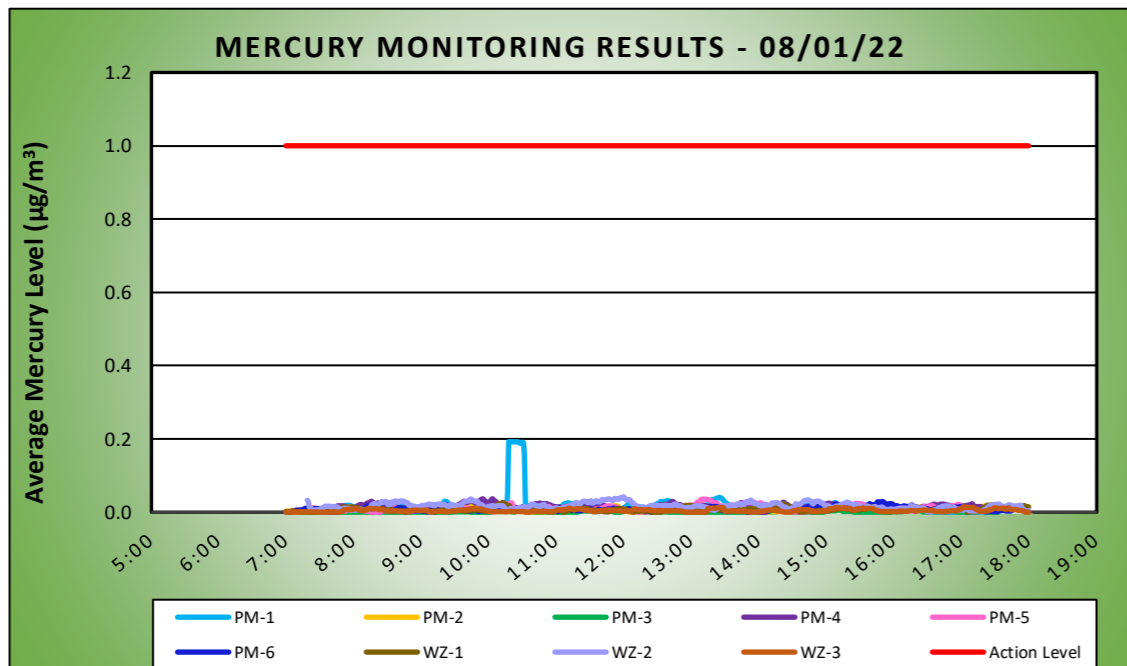
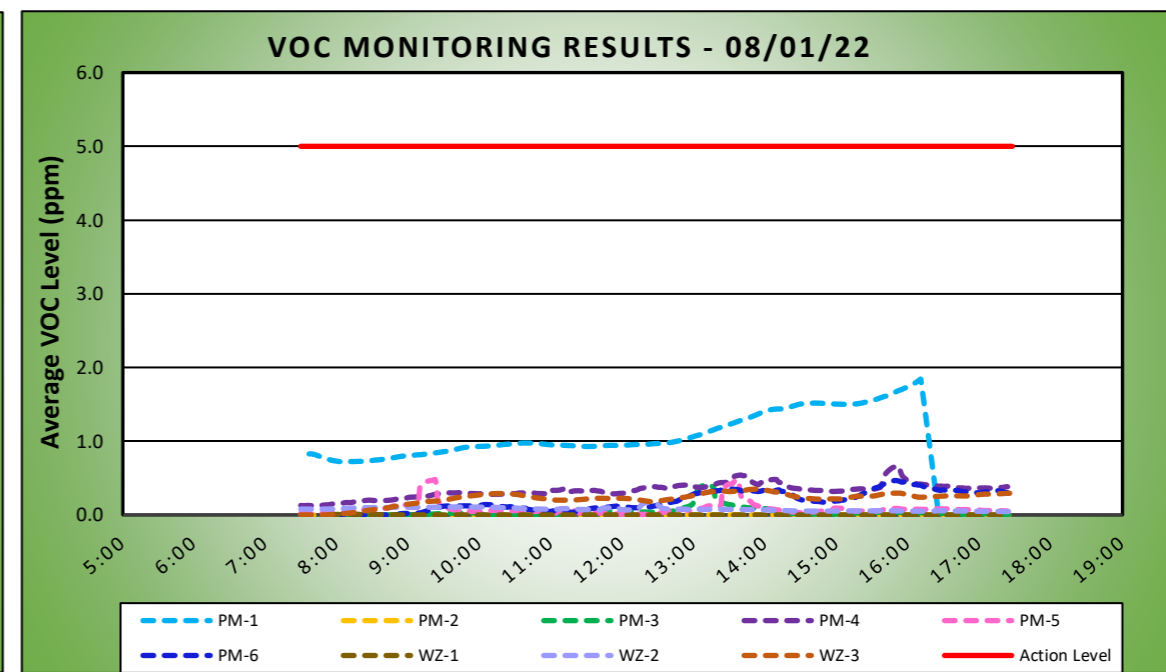
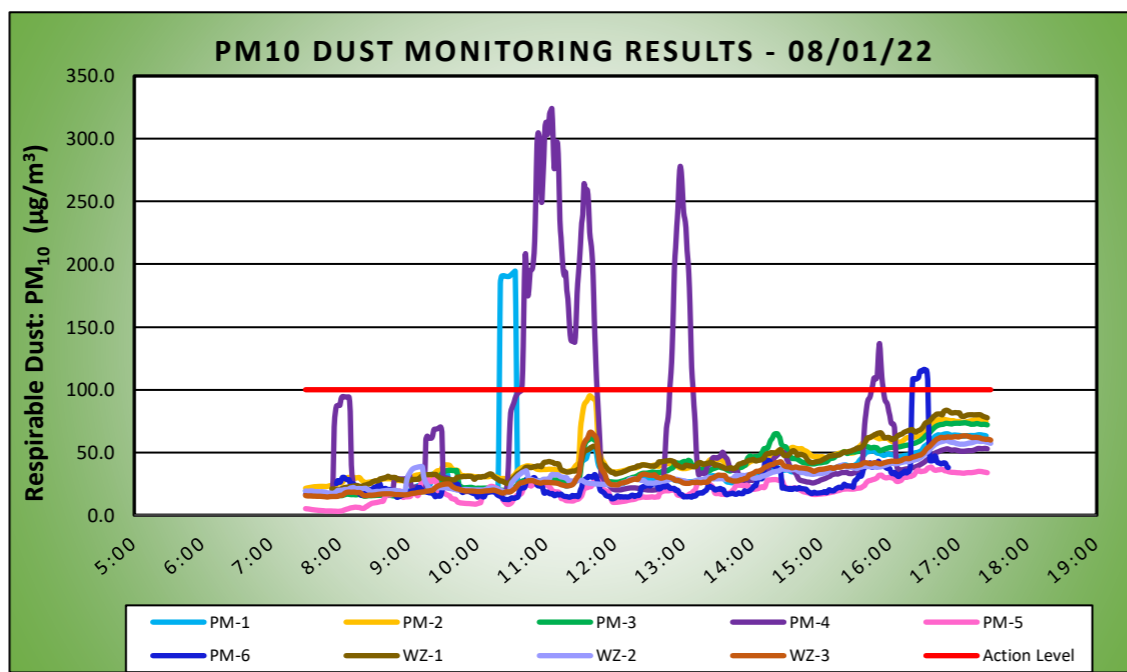


	<b>DAILY AIR MONITORING REPORT</b>				08/01/22	
	<b>250 Water Street Remediation Site</b>				Project number: 170381202	
	<b>Manhattan, New York</b>				Page 1 of 2	
					Submitted By: _____	
					Rev. No. 0	
				Dust Action Level ( $\mu\text{g}/\text{m}^3$ )		100
				VOC Action Level (ppm)		5
				Hg Action Level ( $\mu\text{g}/\text{m}^3$ )		1.0

Weather Data Range for Work Day		Wind Direction	NE	Relative Humidity (%)	82.0 - 92.0	Daily Rain (in)	0.01	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp (°F)	69.0 - 74.0	Wind Speed (MPH)	0.0 - 8.1	Barometer (inHg)	29.90 - 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	37.1	194.4	10:33	1.0	1.8	16:11
PM-2	44.2	95.3	11:38	0.0	0.0	7:32
PM-3	38.5	73.7	17:05	0.0	0.4	13:12
PM-4	64.2	323.9	11:05	0.3	0.7	15:52
PM-5	19.6	38.4	16:36	0.1	0.5	9:23
PM-6	25.4	116.2	16:30	0.2	0.5	15:50
WZ-1	44.1	83.7	16:49	0.0	0.0	8:11
WZ-2	31.4	59.6	16:49	0.1	0.2	12:26
WZ-3	32.2	66.2	11:39	0.2	0.4	13:52

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	0.19	10:18
PM-2	0.01	0.02	9:49
PM-3	0.00	0.01	17:10
PM-4	0.02	0.04	9:55
PM-5	0.01	0.04	13:11
PM-6	0.01	0.03	15:50
WZ-1	0.01	0.03	10:12
WZ-2	0.02	0.04	12:00
WZ-3	0.00	0.01	17:03



**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 0.02  $\mu\text{g}/\text{m}^3$ .
- 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  $\text{mg}/\text{m}^3$ ) from 10:20am to 10:34am (15 minutes). The exceedance was caused by exhaust from a truck exiting the site following delivery of timber planks for the SOE system. Fugitive dust was not observed migrating from the site during this time.
- \*\* PM10 concentrations at perimeter CAMP station PM-4 exceeded the action level established in the CAMP from 10:39am to 11:44am (66 minutes), 12:48pm to 1:08pm (21 minutes), and 3:44pm to 3:54pm (11 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. The CAMP station was not able to be moved due to limited space along the eastern site boundary. Fugitive dust was not observed migrating from the site during each of these times.
- \*\*\* PM10 concentrations at perimeter CAMP station PM-6 exceeded the action level established in the CAMP from 4:20pm to 4:33pm (14 minutes). The exceedance was caused by welding activities adjacent to perimeter CAMP station PM-6 and was not the result of ground-intrusive activities at the site. 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 7:38am to 5:25pm during excavation activities in the north-central and northeastern parts of the site.
- CAMP station WZ-2 was relocated to the southern sidewalk of Water Street from 7:15am to 5:28pm due to exposed soil/fill within 20 feet of the southern fence line.
- CAMP station WZ-3 was relocated to the eastern sidewalk of Peck Slip from 7:15am to 5:28pm 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 4:51pm and 5:28pm 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 were recorded at 0.0 ppm.

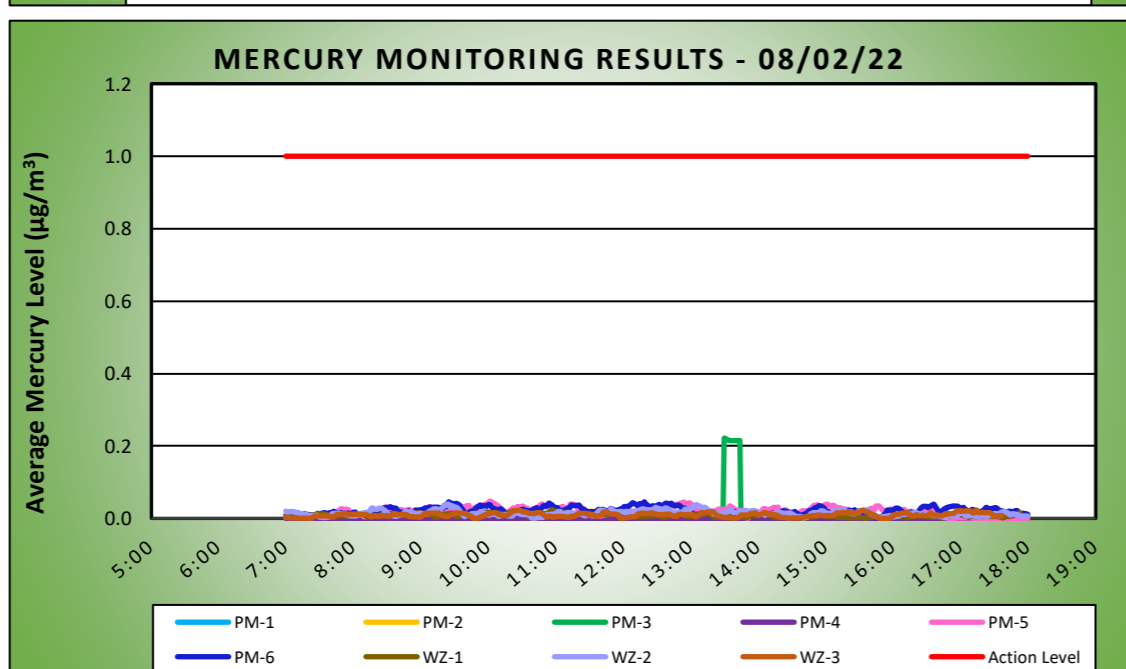
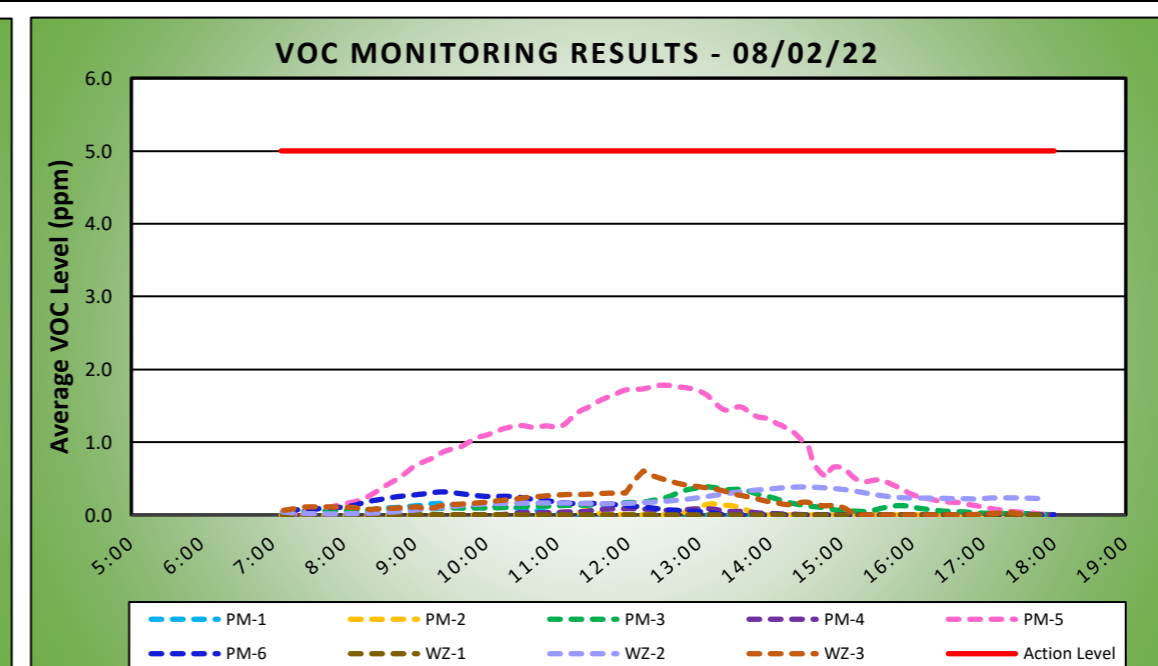
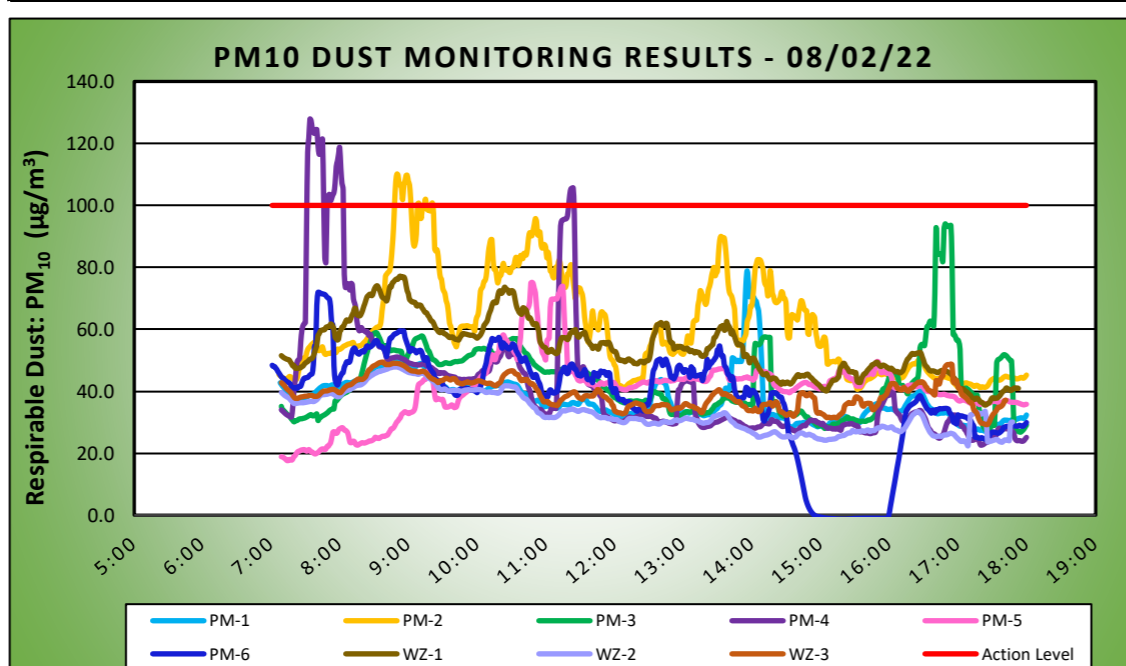


