

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

05/11/22

Project number: 170381202

Page 1 of 2

Submitted By: Lauren Roper, Brian Kenneally

Rev. No. 0

Dust Action Level ( $\mu\text{g}/\text{m}^3$ ) 100

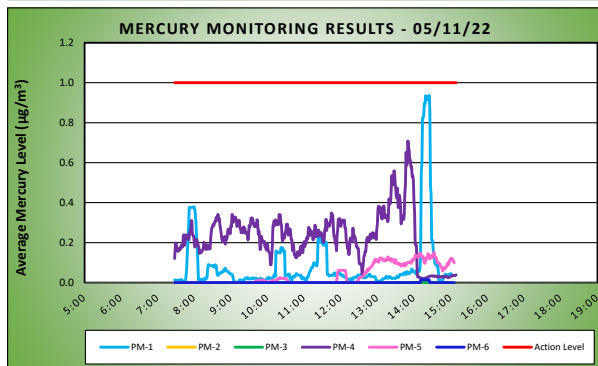
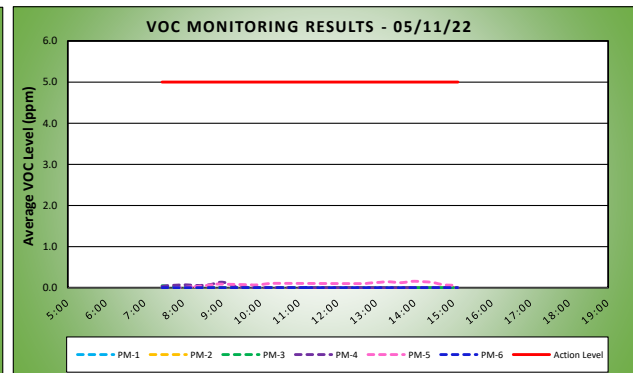
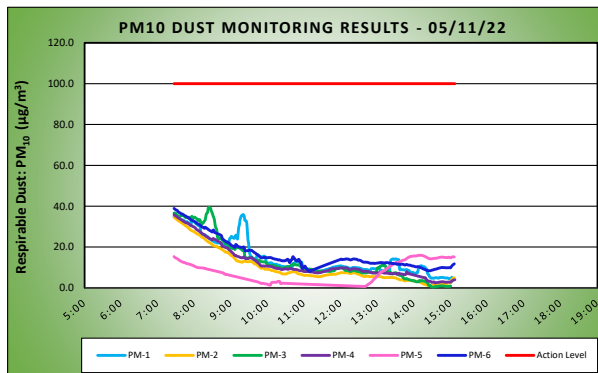
VOC Action Level (ppm) 5

Hg Action Level ( $\mu\text{g}/\text{m}^3$ ) 1.0

Weather Data Range for Work Day		Wind Direction	NNE	Relative Humidity (%)	25.5 - 41.2	Daily Rain (in)	0.00	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp (°F)	59.7 - 74.1	Wind Speed (MPH)	1.3 - 9.4	Barometer (inHg)	30.31 - 30.36			

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	14.9	35.9	9:20	0.0	0.0	7:27
PM-2	10.6	34.8	7:27	0.0	0.0	7:29
PM-3	13.6	39.4	8:24	0.0	0.0	7:27
PM-4	12.6	35.8	7:27	0.0	0.1	8:59
PM-5	9.6	16.0	14:08	0.1	0.2	14:00
PM-6	17.1	38.9	7:27	0.0	0.0	7:27

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	0.1	0.9	14:25
PM-2	0.0	0.0	14:22
PM-3	0.0	0.0	7:28
PM-4	0.2	0.7	13:50
PM-5	0.0	0.2	14:33
PM-6	0.0	0.0	14:11



**Air Monitoring Notes:**

- Langan used a handheld Jerome® J505 mercury analyzer to monitor ambient air conditions within the work zone and throughout the site. Instantaneous mercury vapor concentrations ranged from 0.00  $\mu\text{g}/\text{m}^3$  to 0.26  $\mu\text{g}/\text{m}^3$ , with the exception of one elevated reading discussed below.
  - One instantaneous mercury vapor concentration was detected using the handheld Jerome® J505 mercury vapor analyzer at 3.26  $\mu\text{g}/\text{m}^3$  at 12:00pm. During this time, CCIV was installing a dewatering system in the western portion of the site. No on-site source was identified, as no ground-intrusive activities were ongoing at the time of the elevated reading. The instantaneous concentration was the only reading recorded above the action level, and did not result in a 15-minute time-weighted-average above the action level established in the CAMP.
- Langan used a handheld photoionization detector (PID) to monitor VOC concentrations within the work zone and throughout the site. VOC concentrations were not detected above background concentrations throughout the work day.
  - Concentrations of PM10 and VOCs were not recorded at perimeter station PM5, which was located upwind of the work area, from 8:18am and 8:32am, 8:52am to 9:10am, 9:18am to 9:30am, 10:22am to 10:33am, 10:36am to 11:52am, and 11:57am to 12:25pm due to a faulty wire within the CAMP station. Troubleshooting was completed by the company supplying the equipment (Triumvirate/Emilcott) and the station was repaired at 12:26pm.
  - Perimeter CAMP station PM-5 was located in the northeastern portion of the site and about 150 feet away from the work area in an upwind direction.
  - Fugitive dust or odors were not observed migrating from the site during these times.
  - VOC concentrations were not recorded above background conditions using the handheld PID.
  - Instantaneous mercury vapor concentrations recorded with the handheld Jerome® J505 mercury vapor analyzer ranged from 0.00  $\mu\text{g}/\text{m}^3$  to 0.11  $\mu\text{g}/\text{m}^3$  during these times (with the exception of the elevated reading discussed above).
- Concentrations of PM10 and VOCs were not recorded at perimeter station PM6, which was located upwind of the work area, from 11:11am to 11:46am due to a malfunction with the telemetry system. The modem within perimeter station PM-6 was reset and data logging resumed at 11:47am.
  - Fugitive dust or odors were not observed migrating off-site during this time.
  - VOC concentrations were not recorded above background conditions using the handheld PID.
- The Jerome® J405 unit within perimeter CAMP station PM-4 was replaced with the handheld Jerome® J505 mercury vapor analyzer at 1:52pm due to prolonged false positive readings detected from the CAMP station. The spare Jerome® J405 unit will be used while the malfunctioning unit is replaced.
- Prior to discontinuing the CAMP at the conclusion of ground-intrusive activities, VOC and mercury vapor concentrations were confirmed to return to background conditions at each perimeter station. CAMP stations were discontinued sequentially between 2:58pm and 3:07pm 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 0.03  $\mu\text{g}/\text{m}^3$ .
  - VOC concentrations at each CAMP station were recorded at 0.0 ppm.





