

TRANSMITTAL

| vio | dence, Rhode Island 02909 | Date: 7/22/19 Job No. 03.0033554.04 | | |
|-------------------------------|--|---|--|--|
| 1.421.4140 (fax) 401.751.8613 | | Attention: Mr. Joseph Martella | | |
| 0: | Rhode Island Department of Environmental Management | Re: Liquefaction Facility Project | | |
| | Office of Waste Management | STRAP Perimeter Air Quality Monitoring (AQM) | | |
| | 235 Promenade Street | 121 Terminal Road/ 642 Allens Avenue | | |
| | Providence, Rhode Island 02908 | Providence, Rhode Island | | |
| | | Site Remediation File No. SR-28-1152 | | |
| | | | | |
| | | | | |
| Ve ar | re sending you: | | | |
| | Shop Drawings X Attached | Change Order Samples | | |
| | Copy of Letter Prints | Plans Specifications | | |
| | | Plans Specifications | | |
| | Under Separate Cover, the following Items: | via: | | |
| | | | | |
| ow S | hipped: | | | |
| _ | X Via Email Courier | Regular Mail Hand Delivered/Picked Up | | |
| | | | | |
| Desc | ription | | | |
| Air Q | uality Monitoring (AQM) Results – | | | |
| | k of 7/15/19 (7/15/19, 7/16/19, 7/17/19, 7/18/19 and 7/19/19 | 19) | | |
| Wee | AQM Station 1 Graph | | | |
| Wee | | | | |
| Wee | AQM Station 2 Graph | | | |
| Wee | AQM Station 2 Graph AQM Station 3 Graph Roving Air Monitoring Unit Graph | | | |

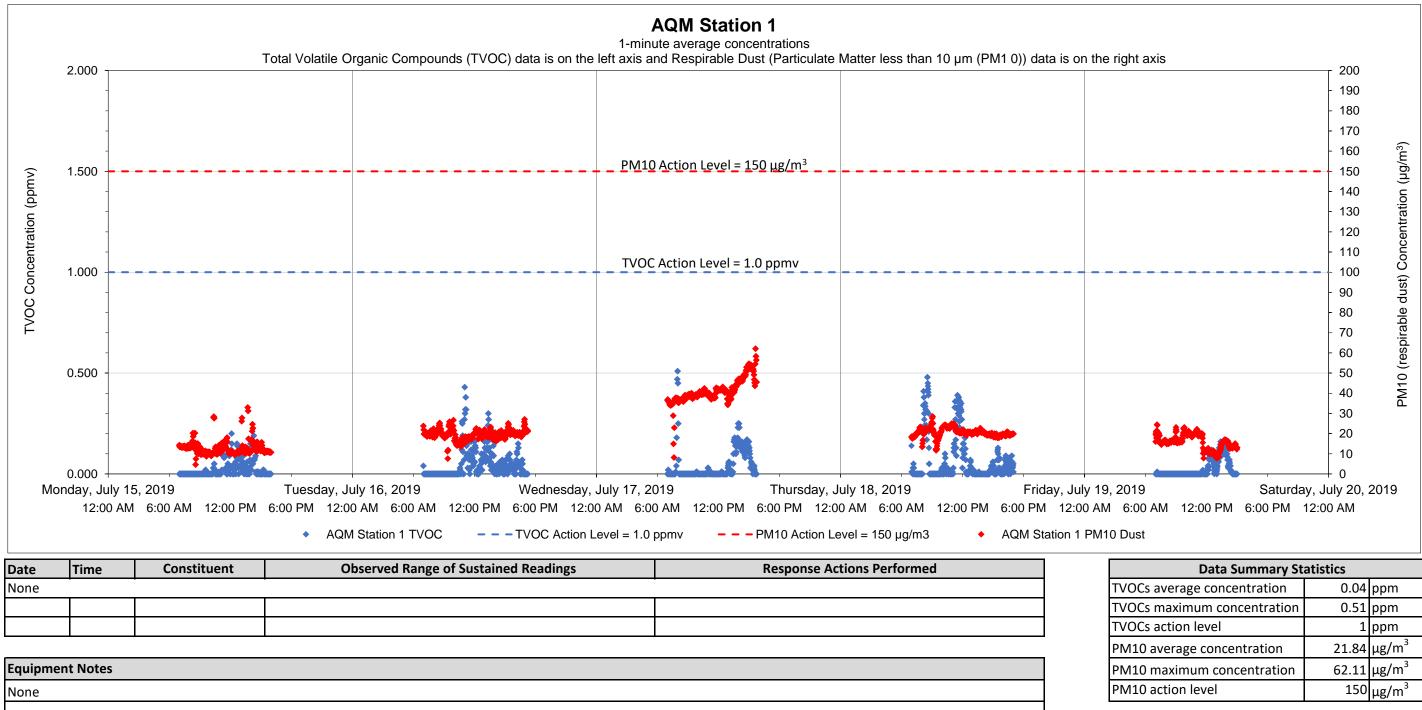
THESE ARE TRANSMITTED as Checked Below:

| | For Approval | Approved as Submitted | Resubmit Copies for Approval |
|---|------------------------|--------------------------|----------------------------------|
| Х | For Your Use | Approved as Noted | Submit Copies for Distribution |
| | As Requested | Returned for Corrections | Return Corrected Prints |
| | For Review and Comment | | PRINTS RETURNED AFTER LOAN TO US |
| | FOR BIDS DUE: | | |

Comments:

 Copy To:
 Amy Willoughby - National Grid LNG LLC
 Signed:
 Sophia Narkiewicz, P.E.

 William Howard - National Grid LNG LLC
 Project Manager



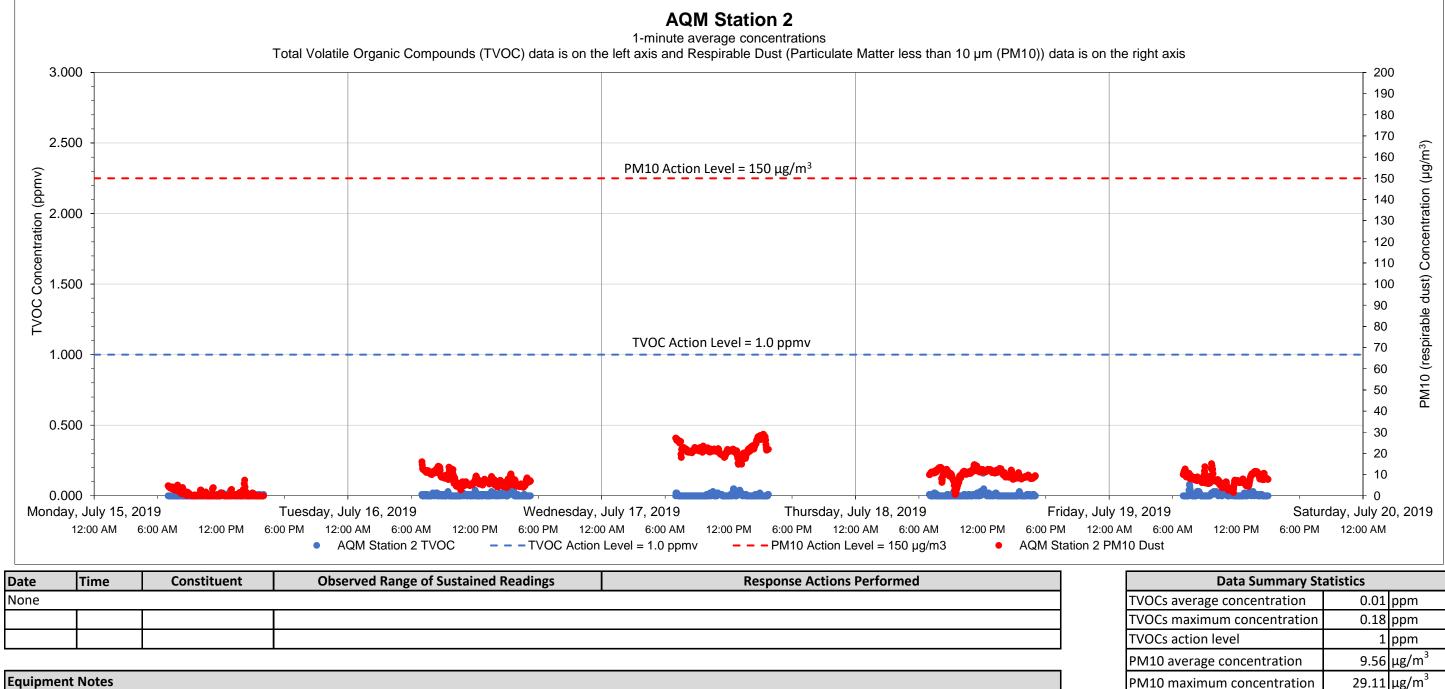
Notes:

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.

| OCs maximum concentration | 0.51 | ppm |
|---------------------------|-------|-------|
| Cs action level | 1 | ppm |
| 10 average concentration | 21.84 | µg/m³ |
| 10 maximum concentration | 62.11 | µg/m³ |
| 10 action level | 150 | µg/m³ |



| | | <u> </u> | • | |
|-----------|-------|----------|---|-------------------|
| None | | | | TVOCs average co |
| | | | | TVOCs maximum of |
| | | | | TVOCs action leve |
| | | | | PM10 average cor |
| Equipment | Notes | | | PM10 maximum c |
| None | | | | PM10 action level |