	<b>DAILY AIR MONITORING REPORT</b>		08/02/22	
	<b>250 Water Street Remediation Site</b>		Project number: 170381202	
	<b>Manhattan, New York</b>		Page 1 of 2	
			Submitted By: _____	
			Rev. No. 0	
		Dust Action Level ( $\mu\text{g}/\text{m}^3$ )		100
		VOC Action Level (ppm)		5
		Hg Action Level ( $\mu\text{g}/\text{m}^3$ )		1.0

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

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

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



**Air Monitoring Notes:**

Langan performed air monitoring at the perimeter of the site and at work zones at nine total locations for mercury vapor, volatile organic compounds (VOCs), and particulate matter less than 10 microns in diameter (PM10) during ground-intrusive activities. There were no fifteen-minute average concentrations for mercury vapor or VOCs that approached or exceeded the action level established by the CAMP (1.00  $\mu\text{g}/\text{m}^3$  and 5.0 ppm, respectively).

**Background Concentrations**

Prior to implementation of ground-intrusive work each day, instantaneous background concentrations of mercury vapor and VOCs were recorded using a handheld Jerome® J505 mercury vapor analyzer and a handheld PID, respectively.

- Background concentrations of mercury vapor at each CAMP station ranged from 0.00 to 0.01  $\mu\text{g}/\text{m}^3$ .
- 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-4 exceeded the action level established in the CAMP (0.100  $\text{mg}/\text{m}^3$ ) from 7:32am to 8:03am (32 minutes) and from 11:21am to 11:24am (4 minutes). The exceedances were caused by welding activities along the eastern boundary of the site (Peck Slip) adjacent to perimeter CAMP station PM-4 and were not the result of ground-intrusive activities associated with soil/fill at the site. The CAMP station was not able to be moved due to limited space along the eastern site boundary. Fugitive dust was not observed migrating from the site during these times.

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

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

- The dedicated mobile monitor (Langan) used a handheld Jerome® J505 mercury vapor analyzer to monitor ambient air conditions at various heights throughout the site. Instantaneous mercury vapor concentrations throughout the site ranged from 0.00  $\mu\text{g}/\text{m}^3$  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. VOC concentrations were at or below background concentrations throughout the work day.

**Off-Site CAMP Station Relocation**

- CAMP station WZ-1 was relocated to the northern sidewalk of Pearl Street from 6:54am to 5:53pm due to exposed soil/fill within 20 feet of the northern fence line.
- CAMP station WZ-2 was relocated to the southern sidewalk of Water Street from 6:54am to 5:47pm during excavation of test pits along the southern boundary of the site.
- CAMP station WZ-3 was relocated to the eastern sidewalk of Peck Slip from 6:54am to 5:37pm during excavation activities in the eastern part of the site.

**Prior to CAMP Shutdown**

Prior to discontinuing CAMP, air quality at each CAMP station was verified using the handheld PID and handheld Jerome® J505 mercury vapor analyzer and no readings above background concentrations were recorded:

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

Additionally, areas of exposed soil/fill were covered with polyethylene sheeting and/or Atmos® AC-645 dust/vapor suppressing foam. CAMP stations were discontinued between 5:37pm and 6:23pm at the conclusion of ground-intrusive activities.



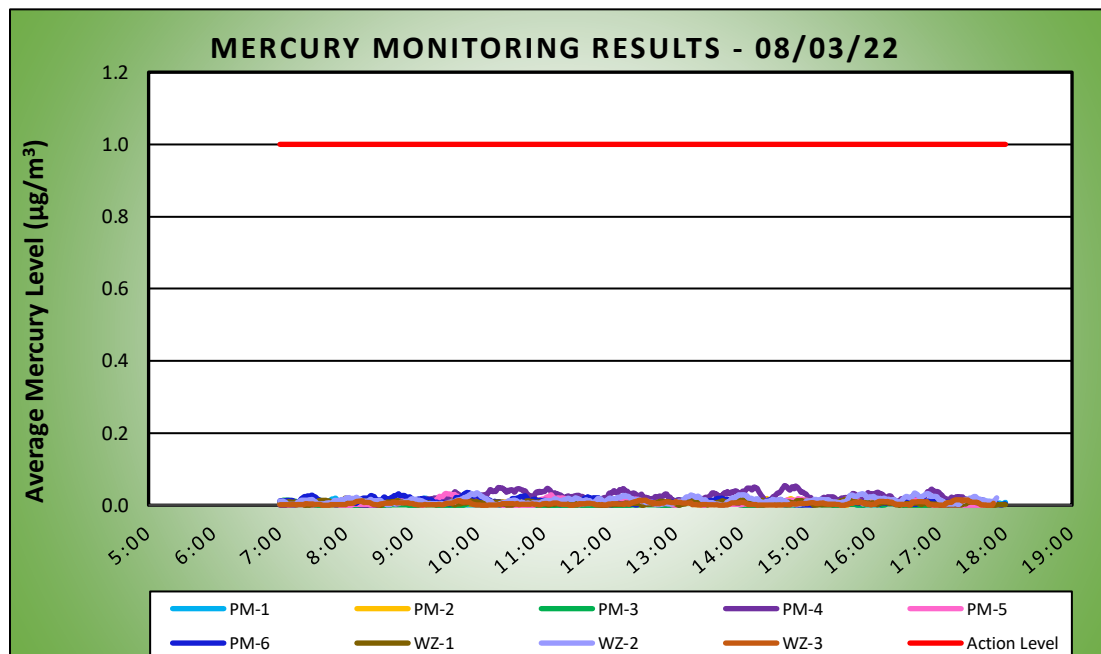
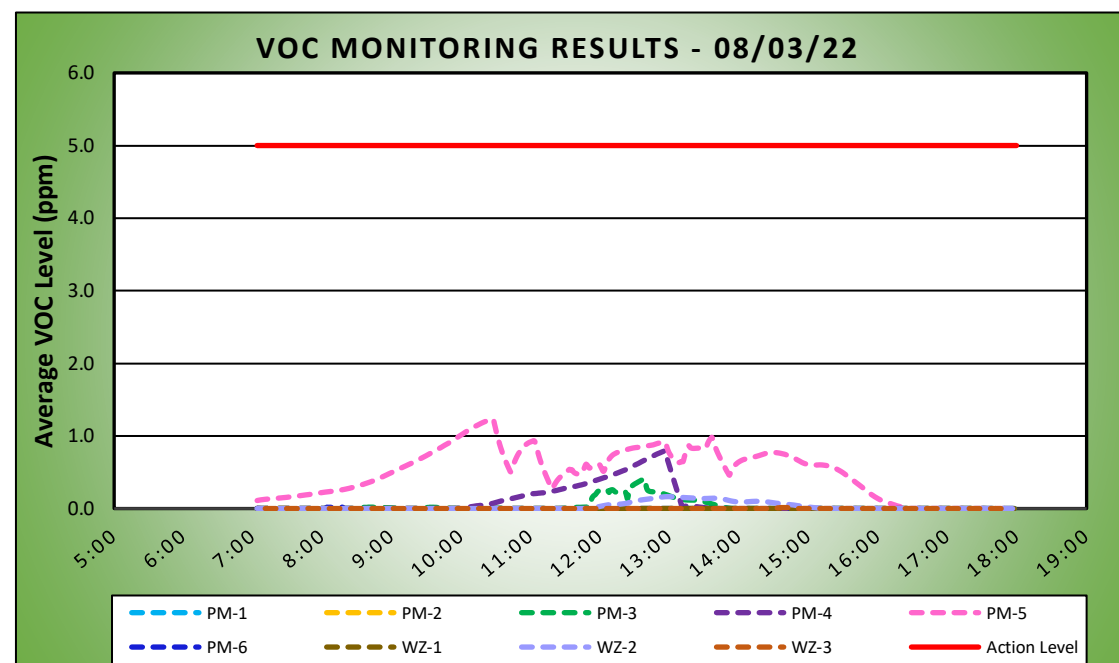
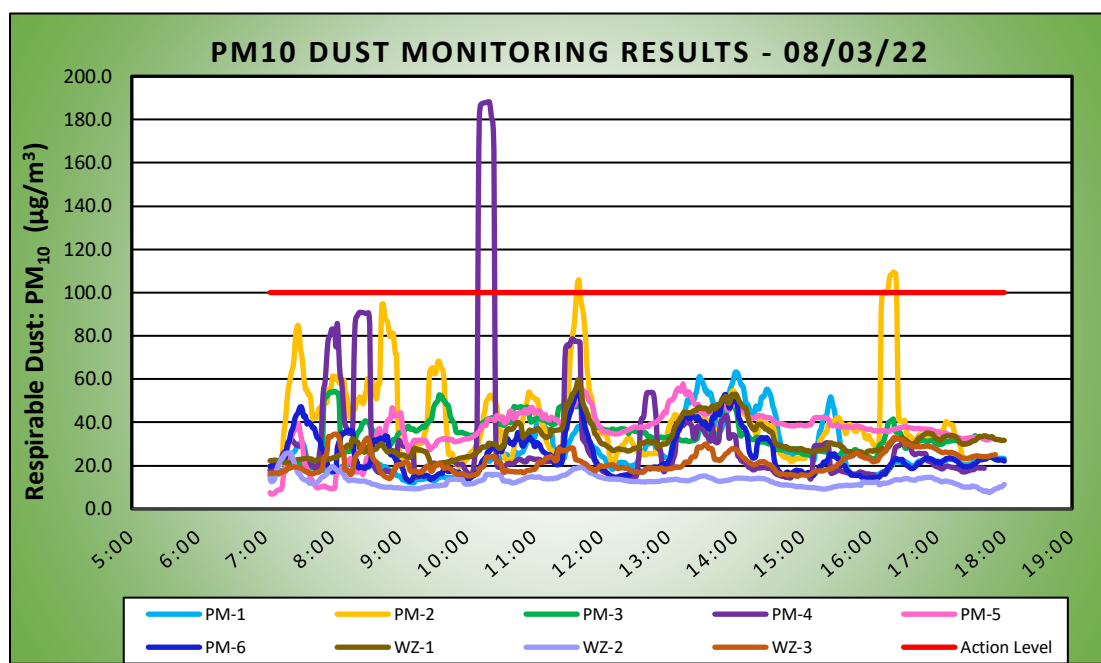


	<b>DAILY AIR MONITORING REPORT</b>		08/03/22	
	<b>250 Water Street Remediation Site</b>		Project number: 170381202	
	<b>Manhattan, New York</b>		Page 1 of 2	
			Submitted By: _____	
			Rev. No. 0	
		Dust Action Level ( $\mu\text{g}/\text{m}^3$ )		100
		VOC Action Level (ppm)		5
		Hg Action Level ( $\mu\text{g}/\text{m}^3$ )		1.0

Weather Data Range for Work Day		Wind Direction	N	Relative Humidity (%)	38.0 - 72.0	Daily Rain (in)	0.00	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp (°F)	74.0 - 90.0	Wind Speed (MPH)	0.0 - 8.5	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	26.4	63.3	14:00	0.0	0.0	7:04
PM-2	41.4	** 109.5	16:21	0.0	0.0	8:43
PM-3	34.0	54.3	8:02	0.0	0.4	12:39
PM-4	31.0	* 188.1	10:20	0.1	0.8	12:56
PM-5	36.2	57.9	13:13	0.5	1.2	10:28
PM-6	25.1	57.9	11:39	0.0	0.0	8:04
WZ-1	31.5	59.6	11:39	0.0	0.0	7:04
WZ-2	13.3	25.9	7:20	0.0	0.2	12:59
WZ-3	21.6	34.6	8:02	0.0	0.0	14:36

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	9:11
PM-2	0.01	0.02	14:23
PM-3	0.00	0.01	7:03
PM-4	0.02	0.05	14:39
PM-5	0.01	0.03	9:31
PM-6	0.01	0.04	9:50
WZ-1	0.01	0.02	8:00
WZ-2	0.01	0.03	9:59
WZ-3	0.00	0.02	17:15



**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 each day, instantaneous background concentrations of mercury vapor and VOCs were recorded using a handheld Jerome® J505 mercury vapor analyzer and a handheld PID, respectively.

- Background concentrations of mercury vapor at each CAMP station ranged from 0.00 to 0.03  $\mu\text{g}/\text{m}^3$ .
- 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-4 exceeded the action level established in the CAMP (0.100  $\text{mg}/\text{m}^3$ ) from 10:10am to 10:24am (15 minutes). The exceedance was caused by welding activities adjacent to perimeter CAMP station PM-4 along the eastern boundary of the site (Peck Slip) and were not the result of ground-intrusive activities associated with soil/fill at the site. The CAMP station was not able to be moved due to limited space along the eastern site boundary. Fugitive dust was not observed migrating from the site during this time.

\*\* PM10 concentrations at perimeter CAMP station PM-2 exceeded the action level established in the CAMP (0.100  $\text{mg}/\text{m}^3$ ) from 11:38am to 11:41am (4 minutes) and from 4:12pm to 4:23pm (12 minutes). The exceedances were caused by pinched tubing connected to the inlet of the DustTrak unit at perimeter CAMP station PM-2, which was located along the southern boundary of the site (Water Street). The exceedances were not the result of ground-intrusive activities associated with soil/fill at the site. Following adjustment of the tubing and recalibration of the DustTrak unit, PM10 concentrations returned to background conditions in both instances. Fugitive dust was not observed migrating from the site during these times.

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

- The dedicated mobile monitor (Langan) used a handheld Jerome® J505 mercury vapor analyzer to monitor ambient air conditions at various heights throughout the site. Instantaneous mercury vapor concentrations throughout the site ranged from 0.00  $\mu\text{g}/\text{m}^3$  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. 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 6:49am to 6:05pm due to exposed soil/fill within 20 feet of the northern fence line.
- CAMP station WZ-2 was relocated to the southern sidewalk of Water Street from 6:49am to 5:52pm during excavation of test pits along the southern boundary of the site.
- CAMP station WZ-3 was relocated to the eastern sidewalk of Peck Slip from 6:56am to 5:49pm during excavation activities in the eastern part of the site.

