LETTER REPORT

2016 MONITORING WELL AND
SOIL VAPOR IMPLANT MAINTENANCE

WORK ASSIGNMENT D007622-27

MEEKER AVENUE PLUME TRACKDOWN SITE NO. 224121
GREENPOINT/KINGS COUNTY, NY
EAST WILLIAMSBURG INDUSTRIAL AREA

Prepared for:
NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
625 Broadway, Albany, New York

Basil Seggos, Commissioner
DIVISION OF ENVIRONMENTAL REMEDIATION
Remedial Bureau B

URS Corporation
257 West Genesee Street
Suite 400
Buffalo, New York 14202

April 2017
LETTER REPORT

2016 MONITORING WELL AND SOIL VAPOR IMPLANT MAINTENANCE

AT THE

MEEKER AVENUE PLUME TRACKDOWN SITE

SITE ID NO. 224121
GREENPOINT/EAST WILLIAMSBURG INDUSTRIAL AREA
BROOKLYN, NEW YORK

PREPARED FOR:

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATION
REMEDIAL BUREAU B
WORK ASSIGNMENT NO. D007622-27

PREPARED BY:

URS CORPORATION
257 WEST GENESEE STREET, SUITE 400
BUFFALO, NEW YORK 14202

APRIL 2017
April 5, 2017

Mr. David K. Harrington, P.E.
Senior Environmental Engineer
Remedial Bureau B
Division of Environmental Remediation
NYS Department of Environmental Conservation
625 Broadway, 12th Floor
Albany, New York 12233-7016

Re: NYSDEC Standby Contract, Work Assignment No. D007622-27
Meeker Avenue Plume Trackdown Site, Site ID No. 224121

Dear Mr. Harrington:

URS Corporation - New York (URS) has prepared this Letter Report to summarize the field activities associated with the 2016 Monitoring Well and Soil Vapor Implant Inspection and Maintenance Effort that was performed at the Meeker Avenue Plume Trackdown Site [New York State Department of Environmental Conservation (NYSDEC) Site Number 224121] in the Greenpoint/East Williamsburg Industrial Area section of Brooklyn, New York (Figure 1). The work associated with the 2016 Monitoring Well and Soil Vapor Implant Maintenance Effort was completed under NYSDEC Work Assignment No. D007622-27.

1.0 INTRODUCTION

The 2016 Monitoring Well and Soil Vapor Implant Inspection and Maintenance Effort was completed at the direction of the NYSDEC to conduct a complete round of inspections of all monitoring wells and soil vapor implants installed to date and to perform routine maintenance (if necessary) on the surface completions of the monitoring well and SVI network within the greater Meeker Avenue Plume Trackdown area. Inspection and maintenance activities in 2016 occurred during two separate work periods. The work period activities are described below.

2.0 FIELD ACTIVITIES

The first work period took place between September 7-22, 2016, during the East of Vandervoort groundwater sampling event. A round of monitoring well inspections took place during this period. A copy of the monitoring well inspection forms is included as Attachment 1. These field activities included surface inspections of 49 monitoring wells.

The second work period occurred between October 25 and December 10, 2016, when a round of monitoring well and soil vapor point inspections took place during sampling activities at monitoring wells, and the newly installed wells at the Expanded Outreach Area and West of Morgan Area. Copies of the monitoring well inspection forms are included as Attachment 1. These field activities included:
• Surface inspections of 273 monitoring wells.
• Surface inspection of 162 soil vapor implants.

Tables 1 and 2 summarize the aforementioned maintenance activities discussed in Sections 2.1 through 2.5.

2.1 Monitoring Well Inspection and Maintenance
In 2016, there were two rounds of monitoring well inspections. The inspections documented the conditions of each well’s interior and exterior, such as well pad, label, bolts, lid, curb box, riser, annular space and J-plug. The data from these inspections were used to recommend appropriate monitoring well maintenance activities.

