Pelton, Jason M (DEC)

From: Doug Smolensky <dsmolensky@emagin-inc.com>
Sent: Thursday, September 03, 2020 1:21 PM
To: Pelton, Jason M (DEC); Hesler, Donald (DEC); Sullivan, James (HEALTH); Richard Lenz; mrusso@OYSTERBAY-NY.gov
Cc: edward.hannon@ngc.com; Weber, Fred [US] (AS); Baumert-Moyik, Dianne C [US] (AS); Carol Henry Emery; Joel Balmat; Bill Lais; Bob Cassese; Jose Sananes; Todd McAlary; William Wertz; Darius Mali (DMali@Geosyntec.com); Susan Welt (SWelt@Geosyntec.com)
Subject: Final Park Soil ISTR Construction Weekly Progress Summary - Week 8/10/2020 - 8/14/2020
Attachments: Table 1, ISTR Cumulative Progress 2020 08 13.pdf; CAMP weekly Station Data 2020 08 10.pdf; ISTR Phase 2 weekly Photo Log 2020 08 10.pdf

Please note that ISTR Construction was completed during this reporting period. This summary, therefore, will be the last ISTR Construction weekly summary to be distributed.

Weekly Progress Summary for ISTR Construction
Northrop Grumman Systems, Corp.
Operable Unit 3, Bethpage, NY
Reporting Period: August 10 – August 14, 2020

Work completed:

- Continued working through commissioning checklist in preparation for operational phase.
- Completed installation of insulation on all process piping with heat trace.
- Completed installation of tubing on all MPE solenoids in the wellfield.
- Completed placing high voltage magnets/signs on heater boxes and process piping in the wellfield.
- Conducted quality control of heater wells.
- Completed wellfield sensor/communication/SCR programming tests.
- Completed testing of all emergency stop connections in the wellfield and at McKay Field.
- Installed power/communications connection between Tier 1 building and OU3 Treatment building for permissive signal.
- Disconnected temporary power line between OU3 Treatment building and McKay Field light post.
- Installed electrical connections and mounted fixed CAMP stations AMP-1, AMP-2, AMP-3, and AMP-4.
- On 8/13, conducted a walk-through of the ISTR system with Northrop Grumman, Town of Oyster Bay, NYSDEC, NYSDOH, EMAGIN, and REH personnel. Attendance was in-person or virtual.
- Conducted general wellfield and McKay Field cleanup.

Cumulative progress:

See attached file – *Table 1, ISTR Phase 2 Cumulative Progress 2020 08 13.pdf*

Materials imported:

- Process chiller refrigerant (ChemWorld Inhibited Glycol).

CAMP station monitoring summary:

- Two portable stations deployed each day, one upwind and one downwind of the work area to monitor TVOCs and particulates. Station locations determined at beginning of each day based on prevailing wind direction.
- On 8/12 Pine Environmental technician indicated that negative dust trak readings are attributed to sensor malfunctions inside the units and would need to be returned for cleaning.
- On 8/12 from 13:14 through 13:38 the upwind CAMP station indicted elevated particulate readings. There were no activities being conducted near this station. The readings subsided within minutes and were therefore considered anomalous.
- On 8/13 at 8:21, the downwind CAMP station indicated elevated particulate readings. There were no activities being conducted near this station. The readings subsided within minutes and were therefore considered anomalous.
- With ISTR system construction completed on 8/12 and installation of the fixed CAMP stations AMP-1, AMP-2, AMP-3, and AMP-4 on 8/14, the portable upwind and downwind stations were demobilized and CAMP station testing and monitoring using the fixed stations began.

Analytical results:

No samples collected for lab analysis.

Wastes generated/disposed:

- Decontamination fluids and personal protective equipment (PPE) containerized separately onsite in 55-gallon drums.
- Three drums are currently in use on-site (1 PPE, 1 boot-wash rinsate, and 1 TSCA rinsate drum).
- Approximately 200 gallons of groundwater water generated during development of MPE wells. The water is contained in a 250 gallon tote and stored at McKay Field for processing through the ISTR system during startup.
- General construction debris placed in a 30-yard roll off at McKay Field.

Community/Town engagement:

- Project fact sheet can be downloaded from the NG website.
- No contacts with public this week.

Work Plan or design modifications:

None

Schedule:

- ISTR system construction was completed on August 12, 2020.
- Work planned for week of August 17 through August 22, 2020:
  - Continue inspecting and testing equipment at McKay Field and the wellfield.
  - Fill frac tank with potable water and conduct discharge test to OU3 treatment plant.

- Complete TMP testing in wellfield.
- Patch any potential tears or perforations in wellfield liner
- Apply spray-foam around between the heater well casings and the metal flashings.
- Continue conducting general construction cleanup/housekeeping.

PHOTOGRAPH LOG – Week of August 10, 2020

Northrop Grumman
OU3 VOC Source Area Remedy
Bethpage Community Park

Photograph: 1

Description: Testing emergency stop connections in wellfield.

Location:
Wellfield

Photograph taken by:
REH

Date:
August 11, 2020

Photograph: 2

Description: Wellfield sensor/communications/SCR programming tests.

