



**GZA GeoEnvironmental, Inc.**  
188 Valley Street, Suite 300  
Providence, Rhode Island 02909  
401.421.4140 (fax) 401.751.8613

## TRANSMITTAL

<b>To:</b>	Rhode Island Department of Environmental Management
	Office of Waste Management
	235 Promenade Street
	Providence, Rhode Island 02908

<b>Date:</b> 4/27/2020	<b>Job No.</b> 03.0033554.04
<b>Attention:</b> Mr. Joseph Martella	
<b>Re:</b> Liquefaction Facility Project	
STRAP Perimeter Air Quality Monitoring (AQM)	
121 Terminal Road/ 642 Allens Avenue	
Providence, Rhode Island	
Site Remediation File No. SR-28-1152	

### We are sending you:

<input type="checkbox"/> Shop Drawings	<input checked="" type="checkbox"/> Attached	<input type="checkbox"/> Change Order	<input type="checkbox"/> Samples
<input type="checkbox"/> Copy of Letter	<input type="checkbox"/> Prints	<input type="checkbox"/> Plans	<input type="checkbox"/> Specifications
<input type="checkbox"/> Under Separate Cover, the following Items:		via:	

### How Shipped:

<input checked="" type="checkbox"/> Via Email	<input type="checkbox"/> Courier	<input type="checkbox"/> Regular Mail	<input type="checkbox"/> Hand Delivered/Picked Up
---	----------------------------------	---------------------------------------	---

<b>Description</b>
Air Quality Monitoring (AQM) Results – Week of 4/20/2020 (4/20/2020, 4/21/2020, 4/22/2020, 4/23/2020, 4/24/2020, and 4/25/2020) AQM Station 1 Graph      AQM Station 4 Graph AQM Station 2 Graph      AQM Station 5 Graph AQM Station 3 Graph      AQM Station 6 Graph Summary Figure

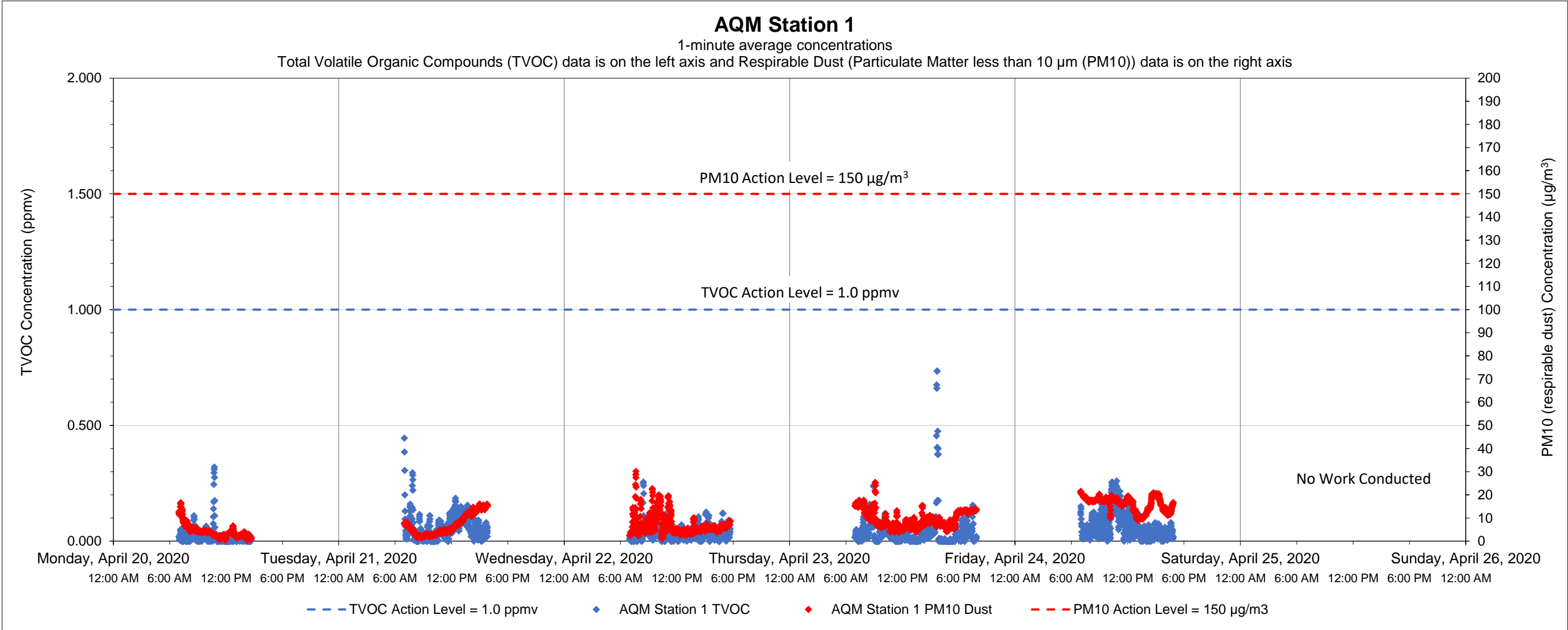
### THESE ARE TRANSMITTED as Checked Below:

<input type="checkbox"/>	For Approval	<input type="checkbox"/>	Approved as Submitted	<input type="checkbox"/>	Resubmit Copies for Approval
<input checked="" type="checkbox"/>	For Your Use	<input type="checkbox"/>	Approved as Noted	<input type="checkbox"/>	Submit Copies for Distribution
<input type="checkbox"/>	As Requested	<input type="checkbox"/>	Returned for Corrections	<input type="checkbox"/>	Return Corrected Prints
<input type="checkbox"/>	For Review and Comment	<input type="checkbox"/>		<input type="checkbox"/>	PRINTS RETURNED AFTER LOAN TO US
<input type="checkbox"/>	FOR BIDS DUE:	<input type="checkbox"/>		<input type="checkbox"/>	

### Comments:

<b>Copy To:</b>		<b>Signed:</b>	
Amy Willoughby - National Grid LNG LLC		Sara Haupt, P.E.	
William Howard - National Grid LNG LLC		Assistant Project Manager	

*If enclosures are not as noted, kindly notify us at once.*



Date	Time	Constituent	Observed Range of Sustained Readings	Response Actions Performed
None				

Equipment Notes
None

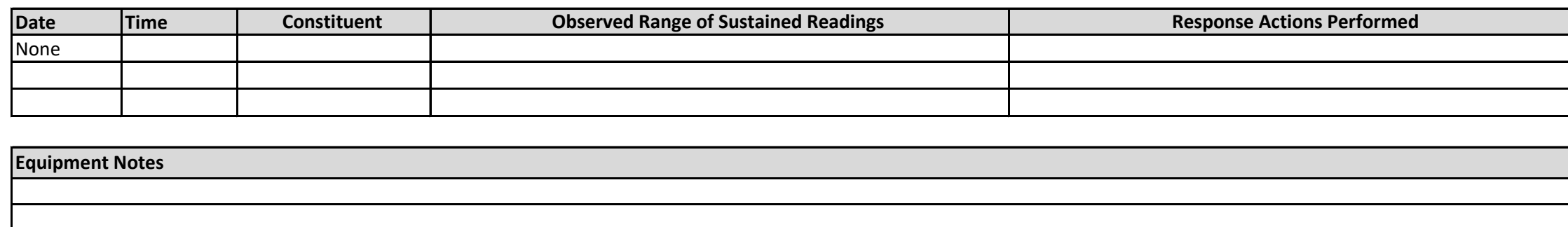
Data Summary Statistics		
TVOCs average concentration	0.04	ppm
TVOCs maximum concentration	0.73	ppm
TVOCs action level	1	ppm
PM10 average concentration	8.88	µg/m³
PM10 maximum concentration	30.14	µg/m³
PM10 action level	150	µg/m³

**Notes:**

1) Transient readings were conducted over a one minute time period. A reading is sustained if it is held for over a five minute time period.

2) The location of each AQM Station is presented on the attached summary figure.