# DAILY AIR MONITORING REPORT

## 250 Water Street Remediation Site

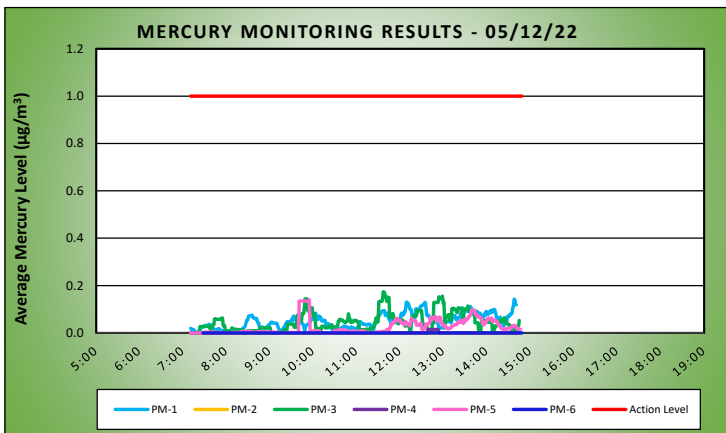
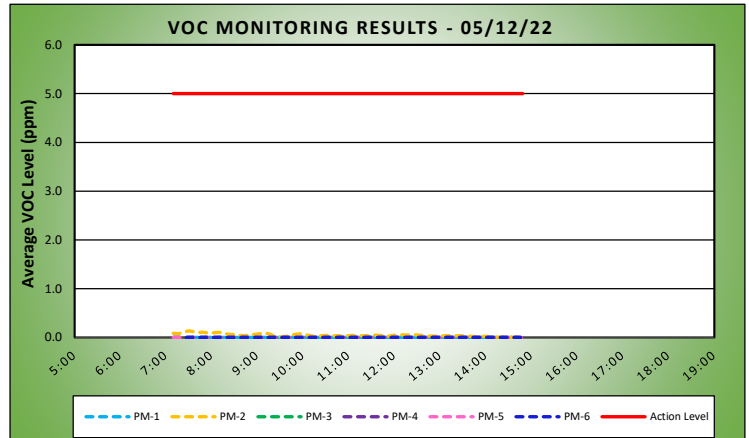
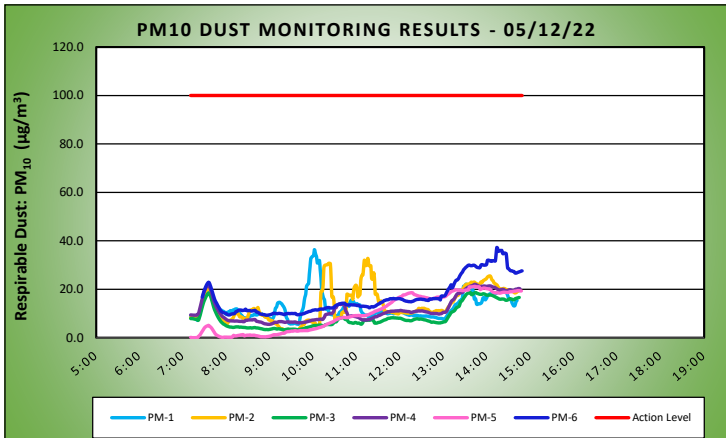
### Manhattan, New York

05/12/22	
Project number: 170381202	
Page 1 of 2	Rev. No. 0
Submitted By: Lauren Roper, Brian Kenneally	
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 (%)	53.3 - 65.6	Daily Rain (in)	0.00	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp ( $^{\circ}\text{F}$ )	61.8 - 70.7	Wind Speed (MPH)	0.8 - 7.6	Barometer (inHg)	30.34 - 30.40			

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		12.7	36.4	10:02	0.0	0.0	7:34
PM-2		13.7	32.7	11:16	0.0	0.1	7:31
PM-3		8.5	18.8	13:37	0.0	0.0	7:10
PM-4		11.7	22.0	13:44	0.0	0.0	7:10
PM-5		9.8	21.2	13:43	0.0	0.0	7:10
PM-6		16.9	37.2	14:14	0.0	0.0	7:27

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	0.1	14:38
PM-2		0.0	0.0	7:11
PM-3		0.0	0.2	11:37
PM-4		0.0	0.0	12:39
PM-5		0.0	0.1	9:55
PM-6		0.0	0.0	7:28