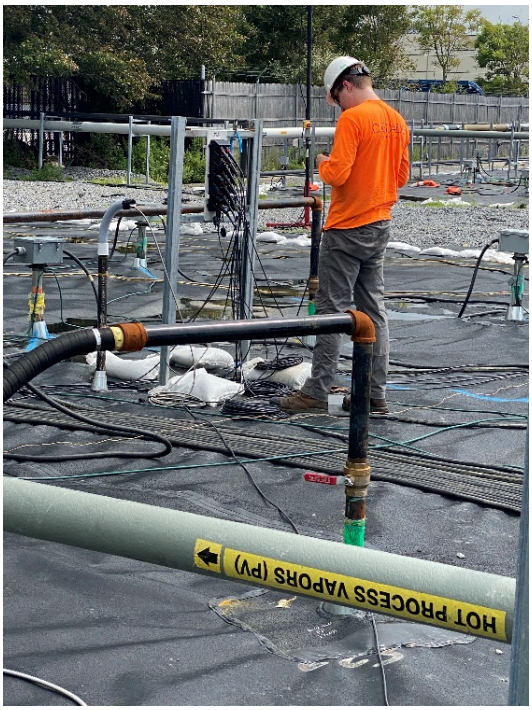
Location:
Wellfield

Photograph taken by:
REH

Date:
August 11, 2020

PHOTOGRAPH LOG – August 12, 2020

Northrop Grumman
OU3 VOC Source Area Remedy
Bethpage Community Park



Photograph: 1

Description: Conducting TMP tests.

Location:
Wellfield

Photograph taken by:
REH

Date:
August 12, 2020

PHOTOGRAPH LOG – August 13, 2020

Northrop Grumman
OU3 VOC Source Area Remedy
Bethpage Community Park

Photograph: 1

Description: Installed air monitoring station AMP-1.

Location:
Wellfield

Photograph taken by:
REH

Date:
August 13, 2020

PHOTOGRAPH LOG – August 14, 2020

Northrop Grumman
OU3 VOC Source Area Remedy
Bethpage Community Park

Photograph: 1

Description: Installation of electrical connections for permanent air monitoring stations.

Location:
Wellfield

Photograph taken by:
REH

Date:
August 14, 2020

Photograph: 2

Description: Installed air monitoring station AMP-4.

Location:
Wellfield

Photograph taken by:
REH

Date:
August 14, 2020

PHOTOGRAPH LOG – August 14, 2020

Northrop Grumman
OU3 VOC Source Area Remedy
Bethpage Community Park

Photograph: 3

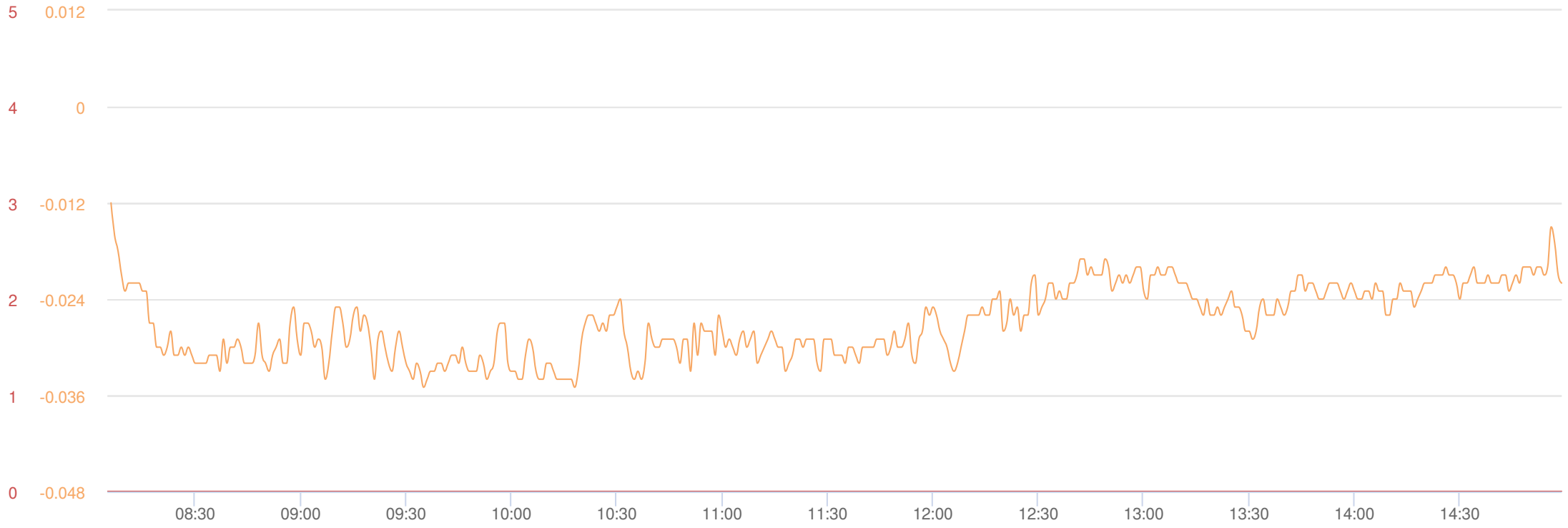
Description: Installation of insulation on piping with heat trace.

