Pelton, Jason M (DEC)

From: Doug Smolensky <dsmolensky@emagin-inc.com>
Sent: Wednesday, July 15, 2020 10:30 AM
To: Pelton, Jason M (DEC); Hesler, Donald (DEC); doh.sm.BEEI; Richard Lenz; mrusso@OYSTERBAY-NY.gov
Cc: edward.hannon@ngc.com; Weber, Fred [US] (AS); Joel Balmat; Jose Sananes; Carol Henry Emery; Bill Lais; Baumert-Moyik, Dianne C [US] (AS)
Subject: Park Soil ISTR Construction Weekly Progress Summary, Week of 2020 06 29
Attachments: ISTR Phase 2 Cumulative Progress thru 2020 07 03.pdf; ISTR Phase 2 Photo Log week of 2020 06 29.pdf; CAMP Stations Data Week of 2020 06 29.pdf

Weekly Progress Summary for ISTR Construction
Northrop Grumman Systems, Corp.
Operable Unit 3, Bethpage, NY
Reporting Period: June 29 – July 3, 2020

Work completed:

- Continued assembling/installing wellfield process piping support stands.
- Continued installing process piping (1-in carbon steel compressed air, 3-, 6- and 12-in fiber reinforced plastic vapor, and 2-in carbon steel water lines) in the wellfield.
- Continued welding of thermocouples and heating elements.
- Began installing heater wiring boxes to tops of heater elements.
- Began installing assembled heater elements at heater wells. A total of 27 were installed this week.
- Completed fence modifications around process piping vault on east side of McKay Field Access Road and behind TOB shed.

Cumulative progress:

See attached file – *ISTR Phase 2 Cumulative Progress thru 2020 07 03.pdf*

Materials imported:

- None.

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.
- Particulate and TVOC data plots for upwind and downwind CAMP stations attached.
- Elevated particulate readings on 6/30 were the result of a moving vehicle in the ballfield area near the downwind station. Particulate concentrations dropped to 0.1 mg/m^3 above background within minutes.

Analytical results:
No samples collected for lab analysis.

Wastes generated/disposed:
- Six soil drums of IDW were generated on 6/29 from the McKay Access Road fence installation surrounding the process piping vault.
- Decontamination fluids and personal protective equipment containerized onsite in 55-gallon drums.
- General construction debris placed in a 30-yard roll off at McKay Field.
- No offsite disposal.

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:
- Work planned for week of July 6 through July 11, 2020:
  - Continue assembling and placing wellfield support stands and process piping.
  - Continue welding of thermocouples and heating elements, and attaching wellhead heater boxes.
  - Continue installing heating elements in heater wells.
  - Receive process chiller and emergency generator.

PHOTOGRAPH LOG – June 29, 2020

Northrop Grumman
OU3 VOC Source Area Remedy
Bethpage Community Park

Photograph: 1

Description: Assembled heater wellhead boxes

Location:
Wellfield looking south

Photograph taken by:
EMAGIN

Date:
June 29, 2020

Photograph: 2

Description: Assembled heater wellhead box

Location:
Wellfield looking south

Photograph taken by:
EMAGIN

Date:
June 29, 2020

PHOTOGRAPH LOG – June 29, 2020

Northrop Grumman
OU3 VOC Source Area Remedy
Bethpage Community Park

Photograph: 3

Description: Staged drums

Location:
McKay Field

Photograph taken by:
EMAGIN

Date:
June 29, 2020

PHOTOGRAPH LOG – June 30, 2020

Northrop Grumman
OU3 VOC Source Area Remedy
Bethpage Community Park

Photograph: 1

Description: Fence installation around McKay Field Access Road process piping vault

Location:
looking east on McKay Field Access Road

Photograph taken by:
EMAGIN

Date:
June 30, 2020

Photograph: 2

Description: Installation of heater element into heater well

Location: Wellfield

Photograph taken by:
EMAGIN

Date:
June 30, 2020

PHOTOGRAPH LOG – June 30, 2020

Northrop Grumman
OU3 VOC Source Area Remedy
Bethpage Community Park

Photograph: 3

Description: Installed heater element in heater well

Location:
Wellfield

Photograph taken by:
EMAGIN

Date:
June 30, 2020

PHOTOGRAPH LOG – July 1, 2020

Northrop Grumman
OU3 VOC Source Area Remedy
Bethpage Community Park

Photograph: 1

Description: Installed heater and wellhead electrical box

Location:
Wellfield

Photograph taken by:
EMAGIN

Date:
July 1, 2020

Photograph: 2

Description: Assembled heating elements (note each is specific to a heater well)

