® J505 mercury vapor analyzer to monitor ambient air conditions at various heights throughout the site. Instantaneous mercury vapor concentrations throughout the site ranged from 0.00 $\mu\text{g}/\text{m}^3$ to 0.79 $\mu\text{g}/\text{m}^3$ (mercury vapor concentrations above background concentrations are associated with ambient air screening in the north-central part of the site during excavation activities in the mercury-impacted area).
- 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 9:19am to 5:27pm during excavation and demolition activities along the northern boundary of the site.
- CAMP station WZ-2 was relocated to the eastern sidewalk of Peck Slip from 9:51am to 5:11pm during installation of SOE soldier piles along the eastern boundary 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. 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 5:07pm and 5:29pm at the conclusion of ground-intrusive activities.
- Mercury vapor concentrations at each CAMP station were recorded at 0.00 $\mu\text{g}/\text{m}^3$.
- VOC concentrations at each CAMP station were recorded at 0.0 ppm.

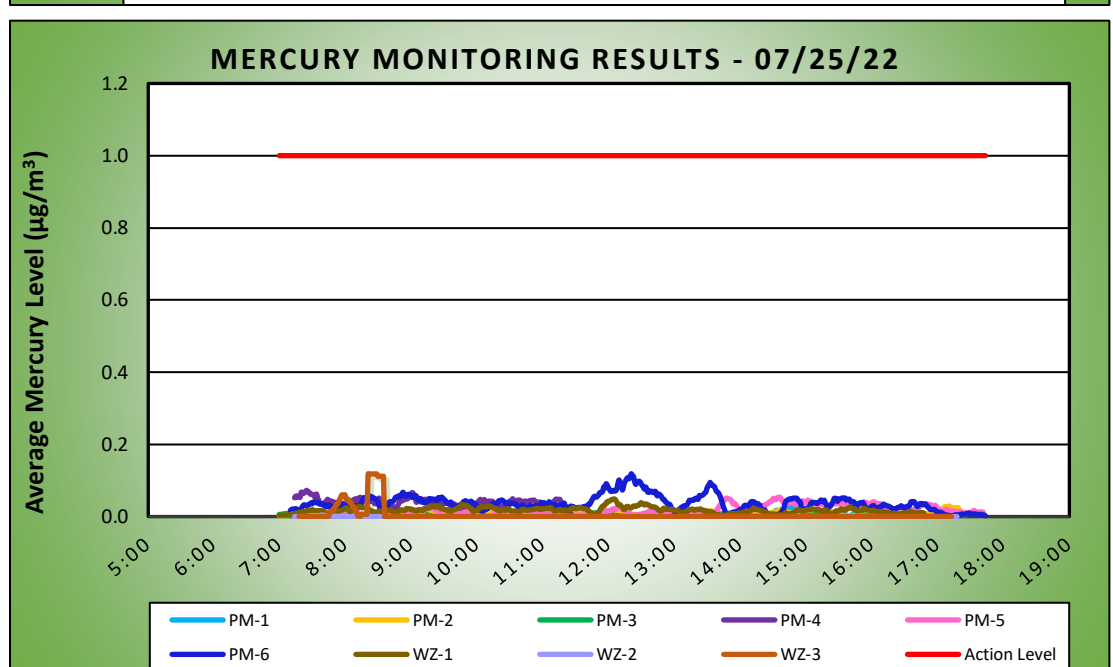
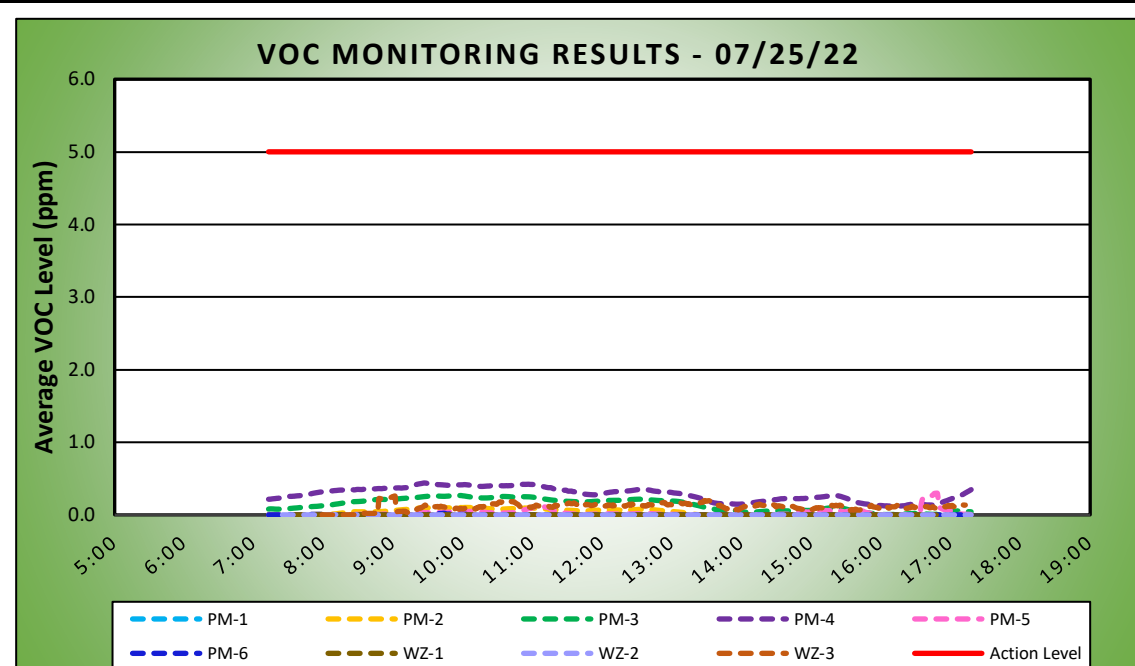
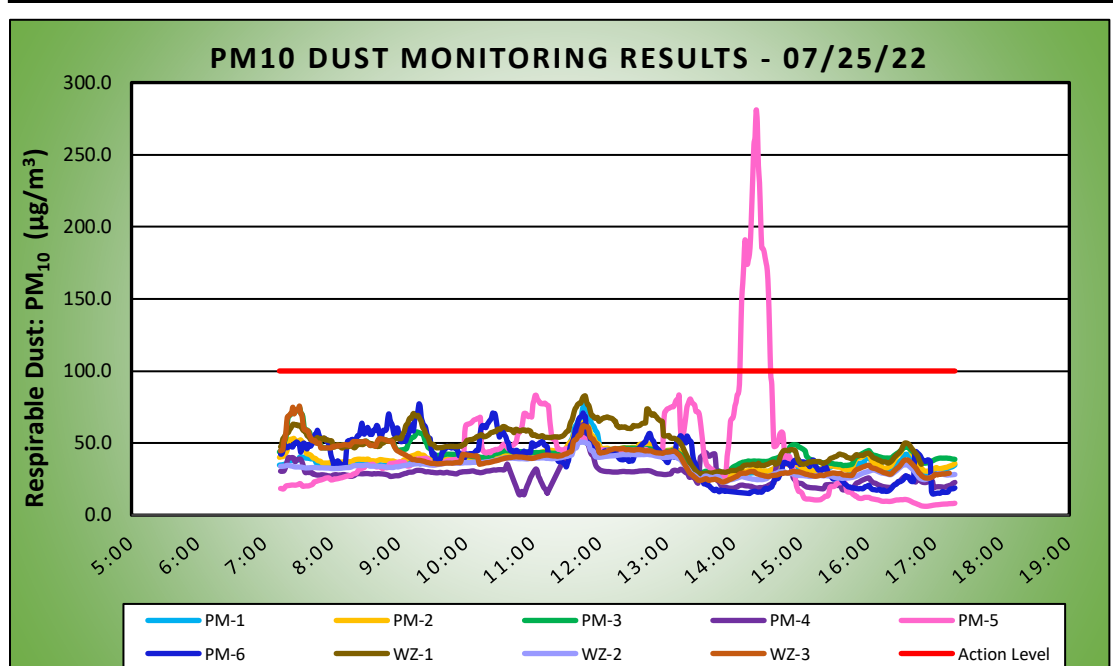


	DAILY AIR MONITORING REPORT				07/25/22	
	250 Water Street Remediation Site				Project number: 170381202	
	Manhattan, New York				Page 1 of 2	
					Submitted By:	
					Rev. No. 0	
				Dust Action Level ($\mu\text{g}/\text{m}^3$)		100
				VOC Action Level (ppm)		5
				Hg Action Level ($\mu\text{g}/\text{m}^3$)		1.0