Notes:

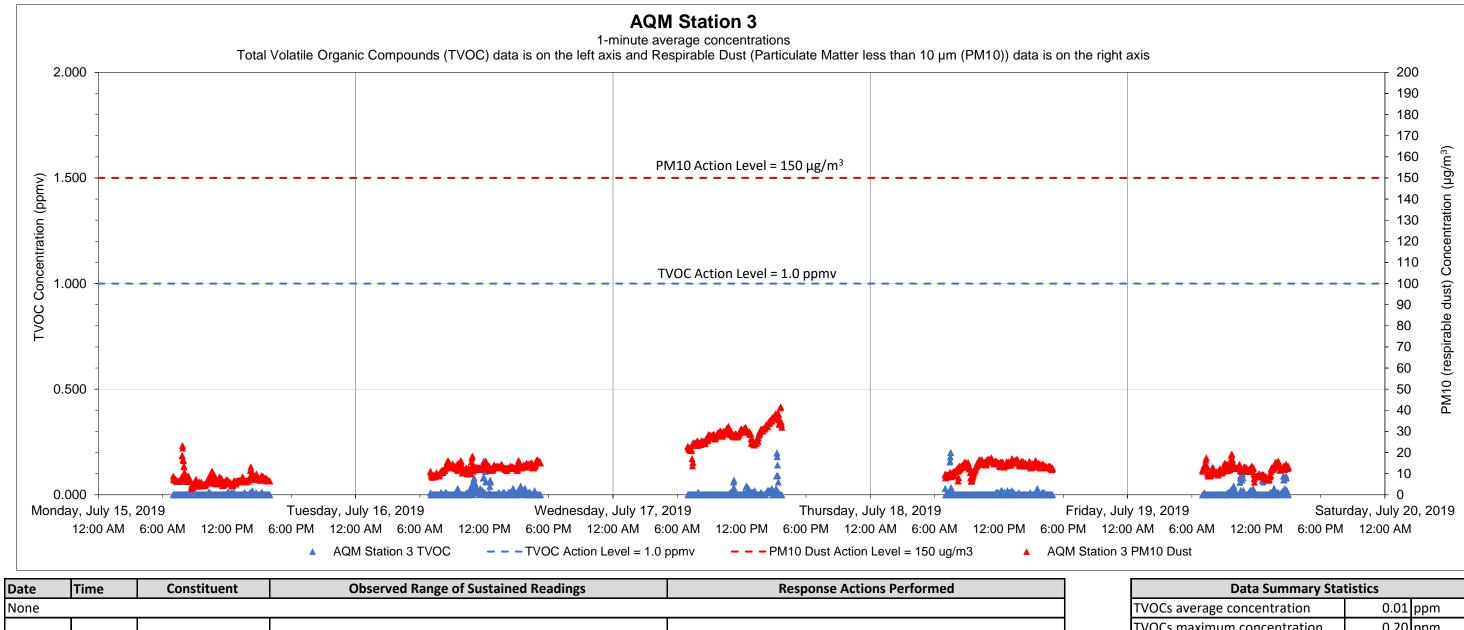
1) Transient readings were conducted over a one minute time period. A reading is sustained if it is held for over a five minute time period.

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.

150 µg/m³

Prepared by GZA on behalf of National Grid LNG LLC Liquefaction Facility Project -STRAP Perimeter Air Quality Monitoring (AQM) 121 Terminal Road / 642 Allens Avenue, Providence, Rhode Island