3) Air quality monitoring performed in accordance with the May 12, 2017 Short Term Response Action Plan (STRAP), the October 11, 2017 STRAP Addendum (including Attachment N - Clarifications to the Proposed Air Monitoring Program for STRAP Activities) and the October 27, 2017 Short Term Response Action Approval Letter issued by RIDEM. Monitoring conducted during active STRAP activities.



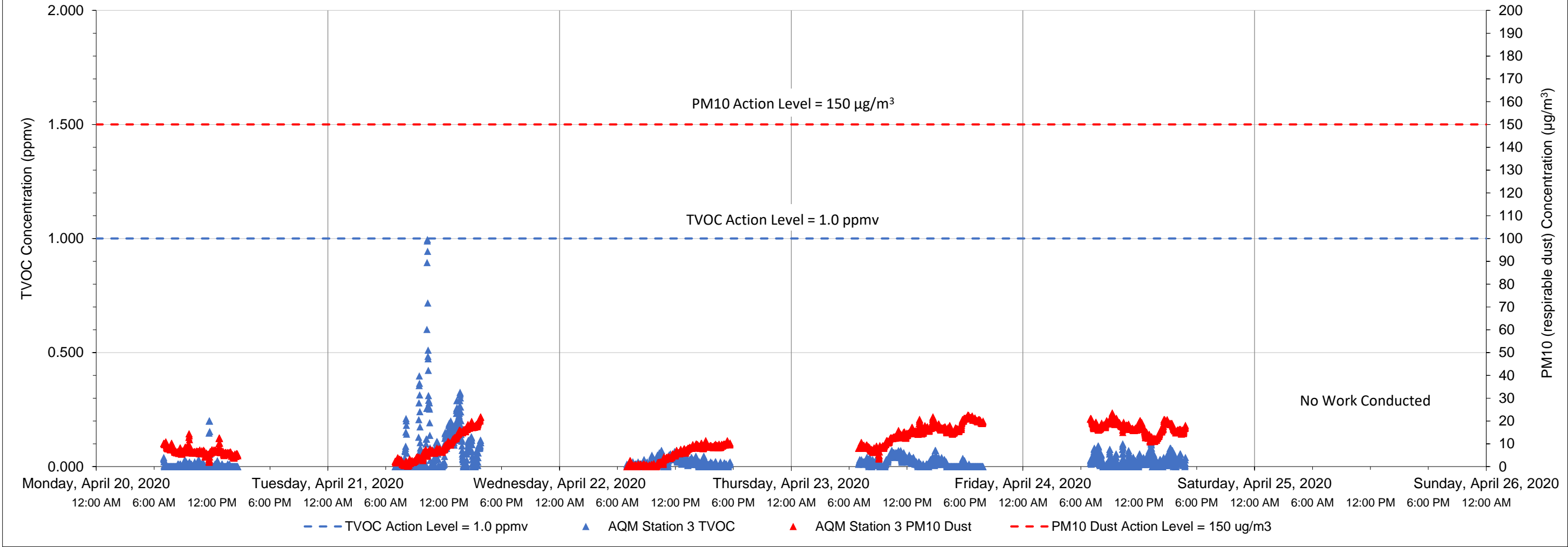
Data Summary Statistics		
TVOCs average concentration	0.08	ppm
TVOCs maximum concentration	1.00	ppm
TVOCs action level	1	ppm
PM10 average concentration	12.04	µg/m <sup>3</sup>
PM10 maximum concentration	24.38	µg/m <sup>3</sup>
PM10 action level	150	µg/m <sup>3</sup>

- 1) Transient readings were conducted over a one minute time period. A reading is sustained if it is held for over a five minute time period.
- 2) The location of each AQM Station is presented on the attached summary figure.
- 3) Air quality monitoring performed in accordance with the May 12, 2017 Short Term Response Action Plan (STRAP), the October 11, 2017 STRAP Addendum (including Attachment N - Clarifications to the Proposed Air Monitoring Program for STRAP Activities) and the October 27, 2017 Short Term Response Action Approval Letter issued by RIDEM. Monitoring conducted during active STRAP activities.