Weather Data Range for Work Day		Wind Direction	WSW	Relative Humidity (%)	55.0 - 73.7	Daily Rain (in)	0.19	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp (°F)	78.9 - 88.3	Wind Speed (MPH)	0.4 - 7.7	Barometer (inHg)	29.91 - 29.95			

Station Location Work Area	Daily Avg. Dust Concentration ($\mu\text{g}/\text{m}^3$)	Max 15 Minute Dust Concentration ($\mu\text{g}/\text{m}^3$)	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	37.6	76.8	11:46	0.0	0.0	8:27
PM-2	39.2	64.3	11:45	0.0	0.1	10:04
PM-3	43.5	74.9	7:31	0.1	0.3	9:56
PM-4	27.6	62.9	11:45	0.3	0.4	9:27
PM-5	43.1	* 281.0	14:20	0.0	0.3	16:48
PM-6	39.6	77.2	9:18	0.0	0.0	9:44
WZ-1	49.6	82.7	11:47	0.0	0.0	7:35
WZ-2	33.6	50.7	11:43	0.0	0.0	8:05
WZ-3	38.7	75.6	7:31	0.1	0.3	9:02

Station Location Work Area	Daily Avg. Mercury Concentration ($\mu\text{g}/\text{m}^3$)	Max 15 Minute Mercury Concentration ($\mu\text{g}/\text{m}^3$)	Time of Max 15 Minute Avg Mercury Reading
PM-1	0.01	0.03	14:44
PM-2	0.01	0.03	17:11
PM-3	0.00	0.01	11:56
PM-4	0.02	0.07	7:25
PM-5	0.02	0.05	14:36
PM-6	0.04	0.12	12:21
WZ-1	0.02	0.05	12:06
WZ-2	0.00	0.00	7:38
WZ-3	0.00	0.12	8:21



Air Monitoring Notes:

Langan performed air monitoring at the perimeter of the site and at the work zone 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 Community Air Monitoring Plan (CAMP) (1.00 $\mu\text{g}/\text{m}^3$ and 5.0 ppm, respectively).

Background Concentrations

Prior to implementation of ground-intrusive work, 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 0.03 $\mu\text{g}/\text{m}^3$.
- 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-5 exceeded the action level established in the CAMP (0.100 mg/m³) from 2:06pm to 2:32pm (26 minutes). The exceedance was caused by welding activities in proximity to perimeter CAMP station PM-5 and was not a result of ground-intrusive activities at the site. Work was temporarily halted and dust suppression was implemented by spraying the work area with water. Fugitive dust was not observed migrating from the site during this time.

- A Jerome® J405 mercury vapor analyzer was used at off-site CAMP station WZ-3 throughout the work day due to a malfunction of two Jerome® J505 units which required maintenance by the equipment manufacturer. Four additional Jerome® J505 units are anticipated to be delivered to the site on July 26, 2022.

Equipment Troubleshooting

- PM10 concentrations were not recorded at perimeter CAMP station PM-4 from 11:14am to 11:26am due to a malfunction with the remote telemetry system. Work was halted and troubleshooting measures were implemented to restart the system. Fugitive dust was not observed migrating from the site during this time and data logging resumed at 11:27am.

- PM10 concentrations were not recorded at perimeter CAMP station PM-6 from 1:53pm to 1:58pm due to a depleted battery. During this time, CCJV was in the process of welding T-brackets to the edges of previously installed soldier piles along the northern boundary of the site. Data logging resumed at 1:59pm following replacement of the battery at perimeter CAMP station PM-6. Fugitive dust was not observed migrating from the site during this time.

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 $\mu\text{g}/\text{m}^3$ to 0.74 $\mu\text{g}/\text{m}^3$ (mercury vapor concentrations above background concentrations are associated with ambient air screening in the north-central part of the site during excavation activities in the mercury-impacted area).

- 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 7:20am to 4:48pm during excavation and demolition activities along the northern boundary of the site.

- CAMP station WZ-2 was relocated to the eastern sidewalk of Peck Slip from 7:10am to 5:18pm during excavation activities and installation of SOE soldier piles along the eastern boundary of the site.

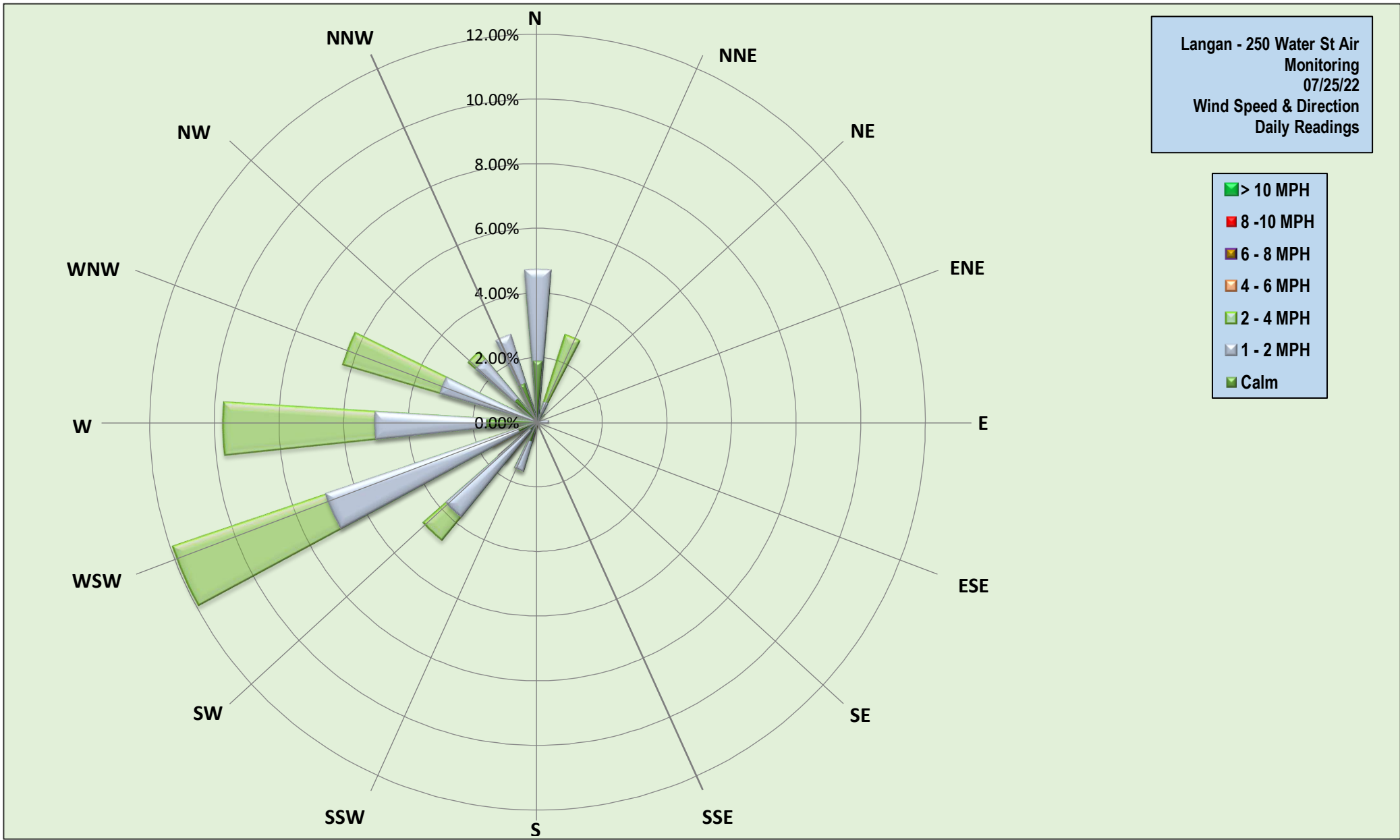
- CAMP station WZ-3 was relocated to the southern sidewalk of Water Street from 7:44am to 5:13pm during installation of SOE soldier piles along the eastern boundary of the site.

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. 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 4:48pm and 5:44pm at the conclusion of ground-intrusive activities.

- Mercury vapor concentrations at each CAMP station ranged from 0.00 to 0.01 $\mu\text{g}/\text{m}^3$.