Location:
Wellfield area

Photograph taken by:
EMAGIN

Date:
July 1, 2020

PHOTOGRAPH LOG – July 1, 2020

Northrop Grumman
OU3 VOC Source Area Remedy
Bethpage Community Park

Photograph: 3

Description: Welded heater elements with liners

Location:
Northeast corner of the wellfield looking west

Photograph taken by:
EMAGIN

Date:
July 1, 2020

PHOTOGRAPH LOG – July 2, 2020

Northrop Grumman
OU3 VOC Source Area Remedy
Bethpage Community Park

Photograph: 1

Description: Installing a heater wellhead electrical box

Location:
Wellfield

Photograph taken by:
EMAGIN

Date:
July 2, 2020

Photograph: 2

Description: View of electrical port on a heater wellhead

Location:
Wellfield

Photograph taken by:
EMAGIN

Date:
July 2, 2020

PHOTOGRAPH LOG – July 3, 2020

Northrop Grumman
OU3 VOC Source Area Remedy
Bethpage Community Park

EMAGIN
Creative Environmental Solutions

RE US ENGINEERS

Photograph: 1

Description: Installing the heating element in a heater well

Location:
Wellfield

Photograph taken by:
EMAGIN

Date:
July 3, 2020

Photograph: 2

Description: Typical heater well identification label

Location:
Wellfield

Photograph taken by:
EMAGIN

Date:
July 3, 2020

PHOTOGRAPH LOG – July 3, 2020

Northrop Grumman
OU3 VOC Source Area Remedy
Bethpage Community Park

EMAGIN
Creative Environmental Solutions
RE US ENGINEERS

Photograph: 3

Description: Demobilizing the JCB 507-42 Telescopic Forklift

Location:
McKay Field Access Road

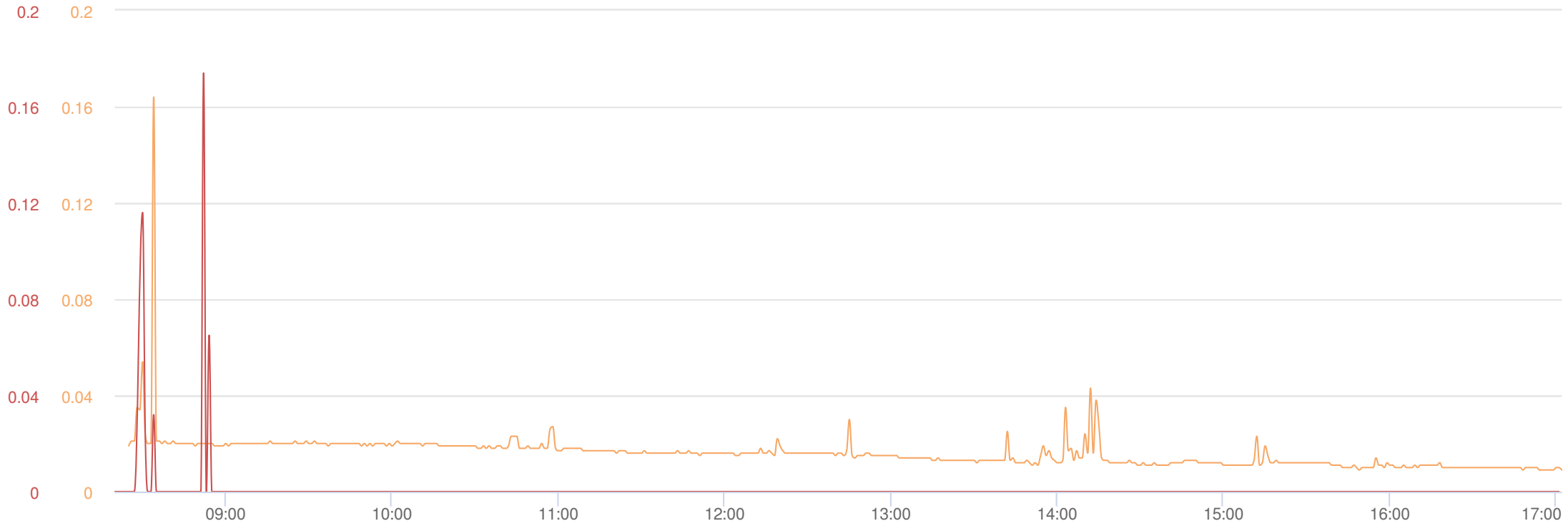
Photograph taken by:
EMAGIN

Date:
July 3, 2020

Date: *July 3, 2020*	*Design Total*		*Cumulative Total*		*Est. Percent Complete*	*Comments/Notes*
Vertical & Horizontal Pipe Installation						