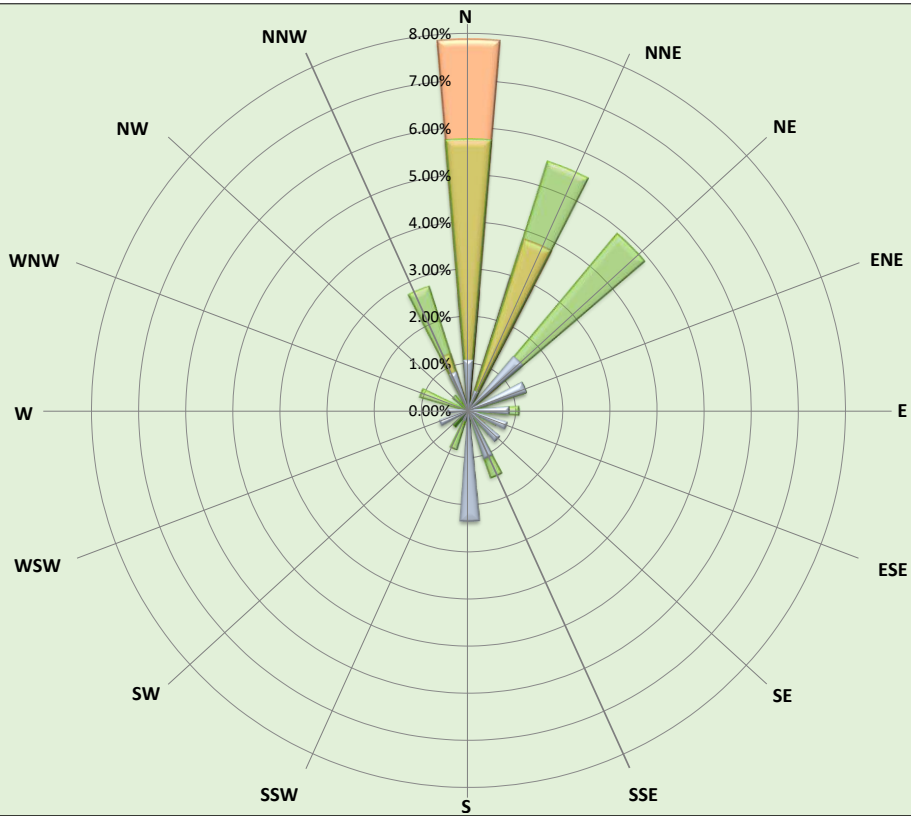


**Air Monitoring Notes:**

- Langan used a handheld Jerome® J505 mercury analyzer to monitor ambient air conditions within the work zone and throughout the site. Instantaneous mercury vapor concentrations ranged from 0.00  $\mu\text{g}/\text{m}^3$  to 0.23  $\mu\text{g}/\text{m}^3$ .
- Langan used a handheld photoionization detector (PID) to monitor VOC concentrations within the work zone and throughout the site. VOC concentrations were not detected above background concentrations throughout the work day.
- Prior to discontinuing the CAMP at the conclusion of ground-intrusive activities, VOC and mercury vapor concentrations were confirmed to return to background conditions at each perimeter station. CAMP stations were discontinued at 2:59pm 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 0.08  $\mu\text{g}/\text{m}^3$ .
  - VOC concentrations at each CAMP station were recorded at 0.0 ppm.



Langan - 250 Water St Air  
Monitoring  
05/12/22  
Wind Speed & Direction  
Daily Readings



- > 10 MPH
- 8 - 10 MPH
- 6 - 8 MPH
- 4 - 6 MPH
- 2 - 4 MPH
- 1 - 2 MPH
- Calm



# DAILY AIR MONITORING REPORT

## 250 Water Street Remediation Site Manhattan, New York

05/13/22

Project number: 170381202

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Rev. No. 0

Submitted By: Lauren Roper, Brian Kenneally

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

100

VOC Action Level (ppm)

5

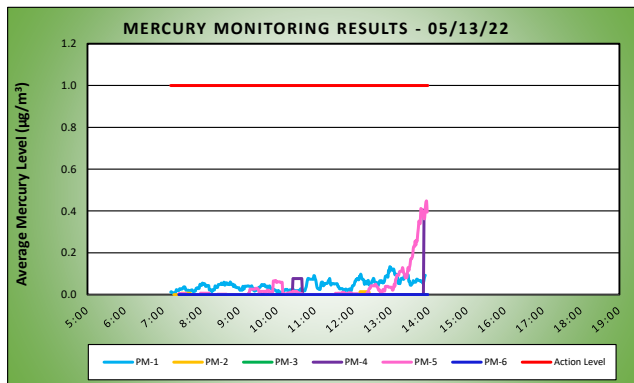
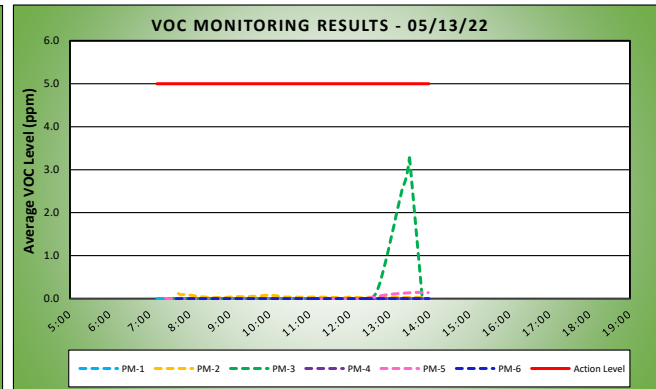
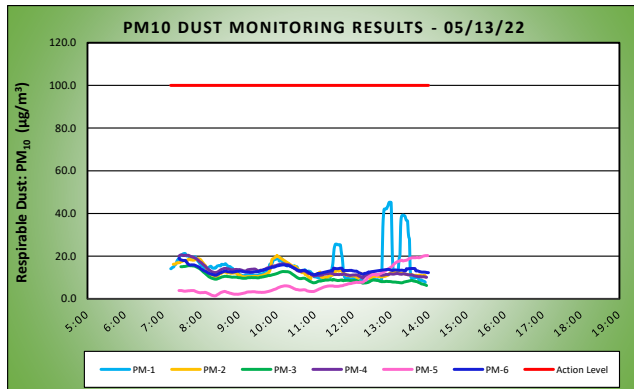
Hg Action Level ( $\mu\text{g}/\text{m}^3$ )