**Prior to CAMP Shutdown**

Prior to discontinuing CAMP, air quality at each CAMP station was verified using the handheld PID and handheld Jerome® J505 mercury vapor analyzer and no readings above background concentrations were recorded:

- Mercury vapor concentrations at each CAMP station ranged from 0.00  $\mu\text{g}/\text{m}^3$  to 0.04  $\mu\text{g}/\text{m}^3$ .
- VOC concentrations at each CAMP station ranged from 0.0 ppm to 0.1 ppm.

Additionally, areas of exposed soil/fill were covered with polyethylene sheeting and/or Atmos® AC-645 dust/vapor suppressing foam. CAMP stations were discontinued between

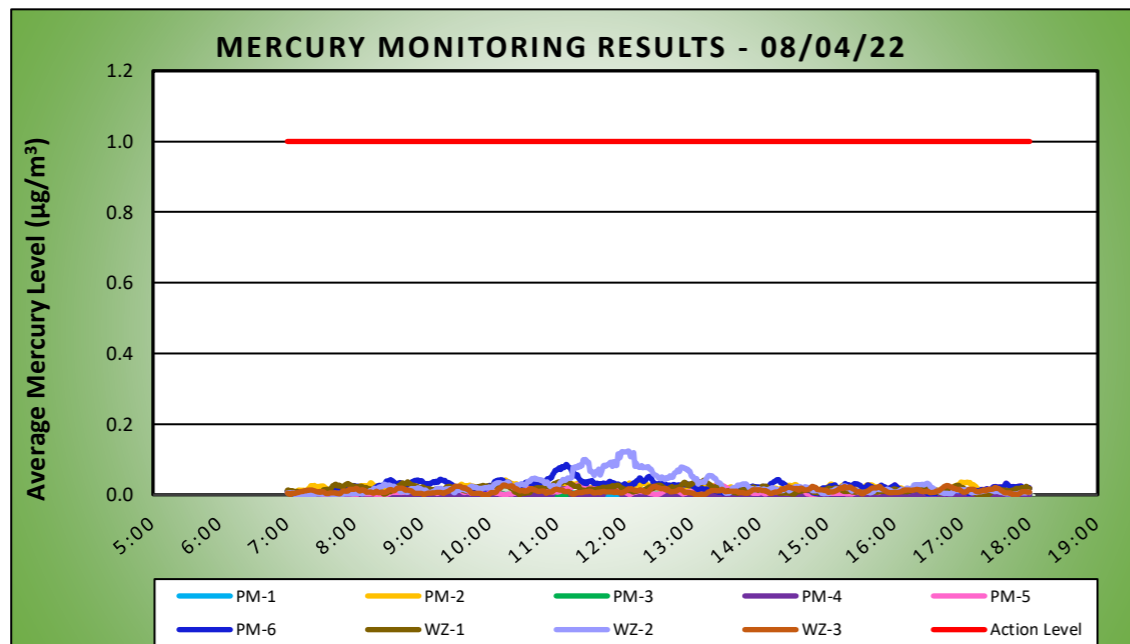
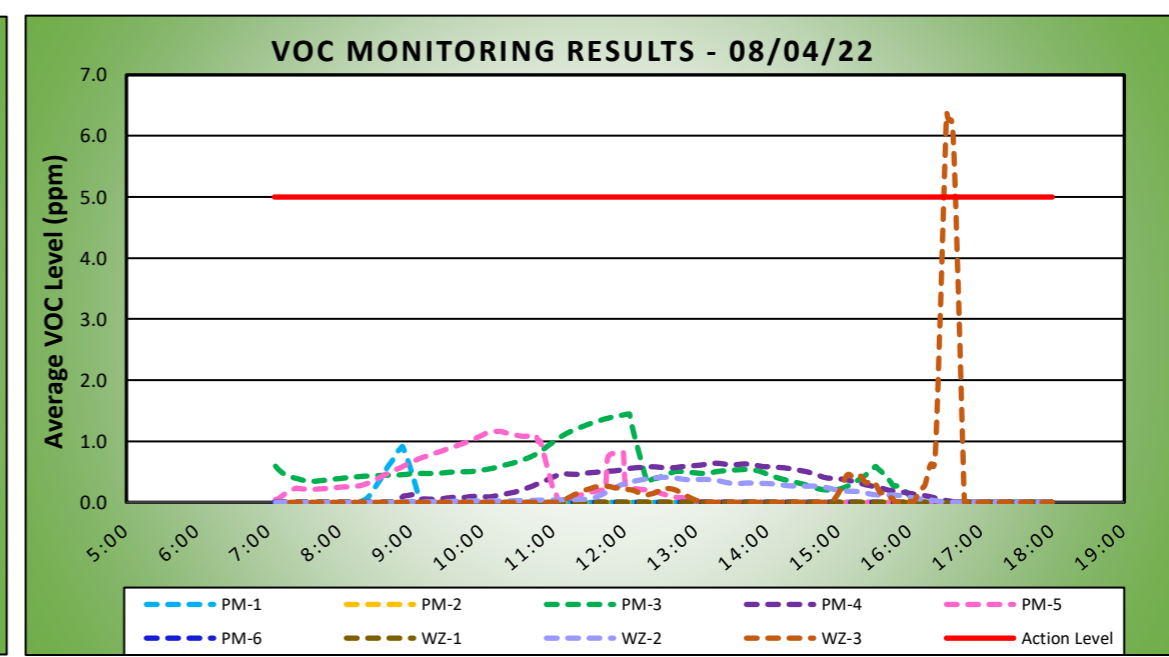
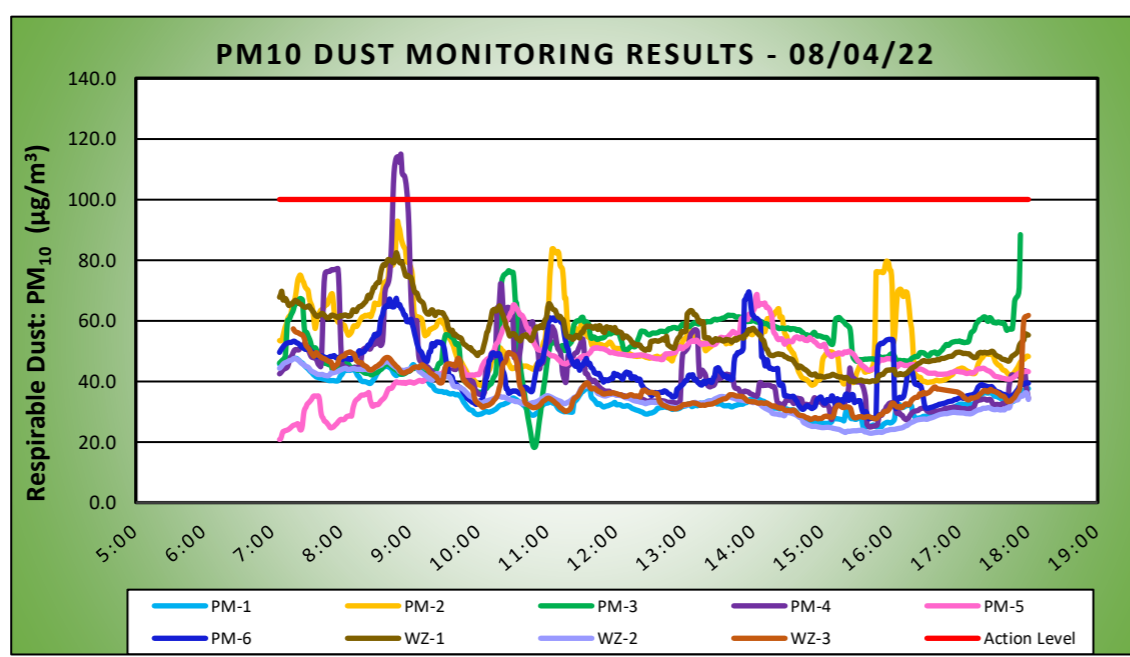


	<b>DAILY AIR MONITORING REPORT</b> <b>250 Water Street Remediation Site</b> <b>Manhattan, New York</b>			08/04/22	
				Project number: 170381202	
				Page 1 of 2	
				Submitted By:	
				Rev. No. 0	
			Dust Action Level ( $\mu\text{g}/\text{m}^3$ )		100
			VOC Action Level (ppm)		5
			Hg Action Level ( $\mu\text{g}/\text{m}^3$ )		1.0

Weather Data Range for Work Day		Wind Direction	N	Relative Humidity (%)	44.0 - 69.0	Daily Rain (in)	0.00	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp (°F)	78.0 - 94.0	Wind Speed (MPH)	0.0 - 8.1	Barometer (inHg)	30.00 - 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	34.1	47.8	7:17	0.0	0.9	8:53
PM-2	53.6	92.9	8:49	0.0	0.0	10:55
PM-3	52.7	88.4	17:53	0.4	1.4	12:04
PM-4	42.5	114.9	8:52	0.2	0.6	13:16
PM-5	45.1	68.6	14:03	0.2	1.2	10:12
PM-6	43.0	69.5	13:56	0.0	0.0	7:05
WZ-1	54.9	82.4	8:48	0.0	0.0	7:06
WZ-2	34.4	47.5	7:19	0.1	0.4	12:35
WZ-3	37.7	64.0	18:04	0.2	6.4	16:31

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	0.00	0.00	10:33
PM-2	0.02	0.04	10:14
PM-3	0.00	0.01	12:02
PM-4	0.00	0.02	10:57
PM-5	0.01	0.03	11:47
PM-6	0.02	0.09	11:08
WZ-1	0.02	0.04	13:03
WZ-2	0.03	0.12	12:03
WZ-3	0.01	0.03	10:12



**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 that approached or exceeded the action level established by the CAMP (1.00  $\mu\text{g}/\text{m}^3$ ).

**Background Concentrations**

Prior to implementation of ground-intrusive work each day, instantaneous background concentrations of mercury vapor and VOCs were recorded using a handheld Jerome® J505 mercury vapor analyzer and a handheld PID, respectively.

- Background concentrations of mercury vapor at each CAMP station ranged from 0.00 to 0.01  $\mu\text{g}/\text{m}^3$ .
- 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-4 exceeded the action level established in the CAMP (0.100  $\text{mg}/\text{m}^3$ ) from 8:45am to 8:57am (12 minutes). The exceedance was 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 associated with soil/fill at the site. The CAMP station was not able to be moved due to limited space along the eastern site boundary. Fugitive dust was not observed migrating from the site during this time.

\*\* VOC concentrations at off-site CAMP station WZ-3 exceeded the action level established in the CAMP (5.0 ppm) from 4:28pm to 4:38pm (10 minutes). The exceedance was caused by an idling motorcycle adjacent to work zone CAMP station WZ-3 along the southern boundary of the site and was not the result of ground-intrusive activities associated with soil/fill at the site. Work was temporarily paused while readings were collected with a hand-held PID unit. All perimeter CAMP stations remained at background concentrations, including PM-3, and the reading was determined to be not a cause of intrusive work. VOC readings fell below action levels and work resumed.

**Equipment Troubleshooting**

- PM10 concentrations at off-site CAMP station WZ-3 was not recorded during recalibration following a VOC exceedance due to an idling motorcycle from 4:41pm to 4:42pm (2 minutes).
- Work was halted while the DustTrak unit was recalibrated. Fugitive dust was not observed migrating from the site during this time. Additionally, corresponding perimeter CAMP station PM-3 (located along the southern border of the site) did not record concentrations of VOC 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 0.15  $\mu\text{g}/\text{m}^3$ .
- 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 6:04pm due to exposed soil/fill within 20 feet of the northern fence line.
- CAMP station WZ-2 was relocated to the eastern sidewalk of Peck Slip from 6:51am to 5:12pm during excavation activities in the eastern part of the site.
- CAMP station WZ-3 was relocated to the southern sidewalk of Water Street from 7:03am to 6:04pm during excavation of test pits 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 6:01pm and 6:50pm at the conclusion of ground-intrusive activities.



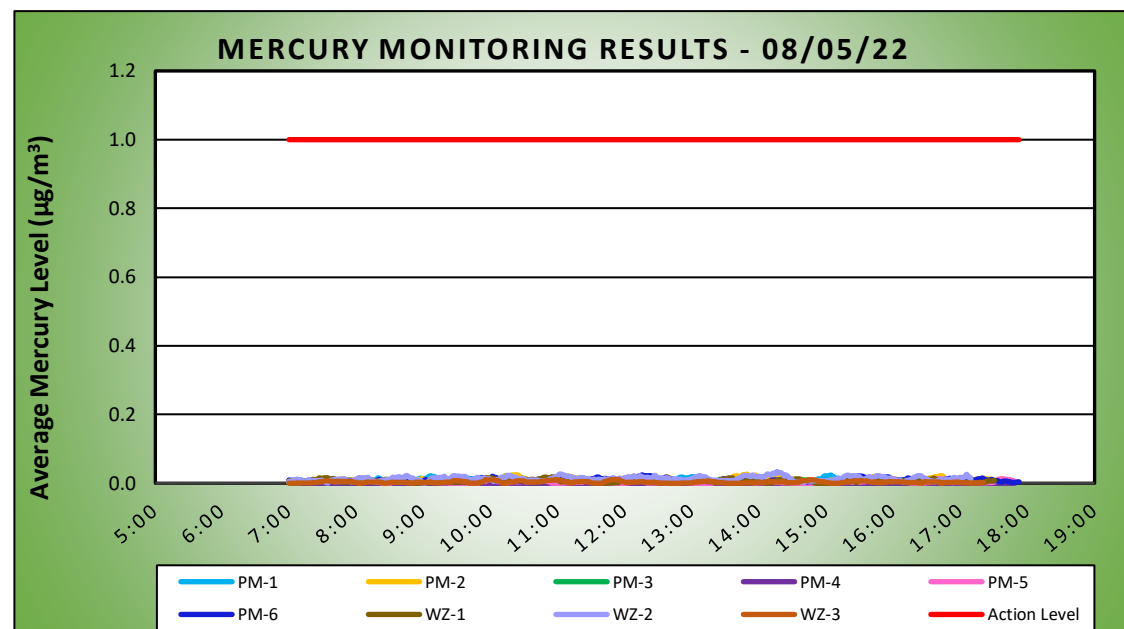
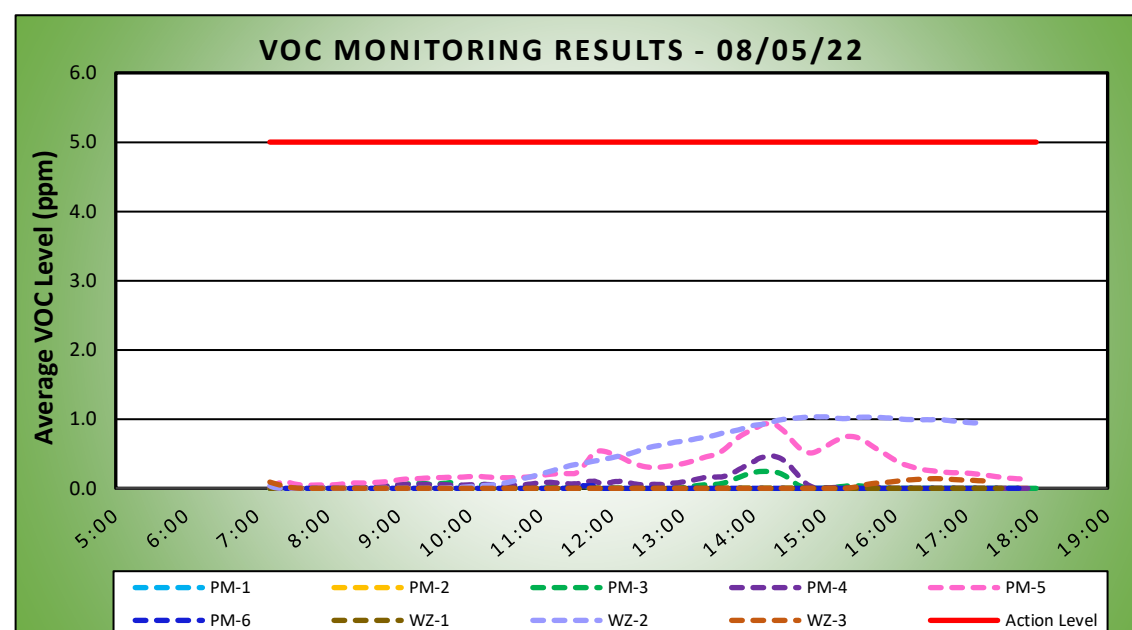
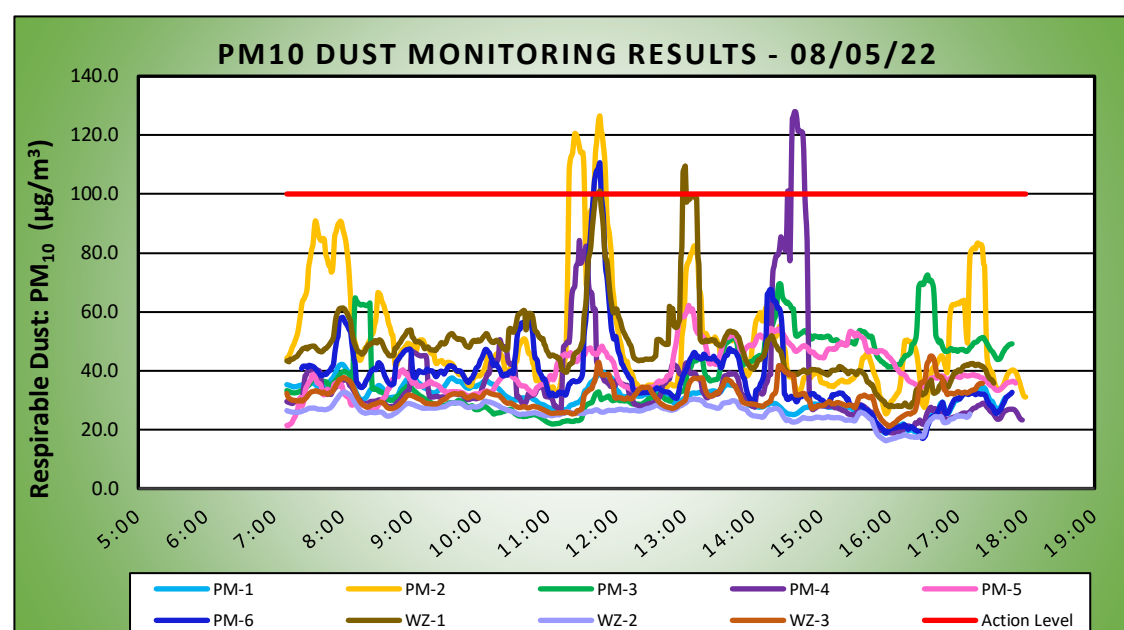