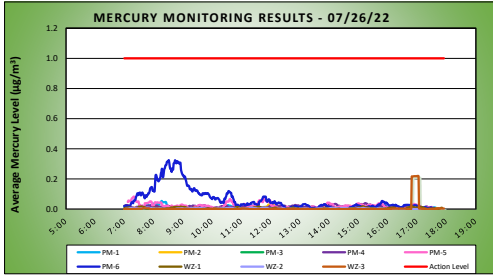
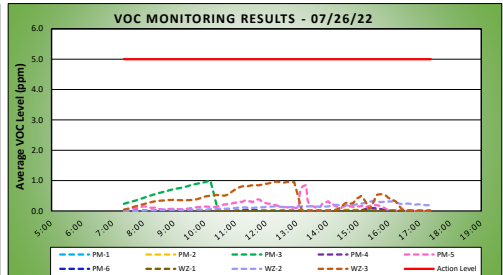
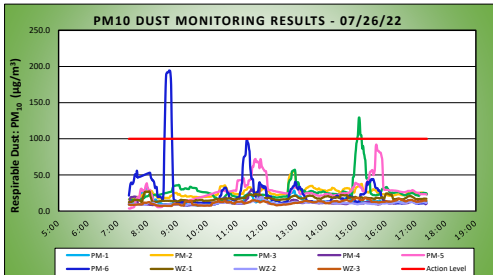


DAILY AIR MONITORING REPORT

250 Water Street Remediation Site Manhattan, New York

07/26/22	
Project number: 170381202	
Page 1 of 2	Rev. No. 0
Submitted By:	
Dust Action Level ($\mu\text{g}/\text{m}^3$)	100
VOC Action Level (ppm)	5
Hg Action Level ($\mu\text{g}/\text{m}^3$)	1.0

Weather Data Range for Work Day		Wind Direction	NNE	Relative Humidity (%)	0.0 - 0.0	Daily Rain (in)	0.00	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp (°F)	72.1 - 82.9	Wind Speed (MPH)	0.5 - 7.4	Barometer (inHg)	30.04 - 30.12			
Station Location Area	Work	Daily Avg. Dust Concentration ($\mu\text{g}/\text{m}^3$)	Max 15 Minute Dust Concentration ($\mu\text{g}/\text{m}^3$)	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		13.7	33.9	7:57	0.0	0.0	9:53	
PM-2		25.9	55.3	12:54	0.0	0.0	15:22	
PM-3		27.6	**129.4	15:05	0.2	1.0	10:11	
PM-4		12.1	34.0	11:47	0.0	0.1	15:27	
PM-5		27.9	92.1	15:40	0.2	0.8	13:18	
PM-6		26.6	**194.5	8:43	0.0	0.0	7:22	
WZ-1		17.6	27.3	8:03	0.0	0.0	7:22	
WZ-2		10.9	19.3	11:48	0.1	0.3	15:31	
WZ-3		12.0	18.2	15:00	0.4	1.0	12:20	
Station Location Area	Work	Daily Avg. Mercury Concentration ($\mu\text{g}/\text{m}^3$)	Max 15 Minute Mercury Concentration ($\mu\text{g}/\text{m}^3$)	Time of Max 15 Minute Avg Mercury Reading				
PM-1		0.01	0.05	8:16				
PM-2		0.01	0.04	12:02				
PM-3		0.00	0.00	7:23				
PM-4		0.02	0.04	15:14				
PM-5		0.02	0.08	7:19				
PM-6		0.06	0.32	8:31				
WZ-1		0.01	0.02	15:08				
WZ-2		0.00	0.01	11:44				
WZ-3		0.01	0.22	17:00				



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 $\mu\text{g}/\text{m}^3$ and 5.0 ppm, respectively).

Background Concentrations

- Prior to implementation of ground-intrusive work, 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 0.03 $\mu\text{g}/\text{m}^3$.
- 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-6 exceeded the action level established in the CAMP (0.100 mg/m^3) from 8:34am to 8:48am (15 minutes). The exceedance was caused by active spraying of Mercon-X® in proximity to perimeter CAMP station PM-6 and was not the result of ground-intrusive activities at the site. During this time, work was temporarily halted due to instantaneous mercury vapor concentrations above background conditions recorded during screening of the ambient air in the north-central part of the site. Fugitive dust was not observed migrating from the site during this time.
- ** PM10 concentrations at perimeter CAMP station PM-3 exceeded the action level established in the CAMP (0.100 mg/m^3) from 3:02pm to 3:10pm (9 minutes). During this time, CCV was loading C&D debris into a truck for off-site disposal. Dust suppression was implemented by spraying the C&D debris with water and concentrations of PM10 returned to background conditions. Fugitive dust was not observed migrating from the site during this time.

Equipment Troubleshooting

- PM10 concentrations at perimeter CAMP station PM-6 were not recorded from 7:41am to 7:48am due to a malfunction with the remote telemetry system. During this time, the dedicated mobile monitor visually monitored the PM10 concentrations on the DustTrak unit while restarting the telemetry system, however, the data was not able to be recovered. PM10 concentrations did not approach or exceed the action level established in CAMP (0.100 mg/m^3). Fugitive dust was not observed migrating from the site during this time and data logging resumed at 7:49am.

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 $\mu\text{g}/\text{m}^3$ to 0.63 $\mu\text{g}/\text{m}^3$, with the exception of ambient air screening in the north-central part of the site during excavation in the mercury-impacted area. During this time, the maximum instantaneous mercury vapor concentration was recorded at 2.51 $\mu\text{g}/\text{m}^3$, however, there were no 15-minute TWK concentrations for mercury vapor exceeding the action level established in the CAMP at any perimeter or work zone CAMP station.
- 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 7:07am to 5:21pm during excavation/backfilling activities and SOE soldier pile installation along the northern boundary of the site.
- CAMP station WZ-2 was relocated to the eastern sidewalk of Peck Slip from 7:07am to 5:21pm during installation of SOE soldier piles along the eastern boundary of the site.
- CAMP station WZ-3 was relocated to the southern sidewalk of Water Street from 7:07am to 5:21pm during installation of the perimeter construction fence along the southern boundary 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. Additionally, areas of exposed soil/fill were covered with polyethylene sheeting and/or Atmos® AC-645 dust/vapor suppressing foam. CAMP stations were discontinued at 5:21pm at the conclusion of ground-intrusive activities.