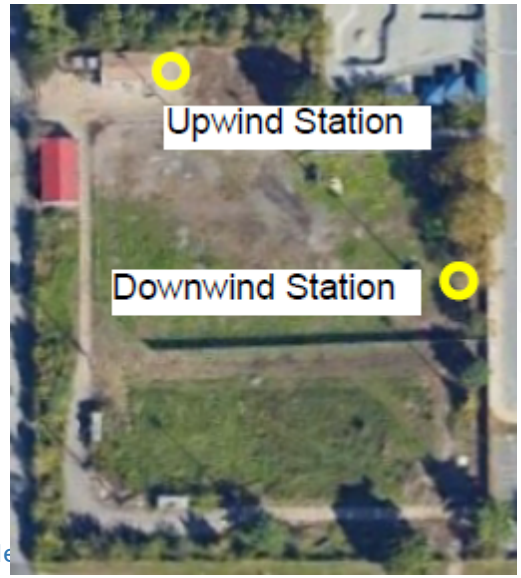
Location:
Wellfield

Photograph taken by:
REH

Date:
August 14, 2020

08/10/2020 0:00:35 – 08/11/2020 0:00:00
(GMT-05:00) Eastern Time (US & Canada)





Mass Conc. Total mg/m³
DustTrak-8530
RS232(C)

MIN	AVG	MAX
-0.035	-0.027	-0.012

VOC ppm
miniRAE 3000
RS232(A)

MIN	AVG	MAX
0	0	0

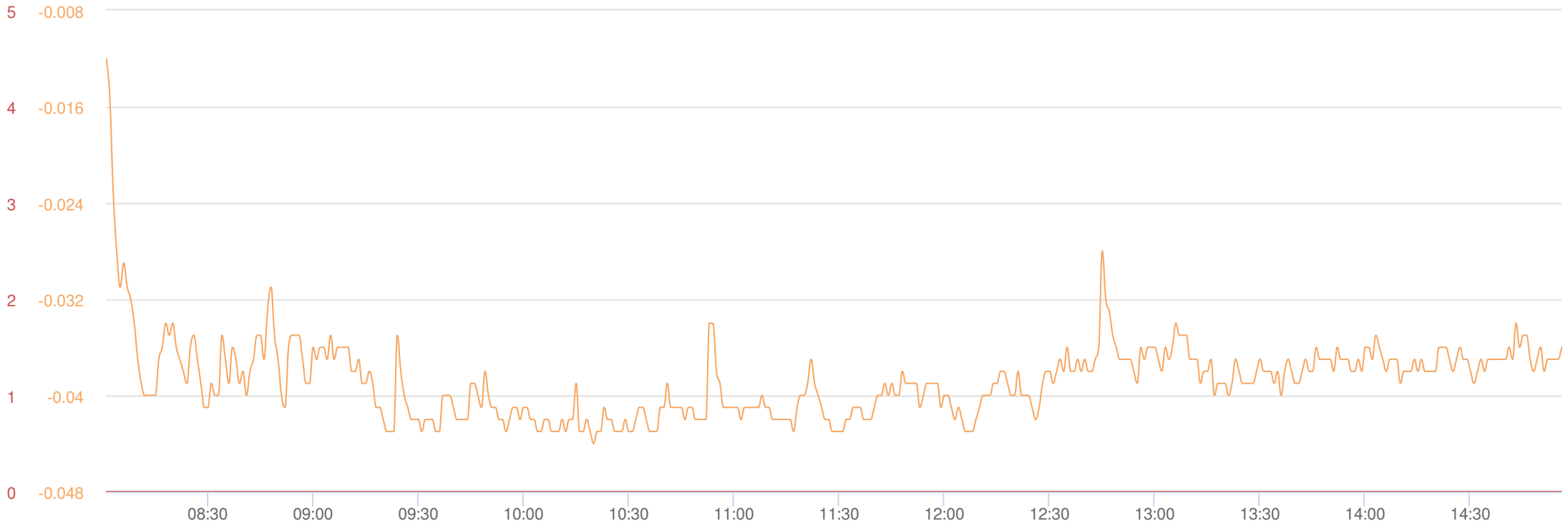
NYSDEC DER-10 CAMP action levels:

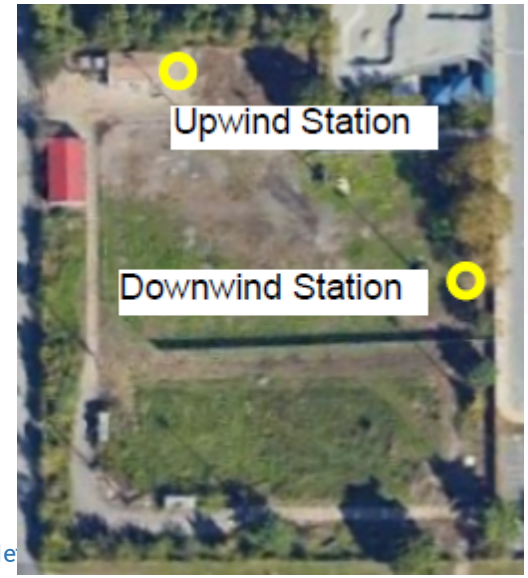
- Particulates (DustTrak reading, shown as orange line and orange y-axis scale): 0.1 mg/m3 (15-minute average)
- TVOCs (miniRAE PID reading, shown as red line and red y-axis scale): 5 ppm (15-minute average)

Short-term peaks of DustTrak and miniRAE readings are common during instrument setup at the beginning of the workday, and during manual calibration/detection checks throughout the day.

