

June 2022

# Annual Periodic Review Report and IC/EC Certification

Prepared for:  
**Syracusa Sand and Gravel Inc.**

Site:  
**Modock Rd. Springs/DLS Sand & Gravel Inc. Site  
Town of Victor, Ontario County, NY  
NYSDEC Site No. 8-35-013**



**Marks**Engineering

42 Beeman Street  
Canandaigua, NY 14424

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## 1.0 EXECUTIVE SUMMARY

**Marks Engineering, P.C.** (Marks Engineering), prepared this Site Management Periodic Review Report (PRR) and IC/EC Certification for the Modock Rd. Springs/DLS Sand & Gravel, Inc. Site located in the Town of Victor, Ontario County, New York (herein referred to as the “Site”). A Site Location Map is presented as **Figure 1**. A Site Plan showing the Site location and boundaries of the Site is provided as **Figure 2**.

A series of investigations at the Site have been conducted starting in approximately 1995. The data from the investigations generally shows that chlorinated volatile organic compounds (CVOCs), including trichloroethene (TCE), 1,1,1-trichloroethane (TCA), and 1,1-dichloroethene (1,1-DCE), were likely released by parties unknown on the property in the 1960s or 1970s and have contributed to both on-site and off-site CVOC contamination in groundwater (NYSDEC, 2010). The soil into which the CVOCs were first released, however, no longer exists on the Site. On the basis of the investigations, in 2001, the New York State Department of Environmental Conservation (NYSDEC) listed the site as a Class 2 site in the Registry of Inactive Hazardous Waste Disposal Sites in New York. After subsequent site characterization, remedial investigation, feasibility study and remedial alternatives analysis, the NYSDEC’s Record of Decision (ROD) for the Site was issued in 2010 selecting monitored natural attenuation (MNA) as the remedy for the Site. The Site Management Plan (SMP), generated as a requirement of the ROD, was approved by the NYSDEC in March of 2019.

In addition to MNA, the ROD selected the following additional remedial actions for the Site: (a) an environmental easement to restrict the future use of groundwater at the Site; (b) a SMP which will require long-term plume management monitoring (PMM), maintenance of the Sub Slab Depressurization Systems (SSDSs) in several residences, long-term monitoring of soil vapor intrusion in residences requiring monitoring and periodic review reporting to the NYSDEC; and (c) a contingency for the implementation of a zero valent iron treatment injection to reduce contaminant mass in the area of highest groundwater CVOC concentrations if the results of the PMM program demonstrate that the CVOC groundwater concentrations are at concentrations not acceptable to NYSDEC and are not continuing to decline.

Institutional and Engineering Controls (ICs and ECs) have been incorporated into the Site remedy to control exposure to the remaining residual contamination to ensure protection of public health and the environment. The Environmental Easement (EE) which has been imposed on the Site, and recorded with the Ontario County Clerk, requires compliance with the SMP and all the ECs and ICs placed on the Site in the SMP.

Marks Engineering found that each component of the EE and SMP were complied with during this reporting period (December 31, 2019 through March 31, 2022):

- ICs/ECs have been in place and effective,
- The Site Monitoring Plan including groundwater and surface water monitoring, soil vapor monitoring and soil vapor intrusion monitoring were performed as required during the reporting period,
- The Site Operation and Maintenance (O&M) Plan including inspections and maintenance of the SSDSs were performed as required.
- The annual Site-Wide Inspection and PRR (this Report) were completed.

Based upon these activities and compliance with the SMP, the Site remedy continues to meet the remedial objectives set forth in the ROD and SMP. No changes to the requirements of the SMP are recommended at this time.

## 2.0 SITE OVERVIEW

The Modock Rd. Springs/DLS Sand & Gravel, Inc. Site is located in the Town of Victor, Ontario County, New York (herein referred to as the “Site”). A Site Location Map is presented as **Figure 1**.

The Site is a New York State Department of Environmental Conservation (NYSDEC) Class 2 Inactive Hazardous Waste Disposal Site (Site No. 8-35-013). The scope of work presented herein is consistent with the NYSDEC-approved Site Management Plan (SMP), dated March 2019, and the NYSDEC ROD, for the Site.

A Site Plan showing the Site location and boundaries of the Site is provided as **Figure 2**. The boundaries of the real property comprising the Site are more fully described in the metes and bounds description that is part of the EE attached in Appendix A and B of the SMP.

A detailed description of the Site and its history is provided in the SMP. A concise history of the Site is summarized as follows:

The Site is comprised of a 173-acre parcel, currently operated by Syracuse Sand and Gravel Inc. (SS&G) as an active sand and gravel mine. The Site was acquired by SS&G in 1953. Prior to SS&G's ownership, the property was used for agricultural purposes. The Site operated under the name of D.L.S. Sand and Gravel until 1973 when the corporate name was changed to Syracuse Sand and Gravel Inc. From 1966 to 1971, a portion of the property was leased to Rochester Block, Inc. (NYSDEC, 2010).

A series of investigations at the Site have been conducted starting in approximately 1995. The data from the investigations generally shows that CVOCs, including trichloroethene (TCE), 1,1,1-trichloroethane (TCA), and 1,1-dichloroethene (1,1-DCE), were likely released by parties unknown on the property in the 1960s or 1970s and have contributed to both on-site and off-site CVOC contamination in groundwater (NYSDEC, 2010). The soil into which the CVOCs were first released, however, no longer exists on the Site. On the basis of the investigations, in 2001, the Department listed the site as a Class 2 site in the Registry of Inactive Hazardous Waste Disposal Sites in New York. After subsequent site characterization, remedial investigation, feasibility study and remedial alternatives analysis, the ROD for the Site was issued in 2010 selecting monitored natural attenuation (MNA) as the remedy for the Site. The SMP, generated as a requirement of the ROD, was approved by the NYSDEC in March of 2019.

In addition to MNA, the ROD selected the following additional remedial actions for the Site: (a) an environmental easement to restrict the future use of groundwater at the Site; (b) a SMP which will require long-term PMM, maintenance of the SSDSs in several residences, long-term monitoring of soil vapor intrusion in residences requiring monitoring and periodic review reporting to the NYSDEC; and (c) a contingency for the implementation of a zero valent iron treatment injection to reduce contaminant mass in the area of highest groundwater CVOC concentrations if the results of the PMM program demonstrate that the CVOC groundwater concentrations are at concentrations not acceptable to NYSDEC and are not continuing to decline.

### 3.0 REMEDY PERFORMANCE, EFFECTIVENESS AND PROTECTIVENESS

The ROD for the Site selected MNA as the remedy for the Site. In addition to MNA, the ROD selected the following additional remedial actions for the Site summarized as follows:

(a) Imposition of an institutional control in the form of an environmental easement at the Site that will require compliance with the approved site management plan; restricting the use of groundwater as a source of potable water, without necessary water quality treatment as determined by NYSDOH; and the property owner to complete and submit to the Department a periodic certification of institutional controls.

Compliance Acknowledgement: The EE which has been imposed on the Site, and recorded with the Ontario County Clerk, requires compliance with this SMP and all the ECs and ICs placed on the Site in the SMP. The Site Owner is currently operating in compliance with the requirements of the EE.

(b) a SMP which will require long-term PMM, maintenance of the SSDSs in several residences, long-term monitoring of soil vapor intrusion in residences requiring monitoring and periodic review reporting to the NYSDEC.

Compliance Acknowledgement: Marks Engineering found that each component of the SMP was complied with during this reporting period (December 31, 2019 through March 31, 2022):

- ICs/ECs have been in place and effective,
- The SMP activities, including groundwater and surface water monitoring, soil vapor monitoring and soil vapor intrusion monitoring, were performed during the reporting period,
- The Site Operation and Maintenance (O&M) Plan including inspections and maintenance of the SSDSs were performed as required.
- The annual Site-Wide Inspection and PRR (this Report) were completed.

(c) a contingency for the implementation of a zero valent iron treatment injection to reduce contaminant mass in the area of highest groundwater CVOC concentrations if the results of the PMM program demonstrate that the CVOC groundwater concentrations are at concentrations not acceptable to NYSDEC and are not continuing to decline.

Compliance Acknowledgement: The PMM program includes groundwater, surface water and soil vapor monitoring. These monitoring events are documented in a series of reports prepared by Marks Engineering during this reporting period including:

- Four quarterly groundwater and surface water monitoring reports for sampling conducted in August 2020, October 2020, February 2021 and April 2021.
- Four quarterly soil vapor monitoring reports for sampling conducted in July 2020, October 2020, January 2021 and April 2021.

Copies of the quarterly groundwater and surface water monitoring report for the April 2021 sample event and the quarterly soil vapor monitoring report for the April 2021 event are included herein as **Attachment A** and **Attachment B**, respectively. The reports include summary tables of detections of CVOCs in groundwater, surface water and soil vapor and time series plots that analyze the data trends.

Both reports concluded that the concentrations of CVOCs with the plume continue to decline and that the zero valent iron contingency is not necessary at this time. The detected concentrations of TCE, TCA and DCE in soil vapor during the April 2021 sample event are overall much lower (TCE was detected at concentrations ranging from non-detect [ND] to 11.4 ug/m<sup>3</sup>, TCA from ND to 466.02 ug/m<sup>3</sup> and DCE from ND to 4.84 ug/m<sup>3</sup>) than those previously detected within the plume as summarized in the ROD (TCE was previously detected at concentrations ranging from ND to 1,700 ug/m<sup>3</sup>, TCA from ND to 5,900 ug/m<sup>3</sup> and DCE from ND to 1,100 ug/m<sup>3</sup>) (NYSDEC, 2010) which supports that MNA is occurring. Similarly for groundwater and surface water the overall data trend, for samples dating back as far as 1990, shows that the concentrations of the CVOCs in the plume are continuing to decline; indicating that natural attenuation of contaminants continues to occur, and satisfying the objectives of the remedy (long term PMM and monitored natural attenuation) selected for the Site in the ROD.

## 4.0 IC/EC PLAN COMPLIANCE

### 4.1 IC Requirements

A series of Institutional Controls (ICs) are required for the land on-Site which is either above the plume of CVOC subsurface contamination or in close enough proximity to the subsurface contamination to hold the potential for SVI. Those ICs will be implemented by the owner pursuant to the requirements of the EE including to: (1) implement, maintain, and monitor the ECs; (2) prevent future exposure to remaining contamination by controlling disturbances of the Site; and, (3) limit the use and development of the Site to commercial uses only. Adherence to these ICs on the Site is required by the EE and will be implemented under the SMP. The IC boundary is described in the Metes and Bounds description provided in Appendix B of the SMP and depicted on **Figure 2**. These ICs are:

- Compliance with the EE and the SMP by the Grantor and the Grantor's successors and assigns;
- All ECs must be operated and maintained as specified in the SMP;
- All ECs must be inspected at a frequency and in a manner defined in the SMP;
- Groundwater, surface water, soil vapor and soil vapor intrusion monitoring must be performed as defined in the SMP;
- Data and information pertinent to Site Management must be reported at the frequency and in a manner defined in the SMP;
- The proper operation and maintenance of the components of the remedy will continue until the remedial objectives have been achieved, or until the NYSDEC determines that continued operation is technically impractical or not feasible;
- All future activities that will disturb remaining contaminated material, including the excavation of soils below the groundwater table, must be conducted in accordance with the SMP. Any materials produced by such activities must be managed as potentially impacted material;
- Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in the SMP;
- Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical component of the remedy shall be performed as defined in the SMP;

- Access to the Site must be provided to agents, employees or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by the EE;
- The Site owner or remedial party will submit to the NYSDEC a written statement that certifies, under penalty of perjury, that: (1) controls employed at the Site are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and, (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitutes a violation or failure to comply with the SMP. NYSDEC retains the right to access the Site at any time in order to evaluate the continued maintenance of any and all controls. This certification shall be submitted annually, or at an alternate period of time that NYSDEC may allow and will be made by an expert that the NYSDEC finds acceptable.

ICs identified in the EE may not be discontinued without an amendment to or extinguishment of the EE.

The Site has a series of ICs in the form of Site restrictions. Adherence to these ICs is also required by the EE. Site restrictions that apply to the Site are:

- The Site may only be used for Restricted “Commercial Use” as defined in 6 NYCRR Part 375-1.8(g)(2)(iii) and consistent with local zoning and only provided that the long-term Engineering and Institutional Controls included in this SMP are employed.
- The Controlled Property may not be used for a higher level of use, such as Unrestricted Use, Residential Use, or Restricted Residential Use (as defined in 6 NYCRR Part 375-1.8(g), without additional remediation and amendment of the Environmental Easement, as approved by the NYSDEC;
- The use of the groundwater underlying the Controlled Property is prohibited without necessary water quality treatment as determined by the NYSDOH or Ontario County Department of Health to render it safe for use as drinking water (but not restricting the use of the uncontaminated bedrock groundwater as a source of industrial water), and the user must first notify and obtain the written approval to do so from the NYSDEC;
- The excavation of soils below the groundwater table is prohibited without prior approval of the NYSDEC;
- With respect to any structure to be developed on the Controlled Property, and to the extent permitted by the owners of any newly built structures within the boundaries of the groundwater plume, the potential for vapor intrusion must be evaluated, and any potential impacts that are identified must be monitored or mitigated;
- Vegetable gardens and farming on the Site are prohibited;
- A contingency requirement for ZVI injection as described in this SMP, if warranted based on long-term plume management monitoring; and NYSDEC retains the right to access the Site at any time in order to evaluate the continued maintenance of any and all controls.

#### 4.2 EC Requirements

The Site ECs outlined in the SMP are as follows:

- **Monitoring Well Network and Surface Water Sampling** - The monitoring well network of approximately 50 wells has been installed based on the most likely shape and depth of the contaminant plume, and to determine the margins of the plume. Periodic groundwater sampling of representative wells functions over time to determine the attenuation rate of the target contaminants.
- **Soil Vapor Monitoring Points** – The soil vapor monitoring network includes 12 permanent soil vapor probes installed within and at the boundary of the plume. Periodic sampling of the soil vapor probes is required in coordination with the sampling of groundwater and surface water.
- **Contingent Zero Valent Iron Injections** - In the event that long-term monitoring of the plume indicates that enhanced contaminant reduction is necessary because the CVOC groundwater concentrations do not continue to decline to asymptotic level with concentrations acceptable to NYSDEC, ZVI injection will be implemented in the northern portion of the Site, where historically CVOC concentrations are highest.
- **SSDSs** - Exposure to remaining contamination in soil vapor at the Site and off-site is prevented by operation of the SSDSs installed at residential properties located within the boundaries of the groundwater plume. The SSDSs are required to be inspected and maintained in accordance with the SMP.

### 4.3 IC/EC Compliance

The NYSDEC-approved EE and SMP is in place. The required IC/ECs were performed in accordance with the EE and the SMP during this reporting period. The Site restrictions have been complied with during this reporting period.