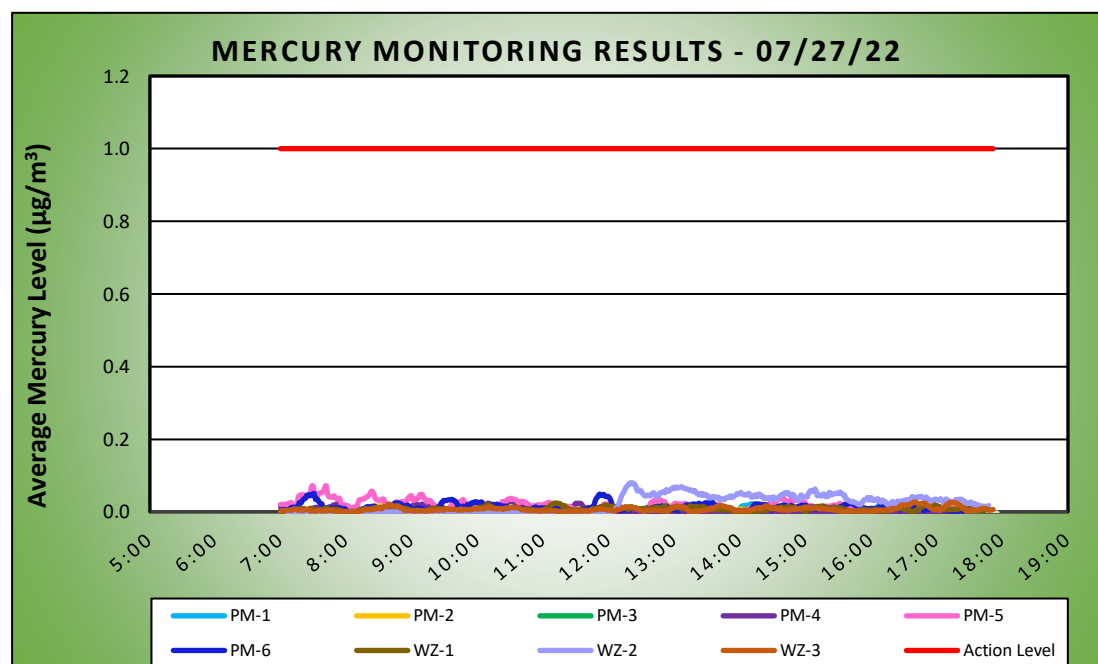
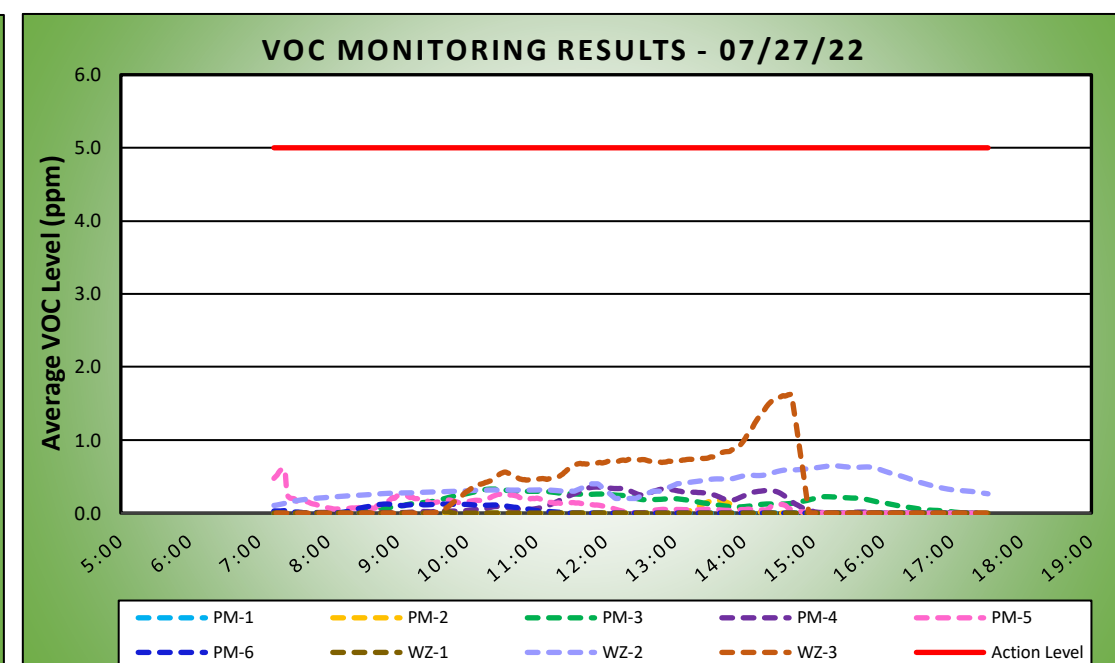
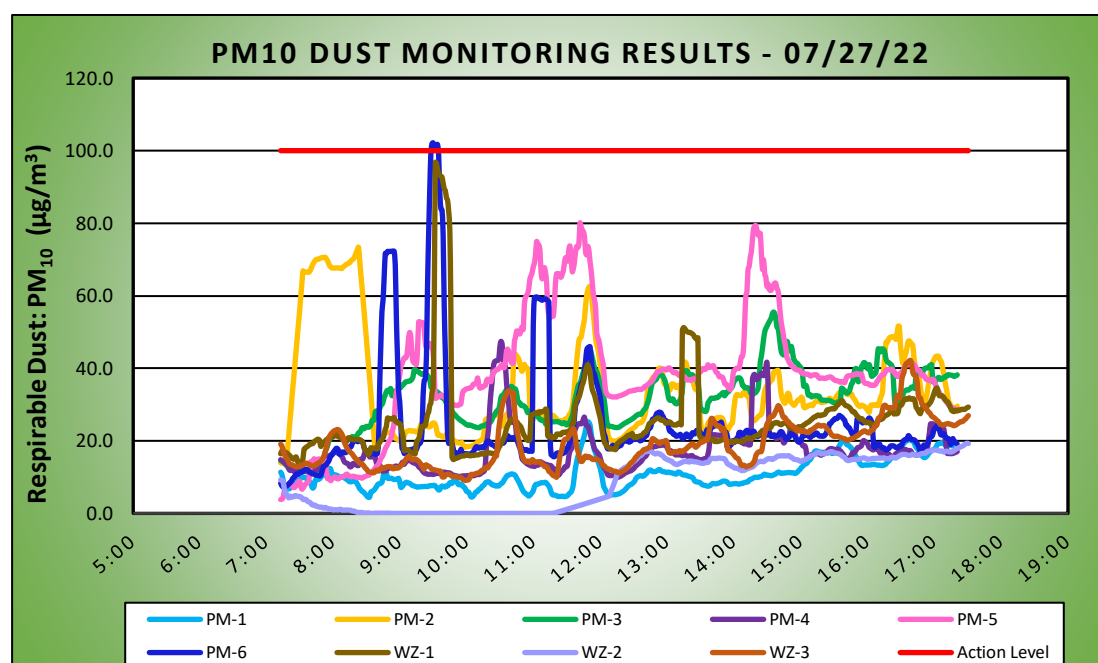


	DAILY AIR MONITORING REPORT		07/27/22				
	250 Water Street Remediation Site		Project number: 170381202				
	Manhattan, New York		Page 1 of 2				
			Submitted By: _____				
			Rev. No. 0				
				Dust Action Level ($\mu\text{g}/\text{m}^3$)		100	
				VOC Action Level (ppm)		5	
				Hg Action Level ($\mu\text{g}/\text{m}^3$)		1.0	

Weather Data Range for Work Day		Wind Direction	N	Relative Humidity (%)	43.4 - 48.6	Daily Rain (in)	0.00	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp (°F)	75.2 - 78.0	Wind Speed (MPH)	0.5 - 4.0	Barometer (inHg)	30.04 - 30.04			

Station Location Work Area	Daily Avg. Dust Concentration ($\mu\text{g}/\text{m}^3$)	Max 15 Minute Dust Concentration ($\mu\text{g}/\text{m}^3$)	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	10.9	25.3	11:49	0.0	0.0	14:27
PM-2	34.0	73.3	8:23	0.0	0.2	13:37
PM-3	31.4	55.5	14:36	0.1	0.3	10:21
PM-4	17.2	47.4	10:31	0.1	0.4	11:53
PM-5	37.6	80.0	11:42	0.1	0.6	7:21
PM-6	24.3	* 102.2	9:30	0.0	0.1	8:51
WZ-1	25.6	96.8	9:32	0.0	0.0	9:33
WZ-2	8.9	19.3	17:30	0.4	0.6	15:17
WZ-3	19.0	42.2	16:39	0.4	1.6	14:40

Station Location Work Area	Daily Avg. Mercury Concentration ($\mu\text{g}/\text{m}^3$)	Max 15 Minute Mercury Concentration ($\mu\text{g}/\text{m}^3$)	Time of Max 15 Minute Avg Mercury Reading
PM-1	0.01	0.02	14:10
PM-2	0.01	0.02	8:39
PM-3	0.00	0.01	8:01
PM-4	0.01	0.03	10:30
PM-5	0.02	0.07	7:29
PM-6	0.01	0.05	7:30
WZ-1	0.01	0.03	16:56
WZ-2	0.02	0.08	12:22
WZ-3	0.01	0.03	16:40



Air Monitoring Notes:

Langan performed air monitoring at the perimeter of the site and at work zones at nine total locations for mercury vapor, 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 $\mu\text{g}/\text{m}^3$ and 5.0 ppm, respectively).

Background Concentrations

Prior to implementation of ground-intrusive work, 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 0.03 $\mu\text{g}/\text{m}^3$.
- 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-6 exceeded the action level established in the CAMP (0.100 mg/m³) from 9:29am to 9:34am (6 minutes). The exceedance was caused by exhaust from a truck exiting the site following delivery of tie-backs for the SOE system. Fugitive dust was not observed migrating from the site during this time.

Equipment Troubleshooting

- PM10 concentrations at off-site CAMP station WZ-2 (located along the Peck Slip sidewalk) were not recorded from 11:19am to 11:52am due to a depleted battery. Upon notification that off-site CAMP station WZ-2 was not transmitting data, the dedicated CAMP monitor investigated the station and observed that the telemetry case and Jerome® J505 unit was stolen. A Jerome® J405 unit was stationed with off-site CAMP station WZ-2 prior to the start of work and a spare Jerome® J505 was placed atop the station for the remainder of the day. The Daily Air Monitoring Report reflects mercury vapor data using the Jerome® J405 from 6:51am to 12:06pm and the Jerome® J505 from 12:06pm to 5:31pm. Following coordination with the New York City Police Department, the depleted battery at off-site CAMP station WZ-2 was replaced and data logging for PM10 resumed at 11:53am. Perimeter CAMP station PM-4 was located between the work area and off-site CAMP station WZ-2 during this time and PM10 concentrations were not recorded above background conditions.

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 $\mu\text{g}/\text{m}^3$ to 0.85 $\mu\text{g}/\text{m}^3$ (mercury vapor concentrations above background conditions are associated with ambient air screening during excavation activities in the mercury-impacted area). There were no 15-minute time-weighted average (TWA) concentrations for mercury vapor that exceeded the action level established in the CAMP at any perimeter or work zone CAMP station.

- 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 6:58am to 5:31pm during excavation activities and SOE soldier pile installation along the northern boundary of the site.
- CAMP station WZ-2 was relocated to the eastern sidewalk of Peck Slip from 6:58am to 5:31pm during installation of SOE soldier piles along the eastern boundary of the site.
- CAMP station WZ-3 was relocated to the southern sidewalk of Water Street from 7:00am to 5:31pm during test pit excavation and installation of the perimeter construction fence along the southern boundary 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. 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 5:17pm and 5:31pm at the conclusion of ground-intrusive activities.