AQM Station 3

1-minute average concentrations

Total Volatile Organic Compounds (TVOC) data is on the left axis and Respirable Dust (Particulate Matter less than 10 µm (PM10)) data is on the right axis



Date	Time	Constituent	Observed Range of Sustained Readings	Response Actions Performed
None				

Equipment Notes
None

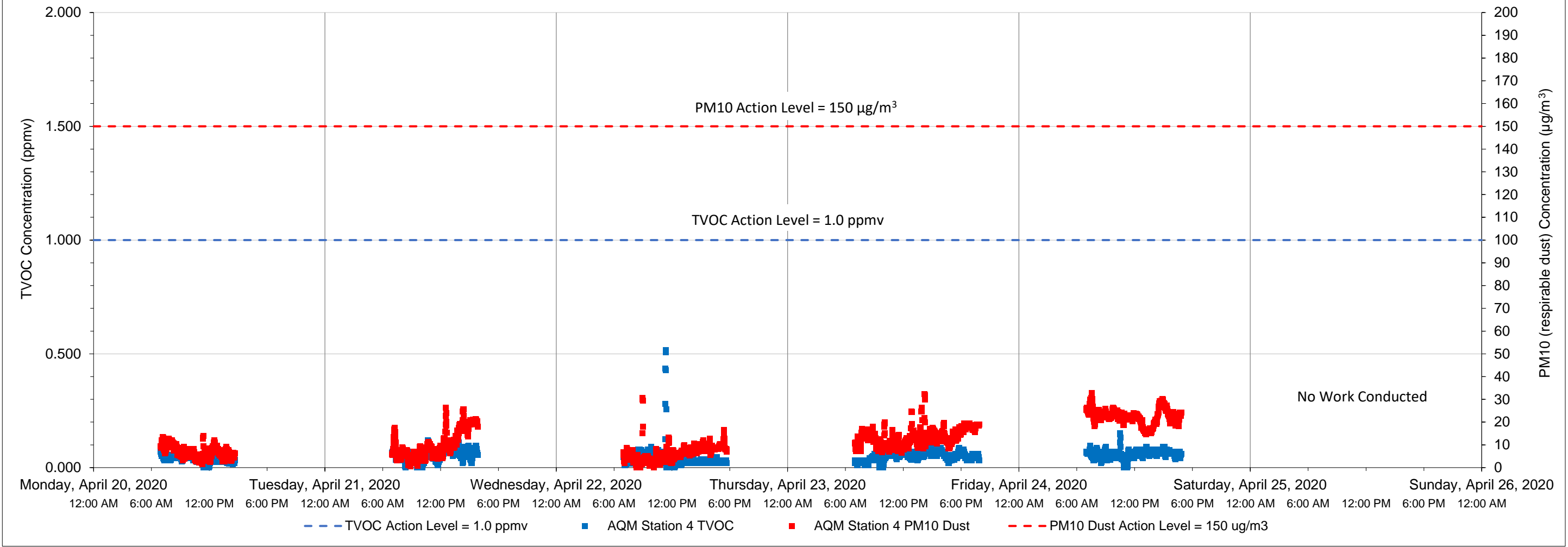
Data Summary Statistics		
TVOCs average concentration	0.03	ppm
TVOCs maximum concentration	0.99	ppm
TVOCs action level	1	ppm
PM10 average concentration	10.86	µg/m³
PM10 maximum concentration	23.52	µg/m³
PM10 action level	150	µg/m³

- Notes:**
- 1) Transient readings were conducted over a one minute time period. A reading is sustained if it is held for over a five minute time period.
  - 2) The location of each AQM Station is presented on the attached summary figure.
  - 3) Air quality monitoring performed in accordance with the May 12, 2017 Short Term Response Action Plan (STRAP), the October 11, 2017 STRAP Addendum (including Attachment N - Clarifications to the Proposed Air Monitoring Program for STRAP Activities) and the October 27, 2017 Short Term Response Action Approval Letter issued by RIDEM. Monitoring conducted during active STRAP activities.