1.0

Weather Data Range for Work Day		Wind Direction	NNE	Relative Humidity (%)	62.6 - 82.1	Daily Rain (in)	0.00	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp (°F)	60.2 - 71.6	Wind Speed (MPH)	1.0 - 8.0	Barometer (inHg)	30.32 - 30.39			

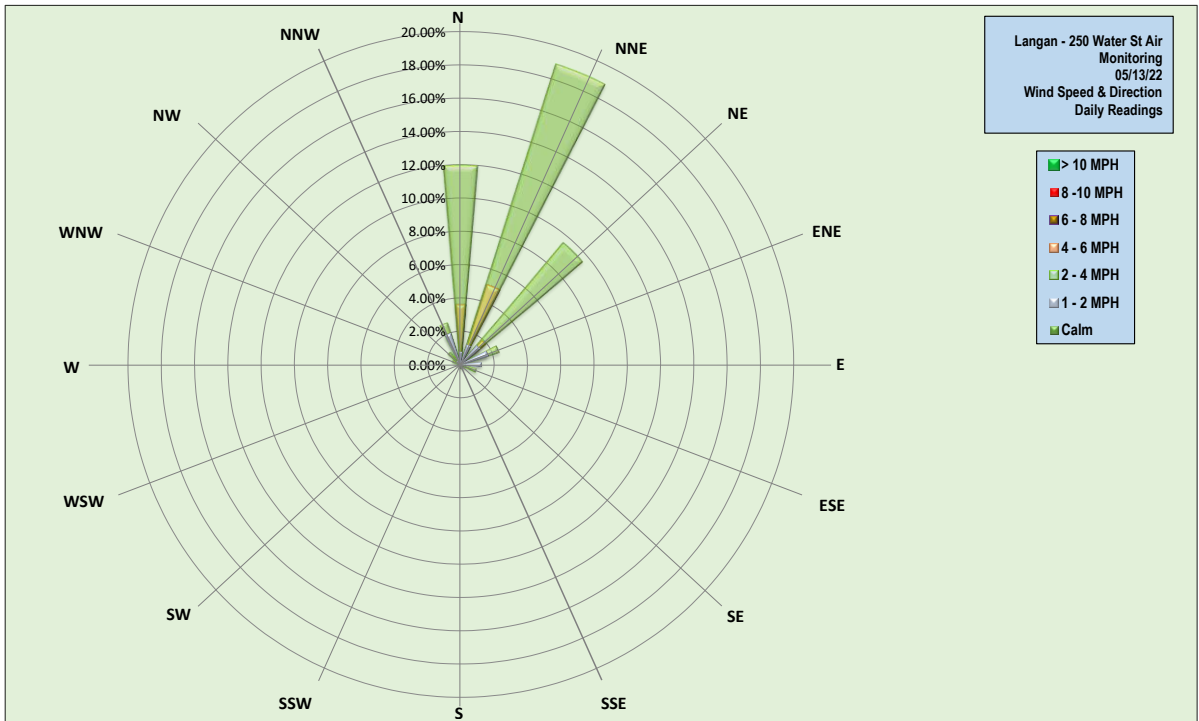
Station Location Work Area	Daily Avg. Dust Concentration ( $\mu\text{g}/\text{m}^3$ )	Max 15 Minute Dust Concentration ( $\mu\text{g}/\text{m}^3$ )	Time of Maximum 15 Minute Avg Dust Reading	Daily Avg. VOC Concentration (ppm)	Max 15 Minute VOC Concentration (ppm)	Time of Max 15 Minute Avg VOC Reading
PM-1	15.4	45.3	12:58	0.0	0.0	7:11
PM-2	12.7	20.2	10:00	0.0	0.1	7:43
PM-3	9.8	15.6	7:42	0.3	3.3	13:30
PM-4	13.3	20.6	7:29	0.0	0.0	7:41
PM-5	7.3	20.3	13:57	0.0	0.1	13:41
PM-6	13.6	18.9	7:25	0.0	0.0	7:40

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	0.0	0.1	12:58
PM-2	0.0	0.0	12:11
PM-3	0.0	0.0	7:29
PM-4	0.0	0.4	13:52
PM-5	0.0	0.4	13:56
PM-6	0.0	0.0	7:25



**Air Monitoring Notes:**

- Prior to discontinuing the CAMP at the conclusion of ground-intrusive activities, VOC and mercury vapor concentrations were confirmed to return to background conditions at each perimeter station. CAMP stations were discontinued sequentially from 1:44pm to 1:59pm 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  $\mu\text{g}/\text{m}^3$ .
  - VOC concentrations at each CAMP station ranged from 0.0 ppm to 0.1 ppm.
- Langan used a handheld Jerome<sup>®</sup> J505 mercury analyzer to monitor ambient air conditions within the work zone and throughout the site. Instantaneous mercury vapor concentrations ranged from 0.00  $\mu\text{g}/\text{m}^3$  to 0.09  $\mu\text{g}/\text{m}^3$ .
- Langan used a handheld photoionization detector (PID) to monitor VOC concentrations within the work zone and throughout the site. VOC concentrations were not detected above background concentrations throughout the work day.
- Concentrations of PM10 were not recorded at perimeter station PM-2 from 10:01am to 10:10am due to a connection issue within the CAMP station. The DustTrak within perimeter station PM-2 was reset and data logging resumed at 10:11am. Mercury vapor data was manually downloaded and concentrations during this time were recorded at 0.00  $\mu\text{g}/\text{m}^3$ .
- Instantaneous mercury vapor concentrations recorded with the handheld Jerome<sup>®</sup> J505 mercury vapor analyzer at perimeter station PM-2 ranged from 0.00  $\mu\text{g}/\text{m}^3$  to 0.09  $\mu\text{g}/\text{m}^3$  between 9:50am and 10:01am.
- Fugitive dust was not observed migrating from the site during these times.
- Concentrations of PM10 and VOCs were not recorded at perimeter station PM-6, which was located upwind of the work area, from 11:05am to 11:11am and from 12:25pm to 12:39pm, due to a malfunction with the telemetry system. The modem within perimeter station PM-6 was reset and data logging resumed at 11:12am and 12:40pm, respectively. Mercury vapor data was manually downloaded and concentrations during this time were recorded at 0.00  $\mu\text{g}/\text{m}^3$ .
- Instantaneous mercury vapor concentrations recorded with the handheld Jerome<sup>®</sup> J505 mercury vapor analyzer at perimeter station PM-6 ranged from 0.00  $\mu\text{g}/\text{m}^3$  to 0.07  $\mu\text{g}/\text{m}^3$  during these times.
- Fugitive dust and odors were not observed migrating from the site during these times.
- VOC concentrations were not recorded above background conditions using the handheld PID.
- Concentrations of VOCs were not recorded at perimeter station PM-3, which was located upwind of the work area, from 1:31pm to 1:33pm during instrument recalibration. Data logging resumed at 1:34pm and instantaneous VOC concentrations recorded with the handheld PID ranged from 0.0 to 0.2 ppm during this time.
- Odors were not observed migrating from the site during this time.
- VOC concentrations were not recorded above background conditions using the handheld PID.