- Mercury vapor concentrations at each CAMP station were recorded at 0.02 $\mu\text{g}/\text{m}^3$.
- VOC concentrations at each CAMP station were recorded at 0.0 ppm.

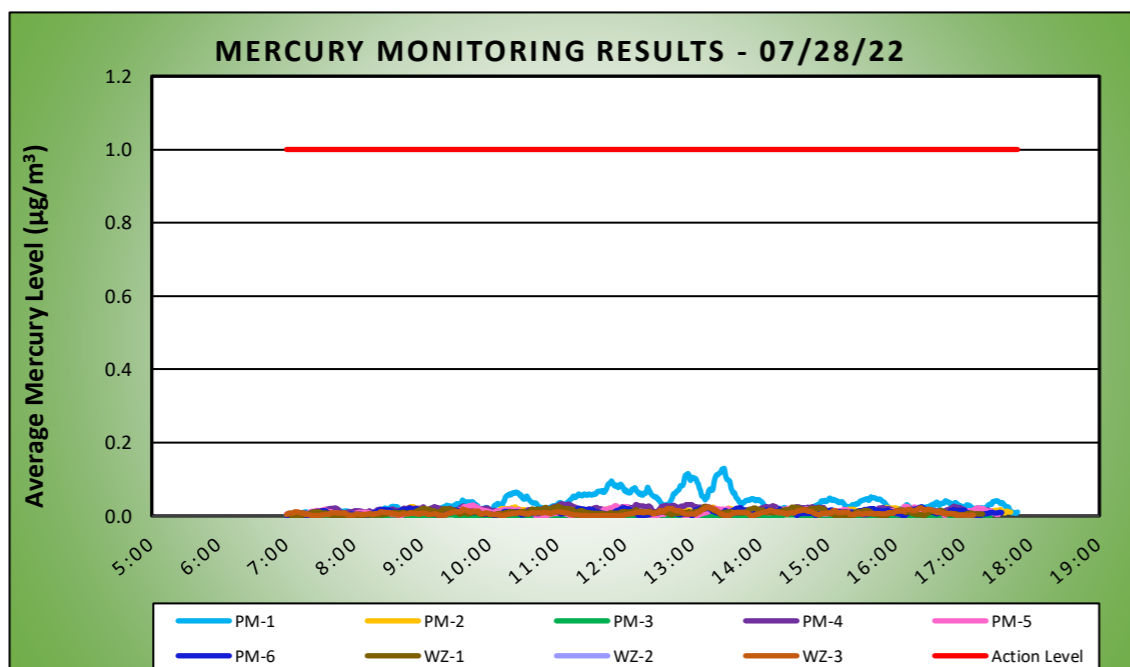
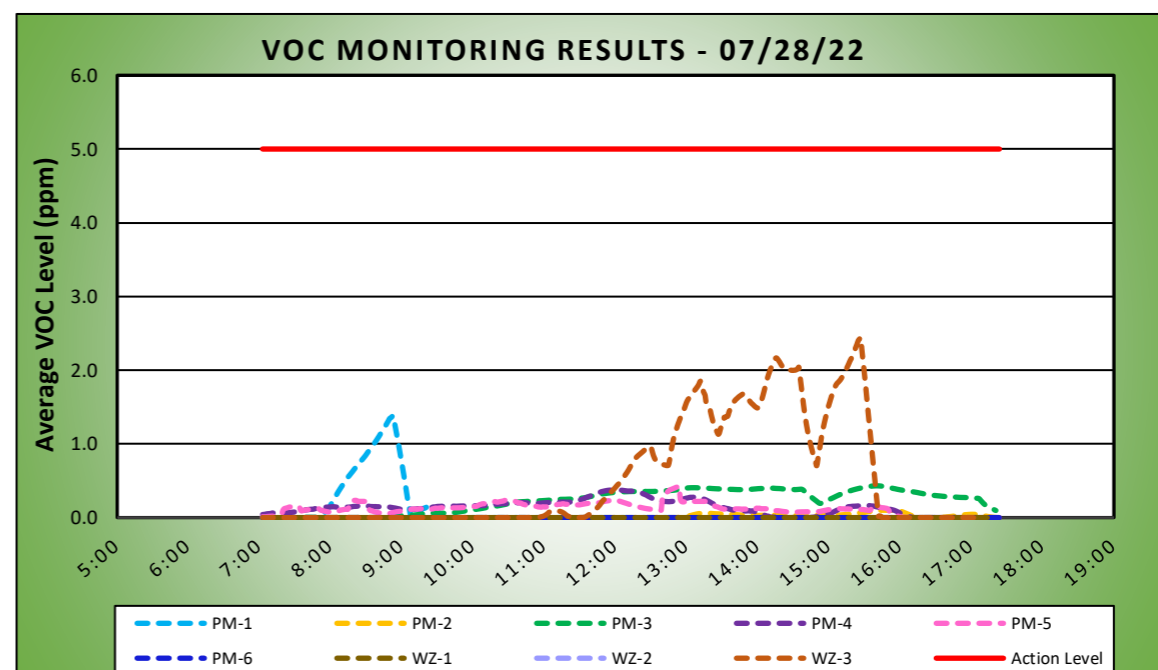
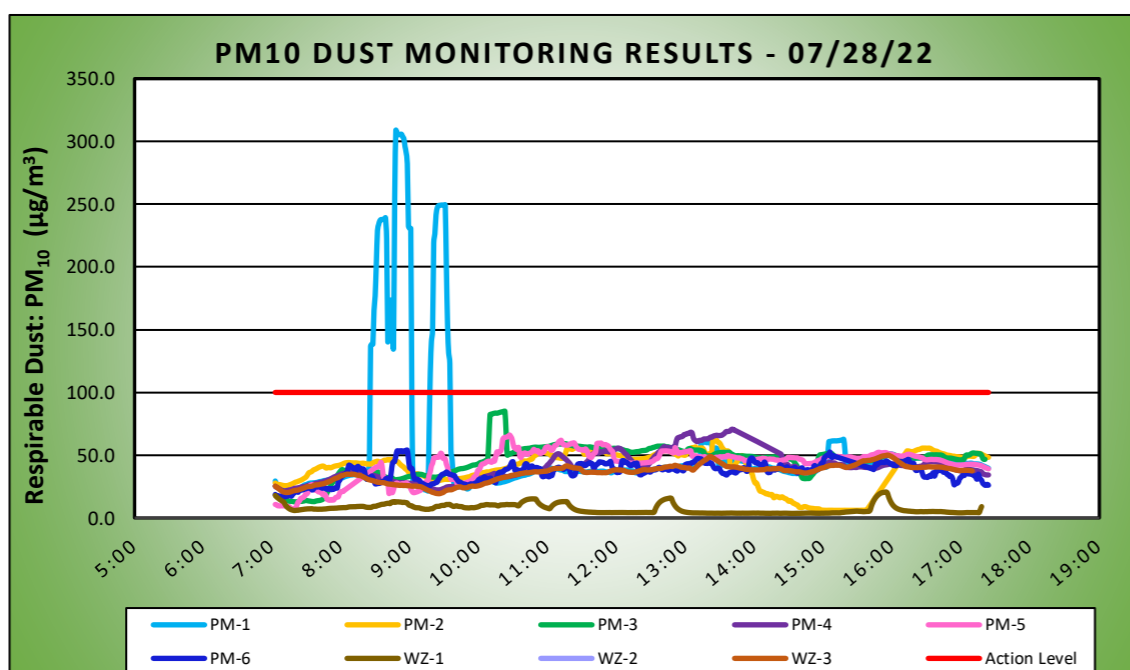


	DAILY AIR MONITORING REPORT		07/28/22	
	250 Water Street Remediation Site			
	Manhattan, New York			
	Project number: 170381202		Page 1 of 2	
	Submitted By:		Rev. No. 0	
Dust Action Level ($\mu\text{g}/\text{m}^3$)		100		
VOC Action Level (ppm)		5		
Hg Action Level ($\mu\text{g}/\text{m}^3$)		1.0		

Weather Data Range for Work Day		Wind Direction	N	Relative Humidity (%)	53.2 - 65.9	Daily Rain (in)	0.00	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp (°F)	82.7 - 88.1	Wind Speed (MPH)	0.1 - 0.1	Barometer (inHg)	29.86 - 29.93			