AQM Station 4

1-minute average concentrations

Total Volatile Organic Compounds (TVOC) data is on the left axis and Respirable Dust (Particulate Matter less than 10 µm (PM1 0)) data is on the right axis



Date	Time	Constituent	Observed Range of Sustained Readings	Response Actions Performed
None				

Equipment Notes
None

Data Summary Statistics		
TVOCs average concentration	0.05	ppm
TVOCs maximum concentration	0.52	ppm
TVOCs action level	1	ppm
PM10 average concentration	11.98	µg/m <sup>3</sup>
PM10 maximum concentration	32.69	µg/m <sup>3</sup>
PM10 action level	150	µg/m <sup>3</sup>

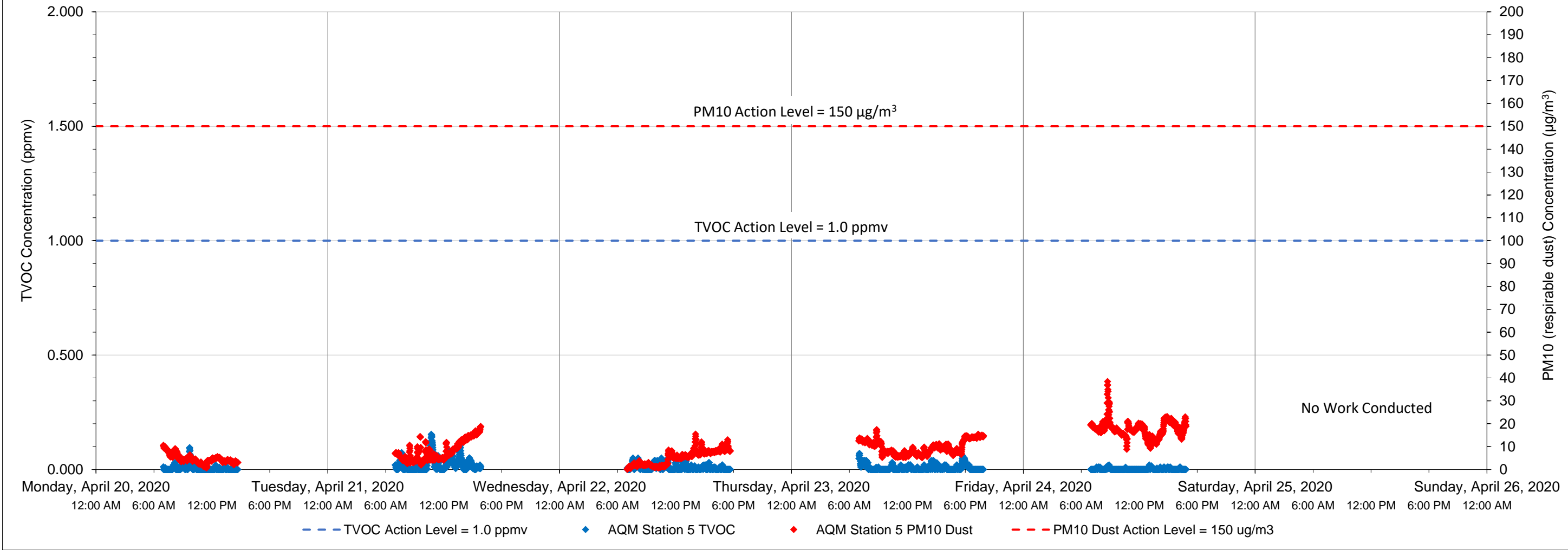
Notes:

- 1) Transient readings were conducted over a one minute time period. A reading is sustained if it is held for over a five minute time period.
- 2) The location of each AQM Station is presented on the attached summary figure.
- 3) Air quality monitoring performed in accordance with the May 12, 2017 Short Term Response Action Plan (STRAP), the October 11, 2017 STRAP Addendum (including Attachment N - Clarifications to the Proposed Air Monitoring Program for STRAP Activities) and the October 27, 2017 Short Term Response Action Approval Letter issued by RIDEM. Monitoring conducted during active STRAP activities.