# DAILY AIR MONITORING REPORT

## 250 Water Street Remediation Site

### Manhattan, New York

05/14/22

Project number: 170381202

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Rev. No. 0

Submitted By: Audrey Seery, Lexi Haley

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

100

VOC Action Level (ppm)

5

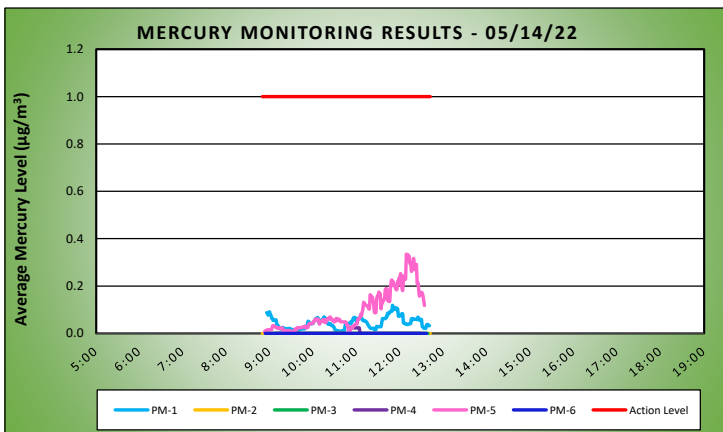
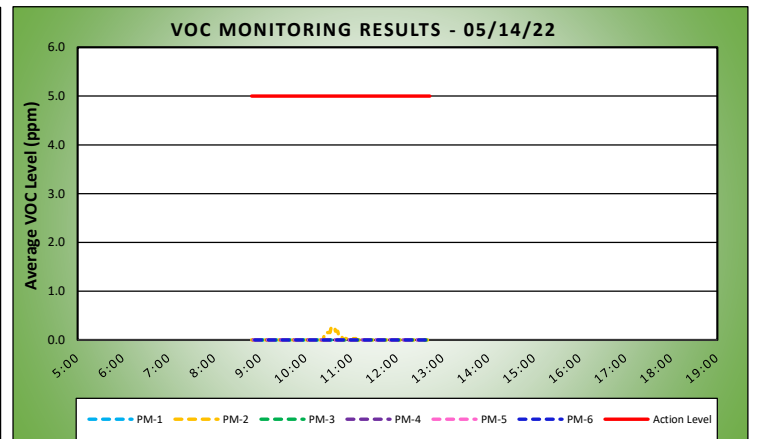
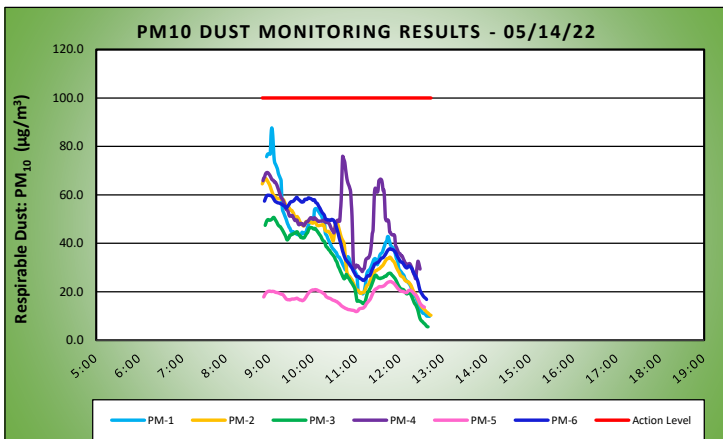
Hg Action Level ( $\mu\text{g}/\text{m}^3$ )

1.0

Weather Data Range for Work Day		Wind Direction	ESE	Relative Humidity (%)	81.0 - 92.0	Daily Rain (in)	0.01	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp (°F)	63.0 - 67.0	Wind Speed (MPH)	1.2 - 2.5	Barometer (inHg)	30.10 - 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		38.5	87.6	9:03	0.0	0.0	8:55
PM-2		37.5	66.7	8:55	0.0	0.3	10:34
PM-3		30.6	50.7	9:06	0.0	0.0	8:54
PM-4		48.4	76.0	10:41	0.0	0.0	8:51
PM-5		17.9	24.2	11:47	0.0	0.0	8:52
PM-6		41.4	59.8	8:58	0.0	0.0	8:53

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	0.1	11:50
PM-2		0.0	0.0	8:50
PM-3		0.0	0.0	8:55
PM-4		0.0	0.0	10:50
PM-5		0.1	0.3	12:09
PM-6		0.0	0.0	8:54