### 4.4 IC/EC Certification

The IC/EC certification is included in **Appendix A** of this PRR.

## 5.0 MONITORING PLAN COMPLIANCE

The SMP includes a Site Monitoring Plan which requires groundwater and surface water monitoring, soil vapor monitoring and soil vapor intrusion monitoring.

### 5.1 Groundwater and Surface Water Monitoring

In accordance with the SMP, four quarterly groundwater and surface water monitoring events were required for this reporting period. The required sampling was performed in August 2020, October 2020, February 2021 and April 2021 at eleven monitoring wells (MW-4, MW-10, MW-13, MW-14, MW-15, MW-16, MW-17s, MW-23, MW-24s, MW-26 and SS&G MW-3) and one surface water location (SC-1). The most recent (April 2021) sample event report is included herein as **Attachment A**. As discussed in Section 3, the overall data trend, for samples dating back as far as 1990, shows that the concentrations of the CVOCs in the plume are continuing to decline; indicating that natural attenuation of contaminants continues to occur, and satisfying the objectives of the remedy (long term PMM and monitored natural attenuation) selected for the Site in the ROD.

Groundwater monitoring for volatile organic compounds, including CVOCs, at the same subset of eleven monitoring wells (MW-4, MW-10, MW-13, MW-14, MW-15, MW-16, MW-17s, MW-23, MW-24s, MW-26 and SS&G MW-3) will continue on an annual frequency with the first sample event to be conducted in the fall of 2022. As in the past, soil vapor sampling will continue to be scheduled at the same time as the groundwater sampling event.

### 5.2 Soil Vapor Monitoring

In accordance with the SMP, one annual event and four quarterly soil vapor monitoring events were required for this reporting period. The required sampling was performed in February 2020 for the annual event at twelve permanent soil vapor probes (SV-01 through SV-12) and in July 2020, October 2020, January 2021 and April 2021 at six permanent soil vapor probes (SV-01, SV-02, SV-03, SV-04, SV-08 and SV-11) for the quarterly events. The most recent (April 2021) sample event report is included herein as **Attachment B**. As discussed in Section 3, the concentrations of CVOCs in soil vapor within the plume continue to decline. The detected concentrations of TCE, TCA and DCE in soil vapor during the April 2021 sample event are overall much lower (TCE was detected at concentrations ranging from non-detect [ND] to 11.4 ug/m<sup>3</sup>, TCA from ND to 466.02 ug/m<sup>3</sup> and DCE from ND to 4.84 ug/m<sup>3</sup>) than those previously detected within the plume as summarized in the ROD (TCE was previously detected at concentrations ranging from ND to 1,700 ug/m<sup>3</sup>, TCA from ND to 5,900 ug/m<sup>3</sup> and DCE from ND to 1,100 ug/m<sup>3</sup>) (NYSDEC, 2010) which supports that MNA is occurring.

Due to problems with soil vapor recovery at some sample locations during the February 2020 sample event, the NYSDEC has requested another full round of sampling at all 12 soil vapor point locations to be conducted in 2022 (concurrent with a groundwater sample event as in the past). Soil Vapor Point SV-09 will be abandoned and redrilled/replaced with a new soil vapor point (SV-09R) adjacent to the original location. A new Soil Vapor Point (SV-13) will be installed on property owned by SSG across the street from residential structures at 7532 Dryer Road and 7540 Dryer Road.

### 5.3 Soil Vapor Intrusion Monitoring

In accordance with the SMP, soil vapor intrusion monitoring was required at four homes for this reporting period. The required sampling was performed in March 2022 at two residences. The other two residences were not available at this time for sampling or did not respond to communications requesting access to sample. The results of the soil vapor intrusion sampling are pending and will be discussed in a forthcoming soil vapor intrusion monitoring report submitted under separate cover.

### 5.4 Site-Wide Inspection

The annual Site-Wide Inspection was completed this reporting period on March 21, 2022. The inspection observations are documented on the Site-Wide Inspection Form included as **Attachment C**. The IC/EC certification associated with the Site-Wide Inspection is included as **Appendix A**.

## 6.0 OPERATIONS AND MAINTENANCE PLAN COMPLIANCE

The Site Operation and Maintenance (O&M) Plan includes inspections and maintenance of the SSDSs identified in the SMP. A letter report dated April 27, 2022 was submitted to the NYSDEC; and revised on June 23, 2022 on the basis of comments received by the NYSDEC. The report summarized the results of SSDS inspections at 16 residences during this reporting period; four homeowners did not respond to requests for access to inspect their SSDS. A recommendation to install two new SSDSs was included in the report and the recommendation was approved by the NYSDEC. Installation of these new SSDS is forthcoming but not complete at the time of writing of this report. The SSDS inspection report is included herein as **Attachment D**.

## 7.0 CONCLUSIONS AND RECOMMENDATIONS

Marks Engineering found that each component of the EE and SMP were complied with during this reporting period (December 31, 2019 through March 31, 2022):

- ICs/ECs have been in place and effective,
- The Site Monitoring Plan including groundwater and surface water monitoring, soil vapor monitoring and soil vapor intrusion monitoring were performed during the reporting period,
- The Site O&M Plan including inspections and maintenance of the SSDSs were performed as required.
- The annual Site-Wide Inspection and PRR (this Report) were completed.

Based upon these activities and compliance with the SMP, the Site remedy continues to meet the remedial objectives set forth in the ROD and SMP. No changes to the requirements of the SMP are recommended at this time. The groundwater, surface water and soil vapor monitoring will be conducted annually as described in Section 5 until a change in the monitoring frequency and/or scope is approved by the NYSDEC.

## 8.0 REFERENCES

Bristol Consulting and Marks Engineering, P.C., 2019, *Site Management Plan*, Modock Road Springs/DLS Sand and Gravel, Inc. Inactive Hazardous Waste Site, Town of Victor, Ontario County, New York Site Number 8-35-013, March 2019

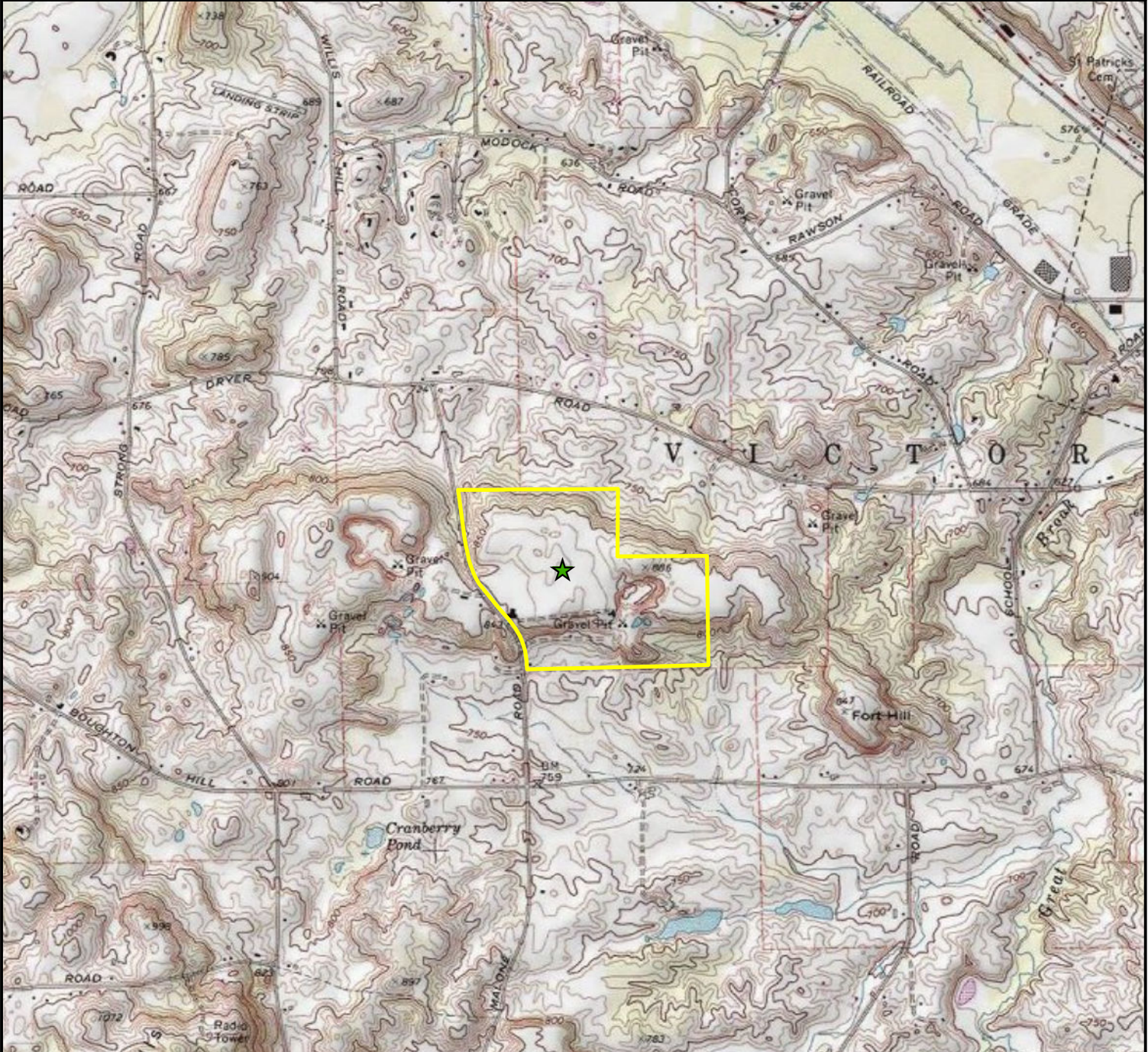
NYSDEC, 2010, *Record of Decision*, Modock Road Springs/DLS Sand and Gravel, Inc. Site Town of Victor, Ontario County, New York Site Number 8-35-013, January 2010







## Figures

# FIGURE 1 SITE LOCATION



## LEGEND

3,000 1,500 0 3,000 Feet

-  PROJECT LOCATION
-  SITE BOUNDARY

**MODOCK RD SPRINGS/  
 DLS SAND & GRAVEL INC.**  
 1389 MALONE ROAD  
 VICTOR, NEW YORK 14564  
 NYSDEC SITE NO. 8-35-013

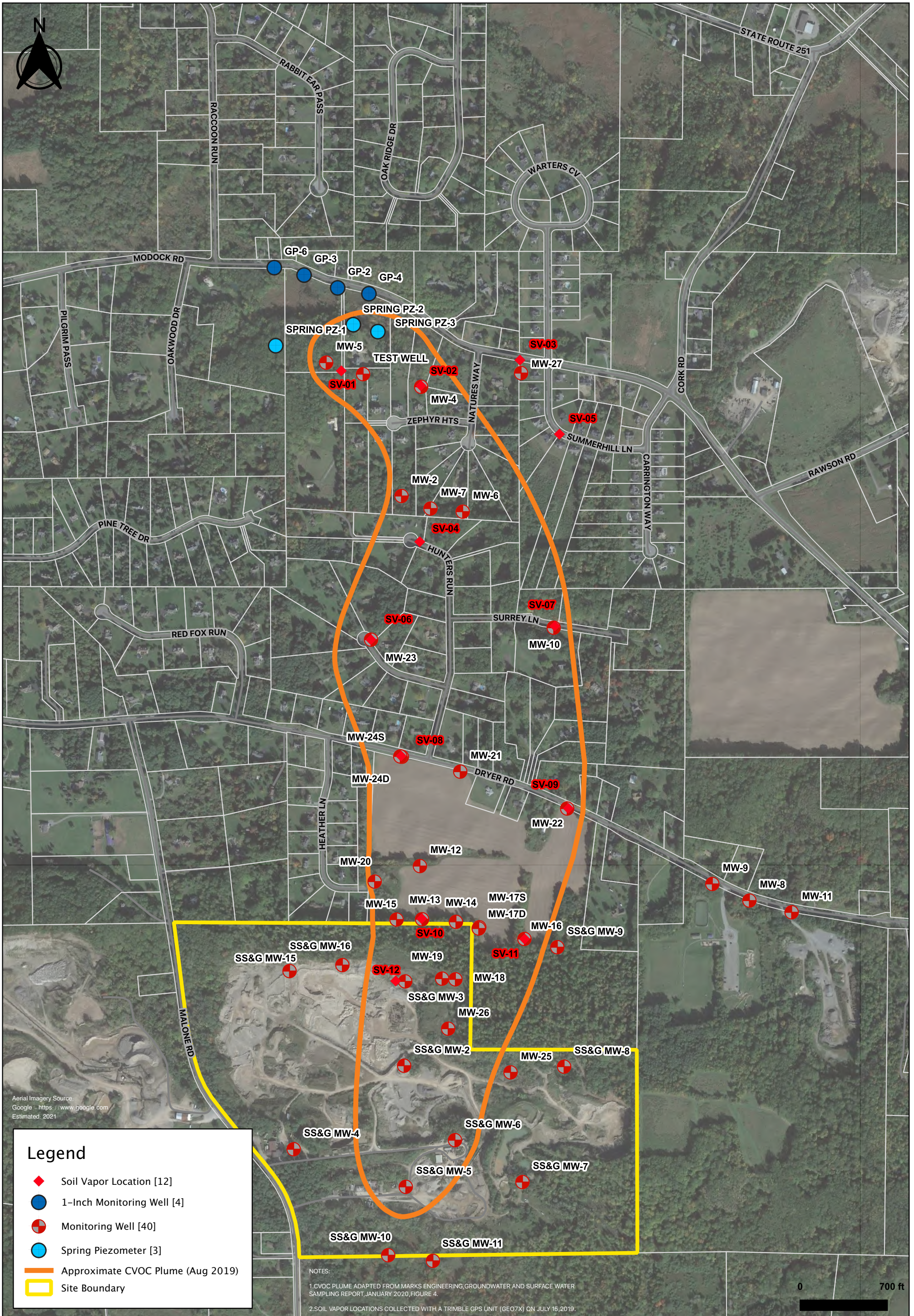


NEW YORK STATE -  
ONTARIO COUNTY

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 USGS TOPOGRAPHIC QUAD  
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**Marks**Engineering





## **Appendix 1 – IC/EC Certification Form**



**Enclosure 2**  
**NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION**  
**Site Management Periodic Review Report Notice**  
**Institutional and Engineering Controls Certification Form**



**Site Details**

**Site No.**            **835013**

**Box 1**

**Site Name** **Modock Springs-DLS Sand and Gravel, Inc.**

Site Address: Malone Road    Zip Code: 14564  
 City/Town: Victor (T)  
 County: Ontario  
 Site Acreage: 173.000

Reporting Period: December 31, 2019 to March 31, 2022

- |  | YES                                 | NO                                  |
|--|-------------------------------------|-------------------------------------|
| 1. Is the information above correct?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| If NO, include handwritten above or on a separate sheet.   |                                     |                                     |
| 2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?                              | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| 4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?                      | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |
| <b>If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.</b> |                                     |                                     |
| 5. Is the site currently undergoing development?   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |

**Box 2**

- |   | YES                                 | NO                       |
|---|-------------------------------------|--------------------------|
| 6. Is the current site use consistent with the use(s) listed below? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 7. Are all ICs in place and functioning as designed?                | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

**IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.**

**A Corrective Measures Work Plan must be submitted along with this form to address these issues.**

\_\_\_\_\_  
 Signature of Owner, Remedial Party or Designated Representative

\_\_\_\_\_  
 Date

**Description of Institutional Controls**

<u>Parcel</u> <b>27.00-1-62.00</b>	<u>Owner</u> DLS SAND & GRAVEL, INC.	<u>Institutional Control</u>  Ground Water Use Restriction Site Management Plan
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Imposition of an institutional control in the form of an environmental easement at the Syracuse Sand and Gravel, Inc. property that will require (a) compliance with the approved site management plan; (b) restricting the use of groundwater as a source of potable water, without necessary water quality treatment as determined by NYSDOH; and (c) the property owner to complete and submit to the Department a periodic certification of institutional controls.

