**TRANSMITTAL**

<table>
<thead>
<tr>
<th>Date: 01/04/2021</th>
<th>Job No.: 03.003554.04</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attention: Mr. Joseph Martella</td>
<td></td>
</tr>
</tbody>
</table>

**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

**To:** Rhode Island Department of Environmental Management  
Office of Land Revitalization and Sustainable Materials  
Management  
235 Promenade Street  
Providence, Rhode Island 02908

**We are sending you:**

- [ ] Shop Drawings  
- [x] Attached  
- [ ] Change Order  
- [ ] Samples  
- [ ] Copy of Letter  
- [ ] Prints  
- [ ] Plans  
- [ ] Specifications

**Under Separate Cover, the following Items:**

- [ ] via:
  - [x] Via Email  
  - [ ] Courier  
  - [ ] Regular Mail  
  - [ ] Hand Delivered/Picked Up

**Description**

Air Quality Monitoring (AQM) Results – Week of 12/28/2020 (12/28/20, 12/29/20, 12/30/20, and 12/31/20)  
- AQM Station/ 1 Graph  
- AQM Station 2 Graph  
- AQM Station 3 Graph  
- Summary Figure

**THESE ARE TRANSMITTED as Checked Below:**

<table>
<thead>
<tr>
<th>For Approval</th>
<th>Approved as Submitted</th>
<th>Resubmit Copies for Approval</th>
</tr>
</thead>
<tbody>
<tr>
<td>[x] For Your Use</td>
<td>Approved as Noted</td>
<td>Submit Copies for Distribution</td>
</tr>
<tr>
<td>As Requested</td>
<td>Returned for Corrections</td>
<td>Return Corrected Prints</td>
</tr>
<tr>
<td>For Review and Comment</td>
<td></td>
<td>PRINTS RETURNED AFTER LOAN TO US</td>
</tr>
<tr>
<td>FOR BIDS DUE:</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Comments:**

---

**Copy To:** Amy Willoughby - National Grid LNG LLC  
William Howard - National Grid LNG LLC  
**Signed:** Sara Haupt, P.E.  
Assistant 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

AQM Station 1
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

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
<table>
<thead>
<tr>
<th>Constituent</th>
<th>Response Actions Performed</th>
</tr>
</thead>
<tbody>
<tr>
<td>TVOCs average concentration</td>
<td></td>
</tr>
<tr>
<td>TVOCs maximum concentration</td>
<td></td>
</tr>
<tr>
<td>TVOCs action level</td>
<td></td>
</tr>
<tr>
<td>PM10 average concentration</td>
<td></td>
</tr>
<tr>
<td>PM10 maximum concentration</td>
<td></td>
</tr>
<tr>
<td>PM10 action level</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Constituent</th>
<th>Observed Range of Sustained Readings</th>
<th>Response Actions Performed</th>
</tr>
</thead>
<tbody>
<tr>
<td>12:00 AM</td>
<td>6:00 AM</td>
<td>12:00 PM</td>
<td>6:00 PM</td>
<td>12:00 AM</td>
</tr>
<tr>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

Equipment Notes
None

None

No Work Conducted
No Work Conducted

TVOC Action Level = 1.0 ppmv
PM10 Action Level = 150 µg/m³

PM10 respiratory dust concentration (µg/m³)
TVOC Concentration (ppmv)
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

**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

12/30/2020, 13:02 to 13:02, 1.02 ppmv. Prevailing winds were south of the project site. Readings not attributed to on-going site work, no actions taken. Readings were not sustained.

**Data Summary Statistics**

<table>
<thead>
<tr>
<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>Total Volatile CO</td>
<td>0.000 - 2.000</td>
<td></td>
<td>TVOCs average concentration: 0.14 ppm</td>
</tr>
<tr>
<td>PM10</td>
<td>0 - 200</td>
<td></td>
<td>TVOCs maximum concentration: 0.12 ppm</td>
</tr>
<tr>
<td>PM10 action level</td>
<td>0</td>
<td></td>
<td>TVOCs action level: 1 ppm</td>
</tr>
<tr>
<td>PM10 average concen</td>
<td>10</td>
<td></td>
<td>PM10 average concentration: 16.31 µg/m³</td>
</tr>
<tr>
<td>PM10 maximum concen</td>
<td>85.67</td>
<td></td>
<td>PM10 maximum concentration: 85.67 µg/m³</td>
</tr>
<tr>
<td>PM10 action level</td>
<td>150</td>
<td></td>
<td>PM10 action level: 150 µg/m³</td>
</tr>
</tbody>
</table>

**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

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.