Heater Welded	180	ea	151	ea	80%	
Heaters installed	178	ea	27	ea	10%	
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%	
Steam Injection Well (SIW)	3	ea	0	ea	0%	
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	90%	Liner to be keyed-in on the north and east sides
Manifold Installation						
Vapor Manifold	1315	ft	650	ft	40%	
Expansion Joints	2	ea	2	ea	100%	
Liquid Manifold	1200	ft	870	ft	70%	
Air Manifold	900	ft	870	ft	90%	
Wellhead Installation						
Vapor Extraction Wellheads (inlcuding HVEW)	59	ea	0	ea	0%	
Pressure Monitoring Point Wellheads	6	ea	0	ea	0%	
Temperature Monitoring Point Wellheads	18	ea	0	ea	0%	
Multi-phase Extraction Wellheads	3	ea	0	ea	0%	
Electrical Installation						
Liners	178	ea	0	ea	0%	
Heaters	178	ea	0	ea	0%	
Heater Wellheads	178	ea	0	ea	0%	
Power Jumper Cables	170	ea	0	ea	0%	
Ground Jumper Cables	170	ea	0	ea	0%	
Homerun Power Cables	4500	ft	0	ft	0%	
McKay Field Treatment Plant Installation						
McKay Field Grading and preparation	-	-	-	-	90%	Minor grading required prior to process equipment placement
Process equipment at McKay Field	-	-	-	-	10%	Tier 1 equipment trailers in-place
Liquid effluent line connection to OU3	1	ea	0	ea	0%	
Vapor phase effluent stack	1	ea	0	ea	0%	
Fencing around McKay Rd. vault	1	ea	0	ea	0%	

Notes: Except for 3 additonal TPMPs, the casing for the heater wells. TPMPs, TMPs, VEW, MPE and SIW were installed in prior mobilizations.

06/29/2020 0:00:52 – 06/30/2020 0:00:00
(GMT-05:00) Eastern Time (US & Canada)



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

MIN	AVG	MAX
0.009	0.016	0.164

VOC ppm
miniRAE 3000
RS232(A)

MIN	AVG	MAX
0	0.001	0.174

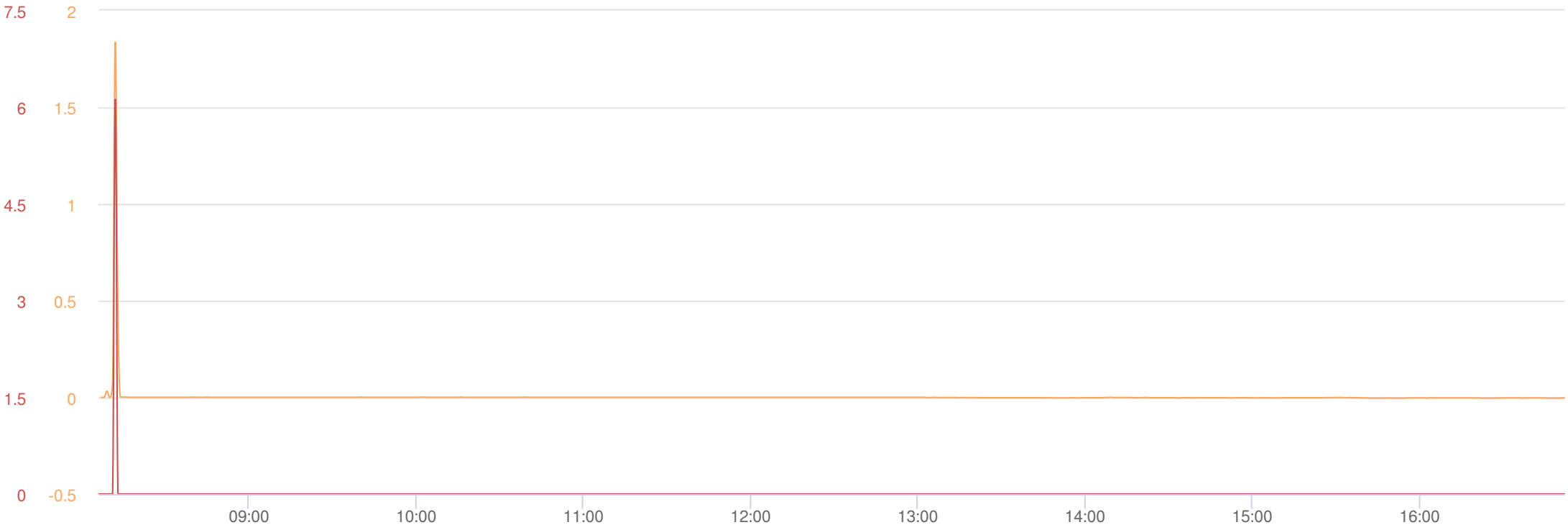
NYSDEC DER-10 CAMP action levels:

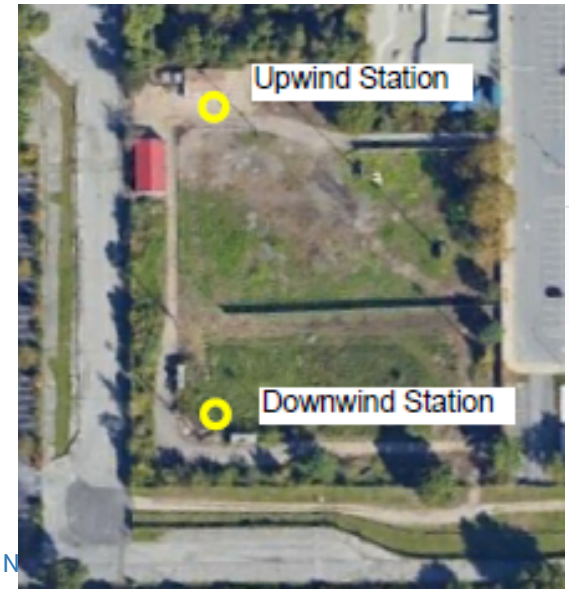
- Particulates (DustTrak reading, shown as orange line and orange y-axis scale): 0.1 mg/m3 (15-minute average)
- TVOCs (miniRAE PID reading, shown as red line and red y-axis scale): 5 ppm (15-minute average)

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

06/29/2020 0:00:39 – 06/30/2020 0:00:00
(GMT-05:00) Eastern Time (US & Canada)





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

MIN	AVG	MAX
-0.004	0.003	1.836

VOC ppm
miniRAE 3000
RS232(A)

MIN	AVG	MAX
0	0.012	6.12

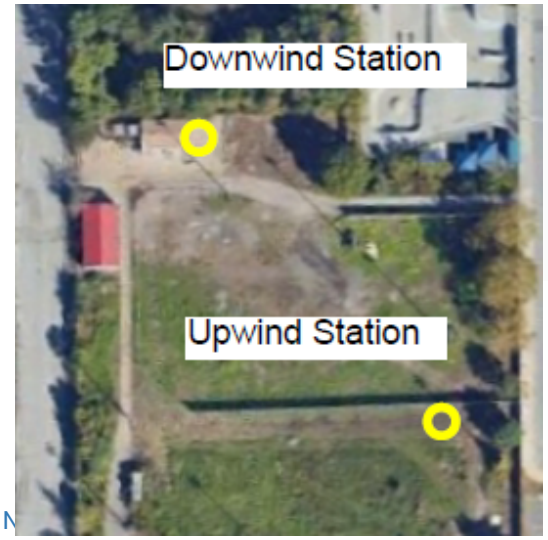
NYSDEC DER-10 CAMP action levels:

- 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

06/30/2020 0:00:41 – 07/01/2020 0:00:00
(GMT-05:00) Eastern Time (US & Canada)



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

MIN	AVG	MAX
0.002	0.006	0.029

VOC ppm
miniRAE 3000
RS232(A)

MIN	AVG	MAX
0	0.077	1.822

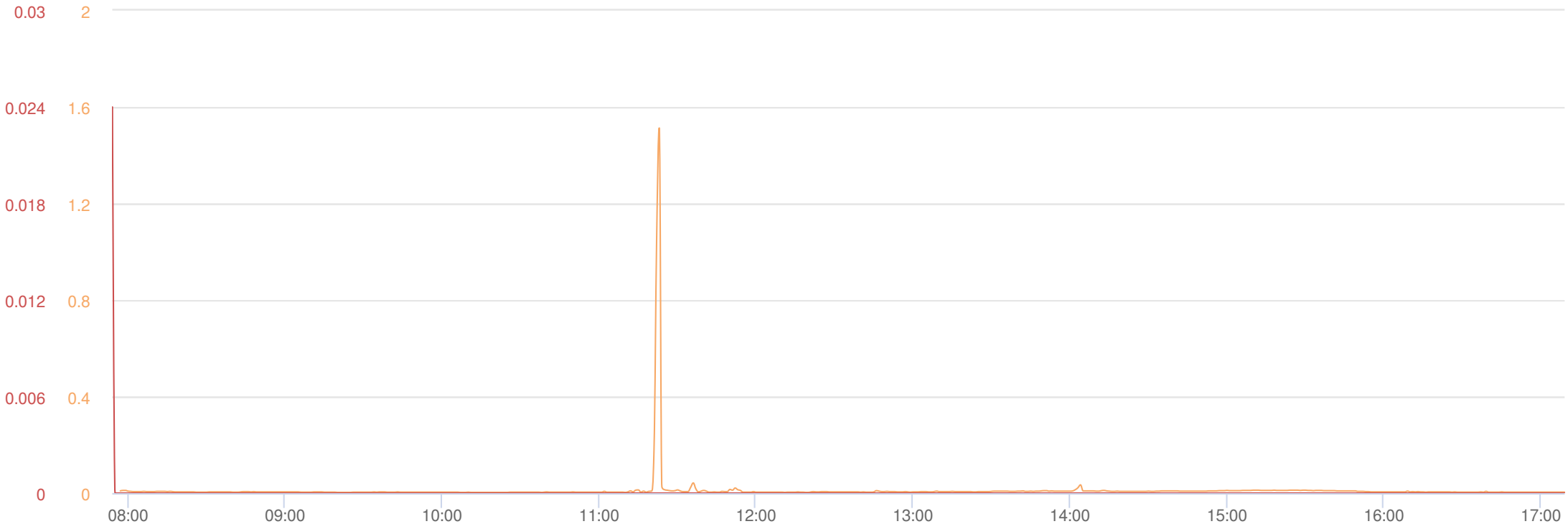
NYSDEC DER-10 CAMP action levels:

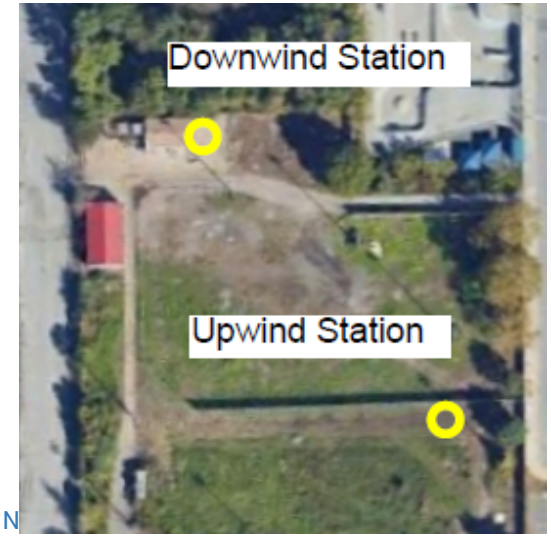
- Particulates (DustTrak reading, shown as orange line and orange y-axis scale): 0.1 mg/m3 (15-minute average)
- TVOCs (miniRAE PID reading, shown as red line and red y-axis scale): 5 ppm (15-minute average)

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

06/30/2020 0:00:31 – 07/01/2020 0:00:00
(GMT-05:00) Eastern Time (US & Canada)





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

MIN	AVG	MAX
0.003	0.011	1.513

VOC ppm
miniRAE 3000
RS232(A)

MIN	AVG	MAX
0	0	0.024

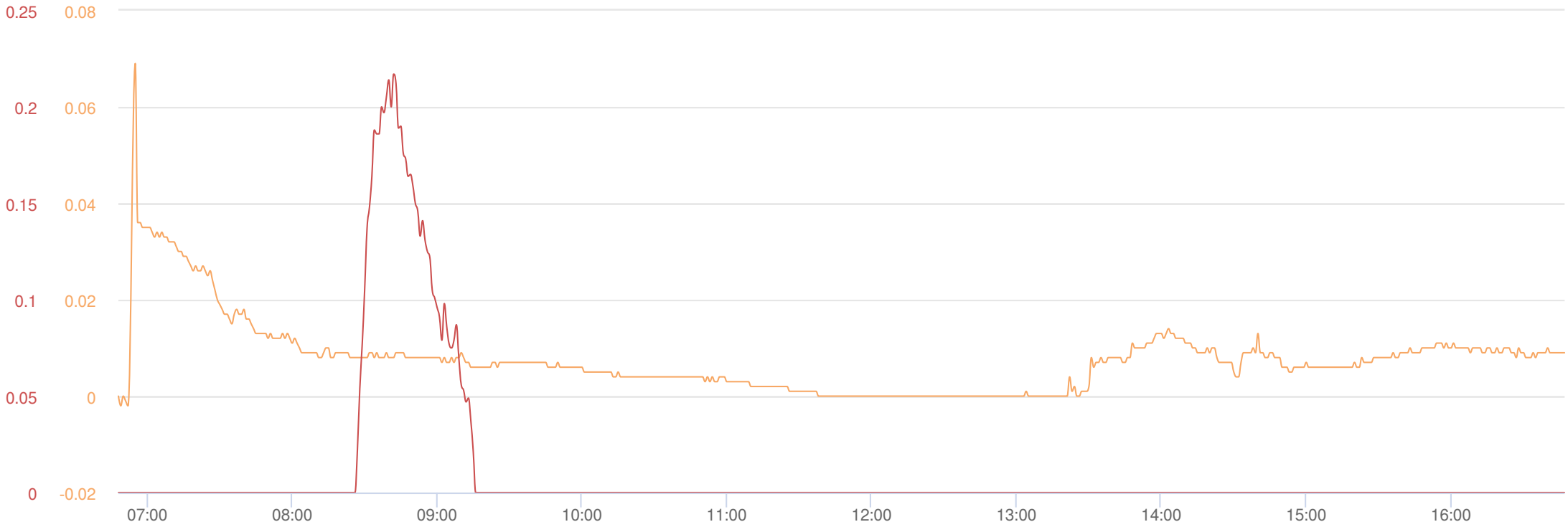
NYSDEC DER-10 CAMP action levels:

- 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

07/01/2020 0:00:28 – 07/02/2020 0:00:00
(GMT-05:00) Eastern Time (US & Canada)



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

MIN	AVG	MAX
-0.002	0.008	0.069

VOC ppm
miniRAE 3000
RS232(A)