	<b>DAILY AIR MONITORING REPORT</b>		08/05/22	
	<b>250 Water Street Remediation Site</b>		Project number: 170381202	
	<b>Manhattan, New York</b>		Page 1 of 2	
			Submitted By: _____	
			Rev. No. 0	
		Dust Action Level ( $\mu\text{g}/\text{m}^3$ )		100
		VOC Action Level (ppm)		5
		Hg Action Level ( $\mu\text{g}/\text{m}^3$ )		1.0

Weather Data Range for Work Day		Wind Direction	N	Relative Humidity (%)	49.0 - 76.0	Daily Rain (in)	0.01	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp (°F)	79.0 - 89.0	Wind Speed (MPH)	0.0 - 6.9	Barometer (inHg)	30.10 - 30.20			

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		31.0	42.2	7:59	0.0	0.0	7:11
PM-2		50.5	126.4	11:46	0.0	0.0	7:11
PM-3		39.4	72.5	16:34	0.0	0.2	14:10
PM-4		36.0	128.0	14:37	0.1	0.5	14:17
PM-5		39.8	62.2	13:04	0.3	0.9	14:16
PM-6		38.4	110.5	11:46	0.0	0.0	11:36
WZ-1		48.0	109.4	13:01	0.0	0.0	7:11
WZ-2		25.8	32.7		0.5	1.0	15:01
WZ-3		31.1	45.0	16:37	0.0	0.1	16:35

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	0.02	15:04
PM-2		0.01	0.03	13:50
PM-3		0.00	0.01	14:40
PM-4		0.00	0.00	7:12
PM-5		0.00	0.01	15:58
PM-6		0.01	0.02	12:16
WZ-1		0.01	0.02	10:57
WZ-2		0.01	0.03	14:16
WZ-3		0.00	0.01	10:58



**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 VOCs, and mercury vapor that approached or exceeded the action level established by the CAMP (5.0 ppm, and 1.00  $\mu\text{g}/\text{m}^3$ , respectively).

**Background Concentrations**

Prior to implementation of ground-intrusive work each day, instantaneous background concentrations of mercury vapor and VOCs were recorded using a handheld Jerome® J505 mercury vapor analyzer and a handheld PID, respectively.

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

**Perimeter and Work Zone Concentrations**

- 1\* PM10 concentrations at perimeter CAMP station PM-2 exceeded the action level established in the CAMP (0.100 mg/m<sup>3</sup>) intermittently from 11:19am to 11:51am (25 minutes in total). The exceedances were caused by wood saw-cutting associated with fence construction activities in the southwestern part of the site in proximity to perimeter CAMP station PM-2 and were not result of ground-intrusive activities associated with soil/fill at the site. Perimeter CAMP station PM-2 was relocated about 10 feet to the east, and PM10 concentrations returned to background levels. Fugitive dust was not observed migrating from the site during these times.
- 2\* PM10 concentrations at perimeter CAMP station PM-4 exceeded the action level established in the CAMP (0.100 mg/m<sup>3</sup>) intermittently from 2:31pm to 2:45pm (13 minutes in total). 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 associated with soil/fill at the site. The CAMP station was not able to be moved due to limited space along the eastern site boundary. Fugitive dust was not observed migrating from the site during these times.
- 3\* PM10 concentrations at perimeter CAMP station PM-6 exceeded the action level established in the CAMP (0.100 mg/m<sup>3</sup>) from 11:41am to 11:47am (7 minutes). The exceedance was caused by grout-mixing activities for tieback installation, and were not the result of ground-intrusive activities associated with soil/fill at the site. Fugitive dust was not observed migrating from the site during these times. Additionally, PM10 concentrations at the closest off-site CAMP station (WZ-1) did not approach or exceed the action level established by the CAMP (0.100 mg/m<sup>3</sup>) during this time.
- 4\* PM10 concentrations at off-site CAMP station WZ-1 exceeded the action level established in the CAMP (0.100 mg/m<sup>3</sup>) from 12:59pm to 1:01pm (3 minutes). The exceedance was a result of off-site activities, and was not the result of ground-intrusive activities associated with soil/fill at the site. PM10 concentrations at the closest perimeter CAMP stations (PM-5 and PM-6) did not approach or exceed the action level established by the CAMP (0.100 mg/m<sup>3</sup>) 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 0.36  $\mu\text{g}/\text{m}^3$ .
- 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 5:31pm due to exposed soil/fill within 20 feet of the northern fence line.
- CAMP station WZ-2 was relocated to the southern sidewalk of Water Street from 6:56am to 5:10pm during excavation of test pits along the southern boundary of the site.
- CAMP station WZ-3 was relocated to the eastern sidewalk of Peck Slip from 6:56am to 5:21pm 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 5:10pm and 5:51pm 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 0.05  $\mu\text{g}/\text{m}^3$ .
- VOC concentrations at each CAMP station ranged from 0.0 ppm to 0.1 ppm.

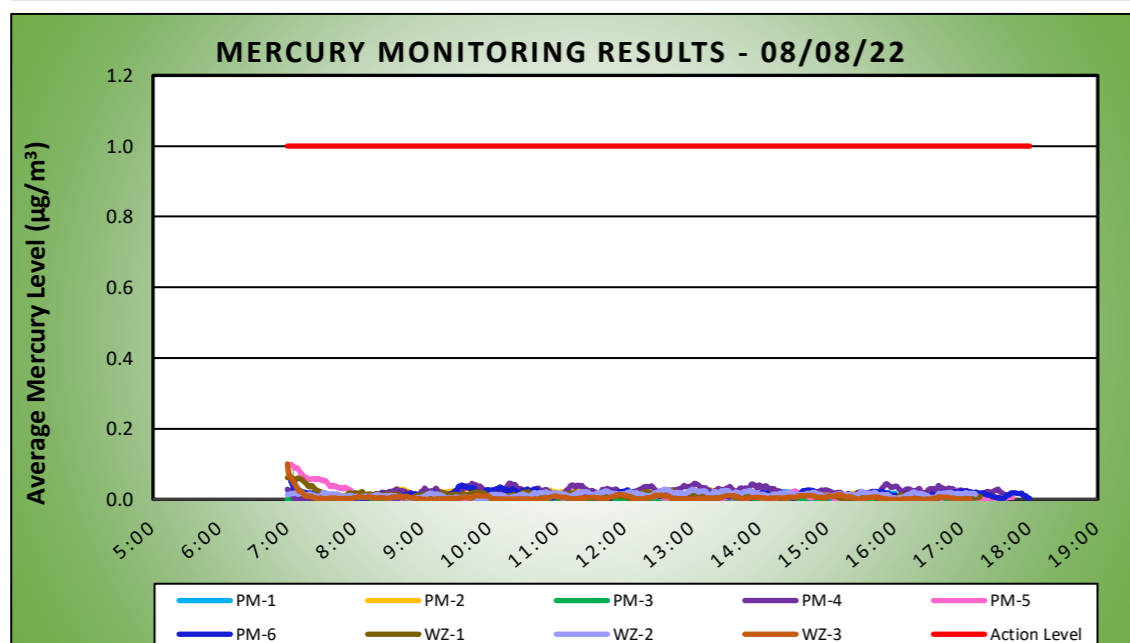
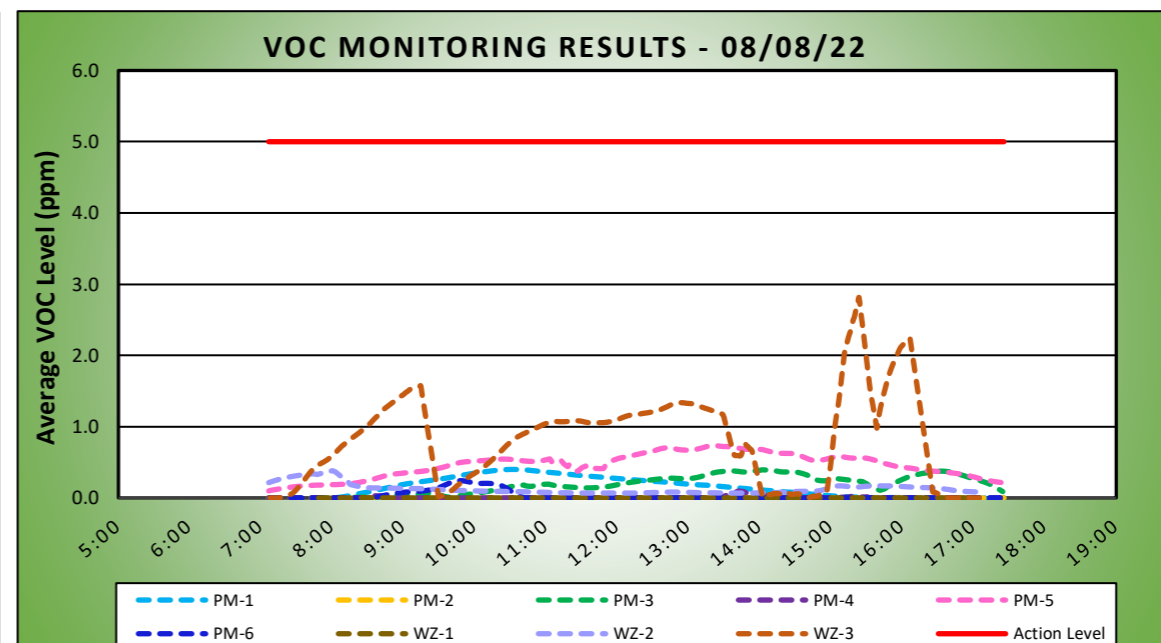
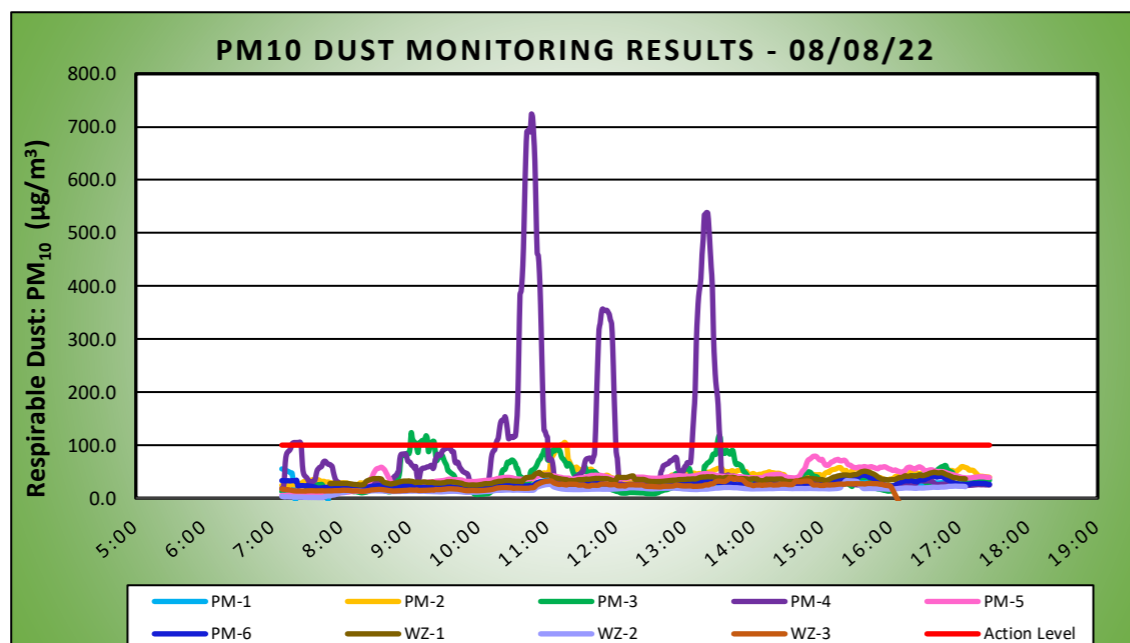


	<b>DAILY AIR MONITORING REPORT</b>		08/08/22	
	<b>250 Water Street Remediation Site</b>			
	<b>Manhattan, New York</b>			
			Project number: 170381202	
			Page 1 of 2	
		Submitted By:		Rev. No. 0
		Dust Action Level ( $\mu\text{g}/\text{m}^3$ )		100
		VOC Action Level (ppm)		5
		Hg Action Level ( $\mu\text{g}/\text{m}^3$ )		1.0

<b>Weather Data Range for Work Day</b>		<b>Wind Direction</b>	N	<b>Relative Humidity (%)</b>	83.0 - 84.0	<b>Daily Rain (in)</b>	0.00	Readings in the summary table and graphs below are the reported downwind concentrations.
<b>Temp (°F)</b>	80.0 - 80.0	<b>Wind Speed (MPH)</b>	5.8 - 8.1	<b>Barometer (inHg)</b>	30.10 - 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	18.7	55.1	7:08	0.2	0.4	10:32
PM-2	40.4	105.4	11:15	0.0	0.0	7:07
PM-3	37.6	123.3	9:01	0.2	0.4	14:03
PM-4	78.1	723.9	10:46	0.0	0.1	13:43
PM-5	38.9	79.2	14:54	0.5	0.7	13:21
PM-6	25.9	43.9	15:35	0.0	0.2	9:46
WZ-1	35.5	50.9	15:37	0.0	0.0	8:24
WZ-2	16.0	33.1	15:22	0.1	0.4	8:00
WZ-3	14.9	38.2	13:39	0.8	2.8	15:24

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	0.01	0.03	7:08
PM-2	0.01	0.03	9:41
PM-3	0.00	0.00	12:34
PM-4	0.02	0.05	9:44
PM-5	0.01	0.10	7:03
PM-6	0.01	0.05	7:03
WZ-1	0.01	0.06	7:02
WZ-2	0.01	0.03	12:36
WZ-3	0.01	0.10	7:00



**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 VOCs, and mercury vapor that approached or exceeded the action level established by the CAMP (5.0 ppm, and 1.00  $\mu\text{g}/\text{m}^3$ , respectively).