5. Development of a site management plan, including periodic reviews (nominally five years), which will include the following institutional controls: (a) continued evaluation of the potential for vapor intrusion for any buildings developed on the site, including provision for mitigation of any impacts identified; (b) monitoring of site groundwater, surface water, and soil vapor and following collection, the placement of the analytical results into the document repositories; (c) public disclosure of the plume management monitoring results and the evaluation of long-term trends in the analytical data; (d) identification of any use restrictions on the site; and (e) provisions for the continued proper operation and maintenance of the components of the remedy.

6. The property owner for the site will provide a periodic certification of institutional controls, prepared and submitted by a professional engineer or such other expert acceptable to the Department, until the Department notifies the property owner for the site in writing that this certification is no longer needed. This submittal will: (a) contain certification that the institutional controls put in place are still in place and are either unchanged from the previous certification or are compliant with Department-approved modifications; (b) allow the Department access to the site; and (c) state that nothing has occurred that will impair the ability of the control to protect public health or the environment, or constitute a violation or failure to comply with the site management plan unless otherwise approved by the Department.

**Description of Engineering Controls**

<u>Parcel</u> <b>27.00-1-62.00</b>	<u>Engineering Control</u>  Vapor Mitigation Fencing/Access Control
---------------------------------------	--

### Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the Engineering Control certification;

b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and complete.

YES NO

2. For each Engineering control listed in Box 4, I certify by checking "YES" below that all of the following statements are true:

(a) The Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

(b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

(c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

(d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

(e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES NO

**IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.**

**A Corrective Measures Work Plan must be submitted along with this form to address these issues.**

\_\_\_\_\_  
Signature of Owner, Remedial Party or Designated Representative

\_\_\_\_\_  
Date

**IC CERTIFICATIONS  
SITE NO. 835013**

**Box 6**

**SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE**

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Jeremy Wolf at Marks Engineering, 42 Beeman St., Canandaigua, NY 14424,  
print name print business address

am certifying as Owner's Representative (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.



4/28/22

Signature of Owner, Remedial Party, or Designated Representative  
Rendering Certification

Date



**EC CERTIFICATIONS**

**Box 7**

**Qualified Environmental Professional Signature**

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Brennan Marks, PE at Marks Engineering, 42 Beeman St., Canandaigua, NY 14424,  
print name print business address

am certifying as a Qualified Environmental Professional for the Owner's Representative  
(Owner or Remedial Party)



Signature of Qualified Environmental Professional, for  
the Owner or Remedial Party, Rendering Certification

Stamp  
(Required for PE)

06/23/22  
Date



**Attachment A –  
Quarterly Groundwater and Surface Water  
Sampling Report, April 2021 Sample Event**

September 2021

# Quarterly Groundwater and Surface Water Sampling Report

## April 2021 Sample Event

Prepared for:  
**Syracusa Sand and Gravel Inc.**

Site:  
**Modock Rd. Springs/DLS Sand & Gravel Inc. Site**  
**Town of Victor, Ontario County, NY**  
**NYSDEC Site No. 8-35-013**



**Marks**Engineering

42 Beeman Street  
Canandaigua, NY 14424

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- A) Laboratory Report (Results Only)
- B) Laboratory Report (Full Category B Package) (Provided electronically)
- C) Data Usability Summary Report (DUSR)
- D) Electronic Data Deliverable (EDD) (Provided electronically)

## 1.0 INTRODUCTION

**Marks Engineering, P.C.** (Marks Engineering), conducted an on-site and off-site quarterly groundwater and surface water sample event in April of 2021 at the Modock Rd. Springs/DLS Sand & Gravel, Inc. Site located in the Town of Victor, Ontario County, New York (herein referred to as the “Site”). A Site Plan and Groundwater Sample Location Map is presented as **Figure 1**.

The Site is a New York State Department of Environmental Conservation (NYSDEC) Class 2 Inactive Hazardous Waste Disposal Site (Site No. 8-35-013). The scope of work presented herein is consistent with the NYSDEC-approved Site Management Plan (SMP), dated March 2019, and the NYSDEC Record of Decision (ROD), for the Site.

The April 2021 quarterly groundwater and surface water sample event, the findings of which are discussed in this Report, is part of the SMP and ROD’s long-term plume management monitoring (PMM) program to evaluate plume stability and the natural reduction of the chlorinated volatile organic compound (CVOC) contamination over time. This quarterly sample event included 11 groundwater monitoring wells (MW-4, MW-10, MW-13, MW-14, MW-15, MW-16, MW-17s, MW-23, MW-24s, MW-26 and SS&G MW-3) and one surface water location (SC-1) as described in the SMP. It is noted that one well not initially specified in the SMP for quarterly sampling (MW-26) was added to the locations to be sampled this quarterly event as a result of the findings of the baseline sample event conducted in August of 2019 (Marks Engineering, 2020).

This Report provides a summary of the groundwater and surface water sample event and is organized as follows:

- **Site Description and History** (Section 2) – presents a summary of the history and description of the Site.
- **Scope of Work** (Section 3) – provides details on the scope of work and procedures that were used during the sample event.
- **Results** (Section 4) – presents the field observations, findings and analytical results for laboratory samples collected during the sample event.
- **Evaluation of Results and Conclusions** (Section 5) – presents an evaluation of the results and data.

## 2.0 SITE DESCRIPTION AND HISTORY

A detailed description of the Site and its History is provided in the SMP. A concise history of the Site is summarized as follows:

The Site is comprised of a 173-acre parcel, currently operated by Syracuse Sand and Gravel Inc. (SS&G) as an active sand and gravel mine. The Site was acquired by SS&G in 1953. Prior to SS&G’s ownership, the property was used for agricultural purposes. The Site operated under the name of D.L.S. Sand and Gravel until 1973 when the corporate name was changed to Syracuse Sand and Gravel Inc. From 1966 to 1971, a portion of the property was leased to Rochester Block, Inc. (NYSDEC, 2010).

A series of investigations at the Site have been conducted starting in approximately 1995. The data from the investigations generally shows that CVOCs, including trichloroethene (TCE), 1,1,1-trichloroethane (TCA), and 1,1-dichloroethene (1,1-DCE), were likely released by parties unknown on the property in the 1960s or 1970s and have contributed to both on-site and off-site CVOC contamination in groundwater (NYSDEC, 2010). The soil into which the CVOCs were first released; however, no longer exists on the Site. On the basis of the investigations, in 2001, the Department listed the site as a Class 2 site in the Registry of Inactive Hazardous Waste Disposal Sites in New York. After subsequent site characterization, remedial investigation, feasibility study and remedial alternatives analysis, the ROD for the Site was issued in 2010 selecting monitored natural attenuation (MNA) as the remedy for the Site. The SMP, generated as a requirement of the ROD, was approved by the NYSDEC in March of 2019.

In addition to MNA, the ROD selected the following additional remedial actions for the Site: (a) an environmental easement to restrict the future use of groundwater at the Site; (b) a SMP which will require long-term PMM, maintenance of the Sub Slab Depressurization Systems (SSDSs) in several residences, long-term monitoring of soil vapor intrusion in residences requiring monitoring and periodic review reporting to the NYSDEC; and (c) a contingency for the implementation of a zero valent iron treatment injection to reduce contaminant mass in the area of highest groundwater CVOC concentrations if the results of the PMM program demonstrate that the CVOC groundwater concentrations are at concentrations not acceptable to NYSDEC and are not continuing to decline.

### 3.0 SCOPE OF WORK

This section provides details on the scope of work and procedures that were used during implementation of the 4<sup>th</sup> quarterly groundwater and surface water sample event required by the SMP. The primary components of the scope of work were as follows:

- Completion of a quarterly groundwater sample event (see Table 3 of the SMP) using passive diffusion sampling bags (PDBs) installed at 11 existing groundwater monitoring wells (MW-4, MW-10, MW-13, MW-14, MW-15, MW-16, MW-17s, MW-23, MW-24s, MW-26 and SS&G MW-3). It is noted that one well not initially specified in the SMP for quarterly sampling (MW-26) was added to the locations to be sampled in this quarterly event as a result of the findings of the baseline sample event conducted in August of 2019 (Marks Engineering, 2020).
- Collection of 11 groundwater samples for laboratory analysis for Target Compound List (TCL) VOCs, including CVOCs, in accordance with USEPA Method 8260.
- Completion of a quarterly surface water sample event (See Table 3 of the SMP) from one surface water location (SC-1) associated with Modock Road Springs for laboratory analysis for TCL VOCs, including CVOCs, in accordance with USEPA Method 8260.
- Collection of Quality Assurance/ Quality Control (QA/QC) samples including a trip blank, equipment blank, blind field duplicates and Matrix Spike/Matrix Spike Duplicate (MS/MSD) samples.
- Completion of a 3<sup>rd</sup> party Data Usability Summary Report (DUSR) to review, qualify and validate the analytical laboratory data generated during this sample event.
- Submittal of electronic data deliverables (EDDs) of the sample event data to the NYSDEC for inclusion in the Site's existing EQULS database.

### 3.1 Sampling of Groundwater Monitoring Wells and Surface Water

#### 3.1.1 Purpose and Objectives

The April 2021 groundwater and surface water sample event, the findings of which are discussed in this Report, is part of the ROD's long-term PMM program for the Site. The objective of the PMM program is to evaluate plume stability and the natural reduction of the Site's CVOC contamination over time.

#### 3.1.2 Methodology and Procedures

A total of 11 PDBs were installed in 11 existing groundwater monitoring wells (MW-4, MW-10, MW-13, MW-14, MW-15, MW-16, MW-17s, MW-23, MW-24s, MW-26 and SS&G MW-3) at the Site on April 7, 2021, see **Table 1**. The locations of the monitoring wells are depicted on **Figure 1**. The conditions of the monitoring wells, as well as the actions undertaken to remedy any previously noted deficiencies, is also noted on **Table 1**.

Prior to the installation of each PDB, the depth to water and depth to bottom of each well was gauged using a decontaminated water level probe. The field measurements were used to calculate the standing water column in each well. New nitrile gloves were donned by field personnel prior to the handling and installation of each PDB. PDBs were installed at the center of the standing water column or the midpoint of the well screen (whichever was less) using new nylon twine and a stainless-steel bottom weight. The weight was suspended from the bottom of the PDB with an appropriate length of string, the PDB and weight were slowly lowered to the bottom of the well (*i.e.*, the weight was felt to hit bottom and the suspension string affixed to the top of the PDB slacked) and the suspension string was secured at the surface at the top of the well casing. Field measurements were recorded on a field log included as **Appendix A**.

A surface water sample was collected on April 21, 2021 from one surface location (SC-1) associated with Modock Road Springs, depicted on **Figure 2**. The surface water sample was collected directly from the surface water using a decontaminated HDPE dipper. It is noted that the sample location (SC-1) was collected from the outlet of the culvert on the east side of the access road/foot path, to be consistent with past sampling practices. Field measurements collected during surface water sampling were recorded on a field log included as **Appendix B**.

The water level probe and the non-disposable sampling equipment (e.g., the HDPE dipper) were decontaminated using an Alconox®/potable water wash and a separate potable water rinse. Decontamination water associated with sampling activities was discharged to the ground surface within the mine upon completion of work.

### 3.1.3 Collection and Analysis of Laboratory Samples

The PDBs were retrieved from the groundwater monitoring wells on April 21, 2021. One groundwater sample was collected for laboratory analysis from each of the 11 monitoring wells (MW-4, MW-10, MW-13, MW-14, MW-15, MW-16, MW-17s, MW-23, MW-24s, MW-26 and SS&G MW-3). Samples were collected by retrieving each PDB from the respective well and placing the PDB on a new sheet of polyethylene sheeting. A corner of the PDB was cut with a pair of decontaminated scissors and the contents of the PDB were collected in appropriate laboratory-supplied sample containers. Samples were placed in a plastic cooler pre-chilled with ice and submitted under appropriate chain of custody protocols to ALS Environmental (ALS) located in Rochester, New York, for laboratory analysis for TCL VOCs, including CVOCs, in accordance with USEPA Method 8260.

The surface water sample (SC-1) was collected using a decontaminated HDPE dipper and transferred to laboratory supplied glassware. The sample was placed in a plastic cooler pre-chilled with ice and submitted under appropriate chain of custody protocols to ALS for laboratory analysis for TCL VOCs, including CVOCS, in accordance with USEPA Method 8260.

QA/QC samples for the groundwater and surface water samples including a trip blank, equipment blank, blind field duplicates and MS/MSD samples were analyzed for TCL VOCs in accordance with USEPA Method 8260. The locations where QA/QC samples were collected are specified on the field forms included as **Appendix A** and **Appendix B**.

A copy of the chain of custody form is included as **Appendix C**.

### 3.1.4 Reporting of Results and Data Validation

The laboratory report was provided in both a results only and full Category B format, provided in **Exhibit A** and **Exhibit B**, respectively. The data was reviewed by a 3<sup>rd</sup> party data validator (Environmental Data Usability in Dansville, New York) to review, qualify and validate the analytical laboratory data generated during this sample event and the data validator concluded that all results (100%) were found to be usable. A copy of the Data Usability Summary Report (DUSR) is presented as **Exhibit C**. At the request of the NYSDEC, the laboratory results were also provided in an electronic data deliverable (EDD) format. The EDD, which incorporated the validated laboratory results, was submitted electronically to the NYSDEC on June 25, 2021, see **Exhibit D**.

### 3.2 Handling of Sampling-Related Waste

The groundwater and surface water sampling activities implemented at the Site produced sampling-related waste media including the following:

- Decontamination wash water resulting from decontamination of equipment and sampling tools
- General refuse (i.e., paper towels, used tubing, used personal protective equipment [PPE], etc.).