MIN	AVG	MAX
0	0.01	0.217

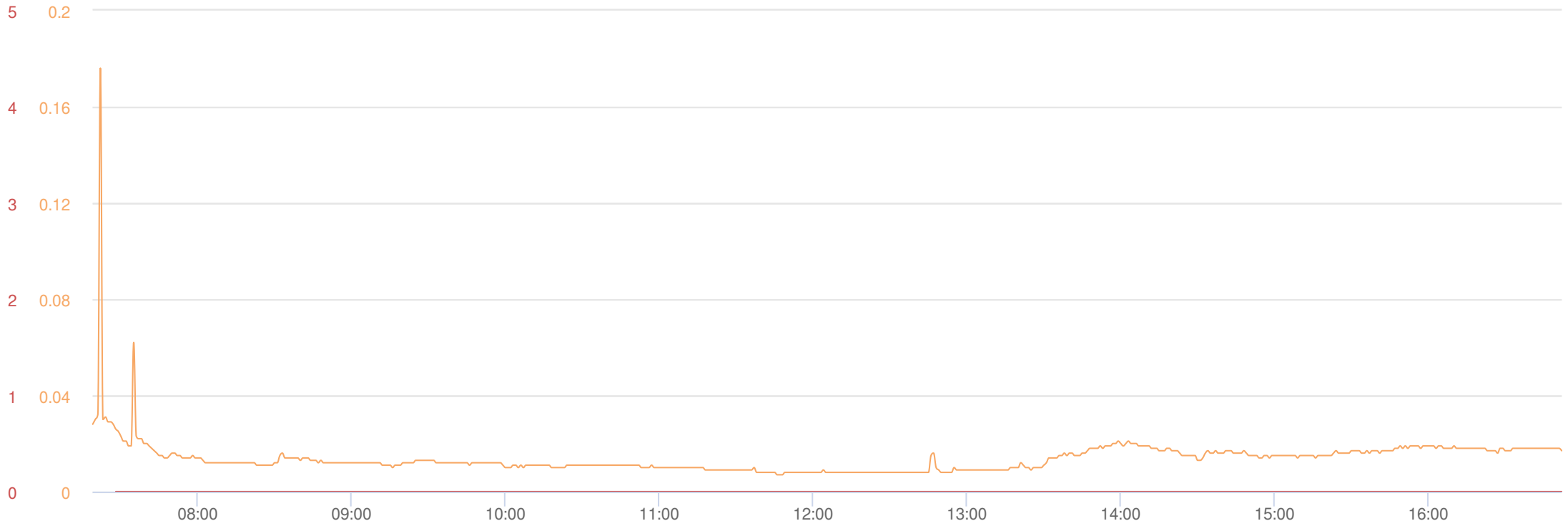
NYSDEC DER-10 CAMP action levels:

- 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

07/01/2020 0:00:45 – 07/02/2020 0:00:00
(GMT-05:00) Eastern Time (US & Canada)



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

MIN	AVG	MAX
0.007	0.014	0.176

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

07/02/2020 0:00:17 – 07/03/2020 0:00:00
(GMT-05:00) Eastern Time (US & Canada)

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

MIN	AVG	MAX
0	0.01	0.194

VOC ppm
miniRAE 3000
RS232(A)

MIN	AVG	MAX
0	0.003	1.666

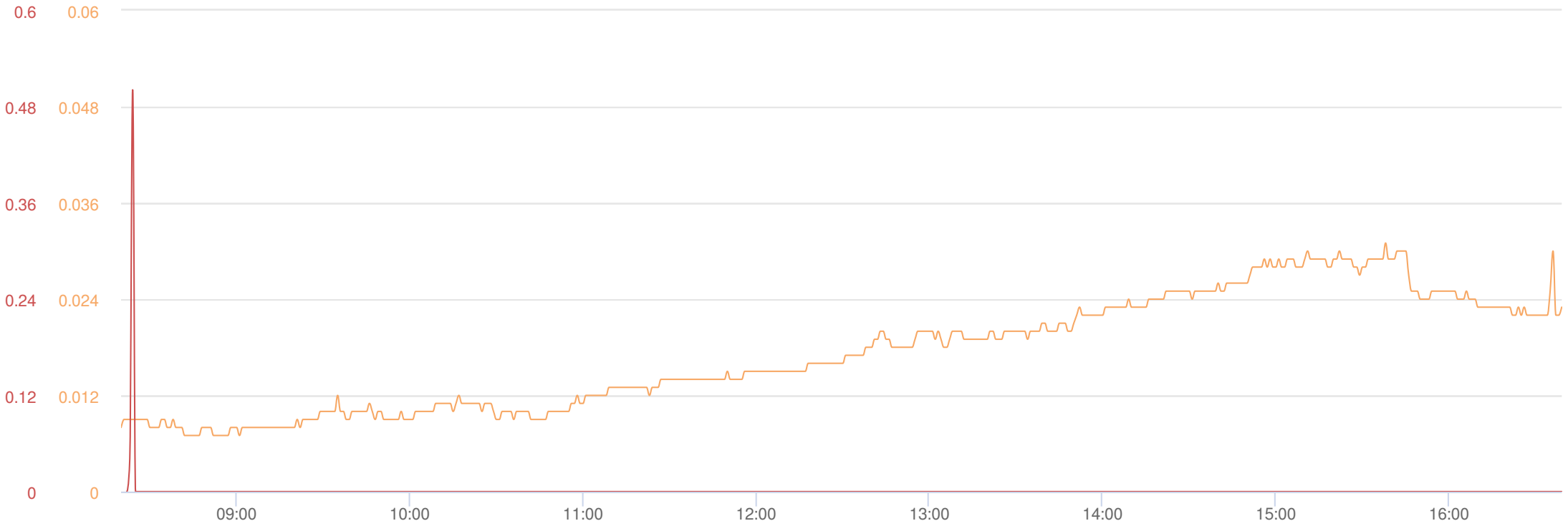
NYSDEC DER-10 CAMP action levels:

- 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

07/02/2020 0:00:52 – 07/03/2020 0:00:00
(GMT-05:00) Eastern Time (US & Canada)



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

MIN	AVG	MAX
0.007	0.017	0.031

VOC ppm
miniRAE 3000
RS232(A)

MIN	AVG	MAX
0	0.001	0.501

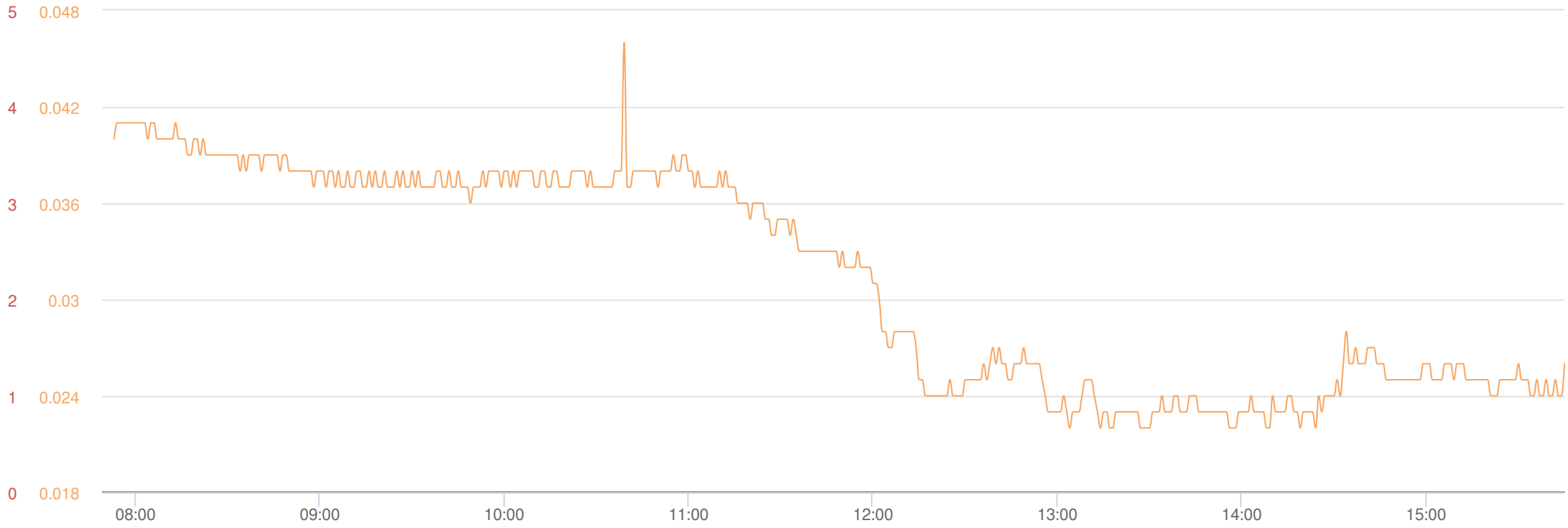
NYSDEC DER-10 CAMP action levels:

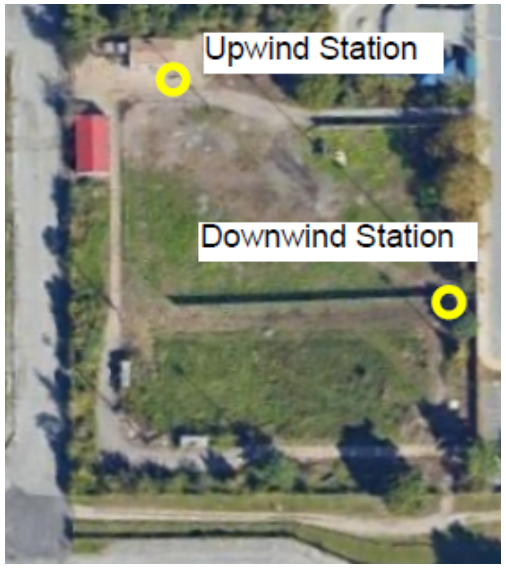
- Particulates (DustTrak reading, shown as orange line and orange y-axis scale): 0.1 mg/m3 (15-minute average)
- TVOCs (miniRAE PID reading, shown as red line and red y-axis scale): 5 ppm (15-minute average)