**Background Concentrations**

Prior to implementation of ground-intrusive work each day, instantaneous background concentrations of mercury vapor and VOCs were recorded using a handheld Jerome® J505 mercury vapor analyzer and a handheld PID, respectively.

- Background concentrations of mercury vapor at each CAMP station were recorded at 0.00  $\mu\text{g}/\text{m}^3$ .
- 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-3 exceeded the action level established in the CAMP (0.100 mg/m<sup>3</sup>) intermittently from 9:01am to 9:05am, 9:08am to 9:15am, and 9:18am to 9:21am (14 minutes in total). The exceedances were caused by wood saw-cutting associated with fence construction activities in the southeastern part of the site in proximity to perimeter CAMP station PM-3 and were not result of ground-intrusive activities associated with soil/fill at the site. Fugitive dust was not observed migrating from the site during these times. Additionally, PM10 concentrations at the closest off-site CAMP station (WZ-3) did not approach or exceed the action level established by the CAMP (0.100 mg/m<sup>3</sup>) during this time.

• \*\*PM10 concentrations at perimeter CAMP station PM-4 exceeded the action level established in the CAMP (0.100 mg/m<sup>3</sup>) intermittently from 10:15am to 11:00am, 11:42am to 11:59am, 1:07pm to 1:31pm, (86 minutes in total). 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 associated with soil/fill at the site. The CAMP station was not able to be moved due to limited space along the eastern site boundary. Fugitive dust was not observed migrating from the site during these times. Additionally, PM10 concentrations at the closest off-site CAMP station (WZ-2) did not approach or exceed the action level established by the CAMP (0.100 mg/m<sup>3</sup>) during this time.

• \*\*\*PM10 concentrations at perimeter CAMP station PM-2 exceeded the action level established in the CAMP (0.100 mg/m<sup>3</sup>) from 11:12am to 11:16am (4 minutes). The exceedance was caused by wood saw-cutting associated with fence construction activities in the southwestern part of the site in proximity to perimeter CAMP station PM-2 and were not result of ground-intrusive activities associated with soil/fill at the site. Fugitive dust was not observed migrating from the site during this time. Additionally, PM10 concentrations at the closest off-site CAMP station (WZ-3) did not approach or exceed the action level established by the CAMP (0.100 mg/m<sup>3</sup>) during this time.

**Equipment Troubleshooting**

- VOC concentrations at off-site CAMP station WZ-3 were not recorded during recalibration from 4:08pm to 4:10pm (2 minutes).

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 0.46  $\mu\text{g}/\text{m}^3$ .
- 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 7:35am to 5:05pm due to exposed soil/fill within 20 feet of the northern fence line.
- CAMP station WZ-2 was relocated to the eastern sidewalk of Peck Slip from 6:53am to 5:05pm during excavation activities in the eastern part of the site.
- CAMP station WZ-3 was relocated to the southern sidewalk of Water Street from 6:53am to 5:05pm during soldier pile advancement 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 4:00pm and 5:10pm 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 were recorded at 0.0 ppm.



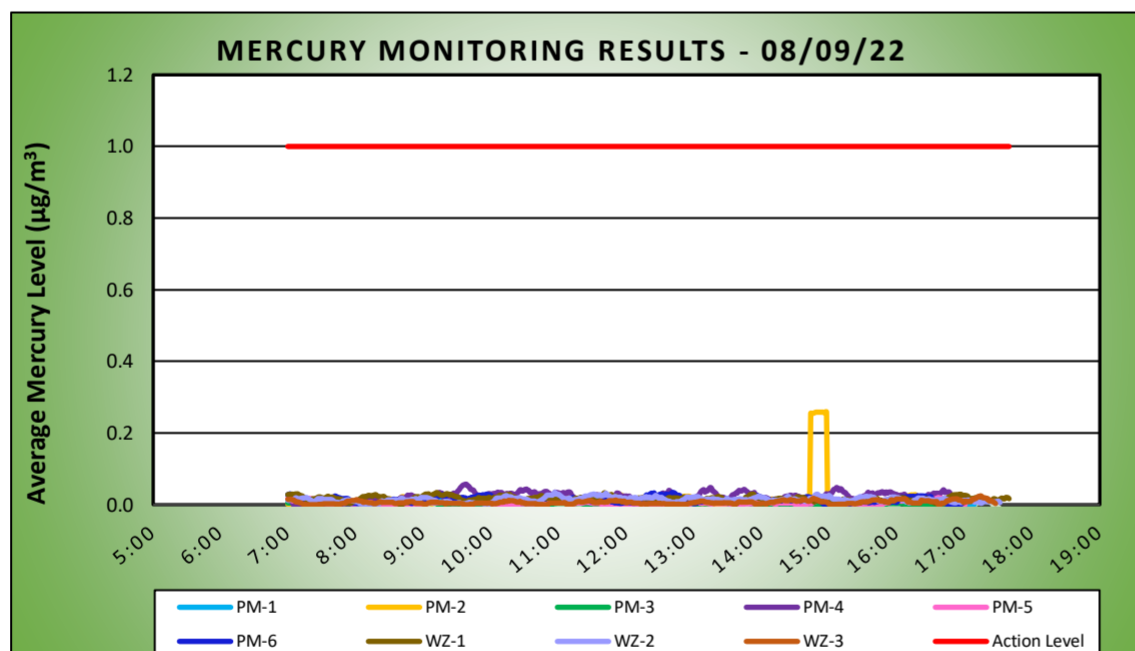
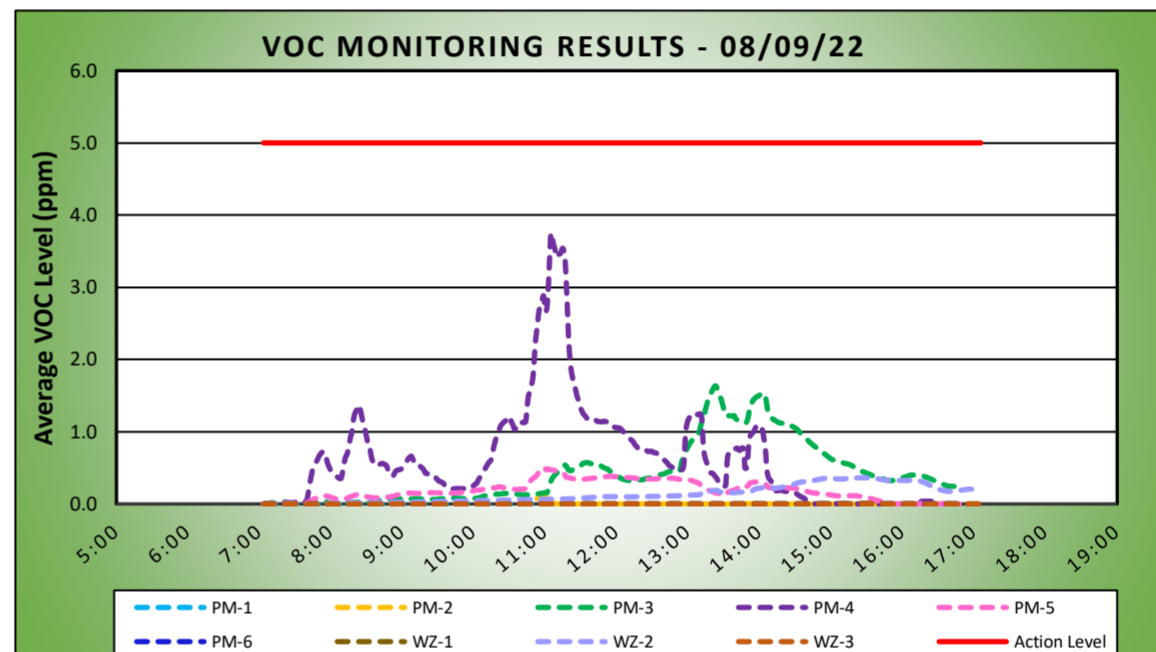
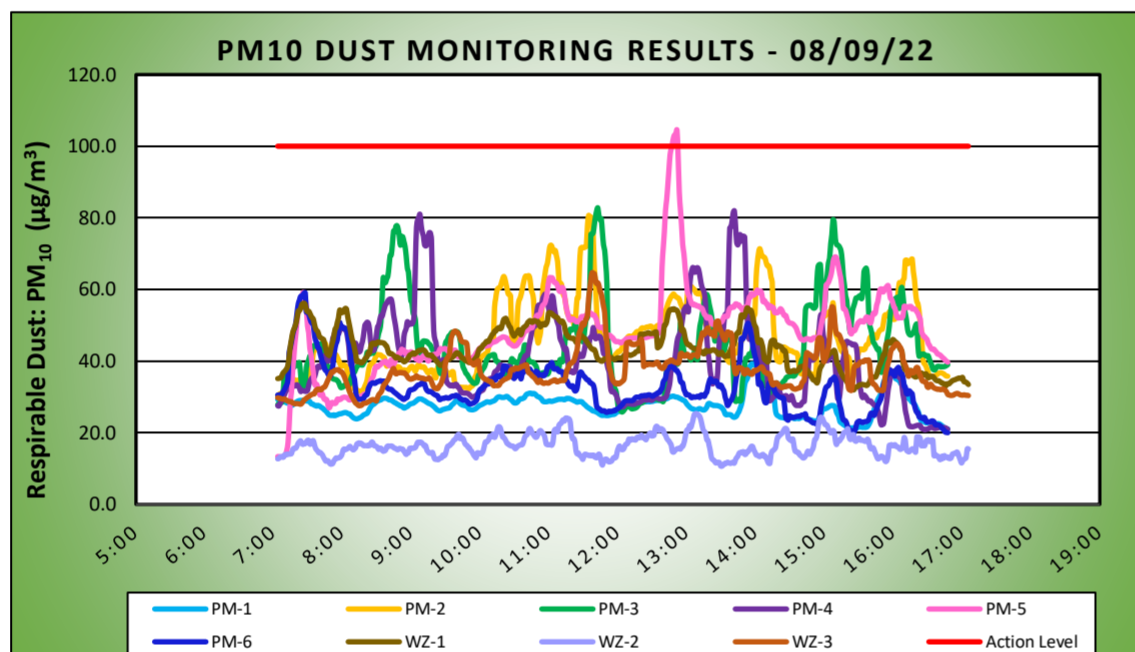


	<b>DAILY AIR MONITORING REPORT</b>				08/09/22	
	<b>250 Water Street Remediation Site</b>				Project number: 170381202	
	<b>Manhattan, New York</b>				Page 1 of 2	
					Submitted By: _____	
					Rev. No. 0	
					Dust Action Level ( $\mu\text{g}/\text{m}^3$ ) <b>100</b>	
				VOC Action Level (ppm) <b>5</b>		
				Hg Action Level ( $\mu\text{g}/\text{m}^3$ ) <b>1.0</b>		

Weather Data Range for Work Day		Wind Direction	WSW	Relative Humidity (%)	42.0 - 83.0	Daily Rain (in)	0.00	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp (°F)	81.0 - 97.0	Wind Speed (MPH)	3.5 - 11.9	Barometer (inHg)	29.90 - 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	27.6	43.6	14:03	0.0	0.0	9:53
PM-2	46.5	80.7	11:35	0.0	0.1	10:58
PM-3	44.1	82.8	11:43	0.4	1.6	13:23
PM-4	40.1	81.9	13:42	0.6	3.7	11:06
PM-5	47.9	104.5	12:52	0.2	0.5	11:00
PM-6	32.6	59.1	7:28	0.0	0.0	10:46
WZ-1	43.0	56.2	7:27	0.0	0.0	15:22
WZ-2	16.3	25.4	13:09	0.1	0.4	15:27
WZ-3	37.7	64.7	11:38	0.0	0.0	7:04

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	7:00
PM-2	0.02	0.26	14:57
PM-3	0.00	0.01	13:18
PM-4	0.02	0.06	9:38
PM-5	0.00	0.02	16:37
PM-6	0.01	0.03	12:41
WZ-1	0.02	0.03	9:12
WZ-2	0.01	0.03	10:57
WZ-3	0.01	0.02	17:15



**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 VOCs, and mercury vapor that approached or exceeded the action level established by the CAMP (5.0 ppm, and 1.00  $\mu\text{g}/\text{m}^3$ , respectively).

**Background Concentrations**

Prior to implementation of ground-intrusive work each day, instantaneous background concentrations of mercury vapor and VOCs were recorded using a handheld Jerome® J505 mercury vapor analyzer and a handheld PID, respectively.

- Background concentrations of mercury vapor at each CAMP station ranged from 0.00  $\mu\text{g}/\text{m}^3$  to 0.06  $\mu\text{g}/\text{m}^3$
- 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  $\text{mg}/\text{m}^3$ ) from 12:48pm to 12:52pm (4 minutes). The exceedances were caused by welding activities adjacent to perimeter CAMP station PM-5 along the northeastern boundary of the site and were not the result of ground-intrusive activities associated with soil/fill at the site. Fugitive dust was not observed migrating from the site during these times. Additionally, PM10 concentrations at the closest off-site CAMP station (WZ-1) did not approach or exceed the action level established by the CAMP (0.100  $\text{mg}/\text{m}^3$ ) 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 0.27  $\mu\text{g}/\text{m}^3$ .
- 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 6:49am to 5:06pm due to exposed soil/fill within 20 feet of the northern fence line.
- CAMP station WZ-2 was relocated to the eastern sidewalk of Peck Slip from 6:49am to 5:06pm during excavation activities in the eastern part of the site.
- CAMP station WZ-3 was relocated to the southern sidewalk of Water Street from 6:49am to 5:06pm during soldier pile advancement 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 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 shut down at 4:46pm 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 0.06  $\mu\text{g}/\text{m}^3$ .