AQM Station 5

1-minute average concentrations

Total Volatile Organic Compounds (TVOC) data is on the left axis and Respirable Dust (Particulate Matter less than 10 µm (PM10)) data is on the right axis



Date	Time	Constituent	Observed Range of Sustained Readings	Response Actions Performed
None				

Equipment Notes
None

Data Summary Statistics		
TVOCs average concentration	0.01	ppm
TVOCs maximum concentration	0.15	ppm
TVOCs action level	1	ppm
PM10 average concentration	9.18	µg/m³
PM10 maximum concentration	38.41	µg/m³
PM10 action level	150	µg/m³

**Notes:**

1) Transient readings were conducted over a one minute time period. A reading is sustained if it is held for over a five minute time period.

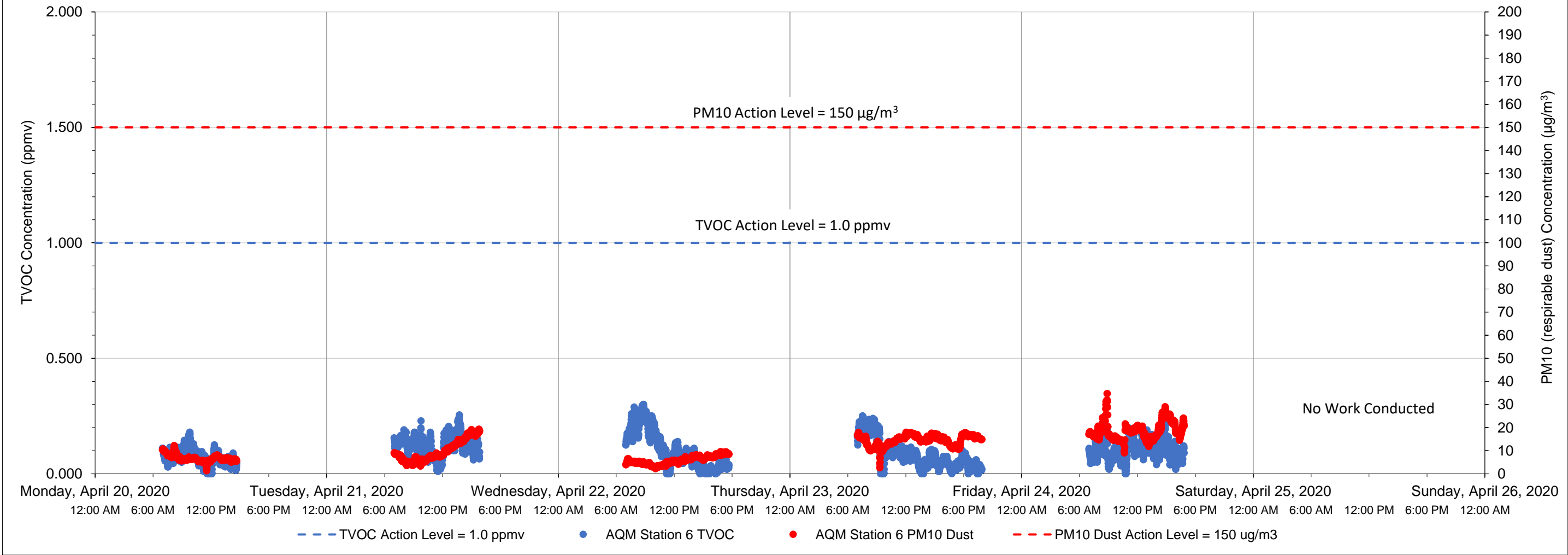
2) The location of each AQM Station is presented on the attached summary figure.

3) Air quality monitoring performed in accordance with the May 12, 2017 Short Term Response Action Plan (STRAP), the October 11, 2017 STRAP Addendum (including Attachment N - Clarifications to the Proposed Air Monitoring Program for STRAP Activities) and the October 27, 2017 Short Term Response Action Approval Letter issued by RIDEM. Monitoring conducted during active STRAP activities.