Name 41147 - Upwind
S/N 0B357066
Location Bethpage Community Park, 1001 Stewart Ave, Bethpage, NY 11714, USA

08/10/2020 0:00:16 – 08/11/2020 0:00:00
(GMT-05:00) Eastern Time (US & Canada)





Mass Conc. Total mg/m³
DustTrak-8530
RS232(C)

MIN	AVG	MAX
-0.044	-0.039	-0.012

VOC ppm
miniRAE 3000
RS232(A)

MIN	AVG	MAX
0	0	0

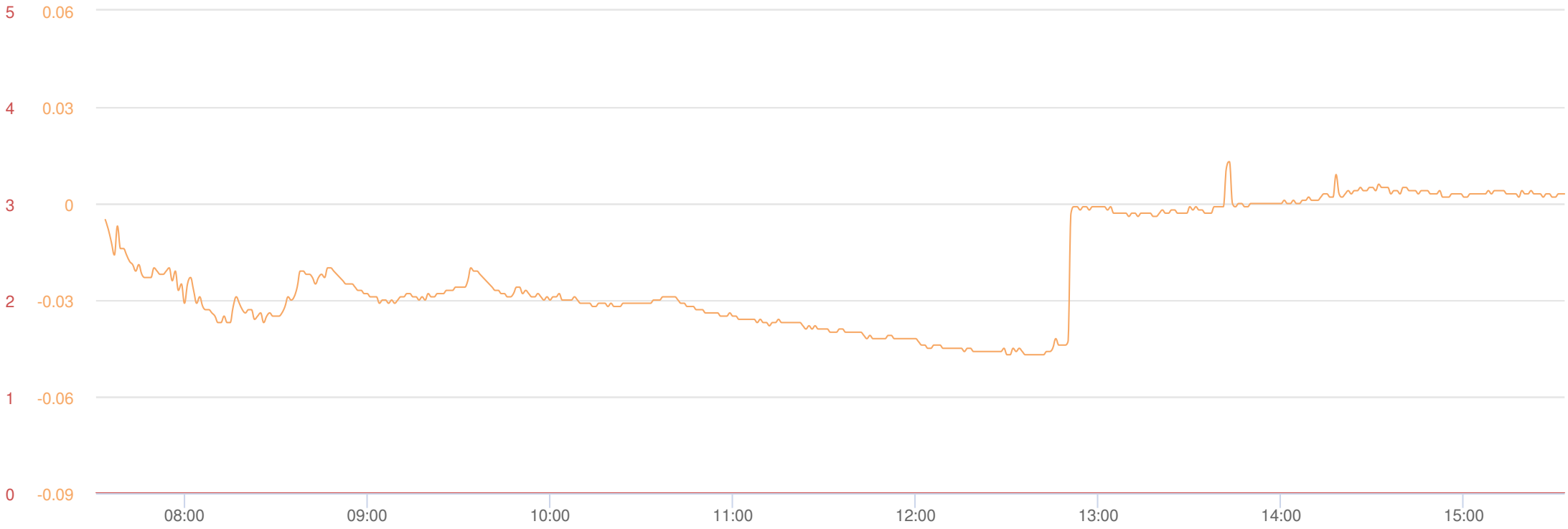
NYSDEC DER-10 CAMP action levels:

- Particulates (DustTrak reading, shown as orange line and orange y-axis scale): 0.1 mg/m3 (15-minute average)
- TVOCs (miniRAE PID reading, shown as red line and red y-axis scale): 5 ppm (15-minute average)

Short-term peaks of DustTrak and miniRAE readings are common during instrument setup at the beginning of the workday, and during manual calibration/detection checks throughout the day.

Name 39875 - Downwind
S/N 0B333738
Location Bethpage Community Park, 1001 Stewart Ave, Bethpage, NY 11714, USA

Tue, 11th of Aug 2020, 0:00:00 – 17:40:44
(GMT-05:00) Eastern Time (US & Canada)



Mass Conc. Total mg/m³
DustTrak-8530
RS232(C)

MIN	AVG	MAX
-0.047	-0.021	0.013

VOC ppm
miniRAE 3000
RS232(A)

MIN	AVG	MAX
0	0	0

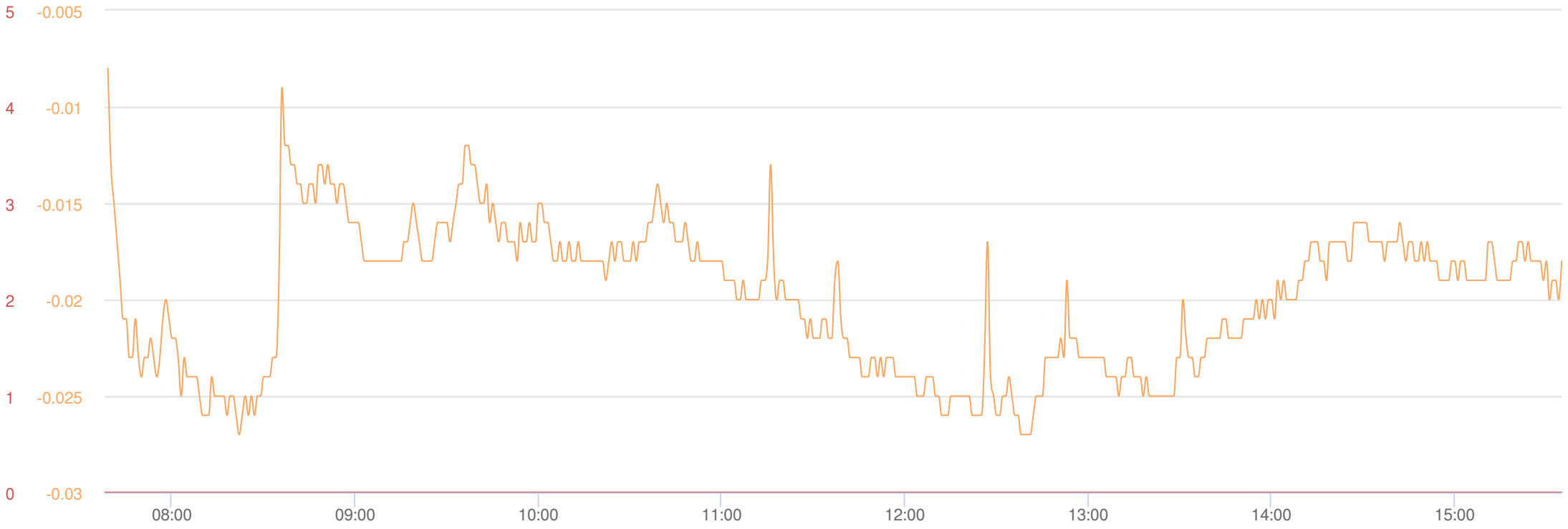
NYSDEC DER-10 CAMP action levels:

- Particulates (DustTrak reading, shown as orange line and orange y-axis scale): 0.1 mg/m3 (15-minute average)
- TVOCs (miniRAE PID reading, shown as red line and red y-axis scale): 5 ppm (15-minute average)

Short-term peaks of DustTrak and miniRAE readings are common during instrument setup at the beginning of the workday, and during manual calibration/detection checks throughout the day.

Name 41147 - Upwind
S/N 0B357066
Location Bethpage Community Park, 1001 Stewart Ave, Bethpage, NY 11714, USA

Tue, 11th of Aug 2020, 0:00:00 – 17:39:50
(GMT-05:00) Eastern Time (US & Canada)



Mass Conc. Total mg/m³
DustTrak-8530
RS232(C)

MIN	AVG	MAX
-0.027	-0.02	-0.008

VOC ppm
miniRAE 3000
RS232(A)

MIN	AVG	MAX
0	0	0

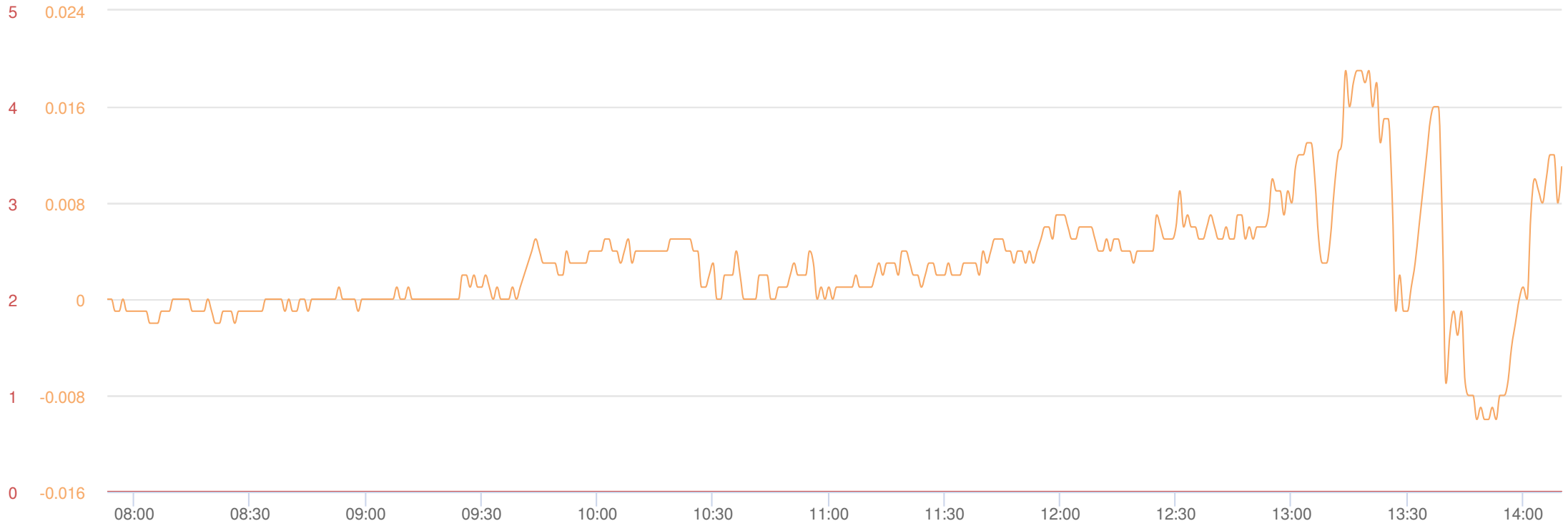
NYSDEC DER-10 CAMP action levels:

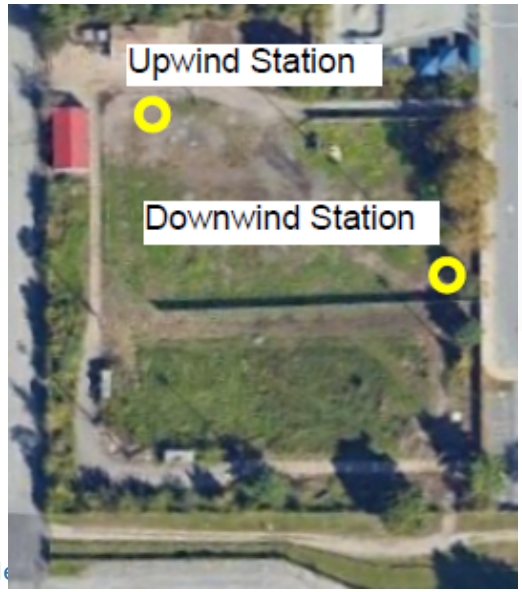
- Particulates (DustTrak reading, shown as orange line and orange y-axis scale): 0.1 mg/m3 (15-minute average)
- TVOCs (miniRAE PID reading, shown as red line and red y-axis scale): 5 ppm (15-minute average)

Short-term peaks of DustTrak and miniRAE readings are common during instrument setup at the beginning of the workday, and during manual calibration/detection checks throughout the day.

Name 39875 - Downwind
S/N 0B333738
Location Bethpage Community Park, 1001 Stewart Ave, Bethpage, NY 11714, USA

Wed, 12th of Aug 2020, 0:00:00 – 16:59:55
(GMT-05:00) Eastern Time (US & Canada)





Mass Conc. Total mg/m³
DustTrak-8530
RS232(C)

MIN	AVG	MAX
-0.01	0.003	0.019

VOC ppm
miniRAE 3000
RS232(A)

MIN	AVG	MAX
0	0	0

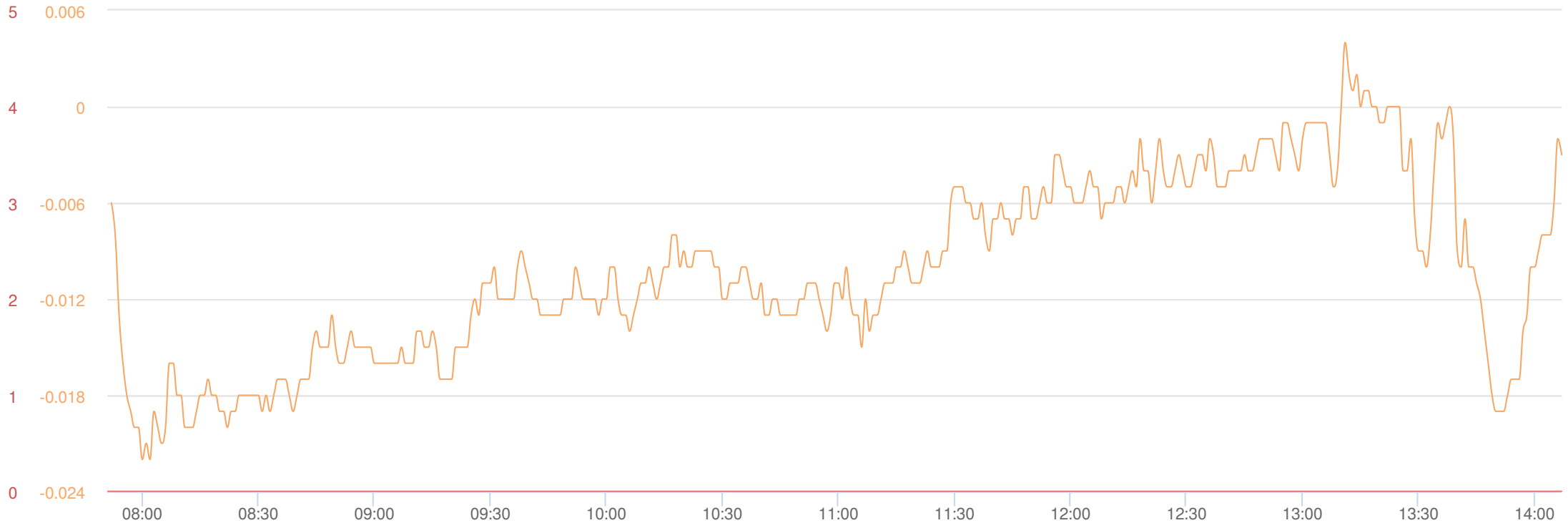
NYSDEC DER-10 CAMP action levels:

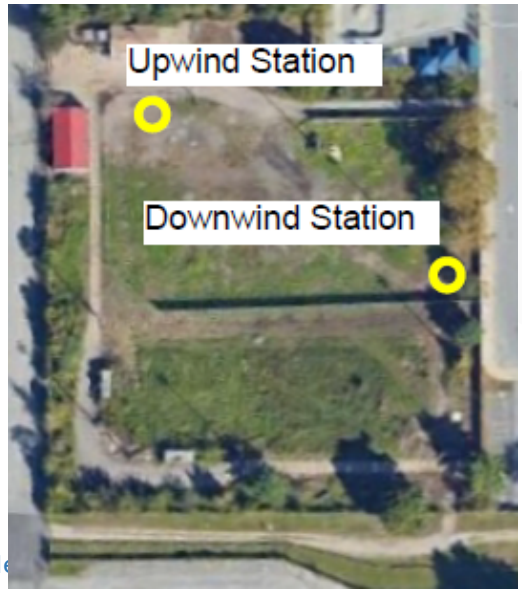
- Particulates (DustTrak reading, shown as orange line and orange y-axis scale): 0.1 mg/m3 (15-minute average)
- TVOCs (miniRAE PID reading, shown as red line and red y-axis scale): 5 ppm (15-minute average)

Short-term peaks of DustTrak and miniRAE readings are common during instrument setup at the beginning of the workday, and during manual calibration/detection checks throughout the day.