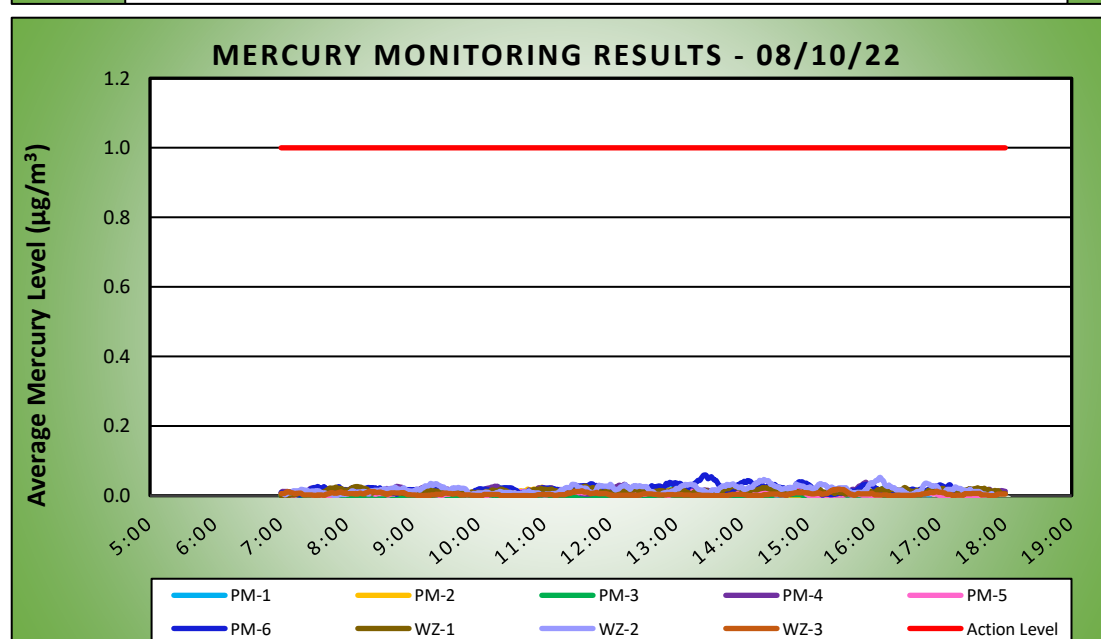
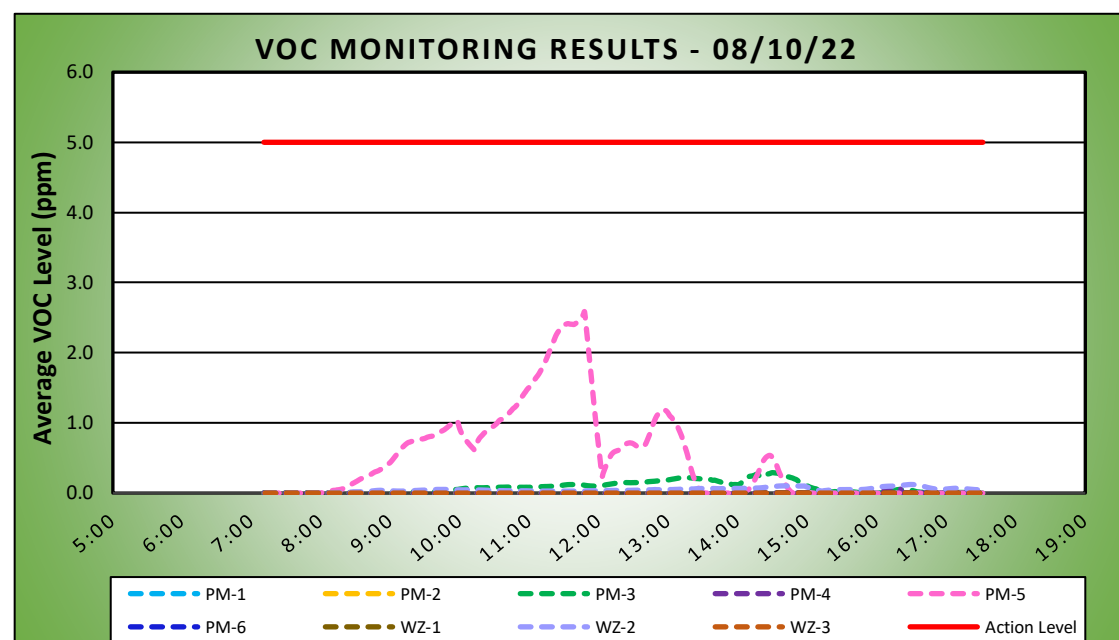
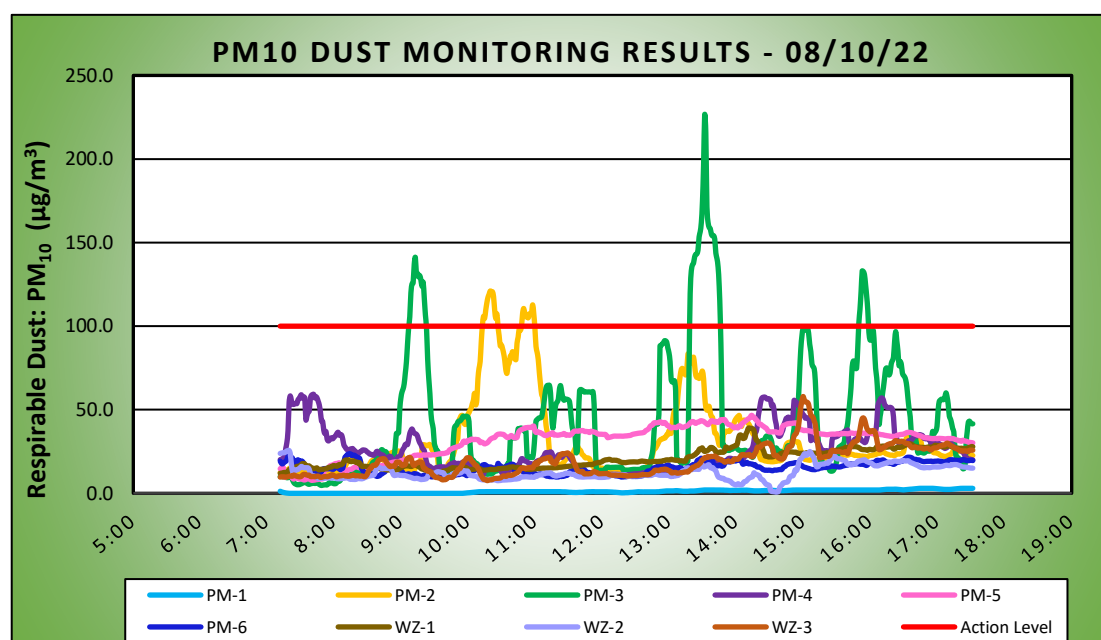


	<b>DAILY AIR MONITORING REPORT</b> <b>250 Water Street Remediation Site</b> <b>Manhattan, New York</b>				08/10/22	
					Project number: 170381202	
					Page 1 of 2	
					Submitted By:	
					Dust Action Level ( $\mu\text{g}/\text{m}^3$ )	
					VOC Action Level (ppm)	
		100				
		5				
		1.0				

Weather Data Range for Work Day		Wind Direction	N	Relative Humidity (%)	47.0 - 67.0	Daily Rain (in)	0.00	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp (°F)	76.0 - 87.0	Wind Speed (MPH)	0.0 - 6.9	Barometer (inHg)	30.00 - 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	1.2	3.0	16:45	0.0	0.0	7:11
PM-2	32.0	121.0	10:20	0.0	0.0	7:11
PM-3	42.4	226.5	13:32	0.1	0.3	14:30
PM-4	26.1	59.2	7:42	0.0	0.1	16:07
PM-5	31.3	46.7	14:14	0.5	2.6	11:48
PM-6	15.4	23.7	8:14	0.0	0.0	7:12
WZ-1	20.6	39.1	14:12	0.0	0.0	7:12
WZ-2	12.6	25.6	7:20	0.0	0.1	16:30
WZ-3	19.3	57.9	15:00	0.0	0.0	7:12

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	10:18
PM-2	0.01	0.02	10:58
PM-3	0.00	0.01	10:32
PM-4	0.01	0.04	15:53
PM-5	0.01	0.02	14:03
PM-6	0.02	0.06	13:26
WZ-1	0.01	0.03	11:37
WZ-2	0.02	0.05	16:06
WZ-3	0.00	0.02	15:27



**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 VOCs, and mercury vapor that approached or exceeded the action level established by the CAMP (5.0 ppm, and 1.00  $\mu\text{g}/\text{m}^3$ , respectively).

**Background Concentrations**  
 Prior to implementation of ground-intrusive work each day, instantaneous background concentrations of mercury vapor and VOCs were recorded using a handheld Jerome® J505 mercury vapor analyzer and a handheld PID, respectively.

- Background concentrations of mercury vapor at each CAMP station ranged from 0.00  $\mu\text{g}/\text{m}^3$  to 0.07  $\mu\text{g}/\text{m}^3$
- 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-3 exceeded the action level established in the CAMP (0.100 mg/m<sup>3</sup>) from 9:08am to 9:22am, 13:19pm to 13:46pm, and 15:50pm to 15:59pm (50 minutes in total). The exceedances were caused by wood cutting for timber lagging adjacent to perimeter CAMP station PM-3 along the southeastern boundary of the site and were not the result of ground-intrusive activities associated with soil/fill at the site. The station was relocated 15 feet east and PM10 concentrations fell below action levels. Fugitive dust was not observed migrating from the site during these times. Additionally, PM10 concentrations at the closest off-site CAMP station (WZ-3) did not approach or exceed the action level established by the CAMP (0.100 mg/m<sup>3</sup>) during this time.
- \*\*PM10 concentrations at perimeter CAMP station PM-2 exceeded the action level established in the CAMP (0.100 mg/m<sup>3</sup>) from 10:13am to 10:26am, and 10:48am to 10:59am (24 minutes in total). The exceedances were caused by welding activities adjacent to perimeter CAMP station PM-2 along the southern boundary of the site and were not the result of ground-intrusive activities associated with soil/fill at the site. Fugitive dust was not observed migrating from the site during these times. Additionally, PM10 concentrations at the closest off-site CAMP station (WZ-3) did not approach or exceed the action level established by the CAMP (0.100 mg/m<sup>3</sup>) 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 0.83  $\mu\text{g}/\text{m}^3$ .
- 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 6:48am to 5:32pm due to exposed soil/fill within 20 feet of the northern fence line.
- CAMP station WZ-2 was relocated to the eastern sidewalk of Peck Slip from 6:48am to 5:32pm during excavation activities in the eastern part of the site.
- CAMP station WZ-3 was relocated to the southern sidewalk of Water Street from 6:48am to 5:32pm during soldier pile advancement 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 5:20pm 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 ppm to 0.2 ppm.







## DAILY AIR MONITORING REPORT

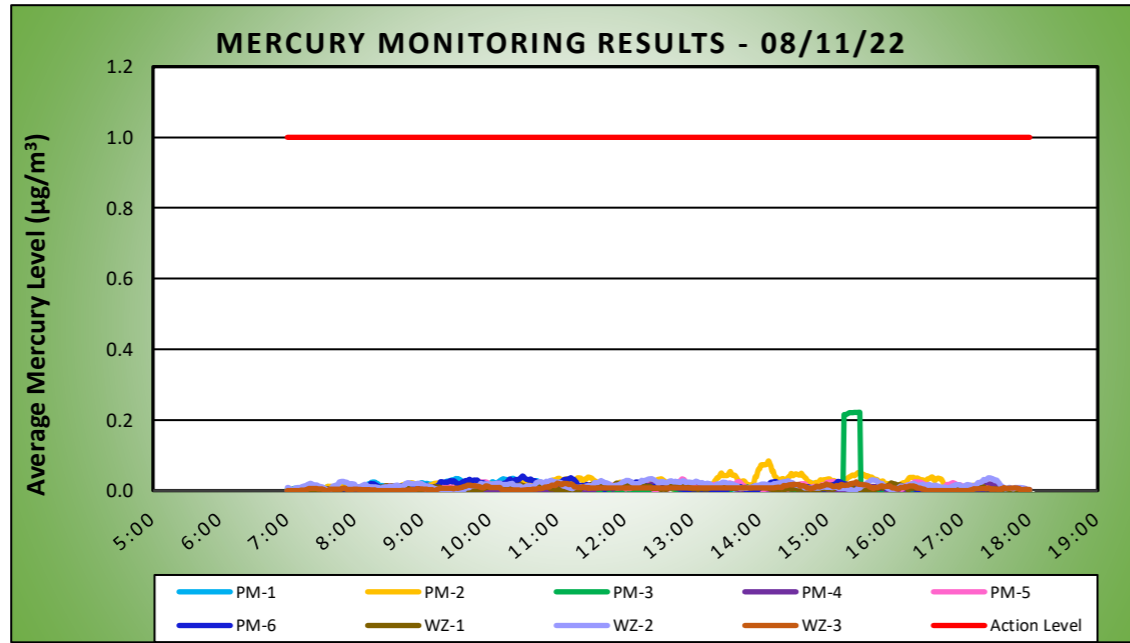
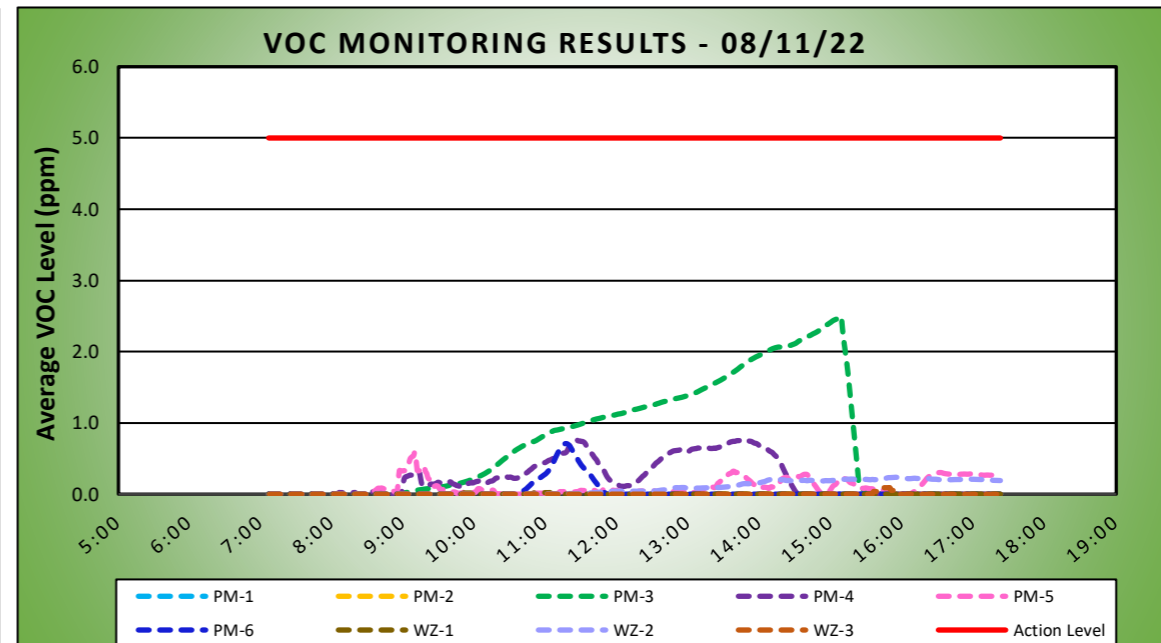
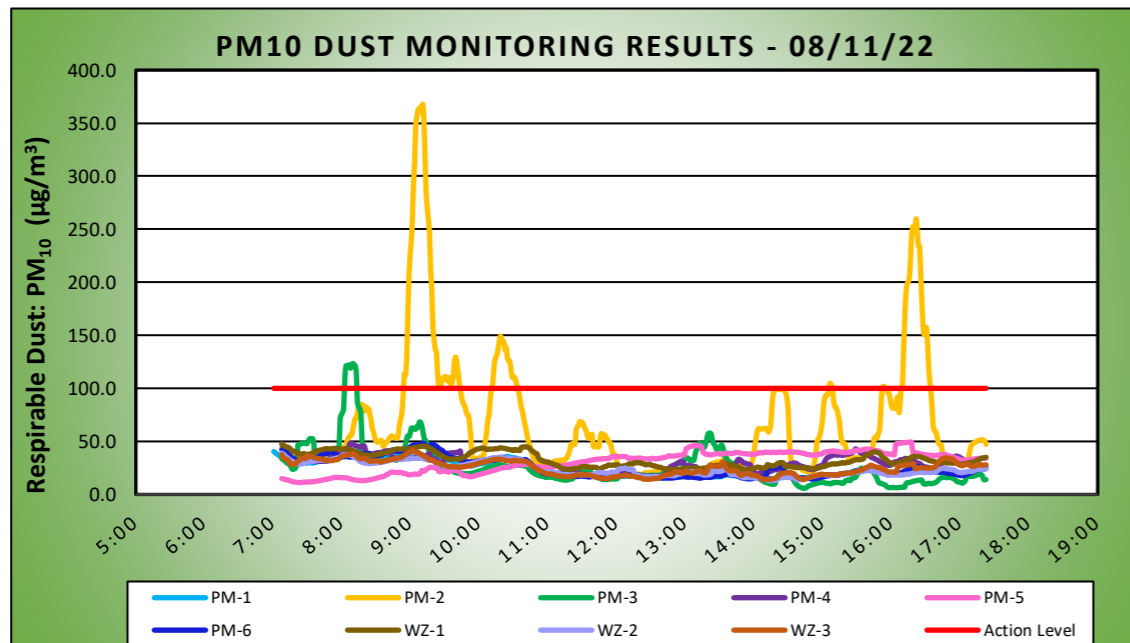
### 250 Water Street Remediation Site Manhattan, New York

08/11/22	
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	N	Relative Humidity (%)	43.0 - 94.0	Daily Rain (in)	0.12	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp (°F)	73.0 - 88.0	Wind Speed (MPH)	0.0 - 3.5	Barometer (inHg)	29.80 - 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	24.7	47.2	9:12	0.0	0.0	7:07
PM-2	65.7	367.9	9:11	0.0	0.0	15:41
PM-3	26.0	123.4	8:10	0.7	2.5	15:09
PM-4	29.6	48.3	8:08	0.2	0.8	13:46
PM-5	30.3	49.3	16:16	0.1	0.6	9:10
PM-6	25.5	48.3	9:11	0.0	0.7	11:17
WZ-1	33.1	47.4	7:08	0.0	0.0	10:51
WZ-2	24.1	38.9	7:08	0.1	0.2	15:57
WZ-3	25.4	41.4	9:02	0.0	0.1	15:41

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	10:20
PM-2	0.02	0.08	14:08
PM-3	0.01	0.22	15:24
PM-4	0.00	0.02	17:24
PM-5	0.01	0.03	12:51
PM-6	0.01	0.04	10:29
WZ-1	0.01	0.02	15:57
WZ-2	0.02	0.04	17:23
WZ-3	0.01	0.02	15:26



**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 VOCs, and mercury vapor that approached or exceeded the action level established by the CAMP (5.0 ppm, and 1.00  $\mu\text{g}/\text{m}^3$ , respectively).

