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**Reference: Former Lockheed Martin French Road Facility, Utica, New York**

Attachment:

Copies	Doc Date	Pages	Description
1	July 2016	4	Former Lockheed Martin French Road Facility, Utica, New York, Solvent Dock Area, " <b>Second Quarter 2016, Corrective Action Progress Report</b> "

**STANTEC CONSULTING SERVICES INC.**



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**Former Lockheed Martin  
French Road Facility  
Ulrica, New York  
Solvent Dock Area  
NYSDEC Site #6-20080321-5**

**Second Quarter 2016  
Corrective Action Progress Report**



*Prepared for:*  
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### ACRONYMS

DOW	Division of Water
GAC	granular activated carbon
GCTS	groundwater collection and treatment system
ICM	interim corrective measure
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
OM&M	operation, monitoring and maintenance
PCE	tetrachloroethene
SGVs	Standards and Guidance Values
SPDES	State Pollutant Discharge Elimination System
SSDS	sub-slab depressurization system
SVI	soil vapor intrusion
TCE	trichloroethene

## Purpose

On behalf of Lockheed Martin Corporation (Lockheed Martin), Stantec Consulting Services Inc. (Stantec) has prepared this **Second Quarter 2016 Corrective Action Progress Report** for the Solvent Dock Area at the former Lockheed Martin French Road facility in Utica, New York (the Site). This report is required by the October 3, 2008 New York State Department of Environmental Conservation (NYSDEC) Order on Consent (the Order; CO 6-20080321-5), and in Attachment 3-1 (Corrective Action Requirements), Section B.8, of the Order. The following sections summarize activities and information for the Second Quarter (April, May and June) of 2016.

## 1. Summary of Work Completed During the Reporting Period

The following activities were completed during the reporting period:

- Obtained monthly samples of effluent water from the groundwater collection and treatment system (GCTS) for compliance with the existing State Pollutant Discharge Elimination System (SPDES) permit (NY-012-1894). Results were documented in monthly Discharge Monitoring Reports submitted to NYSDEC.
- Performed ongoing operation, monitoring and maintenance (OM&M) of the interim corrective measure (ICM) for groundwater (i.e., the groundwater collection and treatment system, or GCTS).
- Performed ongoing OM&M of the ICM for sub-slab soil gas (i.e., the sub-slab depressurization system, or SSDS). This included performance of leak testing of the piping for the SSDS system; no leaks were detected.
- Assembled the elements of a Draft Environmental Easement package for distribution to the Onondaga County Industrial Development Agency (OCIDA; current title holder of the property) and ConMed, for review and comment. See also bullet in Section 7 below.
- Performed, during the period April 5 through 7, 2016 the Second Quarter 2016 groundwater sampling in accordance with the *Interim Groundwater Monitoring Program*.
- Submitted, on April 8, 2016, to NYSDEC and New York State Department of Health (NYSDOH) the *First Quarter 2016 Corrective Action Progress Report*, and added the document to the public repository at the Utica Library.
- Received a letter dated April 15, 2016 from NYSDEC approving the *Supplemental Work Plan for Additional Area 2 Subsurface Soil Sampling, Excavation Initial Design Investigation*.
- Conducted, on April 19, May 17, and June 21, 2016, routine monthly project update conference calls with NYSDEC (S. Saucier) and NYSDOH (S. Karpinski).
- Conducted on April 20, 2016, with personnel from Lockheed Martin and CDM Smith, a pre-bid site walkthrough for consulting firms invited to bid on future (post-2016) project OM&M and sampling activities.

- Received a letter dated May 24, 2016 from NYSDEC to Lockheed Martin approving the *2015 Annual Site Management Report* (dated March 2016).
- Submitted, on May 31, 2016 to NYSDEC the *Data Summary and Observations, Second Quarter 2016 Groundwater Monitoring*.
- Provided on May 31, 2016 to ConMed, for review and comment, a Draft report entitled *Soil Vapor Intrusion Assessment, Western Building Areas, Former Lockheed Martin French Road Facility, Utica, New York*.
- Performed, during the period June 6-8, 2016, a supplemental field investigation consisting of 15 additional Geoprobe® test borings and subsurface soil sampling in the Area 2 portion of the Former Northern Perimeter Ditch, and surface soil sampling in three areas of previous PCB investigation. Thirty subsurface soil samples were collected and submitted for laboratory analysis for VOCs and twenty surface soil samples were analyzed for PCBs, along with required QA/QC samples. The work was performed in accordance with Work Plans submitted to and approved by NYSDEC.
- Received, on June 20, 2016 from ConMed Corporation a copy of a letter from GHD to ConMed providing comments on Stantec's May 31, 2016 Soil Vapor Intrusion Assessment report referenced above.
- Provided, on June 21, 2016 to NYSDEC a copy of a report provided to Stantec by Accutest Laboratories entitled "*SGS Accutest Inc. – Marlboro Volatiles Data Internal Review*," summarizing the results of a review of groundwater analytical data from a West Lot site sampling event in March 2014. Accutest performed the review due to problems discovered relative to their internal QA/QC methodology. The review did not result in any substantive changes to the results.