The sampling-related waste was disposed of as follows:

- Used decontamination water was discharged to the ground surface within the mine adjacent to MW-26 at the completion of work
- Used PPE and other general refuse was placed in trash bags and disposed of as municipal trash at a sanitary landfill.

## 4.0 RESULTS

The groundwater and surface water sample analytical results were compared to the following NYSDEC standards, criteria and/or guidance values (SCGVs):

- Class GA groundwater standards and guidance values referenced in Table 1 of the NYSDEC Division of Water Technical and Operational Guidance Series 1.1.1 document titled Ambient Water Quality Standard and Guidance Values and Groundwater Effluent Limitations (TOGS 1.1.1) dated June 1998 (as amended January 1999, April 2000 and June 2004).
- Class C surface water standards and guidance values referenced in Table 1 of the NYSDEC Division of Water Technical and Operational Guidance Series 1.1.1 document titled Ambient Water Quality Standard and Guidance Values and Groundwater Effluent Limitations (TOGS 1.1.1) dated June 1998 (as amended January 1999, April 2000 and June 2004).



#### 4.1 Groundwater Sampling Results

As presented in **Table 2**, detectable concentrations of VOCs were found in groundwater samples collected at all 11 of the 11 monitoring wells sampled. Exceedances of NYSDEC groundwater SCGVs for VOCs were present at 8 of the 11 monitoring wells sampled. The exceedances of SCGVs included only three CVOCs (TCE, TCA and/or 1,1-DCE) which were previously identified as contaminants of concern at the Site in the ROD.

#### 4.2 Surface Water Sampling Results

As presented in **Table 3**, detectable concentrations of VOCs were found in the surface water sample collected at SC-01; however, no exceedances of NYSDEC surface water SCGVs for VOCs were present.

#### 4.3 Groundwater Mapping

A groundwater contour map is presented as **Figure 3**. The map depicts groundwater flow to the north/northwest which is consistent with prior mapped groundwater flow at the Site (NYSDEC, 2010). A figure depicting the total concentrations for three CVOCs (TCE, TCA and 1,1-DCE) is provided as **Figure 4**. As described in Section 5 below the overall data trend shows that the concentrations of the CVOCs in the plume are continuing to decline (See **Table 4**).

### 5.0 EVALUATION OF RESULTS, FINDINGS AND CONCLUSIONS

The April 2021 quarterly groundwater and surface water sample event, the findings of which are discussed in this Report, is part of the ROD and SMP's long-term PMM program. The objective of the PMM program is to evaluate plume stability and the natural reduction of the Site's CVOC contamination over time.

As presented in **Table 2** and **Table 3**, the laboratory results for VOC analysis of the groundwater samples collected at 11 monitoring wells and one surface water location indicate detections of three CVOCs (TCE, TCA, and/or 1,1-DCE) at 8 monitoring wells above the respective NYSDEC Class GA groundwater SCGVs; the surface water sample (SC-1) continues not to have CVOCs detected at concentrations above the respective NYSDEC Class C surface water SCGVs.

The objective of the PMM program is to evaluate plume stability and the natural reduction of CVOCs over time; therefore, a comparison of the April 2021 analytical data to the analytical data from historic groundwater and surface water sampling events, dating back as far as 1990, is presented on **Table 4**. As illustrated on **Table 4**, the long term CVOC data trend for 10 of 11 monitoring wells sampled and the one surface water location sampled is down (*i.e.*, decreasing concentrations of CVOC contaminants) or CVOCs were not detected. The CVOC data trend for 1 of 11 monitoring wells sampled (MW-26) is up. MW-26 only has one historic data point for comparison, when the monitoring well was initially installed and sampled back in 2008 (total CVOCs 4 ug/l); however, the sample results from 2019 to present day have been stable and or gradually decreasing with total CVOC concentrations ranging from 139.4 ug/l (October 2020) to 108 ug/l (April 2021). MW-26 is located on-site within the mine and near the estimated center of the former source area.

According to the SMP, the quarterly sample events will be used for trend analysis and to evaluate seasonal variations. Time series plots (**Appendix D**) were prepared to evaluate if seasonal trends are evident in the quarterly sampling events conducted to date (*i.e.*, August 2020, October 2020, February 2021 and April 2021) at the 11 monitoring wells and 1 surface water location sampled each quarter. Based on a review of the time series plots, a Site wide trend was apparent for the fall 2020 sample event (October 2020) where detected concentrations of CVOCs in the monitoring wells and surface water sample nominally increased for that given quarter. No other seasonal trends are evident.

The overall data trend, for samples dating back as far as 1990, shows that the concentrations of the CVOCs in the plume are continuing to decline; indicating that natural attenuation of contaminants continues to occur, and satisfying the objectives of the remedy (long term PMM and monitored natural attenuation) selected for the Site in the ROD.

The Site Monitoring Plan (Section 3) of the SMP indicates that "The frequency and well selection for groundwater, surface water and soil vapor monitoring following the first five sample events summarized in Table 3 will be evaluated with the NYSDEC and NYSDOH on the basis of the results of those events" (*i.e.*, the annual baseline groundwater monitoring event completed in August of 2019 and the four quarterly groundwater monitoring events completed in August 2020, October 2020, February 2021 and April 2021).

Due to the lack of any meaningful variations in the quarterly groundwater monitoring results and the overall decreasing trend in CVOC concentrations in the plume, we recommend groundwater monitoring for VOCs at the same subset of eleven monitoring wells (MW-4, MW-10, MW-13, MW-14, MW-15, MW-16, MW-17s, MW-23, MW-24s, MW-26 and SS&G MW-3) to continue on a three-year frequency with the first sample event conducted in the fall of 2022. As in the past, soil vapor sampling will continue to be scheduled at the same time as the groundwater sampling event.

## 6.0 REFERENCES

Bristol Consulting and Marks Engineering, P.C., 2019, *Site Management Plan*, Modock Road Springs/DLS Sand and Gravel, Inc. Inactive Hazardous Waste Site, Town of Victor, Ontario County, New York Site Number 8-35-013, March 2019

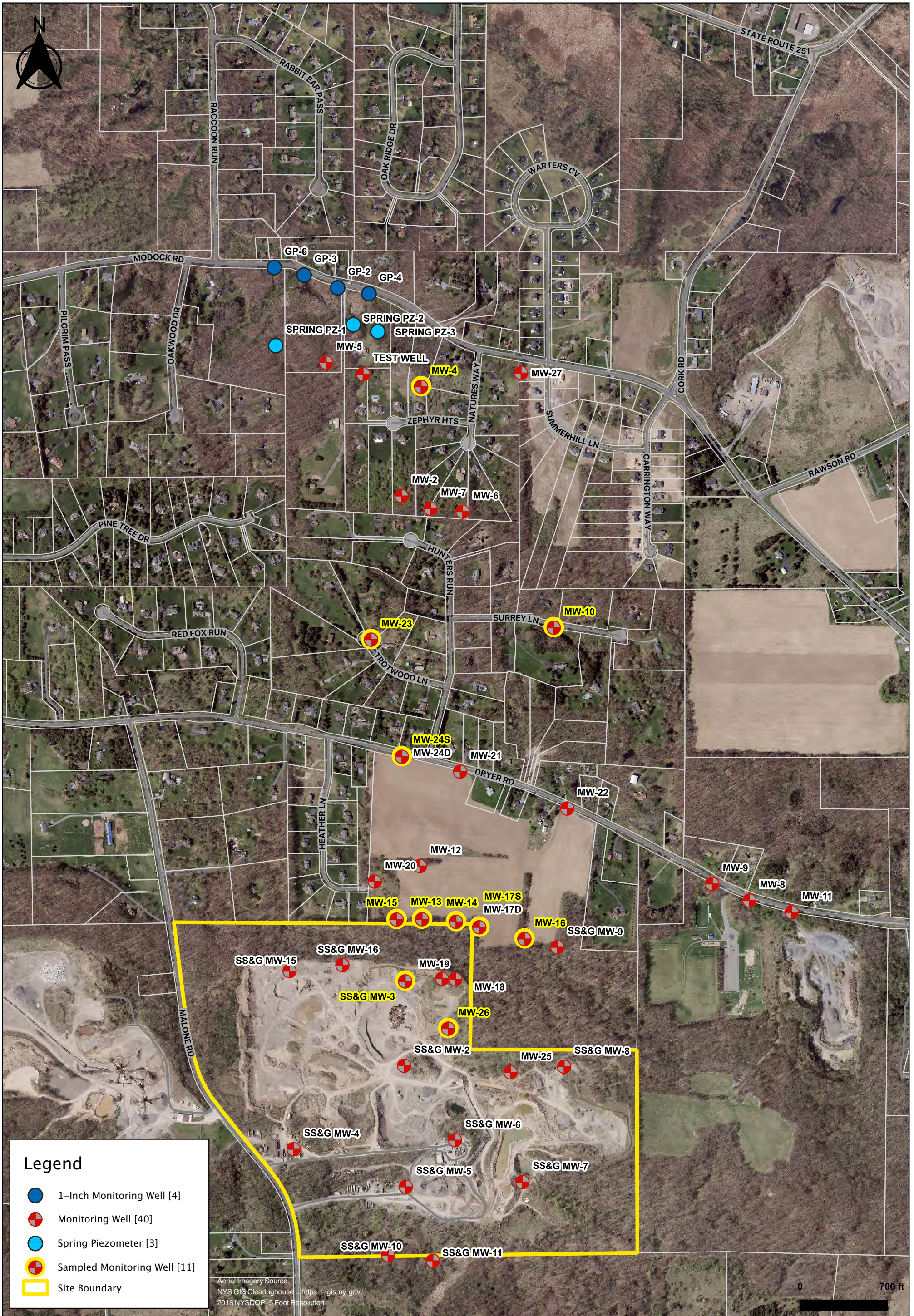
Marks Engineering, P.C., 2020, *Groundwater and Surface Water Sampling Report*, Modock Road Springs/DLS Sand and Gravel, Inc. Site, Town of Victor, Ontario County, New York Site Number 8-35-013, April 2020 revised July 2020

NYSDEC, 1998, *Ambient Water Quality Standard and Guidance Values and Groundwater Effluent Limitations - TOGS 1.1.1* (as amended January 1999, April 2000 and June 2004), Albany, New York

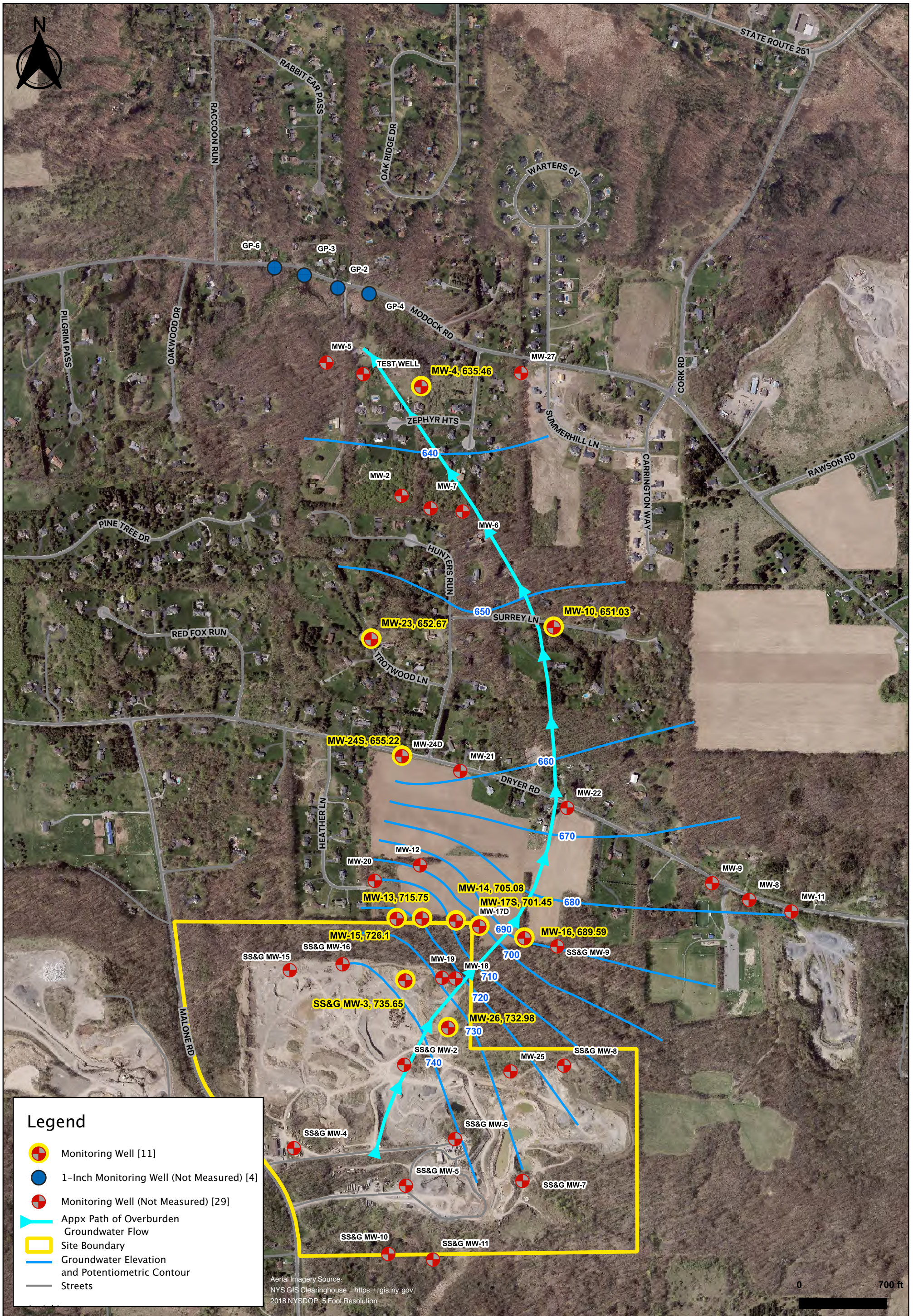
NYSDEC, 2010, *Record of Decision*, Modock Road Springs/DLS Sand and Gravel, Inc. Site Town of Victor, Ontario County, New York Site Number 8-35-013, January 2010