**Background Concentrations**  
Prior to implementation of ground-intrusive work each day, instantaneous background concentrations of mercury vapor and VOCs were recorded using a handheld Jerome® J505 mercury vapor analyzer and a handheld PID, respectively.  
Background concentrations of mercury vapor at each CAMP station ranged from 0.00  $\mu\text{g}/\text{m}^3$  to 0.09  $\mu\text{g}/\text{m}^3$   
Background concentrations of VOCs at each CAMP station were recorded at 0.0 ppm.

\*PM10 concentrations at perimeter CAMP station PM-3 exceeded the action level established in the CAMP (0.100  $\text{mg}/\text{m}^3$ ) from 8:03am to 8:13am (10 minutes). The exceedance was caused by welding activities upwind of perimeter CAMP station PM-3 along the southern boundary of the site and was not the result of ground-intrusive activities associated with soil/fill at the site. Fugitive dust was not observed migrating from the site during these times. Additionally, PM10 concentrations at the closest off-site CAMP station (WZ-3) did not approach or exceed the action level established by the CAMP (0.100  $\text{mg}/\text{m}^3$ ) during this time.

\*\*PM10 concentrations at perimeter CAMP station PM-2 exceeded the action level established in the CAMP (0.100  $\text{mg}/\text{m}^3$ ) from 8:55am to 9:43am, 10:12am to 10:34am, 15:06pm to 15:08pm, 15:53pm to 15:55pm, and 16:09pm to 16:34pm (99 minutes in total). The exceedances were caused by welding activities upwind of perimeter CAMP station PM-2 along the southern boundary of the site and were not the result of ground-intrusive activities associated with soil/fill at the site. Fugitive dust was not observed migrating from the site during these times. Additionally, PM10 concentrations at the closest off-site CAMP station (WZ-3) did not approach or exceed the action level established by the CAMP (0.100  $\text{mg}/\text{m}^3$ ) during this time.

**Equipment Troubleshooting**  
Mercury vapor concentrations at off-site CAMP station WZ-3 were not recorded following a battery outage from 11:29pm to 13:56pm (147 minutes in total).  
Work was halted and Atmos® AC-645 dust/vapor suppressing foam was sprayed on exposed soil while the battery was charged and replaced. Mercury vapor concentrations at the corresponding perimeter CAMP station PM-4 did not approach or exceed the action level (1.00  $\mu\text{g}/\text{m}^3$ ) 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 0.5  $\mu\text{g}/\text{m}^3$ .  
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 6:53am to 5:23pm due to exposed soil/fill within 20 feet of the northern fence line.  
CAMP station WZ-2 was relocated to the eastern sidewalk of Peck Slip from 6:53am to 5:23pm due to exposed soil/fill within 20 feet of the eastern fence line.  
CAMP station WZ-3 was relocated to the southern sidewalk of Water Street from 6:58am to 5:23pm during excavation activities 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 5:22pm and 5:23pm at the conclusion of ground-intrusive activities.  
Mercury vapor concentrations at each CAMP station ranged from 0.0  $\mu\text{g}/\text{m}^3$  to 0.05  $\mu\text{g}/\text{m}^3$ .







# DAILY AIR MONITORING REPORT

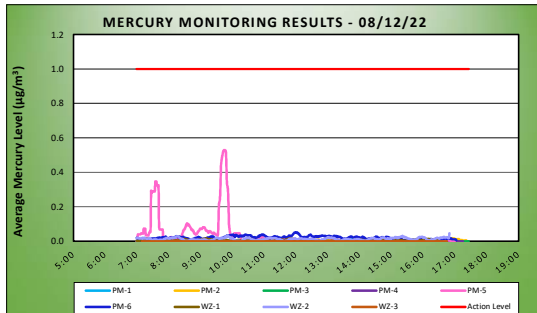
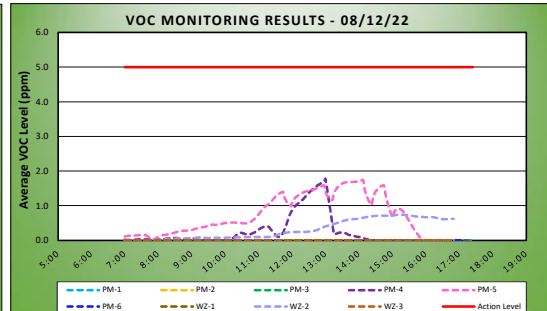
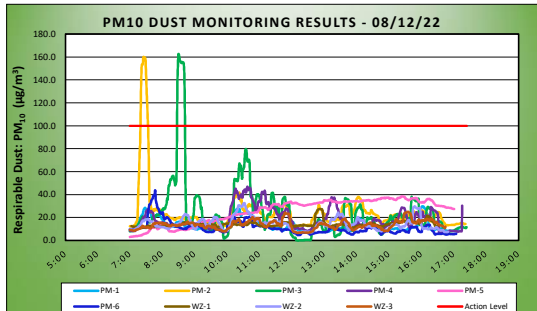
## 250 Water Street Remediation Site Manhattan, New York

08/12/22	
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	NE	Relative Humidity (%)	28.0 - 62.0	Daily Rain (in)	0.00	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp (°F)	72.0 - 85.0	Wind Speed (MPH)	3.5 - 9.2	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	13.4	29.8	16:02	0.0	0.0	7:00
PM-2	24.5	160.0	7:26	0.0	0.0	11:12
PM-3	23.8	162.7	8:30	0.0	0.0	7:00
PM-4	19.0	46.9	10:38	0.2	1.8	13:00
PM-5	25.4	38.6	15:24	0.7	1.7	14:07
PM-6	11.0	43.8	7:47	0.0	0.0	7:00
WZ-1	14.2	27.5	12:52	0.0	0.0	7:02
WZ-2	14.7	32.7	10:32	0.3	0.7	15:15
WZ-3	13.7	25.0	15:35	0.0	0.0	7:00

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	9:21
PM-2	0.01	0.02	14:08
PM-3	0.00	0.01	10:13
PM-4	0.00	0.00	11:41
PM-5	0.04	0.53	9:46
PM-6	0.02	0.05	11:59
WZ-1	0.01	0.02	9:11
WZ-2	0.01	0.05	16:50
WZ-3	0.00	0.00	7:10



**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 VOCs, and mercury vapor that approached or exceeded the action level established by the CAMP (5.0 ppm, and 1.00  $\mu\text{g}/\text{m}^3$ , respectively).

**Background Concentrations**  
Prior to implementation of ground-intrusive work each day, instantaneous background concentrations of mercury vapor and VOCs were recorded using a handheld Jerome® J505 mercury vapor analyzer and a handheld PID, respectively.  
Background concentrations of mercury vapor at each CAMP station ranged from 0.00  $\mu\text{g}/\text{m}^3$  to 0.06  $\mu\text{g}/\text{m}^3$   
Background concentrations of VOCs at each CAMP station were recorded at 0.0 ppm.

\*PM10 concentrations at perimeter CAMP station PM-2 exceeded the action level established in the CAMP (0.100 mg/m<sup>3</sup>) from 7:20am to 7:33am (14 minutes). The exceedance was caused by welding activities upwind of perimeter CAMP station PM-2 along the southern boundary of the site and were not the result of ground-intrusive activities associated with soil/fill at the site. Fugitive dust was not observed migrating from the site during this time. Additionally, PM10 concentrations at the closest off-site CAMP station (WZ-3) did not approach or exceed the action level established by the CAMP (0.100 mg/m<sup>3</sup>) during this time.

\*\*PM10 concentrations at perimeter CAMP station PM-3 exceeded the action level established in the CAMP (0.100 mg/m<sup>3</sup>) from 8:28am to 8:42am (15 minutes). The exceedance was caused by welding activities upwind of perimeter CAMP station PM-3 along the southern boundary of the site and was not the result of ground-intrusive activities associated with soil/fill at the site. PM10 concentrations returned to background levels after relocation of perimeter CAMP station PM-3 about 20 feet to the east. Fugitive dust was not observed migrating from the site during these times. Additionally, PM10 concentrations at the closest off-site CAMP station (WZ-3) did not approach or exceed the action level established by the CAMP (0.100 mg/m<sup>3</sup>) during this time.

**Equipment Troubleshooting**  
The filter of Jerome J505 mercury vapor analyzer at perimeter CAMP station PM-5 was replaced after notification of instantaneous concentrations above background levels at 7:27am and from 9:34am to 9:39am (6 minutes in total).  
An instantaneous mercury vapor concentration of 3.57  $\mu\text{g}/\text{m}^3$  was recorded at perimeter CAMP station PM-5 at 7:27am, which resulted in fifteen-minute weighted average concentrations of mercury vapor ranging from 0.30  $\mu\text{g}/\text{m}^3$  to 0.35  $\mu\text{g}/\text{m}^3$ . Additionally, instantaneous mercury vapor concentrations ranging from 1.04  $\mu\text{g}/\text{m}^3$  to 1.73  $\mu\text{g}/\text{m}^3$  were recorded at perimeter CAMP station PM-5 intermittently from 9:34am to 9:39am (4 minutes), which resulted in fifteen-minute weighted average concentrations of mercury vapor ranging from 0.10  $\mu\text{g}/\text{m}^3$  to 0.53  $\mu\text{g}/\text{m}^3$  (below the action level established in the CAMP [1.00  $\mu\text{g}/\text{m}^3$ ]). Instantaneous mercury vapor concentrations recorded at the handheld Jerome J505 mercury analyzer, located at perimeter CAMP station PM-5 during these times, ranged from 0.00  $\mu\text{g}/\text{m}^3$  to 0.15  $\mu\text{g}/\text{m}^3$ , and from 0.00  $\mu\text{g}/\text{m}^3$  to 0.08  $\mu\text{g}/\text{m}^3$ , respectively.

**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 0.23  $\mu\text{g}/\text{m}^3$ .  
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 6:48am to 4:29pm due to exposed soil/fill within 20 feet of the northern fence line.  
CAMP station WZ-2 was relocated to the eastern sidewalk of Peck Slip from 6:37am to 4:50pm due to exposed soil/fill within 20 feet of the eastern fence line.  
CAMP station WZ-3 was relocated to the southern sidewalk of Water Street from 6:55am to 4:45pm during excavation activities 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 4:29pm and 5:24pm at the conclusion of ground-intrusive activities.  
Mercury vapor concentrations at each CAMP station ranged from 0.0  $\mu\text{g}/\text{m}^3$  to 0.06  $\mu\text{g}/\text{m}^3$ .  
VOC concentrations at each CAMP station were recorded at 0.0 ppm.



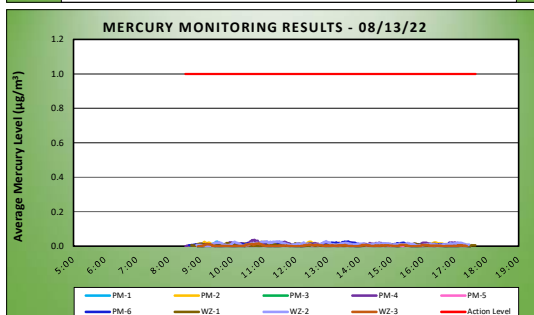
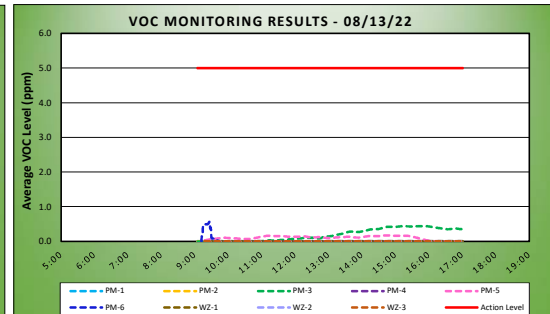
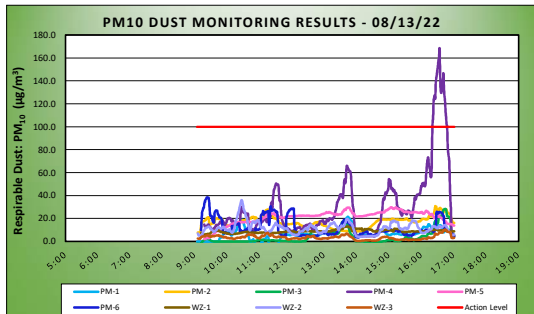


	<b>DAILY AIR MONITORING REPORT</b>		08/13/22		
	<b>250 Water Street Remediation Site</b>				Project number: 170381202
	<b>Manhattan, New York</b>				Page 1 of 2
	Submitted By:				Rev. No. 0
	Dust Action Level ( $\mu\text{g}/\text{m}^3$ )			100	
VOC Action Level (ppm)			5		
Hg Action Level ( $\mu\text{g}/\text{m}^3$ )			1.0		

Weather Data Range for Work Day		Wind Direction	N	Relative Humidity (%)	33.0 - 57.0	Daily Rain (in)	0.00	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp (°F)	68.0 - 80.0	Wind Speed (MPH)	0.0 - 10.4	Barometer (inHg)	30.10 - 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	6.4	21.6	13:44	0.0	0.0	9:05
PM-2	17.6	30.8	16:26	0.0	0.0	9:05
PM-3	4.1	28.4	16:44	0.2	0.4	15:14
PM-4	29.9	168.4	16:34	0.0	0.0	9:23
PM-5	20.7	29.9	15:04	0.1	0.2	14:44
PM-6	11.9	38.6	9:23	0.0	0.6	9:26
WZ-1	9.3	13.1	13:37	0.0	0.0	9:22
WZ-2	11.6	36.2	10:27	0.0	0.0	9:19
WZ-3	3.6	10.3	16:44	0.0	0.0	9:18

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	9:31
PM-2	0.01	0.03	12:27
PM-3	0.00	0.00	10:07
PM-4	0.01	0.04	10:42
PM-5	0.00	0.01	14:46
PM-6	0.01	0.03	13:39
WZ-1	0.01	0.02	9:50
WZ-2	0.01	0.03	12:57
WZ-3	0.00	0.02	10:49



**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 VOCs, and mercury vapor that approached or exceeded the action level established by the CAMP (5.0 ppm, and 1.00  $\mu\text{g}/\text{m}^3$ , respectively).

**Background Concentrations**

Prior to implementation of ground-intrusive work each day, instantaneous background concentrations of mercury vapor and VOCs were recorded using a handheld Jerome® J505 mercury vapor analyzer and a handheld PID, respectively.