| Equipment Notes |
|-----------------|
| None |
| |

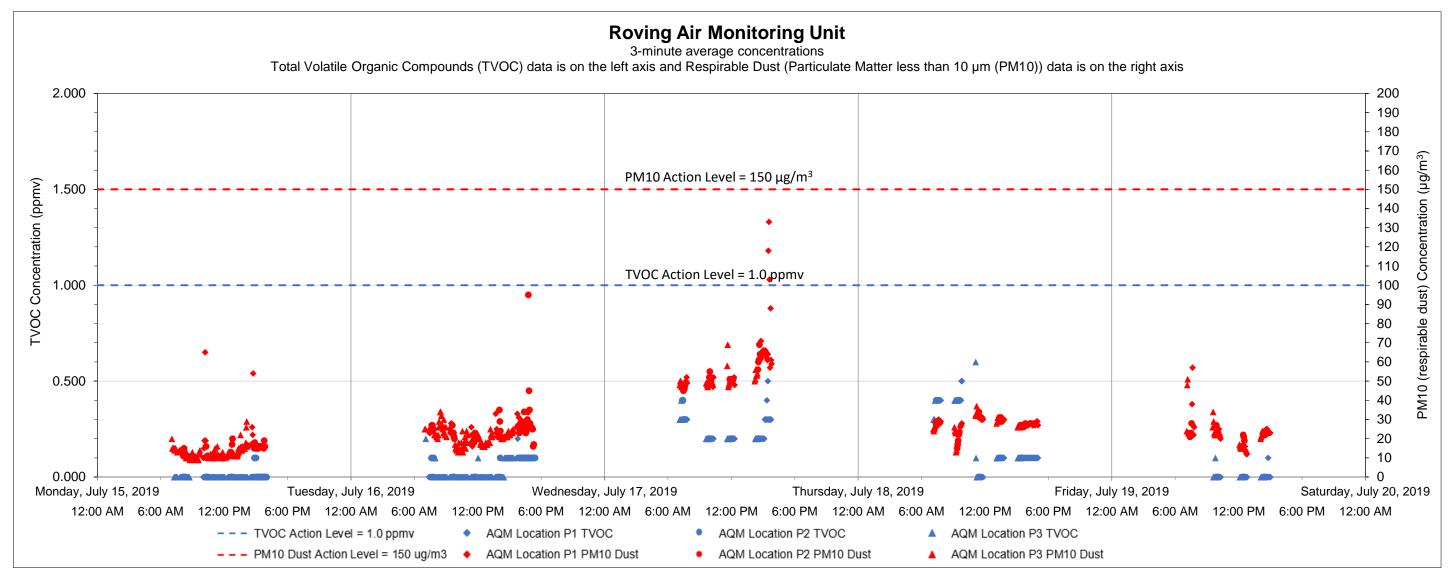
Notes:

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 | 0.01 | ppm | | |
| TVOCs maximum concentration | 0.20 | ppm | | |
| TVOCs action level | 1 | ppm | | |
| PM10 average concentration | 14.70 | µg/m³ | | |
| PM10 maximum concentration | | µg/m³ | | |
| PM10 action level | 150 | µg/m³ | | |
| | | | | |



| Date | Time | Constituent | Observed Range of Sustained Readings | Response Actions Performed |
|---------|-----------|-------------|--------------------------------------|----------------------------|
| None | | | | |
| | | | | |
| | | | | |
| | | | | |
| Equipme | ent Notes | | | |
| None | | | | |

| Equipment Notes | P |
|-----------------|---|
| None | F |
| | |
| | |

Notes:

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

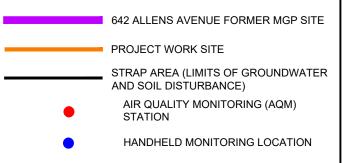
2) The location of each AQM location is presented on the attached summary figure. This graph depicts data collected by the roving unit.

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 | | | | |
|----------------------------|-------|-------|--|--|
| /OCs average concentration | 0.08 | ppm | | |
| /OCs maximum concentration | 0.60 | ppm | | |
| OCs action level | 1 | ppm | | |
| V10 average concentration | 25.93 | µg/m³ | | |
| M10 maximum concentration | | µg/m³ | | |
| V10 action level | 150 | µg/m³ | | |
| | | | | |







REFERENCE NOTES:

- 1. BASE MAP DEVELOPED FROM A GOOGLE PROFESSIONAL ELECTRONIC IMAGE FILE. DIGITAL AERIAL ORTHOPHOTOGRAPHY WAS PUBLISHED IN FEBRUARY 2018.
- 2. SITE BOUNDARIES ARE APPROXIMATE.
- 3. 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.

| | | w | E | | | |
|---|--|----------------------|-----------|--|--|--|
| 0 100' | 200' | 400' | | | | |
| SCALE IN | N FEET 1'' = 200' | | ¥ S | | | |
| 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 AN DATIONAL GRID. | | | | | | |
| NATIONAL GRID LIQUEFACTION FACILITY PERIMETER AIR MONITORING PROGRAM PROVIDENCE, RHODE ISLAND | | | | | | |
| Summary Figure Week of 7-15-19 | | | | | | |
| C TA Engineer | Environmental, Inc. s and Scientists w.gza.com | national grid | | | | |
| PROJ MGR: SDN | REVIEWED BY: MSK | CHECKED BY: MSK | FIGURE | | | |
| DESIGNED BY: SDN | DRAWN BY: LDT | SCALE: AS NOTED | 1 | | | |
| DATE: W/O 7-15-19 | PROJECT NO. 33554.04 | REVISION NO. 0 | SHEET NO. | | | |