## Figures





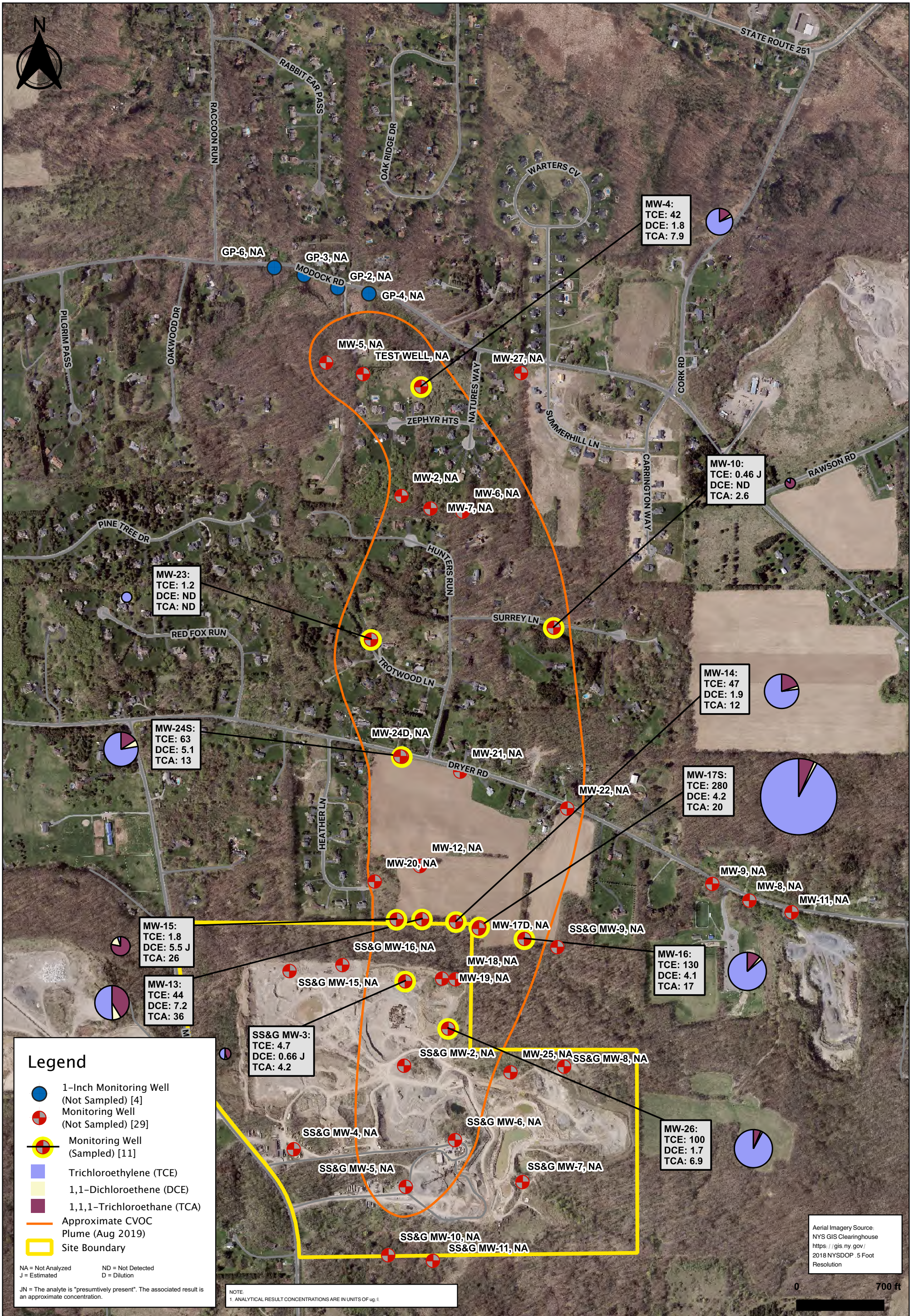


**Legend**

-  Monitoring Well [11]
-  1-Inch Monitoring Well (Not Measured) [4]
-  Monitoring Well (Not Measured) [29]
-  Appx Path of Overburden Groundwater Flow
-  Site Boundary
-  Groundwater Elevation and Potentiometric Contour
-  Streets

Aerial Imagery Source:  
 NYS GIS Clearinghouse - <https://gis.ny.gov/>  
 2018 NYS DOP, 5 Foot Resolution

0 700 ft





## Tables



Table 1  
 Summary of Monitoring Well Sampling Program  
 April 2021 Quarterly Sample Event  
 Modock Road Springs/DLS Sand Gravel Inc., Site  
 NYSDEC Site No. 8-35-013  
 Victor, New York

Well ID	Well sampled for TCL VOCs	Well sampled for "Other Parameters" (SVOCs, Metals, PCBs and Pesticides)	Well Condition
MW-4	Y	N	Good
MW-10	Y	N	Good
MW-13	Y	N	Protective standpipe (4" steel pipe) missing lid <b>OK (Replaced missing lid with plastic 4" cap 8/5/20)</b>
MW-14	Y	N	Good
MW-15	Y	N	Good
MW-16	Y	N	Good
MW-17S	Y	N	Protective standpipe (box type) bent over (has been struck). Unable to develop well, could not get 2" submersible past kink in PVC well casing. <b>Stood standpipe back up vertical. Able to sample with PDB ok (October 2020).</b>
MW-23	Y	N	PVC riser is damaged, preventing J plug from sealing properly, surface grade well not water tight. <b>Install Rubber Fernco coupler to repair and allow J plug to seal at top of well.</b>
MW-24S	Y	N	Good
MW-26	Y	N	Good
SS&G MW-3	Y	N	Protective standpipe (4" steel pipe) missing cover. PVC riser fractured at top. <b>OK placed 2" PVC slip cap over PVC riser and 5-gallon pail over standpipe 8/5/20)</b>

Notes: 1) SSG will make the repairs, upgrades and replace materials as necessary to remedy the deficits noted in Table 1 and bring all sampling locations into good condition by 11/30/2020.

Table 2  
 APRIL 2021 GROUNDWATER VOCs ANALYTICAL DATA (green shading)  
 Modock Road Springs/DLS Sand and Gravel, Inc. Site  
 (NYSDEC HW ID 8-35-013)  
 Victor, New York

CAS No.	Volatile Organic Compounds	NYS Class GA Standards	Unit	MW-2 8/21/2019	MW-4 8/21/2019	MW-4 8/5/2020	MW-4 10/22/2020	MW-4 2/3/2021	MW-4 4/21/2021	MW-5 8/21/2019	MW-6 8/21/2019	MW-7 8/21/2019	MW-8 8/21/2019	MW-9 8/21/2019	MW-10 8/21/2019	MW-10 8/5/2020	MW-10 10/22/2020	MW-10 2/3/2021	MW-10 4/21/2021
71-55-6	1,1,1-Trichloroethane (TCA)	5	ug/L	2.1	8.4	8.5	9.5	8.3	7.9	0.73 J	6.8	10	0.21 U	0.21 U	1.9	2.8	3.6	2.6	2.6
79-34-5	1,1,2,2-Tetrachloroethane	5	ug/L	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U
79-00-5	1,1,2-Trichloroethane	1	ug/L	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U
26523-64-8	Trichlorotrifluoroethane (Freon-113)	5	ug/L	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U
75-34-3	1,1-Dichloroethane	5	ug/L	0.2 U	0.37 J	0.31 J	0.49	0.35 J	0.33 J	0.2 U	0.2 U	0.82 J	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U
75-35-4	1,1-Dichloroethene (1,1-DCE)	5	ug/L	0.61 J	2.1	1.7	2.2	1.8	1.8	0.28 JN	1.1	2.7	0.25 U	0.25 U	0.25 U	0.2 U	1.0 U	1 U	1 U
87-61-6	1,2,3-Trichlorobenzene	5	ug/L	0.2 U	0.2 U	0.25 U	1.0 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.25 U	1.0 U	1 U	1 U
120-82-1	1,2,4-Trichlorobenzene	5	ug/L	0.25 U	0.25 U	0.34 U	1.0 U	1 U	1 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.34 U	1.0 U	1 U	1 U
96-12-8	1,2-Dibromo-3-Chloropropane	0.04	ug/L	0.45 U	0.45 U	0.45 U	2.0 U	2 U	2 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	2.0 U	2 U	2 U
106-93-4	1,2-Dibromoethane (Ethylene Dibromide)	NL	ug/L	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U
95-50-1	1,2-Dichlorobenzene	3	ug/L	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U
107-06-2	1,2-Dichloroethane	0.6	ug/L	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U
78-87-5	1,2-Dichloropropane	1	ug/L	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U
541-73-1	1,3-Dichlorobenzene	3	ug/L	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U
106-46-7	1,4-Dichlorobenzene	3	ug/L	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U
123-91-1	1,4-Dioxane (P-Dioxane)	NL	ug/L	13 U	13 U	13 U	40 U	40 U	40 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	40 U	40 U	40 U
78-93-3	Methyl Ethyl Ketone (2-Butanone)	50*	ug/L	0.78 U	0.78 U	0.78 U	5.0 U	5 U	5 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	5.0 U	5 U	5 U
591-78-6	2-Hexanone	50*	ug/L	0.2 U	0.2 U	0.2 U	5.0 U	5 U	5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	5.0 U	5 U	5 U
108-10-1	Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NL	ug/L	0.2 U	0.2 U	0.2 U	5.0 U	5 U	5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	5.0 U	5 U	5 U
67-64-1	Acetone	50*	ug/L	15 J	13	5 UJ	5.0 U	5 U	5 U	13	14	12 J	15	11	13	5 UJ	5.0 U	5 U	5 U
71-43-2	Benzene	1	ug/L	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U
74-97-5	Bromochloromethane	5	ug/L	0.24 U	0.24 U	0.2 U	1.0 U	1 U	1 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.2 U	1.0 U	1 U	1 U
75-27-4	Bromodichloromethane	50*	ug/L	0.22 U	0.33 J	0.2 U	1.0 U	1 U	1 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.2 U	1.0 U	1 U	1 U
75-25-2	Bromoform	50*	ug/L	0.25 UJ	0.25 U	0.25 U	1.0 U	1 U	1 U	0.25 U	0.25 U	0.25 UJ	0.25 UJ	0.25 UJ	0.25 U	0.25 U	1.0 U	1 U	1 U
74-83-9	Bromomethane	5	ug/L	0.7 U	0.7 U	0.7 U	1.0 U	1 UJ	1 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	1.0 U	1 UJ	1 U
75-15-0	Carbon Disulfide	60*	ug/L	0.25 U	0.25 U	0.42 U	1.0 U	1 U	1 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.42 U	1.0 U	1 U	1 U
56-23-5	Carbon Tetrachloride	5	ug/L	0.34 U	0.34 U	0.34 U	1.0 U	1 UJ	1 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	1.0 U	1 UJ	1 U
108-90-7	Chlorobenzene	5	ug/L	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U
75-00-3	Chloroethane	5	ug/L	0.23 U	0.23 U	0.23 U	1.0 U	1 U	1 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	1.0 U	1 U	1 U
67-66-3	Chloroform	7	ug/L	0.24 U	0.51 J	0.24 U	0.29	0.29 J	1 U	0.24 U	0.61 J	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	1.0 U	1 U	1 U
74-87-3	Chloromethane	NL	ug/L	0.28 U	0.28 J	0.28 U	1.0 U	1 U	1 U	0.31 J	0.28 U	1 U	1 U	1 U	0.28 U	0.28 U	1.0 U	1 U	1 U
110-82-7	Cyclohexane	NL	ug/L	0.26 U	0.26 U	0.26 U	1.0 U	1 U	1 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	1.0 U	1 UJ	1 U
124-48-1	Dibromochloromethane	5	ug/L	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U
75-71-8	Dichlorodifluoromethane	5	ug/L	0.21 U	0.21 U	0.21 U	1.0 U	1 U	1 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	1.0 U	1 U	1 U
75-09-2	Methylene Chloride	5	ug/L	0.36 U	0.36 U	0.65 U	1.0 U	1 U	1 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.65 U	1.0 U	1 U	1 U
100-41-4	Ethylbenzene	5	ug/L	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U
98-82-8	Isopropylbenzene (Cumene)	5	ug/L	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U
79-20-9	Methyl Acetate	NL	ug/L	0.33 U	0.33 U	0.33 U	2.0 U	2 U	2 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	2.0 U	2 U	2 U
1634-04-4	Tert-Butyl Methyl Ether	5	ug/L	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U
108-87-2	Methylcyclohexane	NL	ug/L	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U
100-42-5	Styrene	5	ug/L	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U
127-18-4	Tetrachloroethylene (PCE)	5	ug/L	0.21 U	0.21 U	0.21 U	1.0 U	1 U	1 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	1.0 U	1 U	1 U
108-88-3	Toluene	5	ug/L	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U
79-01-6	Trichloroethylene (TCE)	5	ug/L	4.9	48	45	53	44	42	1.8	26	48	0.2 U	0.2 U	0.44 J	0.48 J	0.53	0.28 J	0.46 J
75-69-4	Trichlorofluoromethane	5	ug/L	0.24 U	0.24 U	0.24 U	1.0 UJ	1 U	1 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	1.0 UJ	1 U	1 U
75-01-4	Vinyl Chloride	2	ug/L	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U
156-59-2	Cis-1,2-Dichloroethylene	5	ug/L	0.23 U	0.23 U	0.23 U	1.0 U	1 U	1 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	1.0 U	1 U	1 U
10061-01-5	Cis-1,3-Dichloropropene	0.4	ug/L	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U
XYLMP	M,P-Xylene (Sum Of Isomers)	5	ug/L	0.2 U	0.2 U	0.2 U	2.0 U	2 U	2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	2.0 U	2 U	2 U
95-47-6	O-Xylene (1,2-Dimethylbenzene)	5	ug/L	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U
156-60-5	Trans-1,2-Dichloroethene	5	ug/L	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U
10061-02-6	Trans-1,3-Dichloropropene	0.4	ug/L	0.23 U	0.23 U	0.23 U	1.0 U	1 U	1 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	1.0 U	1 U	1 U

NOTES:  
 \* = Guidance Value  
 Bolded results detected above the Reporting Limit.  
 Highlighted results exceed NYS standard  
 U = Not detected. Reporting limit shown.  
 NL = Not Listed D = Dilution  
 J = Estimated JN = The analyte is "presumptively present". The associated result is an approximate concentration.