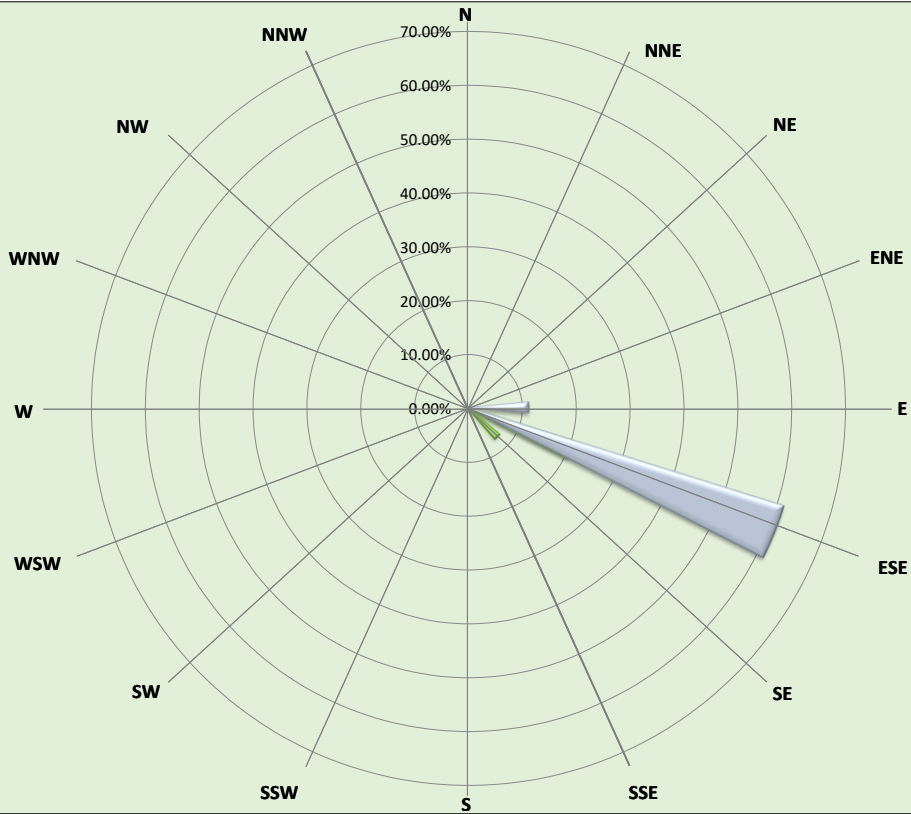


**Air Monitoring Notes:**

- Langan used a handheld Jerome<sup>®</sup> J505 mercury analyzer to monitor ambient air conditions within the work zone and throughout the site. Instantaneous mercury vapor concentrations ranged from 0.00  $\mu\text{g}/\text{m}^3$  to 0.23  $\mu\text{g}/\text{m}^3$ .
- Langan used a handheld photoionization detector (PID) to monitor VOC concentrations within the work zone and throughout the site. VOC concentrations were not detected above background concentrations throughout the work day.
- Prior to discontinuing the CAMP at the conclusion of ground-intrusive activities, VOC and mercury vapor concentrations were confirmed to return to background conditions at each perimeter station. CAMP stations were discontinued sequentially from 12:27 pm to 12:45 pm 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 0.08  $\mu\text{g}/\text{m}^3$ .
- VOC concentrations at each CAMP station were recorded at 0.2 ppm.



Langan - 250 Water St Air  
Monitoring  
05/14/22  
Wind Speed & Direction  
Daily Readings



- > 10 MPH
- 8 - 10 MPH
- 6 - 8 MPH
- 4 - 6 MPH
- 2 - 4 MPH
- 1 - 2 MPH
- Calm
- > 10 MPH
- 8 - 10 MPH
- 6 - 8 MPH
- 4 - 6 MPH
- 2 - 4 MPH





# DAILY AIR MONITORING REPORT

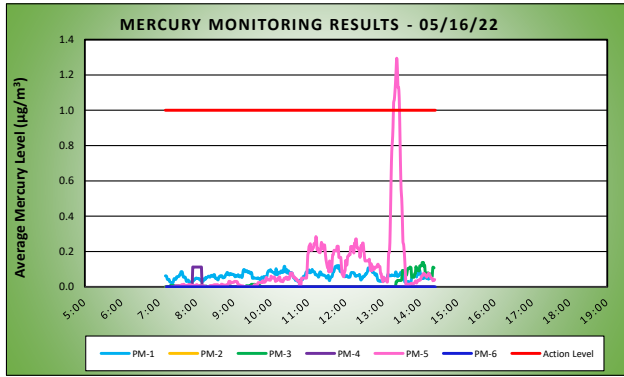
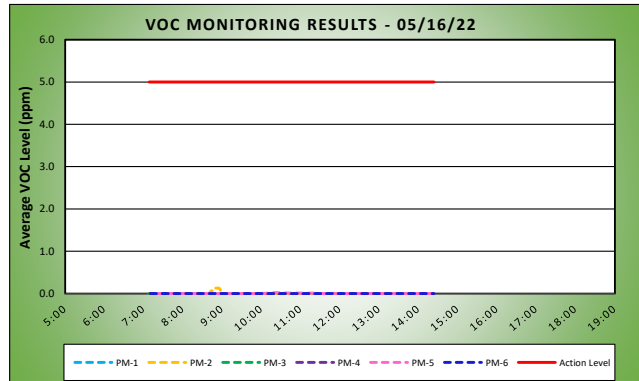
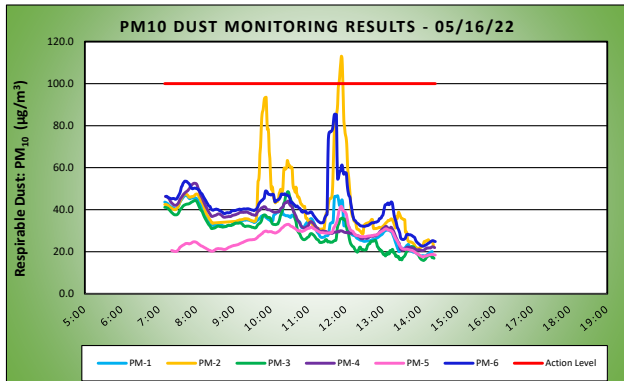
## 250 Water Street Remediation Site Manhattan, New York