Background concentrations of mercury vapor at each CAMP station ranged from 0.00  $\mu\text{g}/\text{m}^3$  to 0.02  $\mu\text{g}/\text{m}^3$   
 Background concentrations of VOCs at each CAMP station ranged from 0.0 ppm to 0.1 ppm.

**Perimeter and Work Zone Concentrations**

PM10 concentrations at perimeter CAMP station PM-4 exceeded the action level established in the CAMP (0.100  $\text{mg}/\text{m}^3$ ) from 4:21pm to 4:47pm (27 minutes). The exceedance was caused by welding activities at the southeastern corner of the site, adjacent to perimeter CAMP station PM-4 along the eastern site boundary, and were not the result of ground-intrusive activities associated with soil/fill at the site. Fugitive dust was not observed migrating from the site during this time. Additionally, PM10 concentrations at the closest off-site CAMP station (WZ-2) did not approach or exceed the action level established by the CAMP (0.100  $\text{mg}/\text{m}^3$ ) during this time.

**Equipment Troubleshooting**

PM10 concentrations were not recorded at DustTrak of perimeter CAMP station PM-1 at 11:28am during recalibration of the DustTrak unit due to persistent negative readings. Data logging resumed at 11:29am and PM10 concentrations returned to background levels after equipment recalibration. Fugitive dust was not observed migrating from the site during this time.

PM10 concentrations were not recorded at DustTrak of perimeter CAMP station PM-2 intermittently from 1:01pm to 2:24pm (45 minutes in total), during troubleshooting efforts to resolve telemetry connectivity issues. Troubleshooting included powering on and off the equipment multiple times, which prevented data recording at the DustTrak unit during these times. Data logging resumed at 2:25pm, after troubleshooting was completed and telemetry issues were not observed thereafter. Fugitive dust was not observed migrating from the site during these times. Additionally, PM10 concentrations at the closest off-site CAMP station (WZ-3) did not approach or exceed the action level established by the CAMP (0.100  $\text{mg}/\text{m}^3$ ) during these times.

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

The dedicated mobile monitor (Langan) used a handheld Jerome® J505 mercury vapor analyzer to monitor ambient air conditions at various heights throughout the site. Instantaneous mercury vapor concentrations throughout the site ranged from 0.00  $\mu\text{g}/\text{m}^3$  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. 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 9:07am to 5:01pm due to exposed soil/fill within 20 feet of the northern fence line.

CAMP station WZ-2 was relocated to the eastern sidewalk of Peck Slip from 9:04am to 5:01pm due to exposed soil/fill within 20 feet of the eastern fence line.

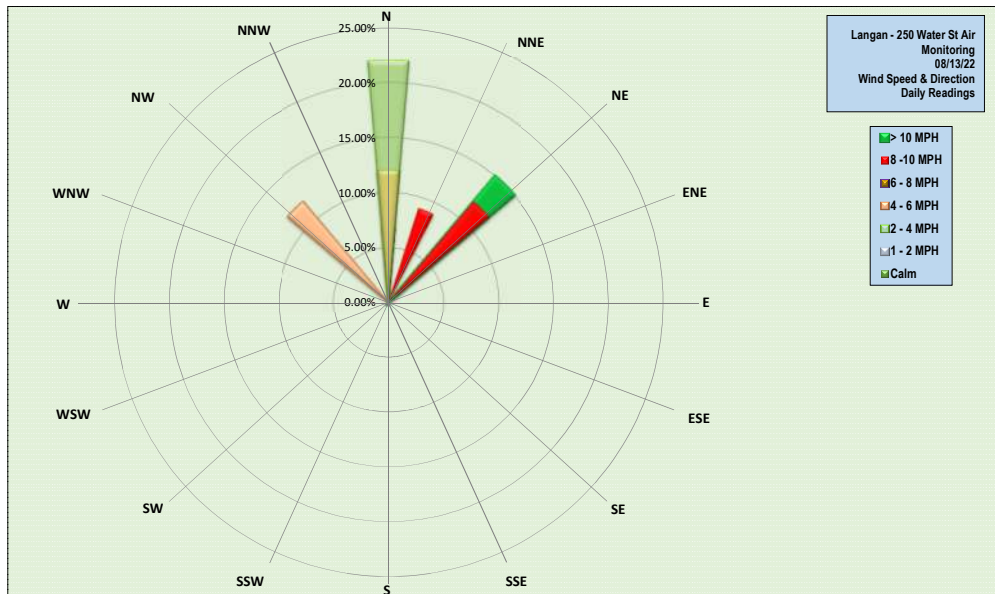
CAMP station WZ-3 was relocated to the southern sidewalk of Water Street from 9:03am to 5:01pm during excavation activities along the southern boundary of the site.

**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 5:00pm and 5:01pm at the conclusion of ground-intrusive activities.

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

VOC concentrations at each CAMP station was recorded at 0.0 ppm.





# DAILY AIR MONITORING REPORT

## 250 Water Street Remediation Site

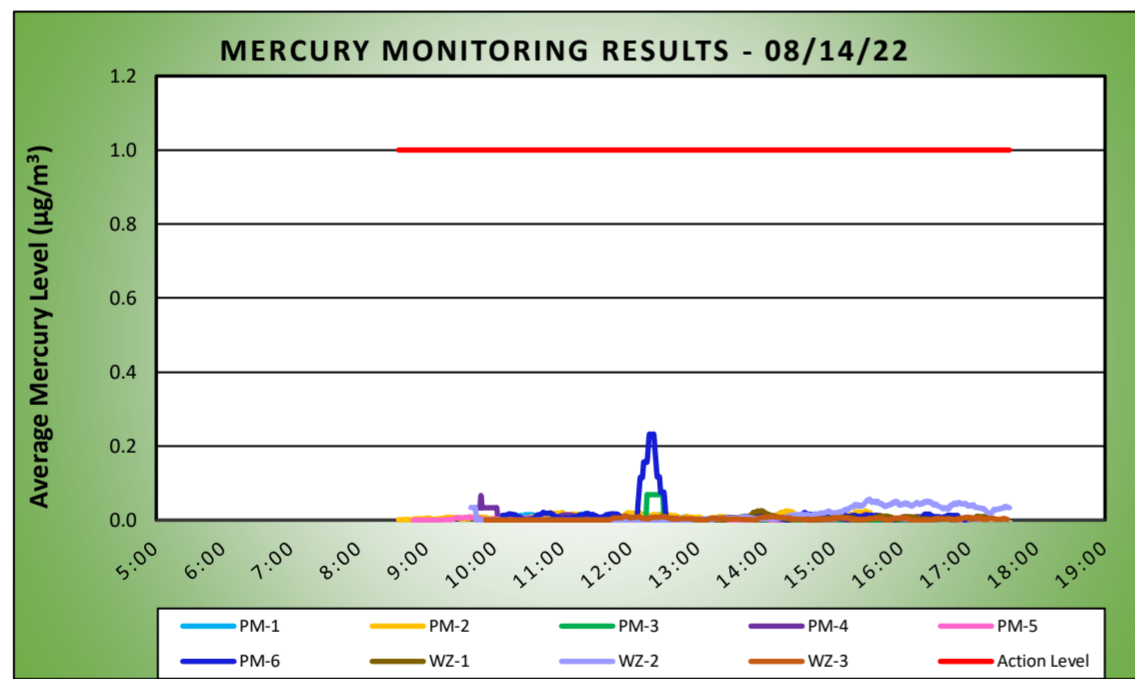
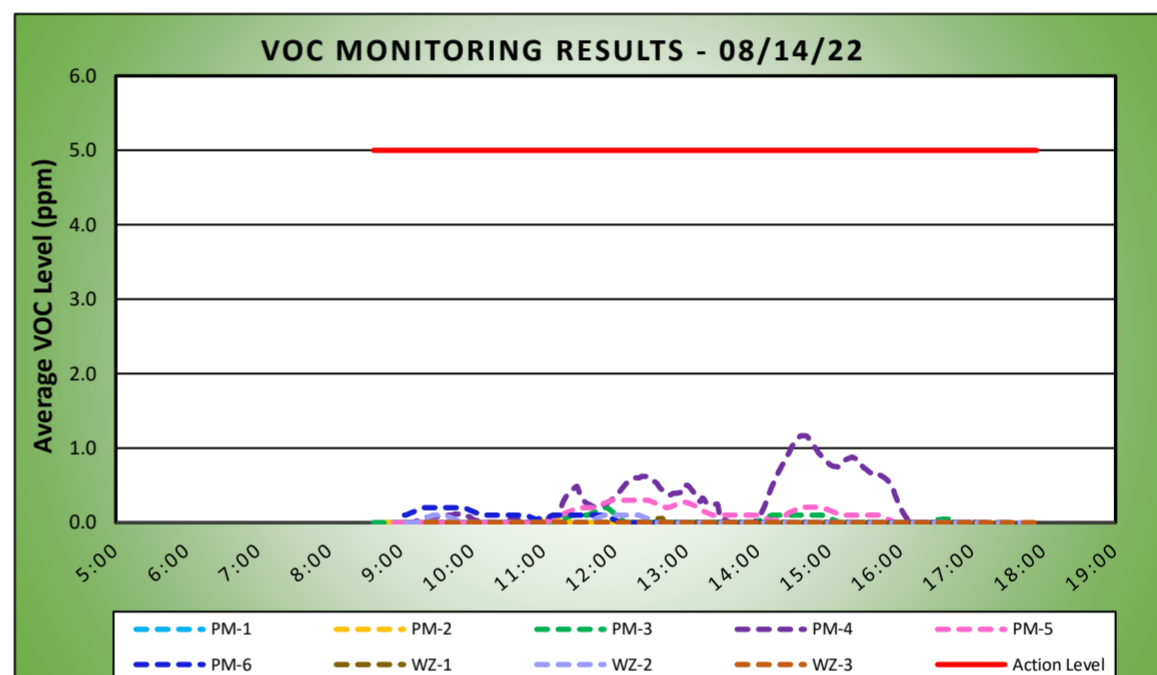
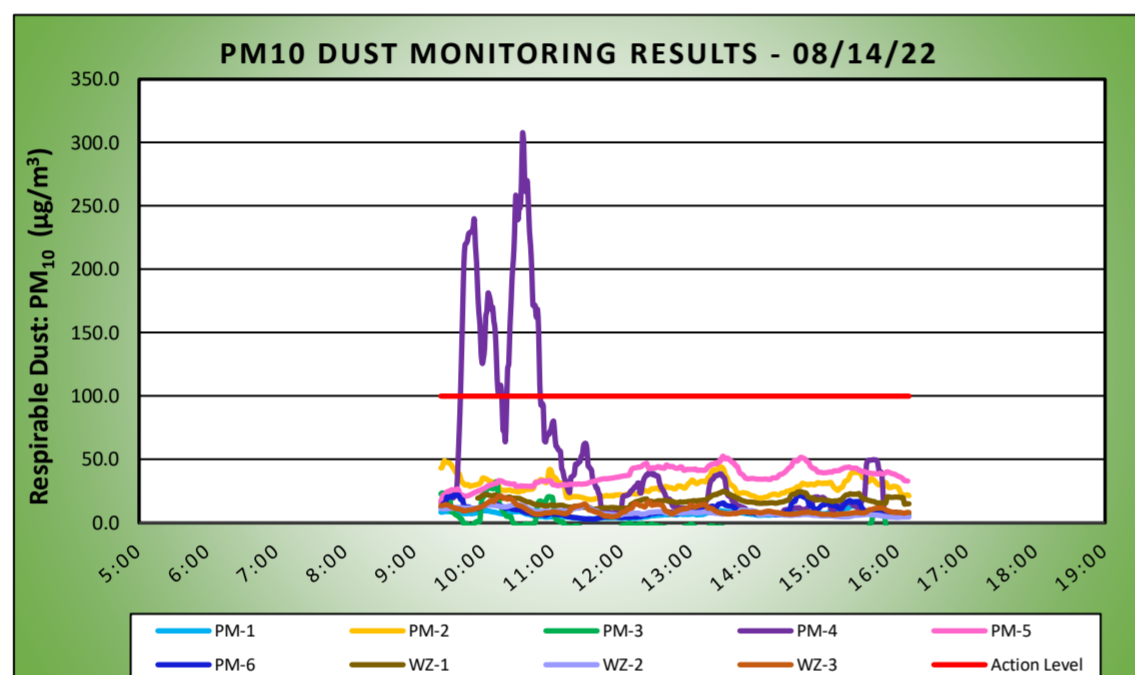
### Manhattan, New York

08/14/22	
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 (%)	35.0 - 54.0	Daily Rain (in)	0.00	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp (°F)	74.0 - 81.0	Wind Speed (MPH)	0.0 - 8.1	Barometer (inHg)	30.00 - 30.10			

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		6.9	13.5	15:26	0.0	0.0	8:50
PM-2		28.9	49.1	9:26	0.0	0.1	11:07
PM-3		-3.6	32.4	10:11	0.0	0.2	11:52
PM-4		49.1	307.2	10:34	0.3	1.2	14:39
PM-5		36.6	52.6	13:28	0.1	0.3	11:57
PM-6		9.9	22.1	9:38	0.1	0.2	9:19
WZ-1		17.4	25.0	13:29	0.0	0.1	12:27
WZ-2		8.5	14.3	10:28	0.0	0.1	9:27
WZ-3		10.2	21.4	10:14	0.0	0.0	9:21

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		0.0	0.0	14:14
PM-2		0.0	0.0	14:18
PM-3		0.0	0.1	12:15
PM-4		0.0	0.1	9:48
PM-5		0.0	0.0	9:38
PM-6		0.0	0.2	12:17
WZ-1		0.0	0.0	13:56
WZ-2		0.0	0.1	15:32
WZ-3		0.0	0.0	11:56



**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 VOCs, and mercury vapor that approached or exceeded the action level established by the CAMP (5.0 ppm, and 1.00  $\mu\text{g}/\text{m}^3$ , respectively).

**Background Concentrations**

Prior to implementation of ground-intrusive work each day, instantaneous background concentrations of mercury vapor and VOCs were recorded using a handheld Jerome® J505 mercury vapor analyzer and a handheld PID, respectively.

Background concentrations of mercury vapor at each CAMP station ranged from 0.00  $\mu\text{g}/\text{m}^3$  to 0.02  $\mu\text{g}/\text{m}^3$

Background concentrations of VOCs at each CAMP station ranged from 0.0 ppm to 0.1 ppm.

\*PM10 concentrations at perimeter CAMP station PM-4 exceeded the action level established in the CAMP (0.100 mg/m<sup>3</sup>) from 9:40am to 10:15am and 10:21am to 10:49am (63 minutes in total). The exceedances were caused by welding activities adjacent to perimeter CAMP station PM-4 along the eastern border of the site and were not the result of ground-intrusive activities associated with soil/fill at the site. The CAMP station was relocated approximately 20 feet south and PM10 readings fell below action levels. Fugitive dust was not observed migrating from the site during this time. Additionally, PM10 concentrations at the closest off-site CAMP station (WZ-2) did not approach or exceed the action level established by the CAMP (0.100 mg/m<sup>3</sup>) during this time.

**Equipment Troubleshooting**

Mercury vapor concentrations were not recorded off-site CAMP station WZ-1 from 12:06pm to 12:28pm due an equipment malfunction. The equipment was restarted and data logging resumed at 12:29pm. The handheld Jerome® J505 mercury unit was used to screen ambient air for mercury vapor during this time. No readings above background levels were observed.

**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 0.15  $\mu\text{g}/\text{m}^3$ .

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 9:40am to 4:10pm due to exposed soil/fill within 20 feet of the northern fence line.

CAMP station WZ-2 was relocated to the eastern sidewalk of Peck Slip from 9:08am to 4:10pm during SOE activities along the eastern boundary of the site.

CAMP station WZ-3 was relocated to the southern sidewalk of Water Street from 9:08am to 4:10pm during SOE activities 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 3:47pm and 4:04pm at the conclusion of ground-intrusive activities.

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

VOC concentrations at each CAMP station was recorded at 0.0 ppm.