Table 2  
 APRIL 2021 GROUNDWATER VOCs ANALYTICAL DATA (green shading)  
 Modock Road Springs/DLS Sand and Gravel, Inc. Site  
 (NYSDEC HW ID 8-35-013)  
 Victor, New York

CAS No.	Volatile Organic Compounds	NYS Class GA Standards	Unit	MW-11 8/21/2019	MW-12 8/21/2019	MW-13 8/21/2019	MW-13 8/5/2020	MW-13 10/22/2020	MW-13 2/3/2021	MW-13 4/21/2021	MW-14 8/21/2019	MW-14 8/5/2020	MW-14 10/22/2020	MW-14 2/3/2021	MW-14 4/21/2021	MW-15 8/21/2019	MW-15 8/5/2020	MW-15 10/22/2020	MW-15 2/3/2021	MW-15 4/21/2021
71-55-6	1,1,1-Trichloroethane (TCA)	5	ug/L	0.21 U	3.8	30	34	45	41	36	14	14	14	10	12	18	18	25	22	26
79-34-5	1,1,2,2-Tetrachloroethane	5	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	1.0 U	1 U	1 U
79-00-5	1,1,2-Trichloroethane	1	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	1.0 U	1 U	1 U
26523-64-8	Trichlorotrifluoroethane (Freon-113)	5	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	1.0 U	1 U	1 U
75-34-3	1,1-Dichloroethane	5	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	1.0 U	1 U	1 U
75-35-4	1,1-Dichloroethene (1,1-DCE)	5	ug/L	0.25 U	0.52 J	4.6	6.3	7.3	7.4	7.2	2	2.2	1.8	1.5	1.9	3.2	3.3	4.9	4	5.5 J
87-61-6	1,2,3-Trichlorobenzene	5	ug/L	0.2 U	0.2 U	0.2 U	0.25 U	1.0 U	1 U	1 U	0.2 U	0.25 U	1.0 U	1 U	1 U	0.2 U	0.25 U	1.0 U	1 U	1 U
120-82-1	1,2,4-Trichlorobenzene	5	ug/L	0.25 U	0.25 U	0.25 U	0.34 UJ	1.0 U	1 U	1 U	0.25 U	0.34 UJ	1.0 U	1 U	1 U	0.25 U	0.34 UJ	1.0 U	1 U	1 U
96-12-8	1,2-Dibromo-3-Chloropropane	0.04	ug/L	0.45 U	0.45 U	0.45 U	0.45 U	2.0 U	2 U	2 U	0.45 U	0.45 U	2.0 U	2 U	2 U	0.45 U	0.45 U	2.0 U	2 U	2 U
106-93-4	1,2-Dibromoethane (Ethylene Dibromide)	NL	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	1.0 U	1 U	1 U
95-50-1	1,2-Dichlorobenzene	3	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	1.0 U	1 U	1 U
107-06-2	1,2-Dichloroethane	0.6	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	1.0 U	1 U	1 U
78-87-5	1,2-Dichloropropane	1	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	1.0 U	1 U	1 U
541-73-1	1,3-Dichlorobenzene	3	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	1.0 U	1 U	1 U
106-46-7	1,4-Dichlorobenzene	3	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	1.0 U	1 U	1 U
123-91-1	1,4-Dioxane (P-Dioxane)	NL	ug/L	13 U	13 U	13 U	13 U	40 U	40 U	40 U	13 U	13 U	40 U	40 U	40 U	13 U	13 U	40 U	40 U	40 U
78-93-3	Methyl Ethyl Ketone (2-Butanone)	50*	ug/L	0.78 U	0.78 U	0.78 U	0.78 U	5.0 U	5 U	5 U	0.78 U	0.78 U	5.0 U	5 U	5 U	0.78 U	0.78 U	5.0 U	5 U	5 U
591-78-6	2-Hexanone	50*	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	5.0 U	5 U	5 U	0.2 U	0.2 U	5.0 U	5 U	5 U	0.2 U	0.2 U	5.0 U	5 U	5 U
108-10-1	Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NL	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	5.0 U	5 U	5 U	0.2 U	0.2 U	5.0 U	5 U	5 U	0.2 U	0.2 U	5.0 U	5 U	5 U
67-64-1	Acetone	50*	ug/L	1 U	20	16	5 U	5.0 U	5 U	5 U	12	5 U	5.0 U	5 U	5 U	16	5 U	5.0 U	5 U	5 U
71-43-2	Benzene	1	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	1.0 U	1 U	1 U
74-97-5	Bromochloromethane	5	ug/L	0.24 U	0.24 U	0.24 U	0.2 U	1.0 U	1 U	1 U	0.24 U	0.2 U	1.0 U	1 U	1 U	0.24 U	0.2 U	1.0 U	1 U	1 U
75-27-4	Bromodichloromethane	50*	ug/L	0.22 U	0.22 U	0.22 U	0.2 U	1.0 U	1 U	1 U	0.22 U	0.2 U	1.0 U	1 U	1 U	0.22 U	0.2 U	1.0 U	1 U	1 U
75-25-2	Bromoform	50*	ug/L	0.25 UJ	0.25 UJ	0.25 UJ	0.25 U	1.0 U	1 U	1 U	0.25 UJ	0.25 U	1.0 U	1 U	1 U	0.25 UJ	0.25 U	1.0 U	1 U	1 U
74-83-9	Bromomethane	5	ug/L	0.7 UJ	0.7 U	0.7 U	0.7 UJ	1.0 U	1 UJ	1 U	0.7 U	0.7 UJ	1.0 U	1 UJ	1 U	0.7 U	0.7 UJ	1.0 UJ	1 UJ	1 U
75-15-0	Carbon Disulfide	60*	ug/L	0.25 U	0.25 U	0.25 U	0.42 U	1.0 U	1 U	1 U	0.25 U	0.42 U	1.0 U	1 U	1 U	0.25 U	0.42 U	1.0 U	1 U	1 U
56-23-5	Carbon Tetrachloride	5	ug/L	0.34 U	0.34 U	0.34 U	0.34 U	1.0 U	1 UJ	1 U	0.34 U	0.34 U	1.0 U	1 UJ	1 U	0.34 U	0.34 U	1.0 UJ	1 UJ	1 U
108-90-7	Chlorobenzene	5	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	1.0 U	1 U	1 U
75-00-3	Chloroethane	5	ug/L	0.23 U	0.23 U	0.23 U	0.23 U	1.0 U	1 U	1 U	0.23 U	0.23 U	1.0 U	1 U	1 U	0.23 U	0.23 U	1.0 U	1 U	1 U
67-66-3	Chloroform	7	ug/L	0.24 U	0.24 U	0.24 U	0.24 U	1.0 U	1 U	1 U	0.24 U	0.24 U	1.0 U	1 U	1 U	0.24 U	0.24 U	1.0 U	1 U	1 U
74-87-3	Chloromethane	NL	ug/L	1 U	0.28 U	0.28 U	0.28 U	1.0 U	1 U	1 U	0.28 U	0.28 U	1.0 U	1 U	1 U	0.28 U	0.28 U	1.0 U	1 U	1 U
110-82-7	Cyclohexane	NL	ug/L	0.26 U	0.26 U	0.26 U	0.26 U	1.0 U	1 U	1 U	0.26 U	0.26 U	1.0 U	1 U	1 U	0.26 U	0.26 U	1.0 U	1 U	1 U
124-48-1	Dibromochloromethane	5	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	1.0 U	1 U	1 U
75-71-8	Dichlorodifluoromethane	5	ug/L	0.21 U	0.21 U	0.21 U	0.21 U	1.0 U	1 U	1 U	0.21 U	0.21 U	1.0 U	1 U	1 U	0.21 U	0.21 U	1.0 U	1 U	1 U
75-09-2	Methylene Chloride	5	ug/L	0.36 U	0.36 U	0.36 U	0.65 U	1.0 U	1 U	1 U	0.36 U	0.65 U	1.0 U	1 U	1 U	0.36 U	0.65 U	1.0 U	1 U	1 U
100-41-4	Ethylbenzene	5	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	1.0 U	1 U	1 U
98-82-8	Isopropylbenzene (Cumene)	5	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	1.0 U	1 U	1 U
79-20-9	Methyl Acetate	NL	ug/L	0.33 U	0.33 U	0.33 U	0.33 U	2.0 U	2 U	2 U	0.33 U	0.33 U	2.0 U	2 U	2 U	0.33 U	0.33 U	2.0 U	2 U	2 U
1634-04-4	Tert-Butyl Methyl Ether	5	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	1.0 U	1 U	1 U
108-87-2	Methylcyclohexane	NL	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	1.0 U	1 U	1 U
100-42-5	Styrene	5	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	1.0 U	1 U	1 U
127-18-4	Tetrachloroethylene (PCE)	5	ug/L	0.21 U	0.21 U	0.41 J	0.25 J	0.28	0.28 J	0.35 J	0.61 J	0.73 J	0.88	0.57 J	0.72 J	0.21 U	0.21 U	1.0 U	1 U	1 U
108-88-3	Toluene	5	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	1.0 U	1 U	1 U
79-01-6	Trichloroethylene (TCE)	5	ug/L	0.2 U	0.2 U	53	46	52	46	44	59	56	61	46	47	1	1.1	1.2	1.1	1.8
75-69-4	Trichlorofluoromethane	5	ug/L	0.24 U	0.24 U	0.24 U	0.24 U	1.0 UJ	1 U	1 U	0.24 U	0.24 U	1.0 UJ	1 U	1 U	0.24 U	0.24 U	1.0 UJ	1 U	1 U
75-01-4	Vinyl Chloride	2	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	1.0 U	1 U	1 U
156-59-2	Cis-1,2-Dichloroethylene	5	ug/L	0.23 U	0.23 U	0.23 U	0.23 U	1.0 U	1 U	1 U	0.23 U	0.23 U	1.0 U	1 U	1 U	0.23 U	0.23 U	1.0 U	1 U	1 U
10061-01-5	Cis-1,3-Dichloropropene	0.4	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	1.0 U	1 U	1 U
XYLMP	M,P-Xylene (Sum Of Isomers)	5	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	2.0 U	2 U	2 U	0.2 U	0.2 U	2.0 U	2 U	2 U	0.2 U	0.2 U	2.0 U	2 U	2 U
95-47-6	O-Xylene (1,2-Dimethylbenzene)	5	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	1.0 U	1 U	1 U
156-60-5	Trans-1,2-Dichloroethene	5	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	1.0 U	1 U	1 U
10061-02-6	Trans-1,3-Dichloropropene	0.4	ug/L	0.23 U	0.23 U	0.23 U	0.23 U	1.0 U	1 U	1 U	0.23 U	0.23 U	1.0 U	1 U	1 U	0.23 U	0.23 U	1.0 U	1 U	1 U

NOTES:

\* = Guidance Value

Bolded results detected above the Reporting Limit.

Highlighted results exceed NYS standard

U = Not detected. Reporting limit shown.

NL = Not Listed D = Dilution

J = Estimated JN = The analyte is "presumptively present". The associated result is an approximate concentration.

Table 2  
 APRIL 2021 GROUNDWATER VOCs ANALYTICAL DATA (green shading)  
 Modock Road Springs/DLS Sand and Gravel, Inc. Site  
 (NYSDEC HW ID 8-35-013)  
 Victor, New York