Name 41147 - Upwind
S/N 0B357066
Location Bethpage Community Park, 1001 Stewart Ave, Bethpage, NY 11714, USA

Wed, 12th of Aug 2020, 0:00:00 – 16:59:11
(GMT-05:00) Eastern Time (US & Canada)





Mass Conc. Total mg/m³
DustTrak-8530
RS232(C)

MIN	AVG	MAX
-0.022	-0.01	0.004

VOC ppm
miniRAE 3000
RS232(A)

MIN	AVG	MAX
0	0	0

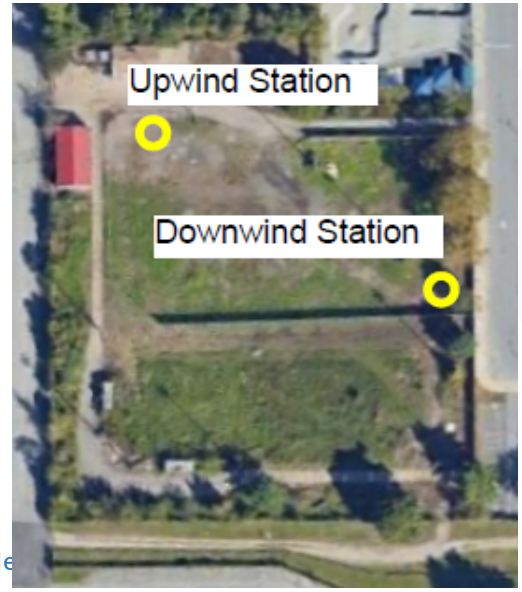
NYSDEC DER-10 CAMP action levels:

- Particulates (DustTrak reading, shown as orange line and orange y-axis scale): 0.1 mg/m3 (15-minute average)
- TVOCs (miniRAE PID reading, shown as red line and red y-axis scale): 5 ppm (15-minute average)

Short-term peaks of DustTrak and miniRAE readings are common during instrument setup at the beginning of the workday, and during manual calibration/detection checks throughout the day.

Name 39875 - Downwind
S/N 0B333738
Location Bethpage Community Park, 1001 Stewart Ave, Bethpage, NY 11714, USA

08/13/2020 0:00:06 – 08/14/2020 0:00:00
(GMT-05:00) Eastern Time (US & Canada)



Mass Conc. Total mg/m³
DustTrak-8530
RS232(C)

MIN	AVG	MAX
-0.029	-0.018	0.013

VOC ppm
miniRAE 3000
RS232(A)

MIN	AVG	MAX
N/A	N/A	N/A

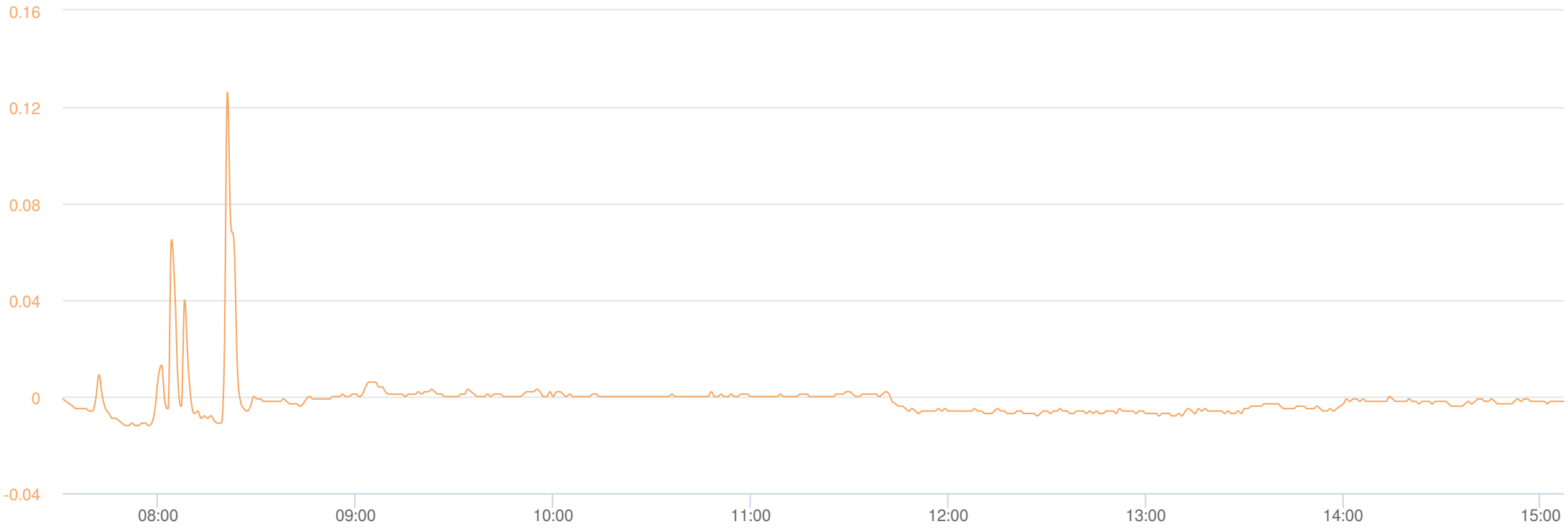
NYSDEC DER-10 CAMP action levels:

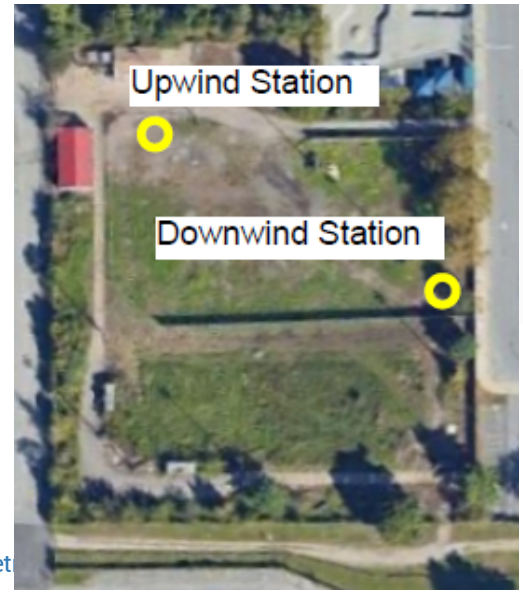
- Particulates (DustTrak reading, shown as orange line and orange y-axis scale): 0.1 mg/m3 (15-minute average)
- TVOCs (miniRAE PID reading, shown as red line and red y-axis scale): 5 ppm (15-minute average)

Short-term peaks of DustTrak and miniRAE readings are common during instrument setup at the beginning of the workday, and during manual calibration/detection checks throughout the day.

Name 41147 - Upwind
S/N 0B357066
Location Bethpage Community Park, 1001 Stewart Ave, Bethpage, NY 11714, USA

08/13/2020 0:00:47 – 08/14/2020 0:00:00
(GMT-05:00) Eastern Time (US & Canada)





Mass Conc. Total mg/m³
DustTrak-8530
RS232(C)

MIN	AVG	MAX
-0.012	-0.001	0.126

VOC ppm
miniRAE 3000
RS232(A)

MIN	AVG	MAX
N/A	N/A	N/A

NYSDEC DER-10 CAMP action levels:

- Particulates (DustTrak reading, shown as orange line and orange y-axis scale): 0.1 mg/m3 (15-minute average)
- TVOCs (miniRAE PID reading, shown as red line and red y-axis scale): 5 ppm (15-minute average)

Short-term peaks of DustTrak and miniRAE readings are common during instrument setup at the beginning of the workday, and during manual calibration/detection checks throughout the day.

Name 39875 - Downwind
S/N 0B333738
Location Bethpage Community Park, 1001 Stewart Ave, Bethpage, NY 11714, USA

Table 1, ISTR Cumulative Progress 2020 08 13

Date: *13-Aug-20*	*Design Total*		*Cumulative Total*		*Est. Percent Complete*	*Comments/Notes*
Vertical & Horizontal Pipe Installation						
Heater Welded	188	ea	188	ea	100%	
Heaters installed	178	ea	178	ea	100%	
Temperature Monitoring Point (TMP)	18	ea	18	ea	100%	
Temperature/Pressure Monitoring Point (TPMP)	6	ea	6	ea	100%	
Vapor Extraction (Trenching)	400	ft	400	ft	100%	Trench to key-in HDPE liner on south and west sides
Vapor Extraction Well (VEW)	39	ea	39	ea	100%	
Horizontal Extraction Wells (HEW)	20	ea	20	ea	100%	
Multi-Phase Extraction Well (MPE)	3	ea	3	ea	100%	
Surface Cover Construction						
5/8-in stone	32178	ft^2	32178	ft^2	100%	
Geotextile	32178	ft^2	32178	ft^2	100%	
DGA Layer	32178	ft^2	32178	ft^2	100%	
HDPE Liner	32178	ft^2	32178	ft^2	100%	
Manifold Installation						
Vapor Manifold	1315	ft	1315	ft	100%	3-, 6-, and 12-inch fiber reinforced plastic vapor
Expansion Joints	2	ea	2	ea	100%	
Liquid Manifold	1200	ft	1200	ft	100%	2-inch carbon steel water lines
Air Manifold	900	ft	900	ft	100%	1-inch carbon steel compressed air
Wellhead and Equipment Installation						
Vapor Extraction Wellheads (including HVEW)	59	ea	59	ea	100%	
Pressure Monitoring Point Wellheads	6	ea	6	ea	100%	
Temperature Monitoring Point Wellheads	18	ea	18	ea	100%	
Multi-phase Extraction Wellheads	3	ea	3	ea	100%	
Electrical Installation						
Liners	178	ea	178	ea	100%	
Heater Wellheads	178	ea	178	ea	100%	
Power Jumper Cables	170	ea	170	ea	100%	
Ground Jumper Cables	170	ea	170	ea	100%	
Homerun Power Cables	4500	ft	4500	ft	100%	
McKay Field Treatment Plant Installation						
McKay Field Grading and preparation	-	-	-	-	100%	
Process equipment at McKay Field	-	-	-	-	100%	Tier 1s, chiller, generator, frac tanks, electrical gear in place
Liquid effluent line connection to OU3	1	ea	1	ea	100%	
Vapor phase effluent stack	1	ea	1	ea	100%	
Fencing around McKay Rd. vault	1	ea	1	ea	100%	

Notes: Except for 3 additional TPMPs, the casing for the heater wells. TPMPs, TMPs, VEW, MPE and SIW were installed in prior mobilizations.
Steam injection wells, while already drilled, are a contingency measure. Their components will only be installed if needed.