TRANSMITTAL

GZA GeoEnvironmental, Inc.
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Providence, Rhode Island 02909
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To: Rhode Island Department of Environmental Management
Office of Waste Management
235 Promenade Street
Providence, Rhode Island 02908

Re: 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

Date: 6/17/19   Job No. 03.0033554.04
Attention: Mr. Joseph Martella

We are sending you:

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- Change Order
- Samples
- Copy of Letter
- Prints
- Plans
- Specifications

Under Separate Cover, the following items:
via:

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- Regular Mail
- Hand Delivered/Picked Up

Description
Air Quality Monitoring (AQM) Results –
Week of 6/10/19 (6/10/19, 6/11/19, 6/12/19, 6/13/19, and 6/14/19)
  - AQM Station 1 Graph
  - AQM Station 2 Graph
  - AQM Station 3 Graph
  - Roving Air Monitoring Unit Graph
  - Summary Figure

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<thead>
<tr>
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<th>Resubmit Copies for Approval</th>
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</tbody>
</table>

Comments:

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

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

Date
Time
Constituent
Observed Range of Sustained Readings
Response Actions Performed
Data Summary Statistics

TVOCs average concentration 0.07 ppm
TVOCs maximum concentration 0.29 ppm
TVOCs action level 1 ppm
PM10 average concentration 8.53 µg/m³
PM10 maximum concentration 22.19 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 2

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.

TVOC Action Level = 1.0 ppmv
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 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.

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>TVOC Concentration (ppmv)</th>
<th>PM10 (respirable dust) Concentration (µg/m³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monday, June 10, 2019</td>
<td>12:00 AM</td>
<td>0.02</td>
<td>150 µg/m³</td>
</tr>
<tr>
<td>Tuesday, June 11, 2019</td>
<td>6:00 AM</td>
<td>0.02</td>
<td></td>
</tr>
<tr>
<td>Wednesday, June 12, 2019</td>
<td>12:00 PM</td>
<td>0.02</td>
<td></td>
</tr>
<tr>
<td>Thursday, June 13, 2019</td>
<td>6:00 AM</td>
<td>0.02</td>
<td></td>
</tr>
<tr>
<td>Friday, June 14, 2019</td>
<td>12:00 AM</td>
<td>0.02</td>
<td></td>
</tr>
<tr>
<td>Saturday, June 15, 2019</td>
<td>6:00 AM</td>
<td>0.02</td>
<td></td>
</tr>
</tbody>
</table>

### Data Summary Statistics

- **TVOCs average concentration**: 0.02 ppm
- **TVOCs maximum concentration**: 0.20 ppm
- **TVOCs action level**: 1 ppm
- **PM10 average concentration**: 4.97 µg/m³
- **PM10 maximum concentration**: 20.23 µg/m³
- **PM10 action level**: 150 µg/m³

### 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.
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

Roving Air Monitoring Unit
3-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.

PM10 Action Level = 150 µg/m$^3$
TVOC Action Level = 1.0 ppmv

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Constituent</th>
<th>Observed Range of Sustained Readings</th>
<th>Response Actions Performed</th>
<th>Data Summary Statistics</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>TVOCs average concentration = 0.07 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>None</td>
<td></td>
<td>TVOCs maximum concentration = 0.30 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>None</td>
<td></td>
<td>TVOCs action level = 1 ppm</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>None</td>
<td></td>
<td>PM10 average concentration = 7.14 µg/m$^3$</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>None</td>
<td></td>
<td>PM10 maximum concentration = 35 µg/m$^3$</td>
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<td></td>
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<td></td>
<td>None</td>
<td></td>
<td>PM10 action level = 150 µg/m$^3$</td>
</tr>
</tbody>
</table>

Equipment Notes
None

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.
**LEGEND:**

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

**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.

**Summary Figure**

Week of 6-10-19

**Scale:**

1" = 200'

**Location:**

- AQM Station 1 +
- Weather Station
- AQM Station 2
- AQM Station 3
- HANDHELD MONITORING LOCATION

**Area:**

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