PM10 Action Level = 150 µg/m³
TVOC Action Level = 1.0 ppmv

设备笔记
无

数据摘要
- TVOCs 平均浓度 0.02 ppmv
- TVOCs 最大浓度 0.20 ppmv
- TVOCs 行动水平 1 ppmv
- PM10 平均浓度 13.17 µg/m³
- PM10 最大浓度 66.47 µg/m³
- PM10 行动水平 150 µg/m³

说明:
1) 短暂读数是在一分钟内进行的。如果读数保持超过五分钟，则认为是持续的。
2) 每个AQM站的位置在附带的总结图上显示。
3) 环境空气质量监测根据2017年5月12日短时响应行动计划（STRAP）, 2017年10月11日STRAP增补（包括附件N - 对拟议空气质量监测程序的澄清）和2017年10月27日短时响应行动审批信件（由RIDEM发出）进行。监测在活跃STRAP活动期间进行。
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 (PM10)) data is on the right axis

PM10 Action Level = 150 µg/m³
TVOC Action Level = 1.0 ppmv

No Work Conducted

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.
**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.

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Constituent</th>
<th>Observed Range of Sustained Readings</th>
<th>Response Actions Performed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monday, Dec 28, 2020</td>
<td>12:00 AM</td>
<td>TVOC</td>
<td>Average concentration</td>
<td></td>
</tr>
<tr>
<td>Tuesday, Dec 29, 2020</td>
<td>12:00 AM</td>
<td>TVOC</td>
<td>Maximum concentration</td>
<td></td>
</tr>
<tr>
<td>Wednesday, Dec 30, 2020</td>
<td>12:00 AM</td>
<td>TVOC</td>
<td>Action Level</td>
<td></td>
</tr>
<tr>
<td>Thursday, Dec 31, 2020</td>
<td>12:00 AM</td>
<td>PM10</td>
<td>Average concentration</td>
<td></td>
</tr>
<tr>
<td>Friday, Jan 1, 2021</td>
<td>12:00 AM</td>
<td>PM10</td>
<td>Maximum concentration</td>
<td></td>
</tr>
<tr>
<td>Saturday, Jan 2, 2021</td>
<td>12:00 AM</td>
<td>PM10</td>
<td>Action Level</td>
<td></td>
</tr>
<tr>
<td>Sunday, Jan 3, 2021</td>
<td>12:00 AM</td>
<td>PM10</td>
<td>Action Level</td>
<td></td>
</tr>
</tbody>
</table>

**Data Summary Statistics**

<table>
<thead>
<tr>
<th>Constituent</th>
<th>Average Concentration</th>
<th>Maximum Concentration</th>
<th>Action Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>TVOCs</td>
<td>0.03 ppm</td>
<td>0.43 ppm</td>
<td>1 ppm</td>
</tr>
<tr>
<td>PM10</td>
<td>20.18 µg/m³</td>
<td>87.10 µg/m³</td>
<td>150 µg/m³</td>
</tr>
</tbody>
</table>

**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

**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/m³**

**TVOC Action Level = 1.0 ppmv**

**No Work Conducted**

<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>Monday, December 28, 2020</td>
<td>12:00 AM 6:00 AM 12:00 PM 6:00 PM</td>
<td>TVOC</td>
<td>0.000 - 2.000 ppmv</td>
<td>None</td>
<td>TVOCs average concentration 0.03 ppm</td>
</tr>
<tr>
<td>Tuesday, December 29, 2020</td>
<td>12:00 AM 6:00 AM 12:00 PM 6:00 PM</td>
<td>TVOC</td>
<td>0.000 - 2.000 ppmv</td>
<td>None</td>
<td>TVOCs maximum concentration 0.46 ppm</td>
</tr>
<tr>
<td>Wednesday, December 30, 2020</td>
<td>12:00 AM 6:00 AM 12:00 PM 6:00 PM</td>
<td>TVOC</td>
<td>0.000 - 2.000 ppmv</td>
<td>None</td>
<td>TVOCs action level 0.46 ppm</td>
</tr>
<tr>
<td>Thursday, December 31, 2020</td>
<td>12:00 AM 6:00 AM 12:00 PM 6:00 PM</td>
<td>PM10</td>
<td>0.000 - 200 µg/m³</td>
<td>None</td>
<td>PM10 average concentration 19.08 µg/m³</td>
</tr>
<tr>
<td>Friday, January 1, 2021</td>
<td>12:00 AM 6:00 AM 12:00 PM 6:00 PM</td>
<td>PM10</td>
<td>0.000 - 200 µg/m³</td>
<td>None</td>
<td>PM10 maximum concentration 81.73 µg/m³</td>
</tr>
<tr>
<td>Saturday, January 2, 2021</td>
<td>12:00 AM 6:00 AM 12:00 PM 6:00 PM</td>
<td>PM10</td>
<td>0.000 - 200 µg/m³</td>
<td>None</td>
<td>PM10 action level 150 µg/m³</td>
</tr>
</tbody>
</table>

**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.
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.