CAS No.	Volatile Organic Compounds	NYS Class GA Standards	Unit	MW-16 8/21/2019	MW-16 8/5/2020	MW-16 10/22/2020	MW-16 2/3/2021	MW-16 4/21/2021	MW-17D 8/21/2019	MW-17S 8/21/2019	MW-17S 8/5/2020	MW-17S 10/22/2020	MW-17S 2/3/2021	MW-17S 4/21/2021	MW-18 8/21/2019	MW-20 8/21/2019	MW-21 8/21/2019	MW-22 8/21/2019	MW-23 8/21/2019
71-55-6	1,1,1-Trichloroethane (TCA)	5	ug/L	19	17	20	21	17	0.21 U	22	20	22	21 D	20	5.6	1.4	5.1	0.21 U	0.21 U
79-34-5	1,1,2,2-Tetrachloroethane	5	ug/L	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.4 U	0.4 U	2.5 U	5 U	2.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
79-00-5	1,1,2-Trichloroethane	1	ug/L	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	1.2 J	0.72 J	0.85	5 U	0.73 J	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
26523-64-8	Trichlorotrifluoroethane (Freon-113)	5	ug/L	0.2 U	0.71 J	0.81	0.82 J	1 U	0.2 U	0.4 U	0.4 U	2.5 U	5 U	2.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
75-34-3	1,1-Dichloroethane	5	ug/L	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.4 U	0.4 U	2.5 U	5 U	2.5 U	0.2 U	0.2 U	0.3 J	0.2 U	0.2 U
75-35-4	1,1-Dichloroethene (1,1-DCE)	5	ug/L	3.5	4.1	4.3	4.9	4.1	0.25 U	5.3	3.5	4.7	3.7 DJ	4.2	1.2	0.31 J	1.6	0.25 U	0.25 U
87-61-6	1,2,3-Trichlorobenzene	5	ug/L	0.2 U	0.25 U	1.0 U	1 U	1 U	0.2 U	0.4 U	0.5 U	2.5 U	5 U	2.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
120-82-1	1,2,4-Trichlorobenzene	5	ug/L	0.25 U	0.34 UJ	1.0 U	1 U	1 U	0.25 U	0.5 U	0.68 UJ	2.5 U	5 U	2.5 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
96-12-8	1,2-Dibromo-3-Chloropropane	0.04	ug/L	0.45 U	0.45 U	2.0 U	2 U	2 U	0.45 U	0.9 U	0.9 U	5.0 U	10 U	5 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
106-93-4	1,2-Dibromoethane (Ethylene Dibromide)	NL	ug/L	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.4 U	0.4 U	2.5 U	5 U	2.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
95-50-1	1,2-Dichlorobenzene	3	ug/L	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.4 U	0.4 U	2.5 U	5 U	2.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
107-06-2	1,2-Dichloroethane	0.6	ug/L	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.4 U	0.4 U	2.5 U	5 U	2.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
78-87-5	1,2-Dichloropropane	1	ug/L	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.4 U	0.4 U	2.5 U	5 U	2.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
541-73-1	1,3-Dichlorobenzene	3	ug/L	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.4 U	0.4 U	2.5 U	5 U	2.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
106-46-7	1,4-Dichlorobenzene	3	ug/L	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.4 U	0.4 U	2.5 U	5 U	2.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
123-91-1	1,4-Dioxane (P-Dioxane)	NL	ug/L	13 U	13 U	40 U	40 U	40 U	13 U	26 U	26 U	100 U	200 U	100 U	13 U	13 U	13 U	13 U	13 U
78-93-3	Methyl Ethyl Ketone (2-Butanone)	50*	ug/L	0.78 U	0.78 U	5.0 U	5 U	5 U	0.78 U	1.6 U	1.6 U	13 U	25 U	13 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U
591-78-6	2-Hexanone	50*	ug/L	0.2 U	0.2 U	5.0 U	5 U	5 U	0.2 U	0.4 U	0.4 U	13 U	25 U	13 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
108-10-1	Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NL	ug/L	0.2 U	0.2 U	5.0 U	5 U	5 U	0.2 U	0.4 U	0.4 U	13 U	25 U	13 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
67-64-1	Acetone	50*	ug/L	14	5 U	5.0 U	5 U	5 U	15	19	10 U	13 U	25 U	13 U	13	15	14	15 J	12
71-43-2	Benzene	1	ug/L	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.4 U	0.4 U	2.5 U	5 U	2.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
74-97-5	Bromochloromethane	5	ug/L	0.24 U	0.2 U	1.0 U	1 U	1 U	0.24 U	0.48 U	0.4 U	2.5 U	5 U	2.5 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
75-27-4	Bromodichloromethane	50*	ug/L	0.22 U	0.2 U	1.0 U	1 U	1 U	0.22 U	0.44 U	0.4 U	2.5 U	5 U	2.5 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
75-25-2	Bromoform	50*	ug/L	0.25 UJ	0.25 U	1.0 U	1 U	1 U	0.25 UJ	0.5 UJ	0.5 U	2.5 U	5 U	2.5 U	0.25 UJ	0.25 UJ	0.25 U	0.25 UJ	0.25 U
74-83-9	Bromomethane	5	ug/L	0.7 U	0.7 UJ	1.0 U	1 UJ	1 U	0.7 U	1.4 U	1.4 UJ	2.5 U	5 UJ	2.5 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U
75-15-0	Carbon Disulfide	60*	ug/L	0.25 U	0.42 U	1.0 U	1 U	1 U	0.25 U	0.5 U	0.84 U	2.5 U	5 U	2.5 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
56-23-5	Carbon Tetrachloride	5	ug/L	0.34 U	0.34 U	1.0 U	1 UJ	1 U	0.34 U	0.68 U	0.68 U	2.5 U	5 UJ	2.5 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
108-90-7	Chlorobenzene	5	ug/L	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.4 U	0.4 U	2.5 U	5 U	2.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
75-00-3	Chloroethane	5	ug/L	0.23 U	0.23 U	1.0 U	1 U	1 U	0.23 U	0.46 U	0.46 U	2.5 U	5 U	2.5 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
67-66-3	Chloroform	7	ug/L	0.24 U	0.24 U	1.0 U	1 U	1 U	0.24 U	0.78 J	0.48 U	2.5 U	5 U	2.5 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
74-87-3	Chloromethane	NL	ug/L	0.28 U	0.28 U	1.0 U	1 U	1 U	0.28 U	0.56 U	0.56 U	2.5 U	5 U	2.5 U	0.28 U	1 U	0.28 U	1 U	0.29 J
110-82-7	Cyclohexane	NL	ug/L	0.26 U	0.26 U	1.0 U	1 U	1 U	0.26 U	0.52 U	0.52 U	2.5 U	5 U	2.5 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
124-48-1	Dibromochloromethane	5	ug/L	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.4 U	0.4 U	2.5 U	5 U	2.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
75-71-8	Dichlorodifluoromethane	5	ug/L	0.21 U	0.21 U	1.0 U	1 U	1 U	0.21 U	0.42 U	0.42 U	2.5 U	5 U	2.5 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
75-09-2	Methylene Chloride	5	ug/L	0.36 U	0.65 U	1.0 U	1 U	1 U	0.36 U	0.72 U	1.3 U	2.5 U	5 U	2.5 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
100-41-4	Ethylbenzene	5	ug/L	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.4 U	0.4 U	2.5 U	5 U	2.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
98-82-8	Isopropylbenzene (Cumene)	5	ug/L	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.4 U	0.4 U	2.5 U	5 U	2.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
79-20-9	Methyl Acetate	NL	ug/L	0.33 U	0.33 U	2.0 U	2 U	2 U	0.33 U	0.66 U	0.66 U	5.0 U	10 U	5 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
1634-04-4	Tert-Butyl Methyl Ether	5	ug/L	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.4 U	0.4 U	2.5 U	5 U	2.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
108-87-2	Methylcyclohexane	NL	ug/L	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.4 U	0.4 U	2.5 U	5 U	2.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
100-42-5	Styrene	5	ug/L	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.4 U	0.4 U	2.5 U	5 U	2.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
127-18-4	Tetrachloroethylene (PCE)	5	ug/L	0.42 J	0.4 J	0.36	0.4 J	0.44 J	0.21 U	1.2 J	1.3 J	1.5	1.6 DJ	1.2 J	2.1	0.21 U	0.21 U	0.21 U	0.21 U
108-88-3	Toluene	5	ug/L	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.4 U	0.4 U	2.5 U	5 U	2.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
79-01-6	Trichloroethylene (TCE)	5	ug/L	150	140	160	170	130	0.2 U	320	300	340	290 D	280	45	0.2 U	29	0.21 JN	0.3 J
75-69-4	Trichlorofluoromethane	5	ug/L	0.24 U	0.24 U	1.0 UJ	1 U	1 U	0.24 U	0.48 U	0.48 U	2.5 UJ	5 U	2.5 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
75-01-4	Vinyl Chloride	2	ug/L	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.4 U	0.4 U	2.5 U	5 U	2.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
156-59-2	Cis-1,2-Dichloroethylene	5	ug/L	0.23 U	0.3 J	1.0 U	1 U	1 U	0.23 U	0.68 J	0.46 U	2.5 U	5 U	2.5 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
10061-01-5	Cis-1,3-Dichloropropene	0.4	ug/L	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.4 U	0.4 U	2.5 U	5 U	2.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
XYLMP	M,P-Xylene (Sum Of Isomers)	5	ug/L	0.2 U	0.2 U	2.0 U	2 U	2 U	0.2 U	0.4 U	0.4 U	5.0 U	10 U	5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
95-47-6	O-Xylene (1,2-Dimethylbenzene)	5	ug/L	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.4 U	0.4 U	2.5 U	5 U	2.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
156-60-5	Trans-1,2-Dichloroethene	5	ug/L	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.4 U	0.4 U	2.5 U	5 U	2.5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
10061-02-6	Trans-1,3-Dichloropropene	0.4	ug/L	0.23 U	0.23 U	1.0 U	1 U	1 U	0.23 U	0.46 U	0.46 U	2.5 U	5 U	2.5 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U

NOTES:  
 \* = Guidance Value  
 Bolded results detected above the Reporting Limit.  
 Highlighted results exceed NYS standard  
 U = Not detected. Reporting limit shown.  
 NL = Not Listed D = Dilution  
 J = Estimated JN = The analyte is "presumptively present". The associated result is an approximate concentration.

Table 2  
 APRIL 2021 GROUNDWATER VOCs ANALYTICAL DATA (green shading)  
 Modock Road Springs/DLS Sand and Gravel, Inc. Site  
 (NYSDEC HW ID 8-35-013)  
 Victor, New York

CAS No.	Volatile Organic Compounds	NYS Class GA Standards	Unit	MW-23 8/5/2020	MW-23 10/22/2020	MW-23 2/3/2021	MW-23 4/21/2021	MW-24D 8/21/2019	MW-24S 8/21/2019	MW-24S 8/5/2020	MW-24S 10/22/2020	MW-24S 2/3/2021	MW-24S 4/21/2021	MW-26 8/21/2019	MW-26 8/5/2020	MW-26 DUP080520 8/5/2020	MW-26 10/22/2020	MW-26 DUP102220B 10/22/2020	MW-26 2/3/2021	
71-55-6	1,1,1-Trichloroethane (TCA)	5	ug/L	0.2 U	1.0 U	0.46 J	0.97 J	7.7	15	16	19	14	13	8.3	7.4	7	7.7	8.4	7.2	
79-34-5	1,1,2,2-Tetrachloroethane	5	ug/L	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	0.2 U	1.0 U	1.0 U	1 U	
79-00-5	1,1,2-Trichloroethane	1	ug/L	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	0.2 U	1.0 U	1.0 U	1 U	
26523-64-8	Trichlorotrifluoroethane (Freon-113)	5	ug/L	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U	1.6	1.3	1.1	1.2	1.4	1.3	
75-34-3	1,1-Dichloroethane	5	ug/L	0.2 U	1.0 U	1 U	1 U	0.87 J	1.3	1.4	1.7	1.6	1.4	0.44 J	0.27 J	0.2 U	0.27	0.28	1 U	
75-35-4	1,1-Dichloroethene (1,1-DCE)	5	ug/L	0.2 U	1.0 U	1 U	1 U	1.6	4.4	5.9	6.1	4.6	5.1	1.9	1.6	1.4	1.7	1.8	1.5	
87-61-6	1,2,3-Trichlorobenzene	5	ug/L	0.25 U	1.0 U	1 U	1 U	0.2 U	0.2 U	0.25 U	1.0 U	1 U	1 U	0.2 U	0.25 U	0.25 U	1.0 U	1.0 U	1 U	
120-82-1	1,2,4-Trichlorobenzene	5	ug/L	0.34 U	1.0 U	1 U	1 U	0.25 U	0.25 U	0.34 UJ	1.0 U	1 U	1 U	0.25 U	0.34 UJ	0.34 U	1.0 U	1.0 U	1 U	
96-12-8	1,2-Dibromo-3-Chloropropane	0.04	ug/L	0.45 U	2.0 U	2 U	2 U	0.45 U	0.45 U	0.45 U	2.0 U	2 U	2 U	0.45 U	0.45 U	0.45 U	2.0 U	2.0 U	2 U	
106-93-4	1,2-Dibromoethane (Ethylene Dibromide)	NL	ug/L	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	0.2 U	1.0 U	1.0 U	1 U	
95-50-1	1,2-Dichlorobenzene	3	ug/L	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	0.2 U	1.0 U	1.0 U	1 U	
107-06-2	1,2-Dichloroethane	0.6	ug/L	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	0.2 U	1.0 U	1.0 U	1 U	
78-87-5	1,2-Dichloropropane	1	ug/L	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	0.2 U	1.0 U	1.0 U	1 U	
541-73-1	1,3-Dichlorobenzene	3	ug/L	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	0.2 U	1.0 U	1.0 U	1 U	
106-46-7	1,4-Dichlorobenzene	3	ug/L	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	0.2 U	1.0 U	1.0 U	1 U	
123-91-1	1,4-Dioxane (P-Dioxane)	NL	ug/L	13 U	40 U	40 U	40 U	13 U	13 U	13 U	40 U	40 U	40 U	13 U	13 U	13 U	40 U	40 U	40 U	
78-93-3	Methyl Ethyl Ketone (2-Butanone)	50*	ug/L	0.78 U	5.0 U	5 U	5 U	0.78 U	0.78 U	0.78 U	5.0 U	5 U	5 U	0.78 U	0.78 U	0.78 U	5.0 U	5.0 U	5 U	
591-78-6	2-Hexanone	50*	ug/L	0.2 U	5.0 U	5 U	5 U	0.2 U	0.2 U	0.2 U	5.0 U	5 U	5 U	0.2 U	0.2 U	0.2 U	5.0 U	5.0 U	5 U	
108-10-1	Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NL	ug/L	0.2 U	5.0 U	5 U	5 U	0.2 U	0.2 U	0.2 U	5.0 U	5 U	5 U	0.2 U	0.2 U	0.2 U	5.0 U	5.0 U	5 U	
67-64-1	Acetone	50*	ug/L	5 U	5.0 U	5 U	5 U	8.4	13	5 U	5.0 U	5 U	5 U	14	5 U	5 UJ	5.0 U	5.0 U	5 U	
71-43-2	Benzene	1	ug/L	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	0.2 U	1.0 U	1.0 U	1 U	
74-97-5	Bromochloromethane	5	ug/L	0.2 U	1.0 U	1 U	1 U	0.24 U	0.24 U	0.2 U	1.0 U	1 U	1 U	0.24 U	0.2 U	0.2 U	1.0 U	1.0 U	1 U	
75-27-4	Bromodichloromethane	50*	ug/L	0.2 U	1.0 U	1 U	1 U	0.22 U	0.22 U	0.2 U	1.0 U	1 U	1 U	0.22 U	0.2 U	0.2 U	1.0 U	1.0 U	1 U	
75-25-2	Bromoform	50*	ug/L	0.25 U	1.0 U	1 U	1 U	0.25 U	0.25 U	0.25 U	1.0 U	1 U	1 U	0.25 UJ	0.25 U	0.25 U	1.0 U	1.0 U	1 U	
74-83-9	Bromomethane	5	ug/L	0.7 U	1.0 U	1 UJ	1 U	0.7 U	0.7 U	0.7 UJ	1.0 U	1 UJ	1 U	0.7 U	0.7 UJ	0.7 U	1.0 U	1.0 U	1 UJ	
75-15-0	Carbon Disulfide	60*	ug/L	0.42 U	1.0 U	1 U	1 U	0.25 U	0.25 U	0.42 U	1.0 U	1 U	1 U	0.25 U	0.42 U	0.42 U	1.0 U	1.0 U	1 U	
56-23-5	Carbon Tetrachloride	5	ug/L	0.34 U	1.0 U	1 UJ	1 U	0.34 U	0.34 U	0.34 U	1.0 U	1 UJ	1 U	0.34 U	0.34 U	0.34 U	1.0 U	1.0 U	1 UJ	
108-90-7	Chlorobenzene	5	ug/L	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	0.2 U	1.0 U	1.0 U	1 U	
75-00-3	Chloroethane	5	ug/L	0.23 U	1.0 U	1 U	1 U	0.23 U	0.23 U	0.23 U	1.0 U	1 U	1 U	0.23 U	0.23 U	0.23 U	1.0 U	1.0 U	1 U	
67-66-3	Chloroform	7	ug/L	0.24 U	1.0 U	1 U	1 U	0.24 U	0.24 U	0.24 U	1.0 U	1 U	1 U	0.24 U	0.24 U	0.24 U	1.0 U	1.0 U	1 U	
74-87-3	Chloromethane	NL	ug/L	0.28 U	1.0 U	1 U	1 U	0.35 J	0.36 J	0.28 U	1.0 U	1 U	1 U	0.28 U	0.28 U	0.28 U	1.0 U	1.0 U	1 U	
110-82-7	Cyclohexane	NL	ug/L	0.26 U	1.0 U	1 U	1 U	0.26 U	0.26 U	0.26 U	1.0 U	1 U	1 U	0.26 U	0.26 U	0.26 U	1.0 U	1.0 U	1 U	
124-48-1	Dibromochloromethane	5	ug/L	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	0.2 U	1.0 U	1.0 U	1 U	
75-71-8	Dichlorodifluoromethane	5	ug/L	0.21 U	1.0 U	1 U	1 U	0.21 U	0.21 U	0.21 U	1.0 U	1 U	1 U	0.21 U	0.21 U	0.21 U	1.0 U	1.0 U	1 U	
75-09-2	Methylene Chloride	5	ug/L	0.65 U	1.0 U	1 U	1 U	0.36 U	0.36 U	0.65 U	1.0 U	1 U	1 U	0.36 U	0.65 U	0.65 U	1.0 U	1.0 U	1 U	
100-41-4	Ethylbenzene	5	ug/L	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	0.2 U	1.0 U	1.0 U	1 U	
98-82-8	Isopropylbenzene (Cumene)	5	ug/L	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	0.2 U	1.0 U	1.0 U	1 U	
79-20-9	Methyl Acetate	NL	ug/L	2	2.0 U	2 U	2 U	0.33 U	0.33 U	0.33 U	2.0 U	2 U	2 U	0.33 U	0.33 U	0.33 U	2.0 U	2.0 U	2 U	
1634-04-4	Tert-Butyl Methyl Ether	5	ug/L	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	0.2 U	1.0 U	1.0 U	1 U	
108-87-2	Methylcyclohexane	NL	ug/L	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	0.2 U	1.0 U	1.0 U	1 U	
100-42-5	Styrene	5	ug/L	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	0.2 U	1.0 U	1.0 U	1 U	
127-18-4	Tetrachloroethylene (PCE)	5	ug/L	0.21 U	1.0 U	1 U	1 U	0.21 U	0.34 BJ	0.21 U	1.0 U	0.28	0.24 J	0.26 J	2.1	2.2	1.7	1.7	2.3	2
108-88-3	Toluene	5	ug/L	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	0.2 U	1.0 U	1.0 U	1 U	
79-01-6	Trichloroethylene (TCE)	5	ug/L	0.83 J	0.43	0.97 J	1.2	31	72	80	94	69	63	120	120	110	130	140	110	
75-69-4	Trichlorofluoromethane	5	ug/L	0.24 U	1.0 UJ	1 U	1 U	0.24 U	0.24 U	0.24 U	1.0 UJ	1 U	1 U	0.24 U	0.24 U	0.24 U	1.0 UJ	1.0 UJ	1 U	
75-01-4	Vinyl Chloride	2	ug/L	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	0.2 U	1.0 U	1.0 U	1 U	
156-59-2	Cis-1,2-Dichloroethylene	5	ug/L	0.23 U	1.0 U	1 U	1 U	0.23 U	0.23 U	0.35 J	1.0 U	1 U	1 U	0.23 U	0.23 U	0.23 U	1.0 U	1.0 U	1 U	
10061-01-5	Cis-1,3-Dichloropropene	0.4	ug/L	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	0.2 U	1.0 U	1.0 U	1 U	
XYLMP	M,P-Xylene (Sum Of Isomers)	5	ug/L	0.2 U	2.0 U	2 U	2 U	0.2 U	0.2 U	0.2 U	2.0 U	2 U	2 U	0.2 U	0.2 U	0.2 U	2.0 U	2.0 U	2 U	
95-47-6	O-Xylene (1,2-Dimethylbenzene)	5	ug/L	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	0.2 U	1.0 U	1.0 U	1 U	
156-60-5	Trans-1,2-Dichloroethene	5	ug/L	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U	0.2 U	0.2 U	0.2 U	1.0 U	1.0 U	1 U	
10061-02-6	Trans-1,3-Dichloropropene	0.4	ug/L	0.23 U	1.0 U	1 U	1 U	0.23 U	0.23 U	0.23 U	1.0 U	1 U	1 U	0.23 U	0.23 U	0.23 U	1.0 U	1.0 U	1 U	