During the inspections, it was observed that bolt tabs to DEC-023, DEC-024, DEC-024D, DEC-034, DEC-056 and DEC-083 were stripped. As part of the maintenance activities, J-B Weld epoxy was applied to the stripped bolt tabs and after an appropriate waiting time, these tabs were re-tapped.

2.2 Soil Vapor Implant Inspection and Maintenance
There was one round of soil vapor implant inspections. These inspections documented the conditions of each implant’s interior and exterior, such as curb box, bolts, pad, label, implant tubing, annular space and tubing cap. The data from these inspections were used to recommend appropriate implant maintenance activities.

2.3 Sidewalk Flag Replacement
Sidewalk flag replacement did not occur in 2016.

2.4 Monitoring Well Decommissioning

No monitoring wells were decommissioned in 2016. However, sometime between January 1 and December 8, 2015, monitoring wells DEC-049, DEC-049D, DEC-050 & DEC-050D were lost due to the Kosciuszko bridge replacement project. The status of the monitoring wells as of December 31, 2016 can be found on Plate 1.

2.5 Soil Vapor Implant Decommissioning

No soil vapor implants were decommissioned in 2016. The status of the soil vapor implants as of December 31, 2016 can be found on Plate 2.
3.0 RECOMMENDATIONS

The following recommendations for maintenance activities in 2017 are offered for consideration by the NYSDEC.

- There is mild damage to the top of well pad DEC-124; a layer of concrete could be added to keep pad from chipping further.
- The sidewalk flags at monitoring well locations DEC-146, DEC-147D, DEC-148, DEC-148D, DEC-149, DEC-150, DEC-151, DEC-152, DEC-152D, DEC-153, DEC-154, DEC-155 and DEC-155D need to be replaced, as recommended in the 2015 report.
- Re-tapping and repairing curb box tabs at DEC-012, DEC-051 and DEC-128, one or more tabs at each location have damaged threads.
- Replace damaged J-plugs at DEC-010 and DEC-089.
- Replace well pad at DEC-112.
- Remove concrete from the curb box cover and replace bolts at SG-007.
- Replace missing bolt to SG-145.
- Soil vapor implant locations SG-091 and SG-096 should be decommissioned.
- The sidewalk flag at soil vapor implant location SG-166 should be replaced.
- The well pad should be replaced at soil vapor implant SG-114.
- SG-126, SG-128, SG-130 and SG-131 pads are mildly damaged and will need replacements in the future; SG-130 lid is cracked and will need replacement.
- Stenciling of monitoring well/soil vapor implant locations should be performed as warranted in 2017.

4.0 TABLES, FIGURES, AND ATTACHMENTS

The following tables, figures, and attachments are included as part of this letter report:

Tables (following Text)

<table>
<thead>
<tr>
<th>Table</th>
<th>Description</th>
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<tbody>
<tr>
<td>Table 1</td>
<td>Summary of 2016 Monitoring Well Inspections/Maintenance Activities</td>
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<tr>
<td>Table 2</td>
<td>Summary of 2016 Soil Vapor Implant Inspections/Maintenance Activities</td>
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Figures (following Tables)

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<th>Figure</th>
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<tr>
<td>Figure 1</td>
<td>Site Location</td>
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Plates (following Figures)

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<tr>
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<tr>
<td>Plate 1</td>
<td>Monitoring Well Locations/Status as of 12/31/2016</td>
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<tr>
<td>Plate 2</td>
<td>Soil Vapor Implant Locations/Status as of 12/31/2016</td>
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Attachments (following Plates)

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<tr>
<td>Attachment 1</td>
<td>Monitoring Well and Soil Vapor Implant Inspection Forms</td>
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Closing

Please contact me at 716-856-5636 if you have any questions or comments. It was a pleasure to serve the NYSDEC with this challenging and interesting project.

Sincerely,

URS Corporation

Michael Gutmann
Project Manager

cc:  File: 11176389 (R-1)
    George Kisluk URS