Station Location Work Area	Daily Avg. Dust Concentration ($\mu\text{g}/\text{m}^3$)	Max 15 Minute Dust Concentration ($\mu\text{g}/\text{m}^3$)	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	54.5	* 308.8	8:48	0.1	1.4	8:53
PM-2	38.9	64.1	13:25	0.0	0.1	15:45
PM-3	45.4	85.0	10:23	0.2	0.4	15:40
PM-4	40.3	70.7	13:41	0.1	0.4	12:03
PM-5	42.4	66.1	10:27	0.1	0.4	12:54
PM-6	36.5	54.0	8:57	0.0	0.0	7:03
WZ-1	7.6	20.7	15:55	0.0	0.0	7:11
WZ-2	N/A	N/A	N/A	N/A	N/A	N/A
WZ-3	35.4	50.1	15:56	0.5	2.4	15:27

Station Location Work Area	Daily Avg. Mercury Concentration ($\mu\text{g}/\text{m}^3$)	Max 15 Minute Mercury Concentration ($\mu\text{g}/\text{m}^3$)	Time of Max 15 Minute Avg Mercury Reading
PM-1	0.03	0.13	13:28
PM-2	0.01	0.03	8:50
PM-3	0.00	0.00	14:22
PM-4	0.02	0.03	11:04
PM-5	0.01	0.03	9:45
PM-6	0.01	0.02	16:23
WZ-1	0.01	0.03	11:00
WZ-2	N/A	N/A	N/A
WZ-3	0.01	0.02	13:13



Air Monitoring Notes:

Langan performed air monitoring at the perimeter of the site and at work zones at eight 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 $\mu\text{g}/\text{m}^3$ and 5.0 ppm, respectively).

Background Concentrations

Prior to implementation of ground-intrusive work, 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 0.08 $\mu\text{g}/\text{m}^3$.
- 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-1 exceeded the action level established in the CAMP (0.100 mg/m^3) from 8:26am to 9:01am (36 minutes) and from 9:18am to 9:35am (18 minutes). The exceedances were caused by saw-cutting of the Beekman Street sidewalk immediately west of the site boundary by an independent contractor. The off-site work was not related to 250 Water Street construction or remediation activities within the site and fugitive dust was not observed migrating from the site during these times.

Equipment Troubleshooting

- PM10 concentrations at the following perimeter CAMP stations were not recorded during replacement of the external batteries:
 - PM-5 from 8:03am to 8:14am (11 minutes)
 - PM-4 from 1:43pm to 2:07pm (24 minutes)
 - PM-6 from 3:10pm to 3:27pm (17 minutes)
 - PM-2 from 3:39pm to 3:57pm (18 minutes)

- In each instance, work was halted upon notification via the remote telemetry system that the DustTrak units were not sending data or there were no ongoing ground-intrusive activities on site. Fugitive dust was not observed migrating from the site during each of these times. Additionally, off-site CAMP stations WZ-1 and WZ-3 (located across the Pearl Street and Peck Slip sidewalks, respectively) did not record concentrations of PM10 above background conditions.

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 $\mu\text{g}/\text{m}^3$ to 0.12 $\mu\text{g}/\text{m}^3$.
- 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 6:56am to 5:17pm during excavation activities and SOE soldier pile installation along the northern boundary of the site.
- CAMP station WZ-3 was relocated to the eastern sidewalk of Peck Slip from 6:48am to 5:09pm during excavation activities in the northeastern 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. 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 5:09pm and 5:24pm at the conclusion of ground-intrusive activities.
 - Mercury vapor concentrations at each CAMP station were recorded at 0.06 $\mu\text{g}/\text{m}^3$.
 - VOC concentrations at each CAMP station were recorded at 0.0 ppm.

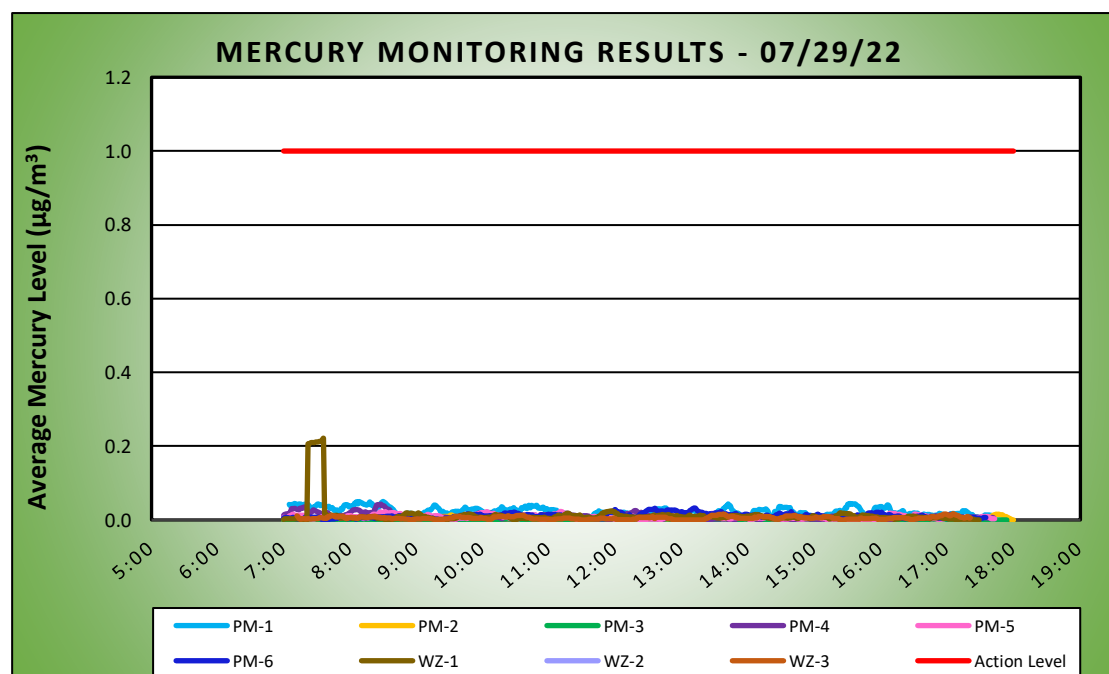
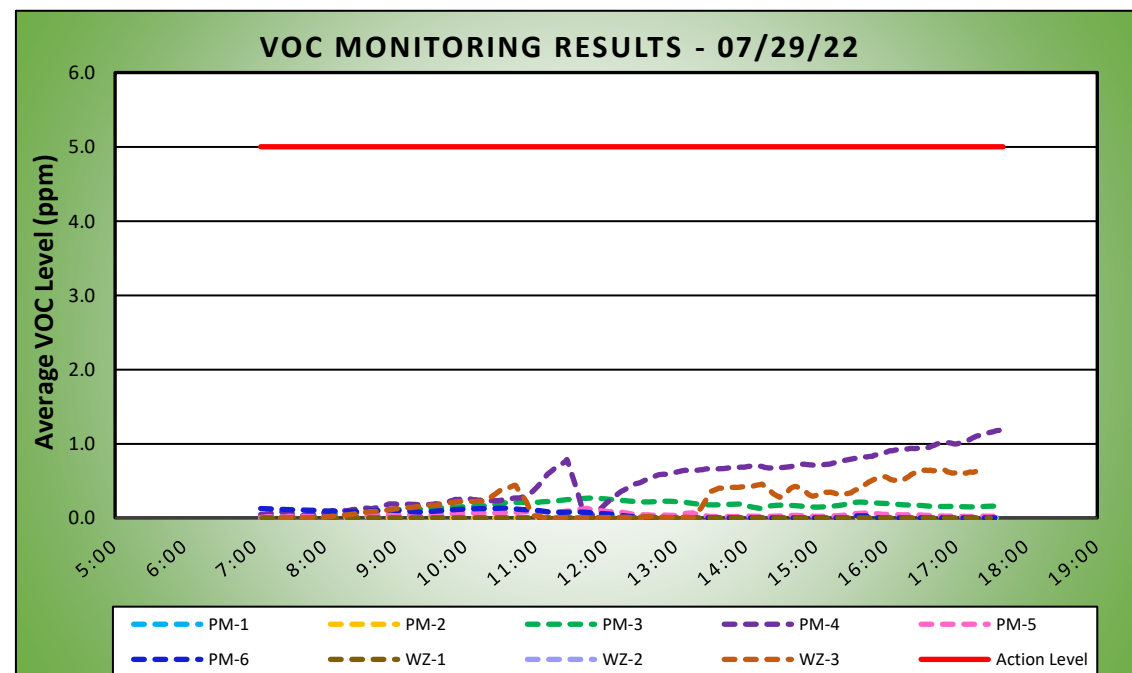
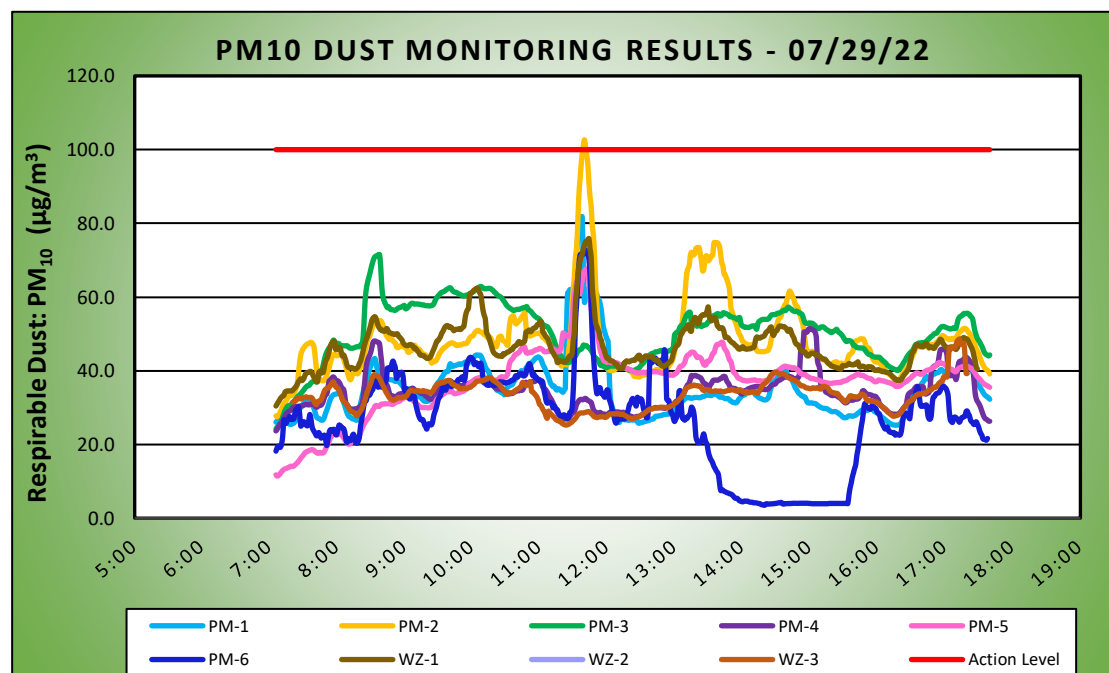