AQM Station 6

1-minute average concentrations

Total Volatile Organic Compounds (TVOC) data is on the left axis and Respirable Dust (Particulate Matter less than 10 µm (PM10)) data is on the right axis



Date	Time	Constituent	Observed Range of Sustained Readings	Response Actions Performed
None				

Equipment Notes
None

Data Summary Statistics		
TVOCs average concentration	0.09	ppm
TVOCs maximum concentration	0.30	ppm
TVOCs action level	1	ppm
PM10 average concentration	11.42	µg/m³
PM10 maximum concentration	34.72	µg/m³
PM10 action level	150	µg/m³

**Notes:**

1) Transient readings were conducted over a one minute time period. A reading is sustained if it is held for over a five minute time period.

2) The location of each AQM Station is presented on the attached summary figure.

3) Air quality monitoring performed in accordance with the May 12, 2017 Short Term Response Action Plan (STRAP), the October 11, 2017 STRAP Addendum (including Attachment N - Clarifications to the Proposed Air Monitoring Program for STRAP Activities) and the October 27, 2017 Short Term Response Action Approval Letter issued by RIDEM. Monitoring conducted during active STRAP activities.



2018 - GZA GeoEnvironmental, Inc. GZA-J:\ENV\33554.60.MSK\FIGURES\CAD\DWGS\33554.60\_11X17 AERIAL.DWG ANSI B - 17X11 DECEMBER 19, 2018 USA THERIAULT

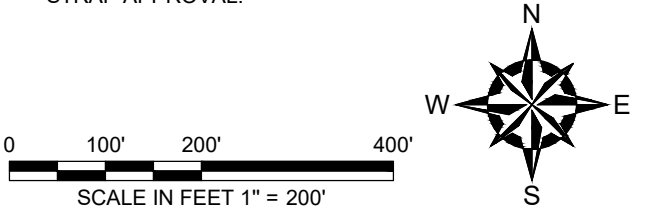


**LEGEND:**

- 642 ALLENS AVENUE FORMER MGP SITE
- PROJECT WORK SITE
- STRAP AREA (LIMITS OF GROUNDWATER AND SOIL DISTURBANCE)
- AIR QUALITY MONITORING (AQM) STATION

**REFERENCE NOTES:**

- BASE MAP DEVELOPED FROM A GOOGLE PROFESSIONAL ELECTRONIC IMAGE FILE. DIGITAL AERIAL ORTHOPHOTOGRAPHY WAS PUBLISHED IN FEBRUARY 2018.
- SITE BOUNDARIES ARE APPROXIMATE.
- PERIMETER AIR MONITORING PROGRAM CONDUCTED AS DESCRIBED IN THE MAY 12, 2017 SHORT TERM RESPONSE ACTION PLAN (STRAP) AND OCTOBER 11, 2017 STRAP ADDENDUM, WHICH WERE APPROVED BY RIDEM WITH THE OCTOBER 27, 2017 STRAP APPROVAL.



THE INFORMATION SHOWN ON THE DRAWING IS SOLELY FOR USE BY NATIONAL GRID OR THE NATIONAL GRID'S DESIGNATED REPRESENTATIVE FOR THE SPECIFIC PROJECT AND LOCATION IDENTIFIED ON THE DRAWING. THE DRAWING SHALL NOT BE TRANSFERRED, REUSED, COPIED, OR ALTERED IN ANY MANNER FOR USE AT ANY OTHER LOCATION OR FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF GZA AND NATIONAL GRID. ANY TRANSFER, REUSE, OR MODIFICATION TO THE DRAWING BY OTHERS, WITHOUT THE PRIOR WRITTEN EXPRESS CONSENT OF GZA AND NATIONAL GRID, WILL BE AT THE USER'S SOLE RISK AND WITHOUT ANY RISK OR LIABILITY TO GZA AND NATIONAL GRID.

NATIONAL GRID LIQUEFACTION FACILITY PERIMETER AIR MONITORING PROGRAM PROVIDENCE, RHODE ISLAND			
Summary Figure Week of 4-20-2020			
PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR: nationalgrid	
PROJ MGR: SDN	REVIEWED BY: MSK	CHECKED BY: MSK	FIGURE
DESIGNED BY: SDN	DRAWN BY: LDT	SCALE: AS NOTED	1
DATE: W/O 4-20-2020	PROJECT NO. 33554.04	REVISION NO. 0	SHEET NO.