05/16/22	
Project number: 170381202	
Page 1 of 2	
Submitted By: Lauren Roper, Elisah Boak	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	SSE	Relative Humidity (%)	52.0 - 84.0	Daily Rain (in)	0.05	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp (°F)	63.0 - 78.0	Wind Speed (MPH)	1.7 - 5.7	Barometer (inHg)	29.60 - 29.70			

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		32.8	46.8	7:42	0.0	0.0	7:28
PM-2		42.1	113.1	11:53	0.0	0.1	8:46
PM-3		29.7	48.6	10:27	0.0	0.0	7:09
PM-4		34.3	52.6	7:56	0.0	0.0	7:10
PM-5		26.2	41.6	11:53	0.0	0.0	10:24
PM-6		41.0	85.4	11:42	0.0	0.0	7:11

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	11:49
PM-2		0.0	0.0	7:10
PM-3		0.0	0.1	14:03
PM-4		0.0	0.1	7:54
PM-5		0.1	1.3	13:22
PM-6		0.0	0.0	7:12



**Air Monitoring Notes:**

- \*Particulate concentrations exceeded the action level established in the CAMP from 11:49am to 11:55am at perimeter station PM -2, located upwind of the work zone. During this time, CCIV was demobilizing a grout mixer and no ground-intrusive activities were ongoing at the site. Dust suppression measures (ie. spraying the ground surface with water) were implemented and PM10 concentrations returned to background conditions. Fugitive dust was not observed migrating from the site during this time.
- \*\*Mercury vapor concentrations exceeded the action level established in the CAMP from 1:18pm to 1:26pm at perimeter station P M-5, located along Pearl Street. During this time, no ground-intrusive activities were ongoing at the site and CCIV was in the process of covering exposed soil/fill with polyethylenesheeting. No on-site source of mercury vapor was identified based on continuous screening with the Jerome J505 unit.
  - The 15-minute time-weighted-average concentrations of mercury vapor exceeding the action level ranged from 1.1 to 1.3  $\mu\text{g}/\text{m}^3$  and the exceedances were caused by instantaneous mercury vapor concentrations ranging from 0.0  $\mu\text{g}/\text{m}^3$  to 3.0  $\mu\text{g}/\text{m}^3$  between 1:08pm and 1:22pm.
  - Jerome® J505 mercury vapor analyzer concentrations ranged from 0.00  $\mu\text{g}/\text{m}^3$  to 0.08  $\mu\text{g}/\text{m}^3$  during this time.
  - Based on the mercury vapor concentrations recorded from the Jerome® J405 unit within perimeter station PM -5 being inconsistent with all other observations from mercury vapor monitors on May 16, 2022 and on an evaluation of previous data from the unit, this unit is being replaced. The replacement unit is anticipated to arrive for use on Thursday, May 19, 2022.
- Langan used a handheld Jerome® J505 mercury analyzer to monitor ambient air conditions within the work zone and at various heights throughout the site. Instantaneous mercury vapor concentrations ranged from 0.00  $\mu\text{g}/\text{m}^3$  to 0.31  $\mu\text{g}/\text{m}^3$ .
- Langan used a handheld PID to monitor VOC concentrations within the work zone and throughout the site. VOC concentrations were not detected above background concentrations throughout the work day.
- Concentrations of PM10 were not recorded at perimeter station PM-2, which was located upwind of the work area, from 8:26am to 8:46am, due to a disconnected power cable. The power cable was reconnected and data logging resumed at 8:47am. Mercury vapor data was manually downloaded and concentrations during this time were recorded at 0.00  $\mu\text{g}/\text{m}^3$ . VOC data was manually downloaded and concentrations during this time ranged from 0.0 ppm to 0.1 ppm.
  - Instantaneous mercury vapor concentrations recorded with the handheld Jerome® J505 mercury vapor analyzer at perimeter station PM-2 ranged from 0.05  $\mu\text{g}/\text{m}^3$  to 0.10  $\mu\text{g}/\text{m}^3$  during this time.
  - Fugitive dust was not observed migrating from the site during this time.
- Prior to discontinuing the CAMP at the conclusion of ground-intrusive activities, VOC and mercury vapor concentrations were confirmed to return to background conditions at each perimeter station. CAMP stations were discontinued sequentially from 2:19pm to 2:26pm at the conclusion of ground-intrusive activities.
  - Mercury vapor concentrations at each CAMP station ranged from 0.04  $\mu\text{g}/\text{m}^3$  to 0.10  $\mu\text{g}/\text{m}^3$ .
  - VOC concentrations at each CAMP station were recorded at 0.0 ppm.