## 2. Summary of Findings Made During the Reporting Period

The following findings were made during the reporting period:

- Results of first quarter groundwater monitoring indicated that the detected types and distribution of contaminants were similar to those of previous sampling events. No sudden increases and no statistically-significant increasing trends were observed. Statistically-significant decreasing trends were identified for three wells (MW-1 for TCE; MW-18 for cis-1,2-DCE; and MW-21 for VC). One historic maximum was identified (MW-18 for PCE); however this did not qualify as a sudden increase.
- Groundwater elevations in monitoring wells in the Solvent Dock Area were relatively consistent with historical measurements at the site. In general, the groundwater elevations indicated a higher water table when compared to the Q1 2016 event but were generally lower than what was observed during the Q2 2015 event. All groundwater elevations were within the historical ranges observed, except for MW-15BR and MW-16, both of which exceeded their respective historical maxima. Groundwater flow continues to reflect the influence of and capture by the GCTS.

- Sub-slab soil gas and indoor air samples were collected from six newly-installed vapor monitoring point (VMP) locations in the western portion of the ConMed facility; one outdoor ambient air sample was also collected. Based on the sampling results, all of the six sampling locations were assigned No Further Action or Background designations, using the NYSDOH guidance matrices. Additionally, target volatile organic compounds (VOCs) were not present in the indoor air samples (or the outdoor ambient air sample) at concentrations above the NYSDOH air guideline values.

These findings indicate that sub-slab soil gas conditions do not have the potential to result in SVI in the western portions of the building. Based on our understanding of the regulatory directives regarding SVI at the site, including the Remedial Action Objectives described in NYSDEC's March 2015 *Final Statement of Basis*, Lockheed Martin considers the data to be sufficient to allow the NYSDEC and NYSDOH to determine that no further investigations are warranted in the western portion of the building.

- Impacts to soil by VOCs in FNP Area 2 were further characterized by the supplemental investigations and limits of impacts were established on the east and west sides of the study area. Exceedances to protection of groundwater soil cleanup objectives (POGW SCOs) may still exist slightly beyond the southern boundary of the investigation. Additional exceedances of commercial SCOs for PCBs were observed in some surface soil samples in each of the three PCB sampling areas. Preparation of a report summarizing the results of these investigations is underway.

### **3. Summary of Changes Made During the Reporting Period**

- No Changes made during the reporting period.

### **4. Summary of Contacts Made with Representatives of the Local Community and Public Interest Groups During the Reporting Period**

- No interaction occurred with local community or public interest groups during the reporting period.

### **5. Summary of Problems Encountered During the Reporting Period**

- No significant problems were encountered during the reporting period.

### **6. Changes in Personnel Conducting or Managing the Corrective Measures During the Reporting Period**

- No changes in project personnel were made during the reporting period.

### **7. Summary of Work Planned for the Next Reporting Period**

The following activities are scheduled or anticipated for completion during the next reporting period:

- Continue operation and maintenance of the GCTS, including monthly effluent sampling for compliance with the existing SPDES permit and quarterly sampling and monitoring; data to be provided as part of the monthly Discharge Monitoring Reports, and quarterly system OM&M summaries.
- Continue operation and maintenance of the SSDS, including quarterly SSDS sampling and monitoring; data to be provided as part of the quarterly system OM&M summaries.
- Continue monthly project status calls with NYSDEC and NYSDOH.
- As needed and appropriate, continue to provide copies of project documents to the project repository (Utica Public Library) and upload electronic versions to the Lockheed Martin Solvent Dock Archive website.
- Conduct the third quarter groundwater sampling event (July 2015) in accordance with the *Draft Interim Groundwater Monitoring Program* (as amended by Stantec's December 23, 2015 letter to NYSDEC, accepted by NYSDEC on January 21, 2016) and provide a written summary of findings to NYSDEC.
- Prepare and submit to NYSDEC and NYSDOH a finalized Draft report summarizing the results of SVI sampling in the newly-installed VMPs in the western building areas.
- Prepare and submit to NYSDEC and NYSDOH a Draft report summarizing the results of the supplemental FNPD Area 2 and PCB area investigations.
- Submit a Draft Environmental Easement package (including the Draft Site Management Plan) to OCIDA and ConMed for review/comment, and obtain signatures from these parties on appropriate easement-related documents. The schedule for submittal of a final Draft Environmental Easement package to NYSDEC is dependent on completion of OCIDA and ConMed review.

End of Report