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

Fri, 3rd of Jul 2020, 6:17:00 – 21:17:00
(GMT-05:00) Eastern Time (US & Canada)





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

MIN	AVG	MAX
0.022	0.031	0.046

VOC ppm
miniRAE 3000
RS232(A)

MIN	AVG	MAX
0	0	0

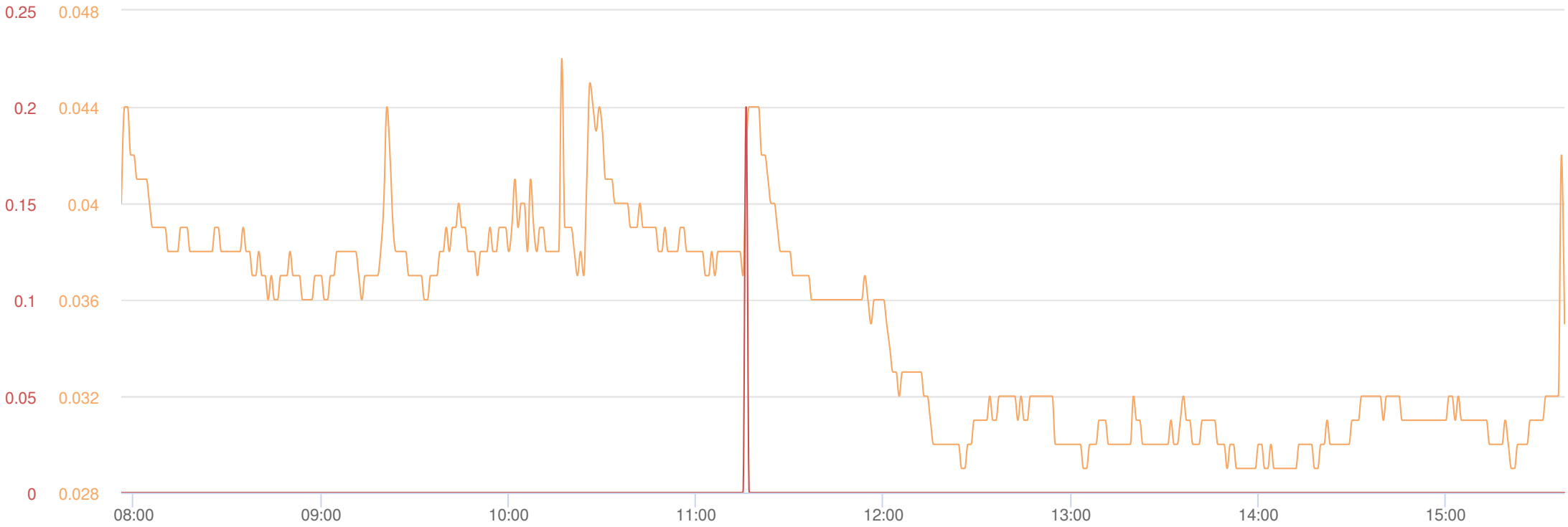
NYSDEC DER-10 CAMP action levels:

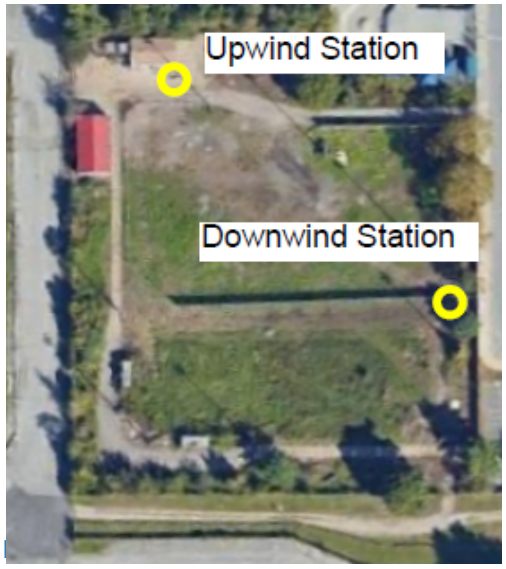
- Particulates (DustTrak reading, shown as orange line and orange y-axis scale): 0.1 mg/m3 (15-minute average)
- TVOCs (miniRAE PID reading, shown as red line and red y-axis scale): 5 ppm (15-minute average)

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

Fri, 3rd of Jul 2020, 6:16:00 – 21:16:00
(GMT-05:00) Eastern Time (US & Canada)





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

MIN	AVG	MAX
0.029	0.035	0.046

VOC ppm
miniRAE 3000
RS232(A)

MIN	AVG	MAX
0	0	0.2

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	268 N 7th St, Bethpage, NY 11714, USA