	DAILY AIR MONITORING REPORT 250 Water Street Remediation Site Manhattan, New York			07/29/22			
				Project number: 170381202			
				Page 1 of 2			Rev. No. 0
				Submitted By:			
				Dust Action Level ($\mu\text{g}/\text{m}^3$)			100
				VOC Action Level (ppm)			5
Hg Action Level ($\mu\text{g}/\text{m}^3$)			1.0				

Weather Data Range for Work Day		Wind Direction	WNW	Relative Humidity (%)	0.0 - 0.0	Daily Rain (in)	0.00	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp (°F)	75.0 - 87.0	Wind Speed (MPH)	0.0 - 13.0	Barometer (inHg)	0.00 - 0.00			

Station Location Work Area	Daily Avg. Dust Concentration ($\mu\text{g}/\text{m}^3$)	Max 15 Minute Dust Concentration ($\mu\text{g}/\text{m}^3$)	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	35.1	81.8	11:38	0.0	0.0	7:05
PM-2	48.6	* 102.7	11:40	0.0	0.0	8:44
PM-3	49.9	71.5	8:38	0.2	0.3	11:47
PM-4	34.1	51.4	15:00	0.5	1.2	17:40
PM-5	36.8	67.6	11:42	0.0	0.1	11:44
PM-6	26.3	72.9	11:40	0.0	0.1	10:34
WZ-1	46.3	75.9	11:44	0.0	0.0	7:06
WZ-2	N/A	N/A	N/A	N/A	N/A	N/A
WZ-3	33.5	48.6	17:13	0.2	0.6	16:48

Station Location Work Area	Daily Avg. Mercury Concentration ($\mu\text{g}/\text{m}^3$)	Max 15 Minute Mercury Concentration ($\mu\text{g}/\text{m}^3$)	Time of Max 15 Minute Avg Mercury Reading
PM-1	0.02	0.05	8:30
PM-2	0.00	0.02	15:25
PM-3	0.00	0.00	10:28
PM-4	0.01	0.04	8:28
PM-5	0.01	0.02	11:10
PM-6	0.01	0.03	13:12
WZ-1	0.01	0.22	7:36
WZ-2	N/A	N/A	N/A
WZ-3	0.01	0.02	17:05



Air Monitoring Notes:

Langan performed air monitoring at the perimeter of the site and at work zones at eight 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 $\mu\text{g}/\text{m}^3$ and 5.0 ppm, respectively).

Background Concentrations

Prior to implementation of ground-intrusive work, 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 0.04 $\mu\text{g}/\text{m}^3$.
- 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-2 exceeded the action level established in the CAMP (0.100 mg/m³) from 11:39am to 11:41am (3 minutes). The exceedance was caused by saw-cutting of the Beekman Street sidewalk, immediately west of the site, by an independent contractor. The off-site work was not related to 250 Water Street construction or remediation activities within the site and fugitive dust was not observed migrating from the site during this time.

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 $\mu\text{g}/\text{m}^3$ to 0.09 $\mu\text{g}/\text{m}^3$.

- 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 6:51am to 5:29pm during excavation activities in the north-central part of the site.
- CAMP station WZ-3 was relocated to the eastern sidewalk of Peck Slip from 7:07am to 5:20pm during excavation activities in the northeastern 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. 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 5:20pm and 5:40pm at the conclusion of ground-intrusive activities.