# DAILY AIR MONITORING REPORT

## 250 Water Street Remediation Site

### Manhattan, New York

05/17/22

Project number: 170381202

Page 1 of 2

Submitted By: Lauren Roper, Brian Kenneally

Rev. No. 0

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

100

VOC Action Level (ppm)

5

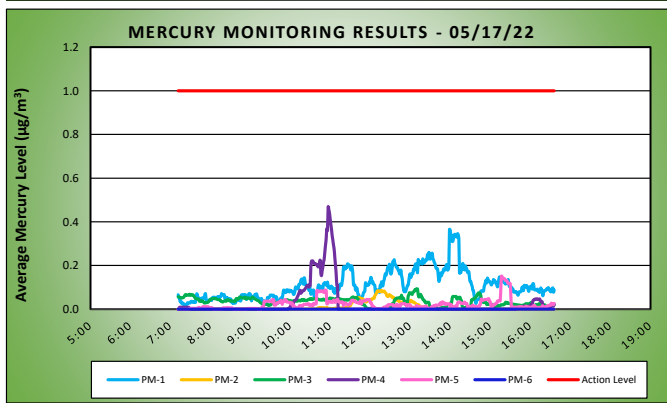
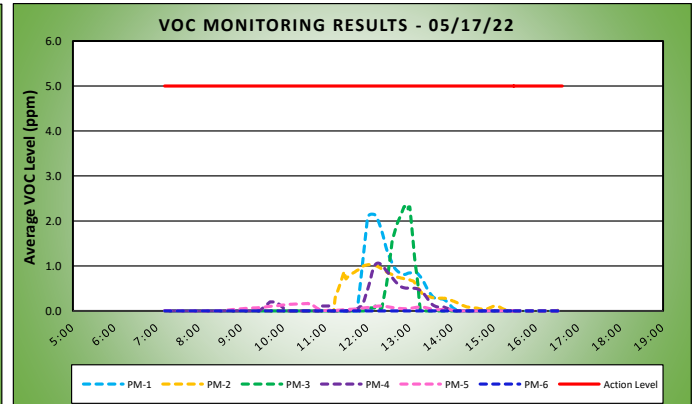
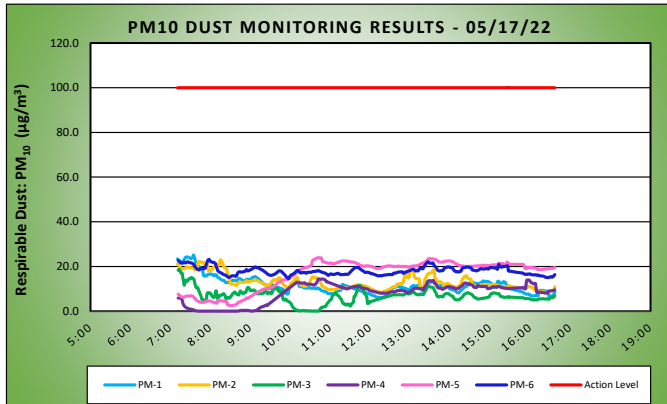
Hg Action Level ( $\mu\text{g}/\text{m}^3$ )

1.0

Weather Data Range for Work Day		Wind Direction	ESE, SE	Relative Humidity (%)	22.8 - 46.3	Daily Rain (in)	0.00	Readings in the summary table and graphs below are the reported downwind concentrations.
Temp (°F)	68.3 - 80.0	Wind Speed (MPH)	0.8 - 7.0	Barometer (inHg)	29.77 - 29.84			

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		11.8	25.1	7:35	0.2	2.2	12:06
PM-2		13.1	22.9	8:16	0.2	1.0	12:02
PM-3		6.9	18.7	7:13	0.1	2.3	12:52
PM-4		8.0	14.4	10:43	0.1	1.1	12:15
PM-5		16.5	23.9	10:42	0.0	0.2	10:37
PM-6		18.1	23.1	7:58	0.0	0.0	7:11

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	0.4	13:59
PM-2		0.0	0.1	12:17
PM-3		0.0	0.1	13:10
PM-4		0.0	0.5	10:57
PM-5		0.0	0.2	15:17
PM-6		0.0	0.0	7:12



**Air Monitoring Notes:**

- A spare handheld Jerome® J505 mercury analyzer was used at perimeter station PM-3 from 6:57am to 11:40am due to a damaged data cable during CAMP deployment. An additional dedicated field personnel was stationed with the J505. Mercury vapor data obtained from the spare Jerome® J505 was included in the Daily Air Monitoring Report and is reflected in the table above.
- Langan used a handheld Jerome® J505 mercury analyzer to monitor ambient air conditions within the work zone and throughout the site. Instantaneous mercury vapor concentrations ranged from 0.00  $\mu\text{g}/\text{m}^3$  to 0.13  $\mu\text{g}/\text{m}^3$ .
- Langan used a handheld PID to monitor VOC concentrations within the work zone and throughout the site. VOC concentrations were not detected above background concentrations throughout the work day.
- Work was halted temporarily to perform equipment maintenance on the CAMP stations for time frames up to 25 minutes at a time. During maintenance at each station, concentrations of PM10, VOCs, and mercury vapor were intermittently not transmitted through the telemetry system. The mercury vapor and VOC data from these intermittent gaps were manually downloaded from each unit and are reflected in the Daily Air Monitoring Report and the table above.
  - Perimeter CAMP stations were brought offline, one at a time, to perform the maintenance and the proximity of each station was screened by the dedicated CAMP monitor using a handheld Jerome® J505 mercury vapor analyzer and a handheld PID.
    - Instantaneous concentrations of mercury vapor detected with the Jerome® J505 unit ranged from 0.00  $\mu\text{g}/\text{m}^3$  to 0.10  $\mu\text{g}/\text{m}^3$  across all perimeter CAMP stations.
    - Instantaneous VOC concentrations detected with the handheld PID were recorded at 0.0 ppm across all perimeter CAMP stations.
  - Fugitive dust and odors were not observed migrating from the site at any time throughout the work day.
- Prior to discontinuing the CAMP at the conclusion of ground-intrusive activities, VOC and mercury vapor concentrations were confirmed to return to background conditions at each perimeter station. CAMP stations were discontinued at 4:38pm at the conclusion of ground-intrusive activities.
  - Mercury vapor concentrations at each CAMP station was recorded at 0.00  $\mu\text{g}/\text{m}^3$ .
  - VOC concentrations at each CAMP station were recorded at 0.0 ppm.