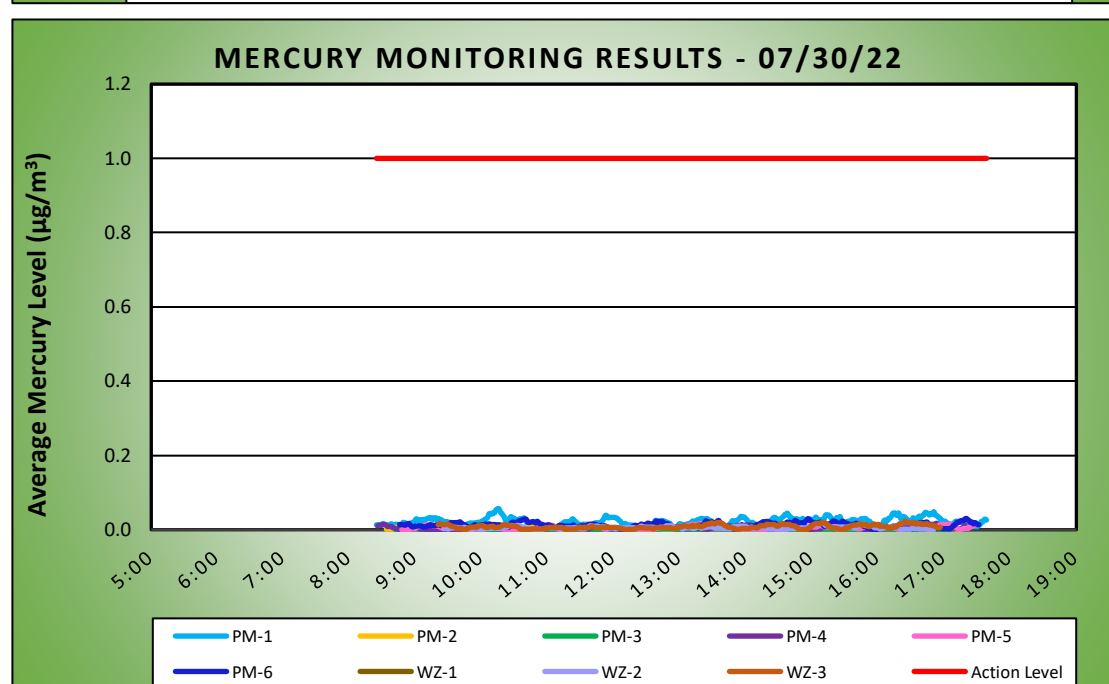
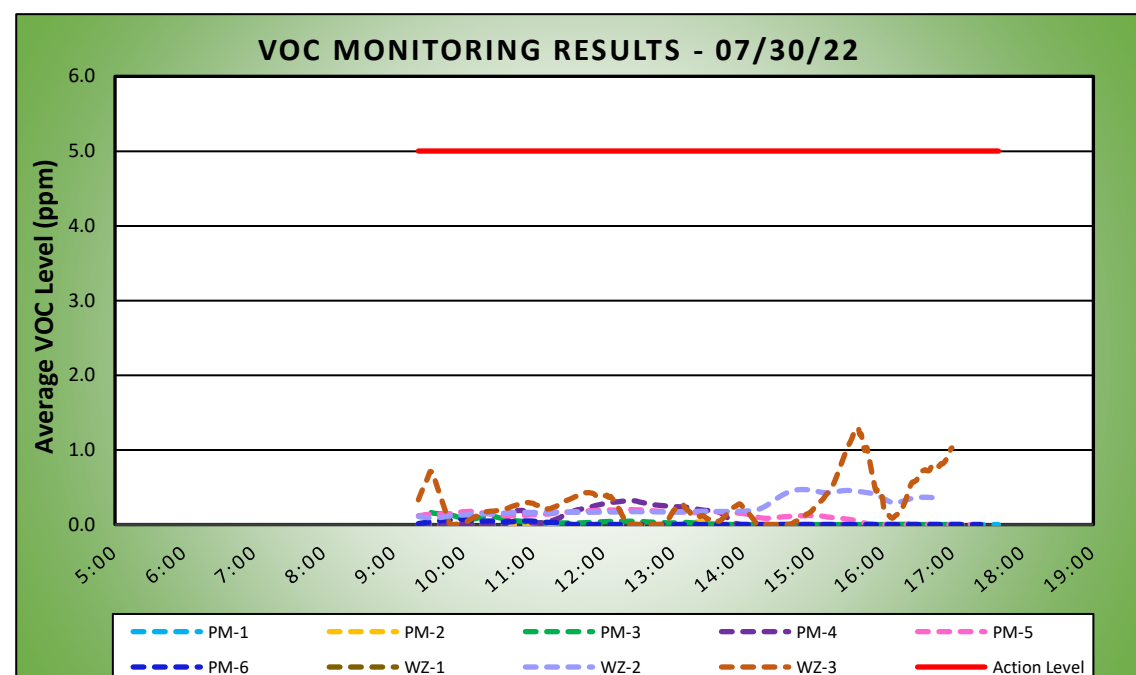
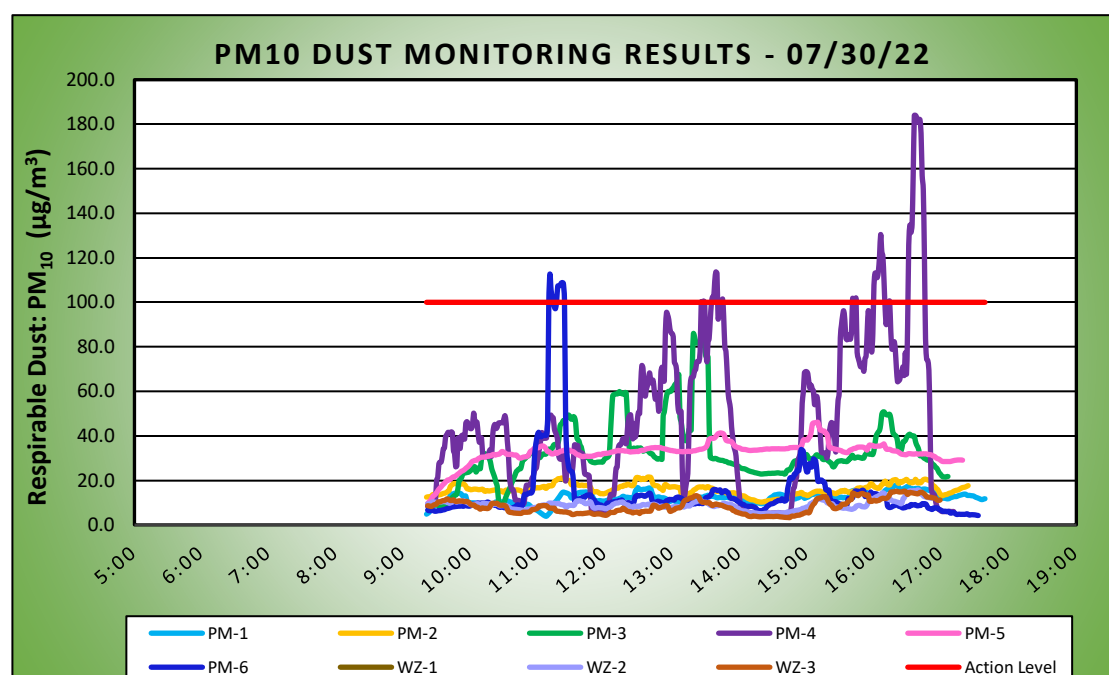
- Mercury vapor concentrations at each CAMP station ranged from 0.00 $\mu\text{g}/\text{m}^3$ to 0.01 $\mu\text{g}/\text{m}^3$.

	DAILY AIR MONITORING REPORT			07/30/22	
	250 Water Street Remediation Site			Project number: 170381202	
	Manhattan, New York			Page 1 of 2	
				Submitted By:	
				Rev. No. 0	
				Dust Action Level ($\mu\text{g}/\text{m}^3$)	
			100		
			VOC Action Level (ppm)		
			5		
			Hg Action Level ($\mu\text{g}/\text{m}^3$)		
			1.0		

Weather Data Range for Work Day		Wind Direction	WNW	Relative Humidity (%)	32.0 - 38.0	Daily Rain (in)	0.00	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp (°F)	84.0 - 88.0	Wind Speed (MPH)	3.5 - 11.5	Barometer (inHg)	30.00 - 30.00			

Station Location Work Area	Daily Avg. Dust Concentration ($\mu\text{g}/\text{m}^3$)	Max 15 Minute Dust Concentration ($\mu\text{g}/\text{m}^3$)	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	12.0	17.8	16:20	0.0	0.0	9:46
PM-2	16.0	21.5	12:39	0.0	0.0	13:23
PM-3	32.6	85.9	13:19	0.0	0.2	9:32
PM-4	45.8	** 184.0	16:37	0.1	0.3	12:24
PM-5	32.0	46.0	15:09	0.1	0.2	12:23
PM-6	14.6	* 112.7	11:11	0.0	0.1	9:57
WZ-1	N/A	N/A	N/A	N/A	N/A	N/A
WZ-2	9.0	15.7	16:39	0.2	0.5	14:51
WZ-3	8.4	15.2	16:27	0.3	1.3	15:38

Station Location Work Area	Daily Avg. Mercury Concentration ($\mu\text{g}/\text{m}^3$)	Max 15 Minute Mercury Concentration ($\mu\text{g}/\text{m}^3$)	Time of Max 15 Minute Avg Mercury Reading
PM-1	0.02	0.06	10:16
PM-2	0.00	0.01	11:39
PM-3	0.00	0.00	9:11
PM-4	0.01	0.02	16:53
PM-5	0.01	0.02	13:18
PM-6	0.01	0.03	17:20
WZ-1	N/A	N/A	N/A
WZ-2	0.01	0.02	15:10
WZ-3	0.01	0.02	16:25



Air Monitoring Notes:

Langan performed air monitoring at the perimeter of the site and at work zones at eight 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 $\mu\text{g}/\text{m}^3$ and 5.0 ppm, respectively).

Background Concentrations

Prior to implementation of ground-intrusive work, 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 $\mu\text{g}/\text{m}^3$.
- 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-6 exceeded the action level established in the CAMP (0.100 mg/m3) from 11:11am to 11:24am (14 minutes). During this time, CCJV was excavating test pits along the southern site boundary, which was downwind of perimeter CAMP station PM-6. The exceedance was not the result of ground-intrusive activities and fugitive dust was not observed migrating from the site. The DustTrak unit within perimeter CAMP station PM-6 was recalibrated and concentrations of PM10 returned to background conditions.

- ** PM10 concentrations at perimeter CAMP station PM-4 exceeded the action level established in the CAMP (0.100 mg/m3) from 1:26pm to 1:45pm (20 minutes), 3:41pm to 3:44pm (4 minutes), 4:00pm to 4:14pm (15 minutes), and 4:31pm to 4:45pm (15 minutes). The exceedances were caused by welding activities adjacent to perimeter CAMP station PM-4 along the eastern boundary of the site and were not the result of ground-intrusive activities at the site. Fugitive dust was not observed migrating from the site during each of 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 $\mu\text{g}/\text{m}^3$ to 0.07 $\mu\text{g}/\text{m}^3$.

- 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-2 was relocated to the southern sidewalk of Water Street from 9:11am to 4:51pm 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 9:07am to 4:57pm 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. 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 4:51pm and 5:39pm at the conclusion of ground-intrusive activities.

- Mercury vapor concentrations at each CAMP station ranged from 0.00 $\mu\text{g}/\text{m}^3$ to 0.02 $\mu\text{g}/\text{m}^3$.
- VOC concentrations at each CAMP station ranged from 0.0 ppm to 0.4 ppm.