NOTES:  
 \* = Guidance Value  
 Bolded results detected above the Reporting Limit.  
 Highlighted results exceed NYS standard  
 U = Not detected. Reporting limit shown.  
 NL = Not Listed D = Dilution  
 J = Estimated JN = The analyte is "presumptively present". The associated result is an approximate concentration.

Table 2  
 APRIL 2021 GROUNDWATER VOCs ANALYTICAL DATA (green shading)  
 Modock Road Springs/DLS Sand and Gravel, Inc. Site  
 (NYSDEC HW ID 8-35-013)  
 Victor, New York

CAS No.	Volatile Organic Compounds	NYS Class GA Standards	Unit	MW-26 DUP020321B 2/3/2021	MW-26 4/21/2021	MW-26 DUP042121B 4/21/2021	MW-27 8/21/2019	TEST WELL 8/21/2019	Spring PZ-1 8/21/2019	GP-02 8/21/2019	GP-03 8/21/2019	GP-04 8/21/2019	GP-06 8/21/2019	SS&G MW-3 8/21/2019	SS&G MW-3 8/5/2020	SS&G MW-3 10/22/2020	SS&G MW-3 2/3/2021	SS&G MW-3 4/21/2021
71-55-6	1,1,1-Trichloroethane (TCA)	5	ug/L	7.1	6.3	6.9	0.21 U	1.4	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	8.1	4.1	5.1	4.3	4.2
79-34-5	1,1,2,2-Tetrachloroethane	5	ug/L	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U
79-00-5	1,1,2-Trichloroethane	1	ug/L	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U
26523-64-8	Trichlorotrifluoroethane (Freon-113)	5	ug/L	1.1	1 U	1.2	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U
75-34-3	1,1-Dichloroethane	5	ug/L	0.32 J	1 U	1 U	0.2 U	0.51 J	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U
75-35-4	1,1-Dichloroethene (1,1-DCE)	5	ug/L	1.5	1.7	1.6	0.25 U	0.92 J	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	1.3	0.88 J	0.78	0.65 J	0.66 J
87-61-6	1,2,3-Trichlorobenzene	5	ug/L	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.25 U	1.0 U	1 U	1 U
120-82-1	1,2,4-Trichlorobenzene	5	ug/L	1 U	1 U	1 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.34 U	1.0 U	1 U	1 U
96-12-8	1,2-Dibromo-3-Chloropropane	0.04	ug/L	2 U	2 U	2 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	2.0 U	2 U	2 U
106-93-4	1,2-Dibromoethane (Ethylene Dibromide)	NL	ug/L	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U
95-50-1	1,2-Dichlorobenzene	3	ug/L	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U
107-06-2	1,2-Dichloroethane	0.6	ug/L	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U
78-87-5	1,2-Dichloropropane	1	ug/L	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U
541-73-1	1,3-Dichlorobenzene	3	ug/L	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U
106-46-7	1,4-Dichlorobenzene	3	ug/L	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U
123-91-1	1,4-Dioxane (P-Dioxane)	NL	ug/L	40 U	40 U	40 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	13 U	40 U	40 U	40 U
78-93-3	Methyl Ethyl Ketone (2-Butanone)	50*	ug/L	5 U	5 U	5 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U	5.0 U	5 U	5 U
591-78-6	2-Hexanone	50*	ug/L	5 U	5 U	5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	5.0 U	5 U	5 U
108-10-1	Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NL	ug/L	5 U	5 U	5 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	5.0 U	5 U	5 U
67-64-1	Acetone	50*	ug/L	5 U	5 U	5 U	9.2	13	13	11	11	17	16	17	5 UJ	5.0 U	5 U	5 U
71-43-2	Benzene	1	ug/L	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U
74-97-5	Bromochloromethane	5	ug/L	1 U	1 U	1 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.2 U	1.0 U	1 U	1 U
75-27-4	Bromodichloromethane	50*	ug/L	1 U	1 U	1 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.2 U	1.0 U	1 U	1 U
75-25-2	Bromoform	50*	ug/L	1 U	1 U	1 U	0.25 U	0.25 U	0.25 U	0.25 UJ	0.25 U	0.25 U	0.25 U	0.25 UJ	0.25 U	1.0 U	1 U	1 U
74-83-9	Bromomethane	5	ug/L	1 UJ	1 U	1 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	0.7 U	1.0 U	1 UJ	1 U
75-15-0	Carbon Disulfide	60*	ug/L	1 U	1 U	1 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.42 U	1.0 U	1 U	1 U
56-23-5	Carbon Tetrachloride	5	ug/L	1 UJ	1 U	1 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	1.0 U	1 UJ	1 U
108-90-7	Chlorobenzene	5	ug/L	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U
75-00-3	Chloroethane	5	ug/L	1 U	1 U	1 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	1.0 U	1 U	1 U
67-66-3	Chloroform	7	ug/L	1 U	1 U	1 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	1.0 U	1 U	1 U
74-87-3	Chloromethane	NL	ug/L	1 U	1 U	1 U	0.33 J	0.48 J	0.36 J	0.28 U	0.3 J	0.28 U	0.3 J	0.28 U	0.28 U	1.0 U	1 U	1 U
110-82-7	Cyclohexane	NL	ug/L	1 U	1 U	1 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	1.0 U	1 U	1 U
124-48-1	Dibromochloromethane	5	ug/L	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U
75-71-8	Dichlorodifluoromethane	5	ug/L	1 U	1 U	1 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	1.0 U	1 U	1 U
75-09-2	Methylene Chloride	5	ug/L	1 U	1 U	1 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.65 U	1.0 U	1 U	1 U
100-41-4	Ethylbenzene	5	ug/L	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U
98-82-8	Isopropylbenzene (Cumene)	5	ug/L	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U
79-20-9	Methyl Acetate	NL	ug/L	2 U	2 U	2 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	2.0 U	2 U	2 U
1634-04-4	Tert-Butyl Methyl Ether	5	ug/L	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U
108-87-2	Methylcyclohexane	NL	ug/L	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U
100-42-5	Styrene	5	ug/L	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U
127-18-4	Tetrachloroethylene (PCE)	5	ug/L	1.8	1.9	1.9	0.21 U	0.21 U	0.21 U	0.21 U	1 U	0.21 U	0.21 U	0.21 U	0.21 U	1.0 U	1 U	1 U
108-88-3	Toluene	5	ug/L	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U
79-01-6	Trichloroethylene (TCE)	5	ug/L	110	100	100	0.2 U	20	0.27 J	0.2 U	0.2 U	0.2 U	0.2 U	9	5.1	5.2	4.4	4.7
75-69-4	Trichlorofluoromethane	5	ug/L	1 U	1 U	1 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	1.0 UJ	1 U	1 U
75-01-4	Vinyl Chloride	2	ug/L	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U
156-59-2	Cis-1,2-Dichloroethylene	5	ug/L	1 U	1 U	1 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	1.0 U	1 U	1 U
10061-01-5	Cis-1,3-Dichloropropene	0.4	ug/L	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U
XYLMP	M,P-Xylene (Sum Of Isomers)	5	ug/L	2 U	2 U	2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	2.0 U	2 U	2 U
95-47-6	O-Xylene (1,2-Dimethylbenzene)	5	ug/L	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U
156-60-5	Trans-1,2-Dichloroethene	5	ug/L	1 U	1 U	1 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U	1.0 U	1 U	1 U
10061-02-6	Trans-1,3-Dichloropropene	0.4	ug/L	1 U	1 U	1 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	1.0 U	1 U	1 U

NOTES:  
 \* = Guidance Value  
 Bolded results detected above the Reporting Limit.  
 Highlighted results exceed NYS standard  
 U = Not detected. Reporting limit shown.  
 NL = Not Listed D = Dilution  
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Table 2  
 APRIL 2021 GROUNDWATER VOCs ANALYTICAL DATA (green shading)  
 Modock Road Springs/DLS Sand and Gravel, Inc. Site  
 (NYSDEC HW ID 8-35-013)  
 Victor, New York

CAS No.	Volatile Organic Compounds	NYS Class GA Standards	Unit	SS&G MW-4 8/21/2019	SS&G MW-5 8/21/2019	SS&G MW-7 8/21/2019	SS&G MW-8 8/21/2019	SS&G MW-15 8/21/2019
71-55-6	1,1,1-Trichloroethane (TCA)	5	ug/L	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
79-34-5	1,1,2,2-Tetrachloroethane	5	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
79-00-5	1,1,2-Trichloroethane	1	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
26523-64-8	Trichlorotrifluoroethane (Freon-113)	5	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
75-34-3	1,1-Dichloroethane	5	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
75-35-4	1,1-Dichloroethene (1,1-DCE)	5	ug/L	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
87-61-6	1,2,3-Trichlorobenzene	5	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
120-82-1	1,2,4-Trichlorobenzene	5	ug/L	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
96-12-8	1,2-Dibromo-3-Chloropropane	0.04	ug/L	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
106-93-4	1,2-Dibromoethane (Ethylene Dibromide)	NL	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
95-50-1	1,2-Dichlorobenzene	3	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
107-06-2	1,2-Dichloroethane	0.6	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
78-87-5	1,2-Dichloropropane	1	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
541-73-1	1,3-Dichlorobenzene	3	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
106-46-7	1,4-Dichlorobenzene	3	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
123-91-1	1,4-Dioxane (P-Dioxane)	NL	ug/L	13 U	13 U	13 U	13 U	13 U
78-93-3	Methyl Ethyl Ketone (2-Butanone)	50*	ug/L	0.78 U	0.78 U	0.78 U	0.78 U	0.78 U
591-78-6	2-Hexanone	50*	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
108-10-1	Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NL	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
67-64-1	Acetone	50*	ug/L	<b>17</b>	<b>12</b>	<b>15</b>	<b>17</b>	<b>22</b>
71-43-2	Benzene	1	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
74-97-5	Bromochloromethane	5	ug/L	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
75-27-4	Bromodichloromethane	50*	ug/L	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
75-25-2	Bromoform	50*	ug/L	0.25 UJ	0.25 UJ	0.25 UJ	0.25 UJ	0.25 UJ
74-83-9	Bromomethane	5	ug/L	0.7 U	0.7 UJ	0.7 U	0.7 U	0.7 U
75-15-0	Carbon Disulfide	60*	ug/L	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
56-23-5	Carbon Tetrachloride	5	ug/L	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
108-90-7	Chlorobenzene	5	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
75-00-3	Chloroethane	5	ug/L	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
67-66-3	Chloroform	7	ug/L	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
74-87-3	Chloromethane	NL	ug/L	0.28 U	0.28 U	1 U	0.28 U	0.28 U
110-82-7	Cyclohexane	NL	ug/L	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
124-48-1	Dibromochloromethane	5	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
75-71-8	Dichlorodifluoromethane	5	ug/L	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
75-09-2	Methylene Chloride	5	ug/L	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
100-41-4	Ethylbenzene	5	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
98-82-8	Isopropylbenzene (Cumene)	5	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
79-20-9	Methyl Acetate	NL	ug/L	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
1634-04-4	Tert-Butyl Methyl Ether	5	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
108-87-2	Methylcyclohexane	NL	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
100-42-5	Styrene	5	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
127-18-4	Tetrachloroethylene (PCE)	5	ug/L	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
108-88-3	Toluene	5	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
79-01-6	Trichloroethylene (TCE)	5	ug/L	0.2 U	<b>13</b>	0.2 U	0.2 U	0.2 U
75-69-4	Trichlorofluoromethane	5	ug/L	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
75-01-4	Vinyl Chloride	2	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
156-59-2	Cis-1,2-Dichloroethylene	5	ug/L	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
10061-01-5	Cis-1,3-Dichloropropene	0.4	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
XYLMP	M,P-Xylene (Sum Of Isomers)	5	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
95-47-6	O-Xylene (1,2-Dimethylbenzene)	5	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
156-60-5	Trans-1,2-Dichloroethene	5	ug/L	0.2 U	0.2 U	0.2 U	0.2 U	0.2 U
10061-02-6	Trans-1,3-Dichloropropene	0.4	ug/L	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U

NOTES:

\* = Guidance Value

Bolded results detected above the Reporting Limit.

Highlighted results exceed NYS standard

U = Not detected. Reporting limit shown.

NL = Not Listed D = Dilution

J = Estimated JN = The analyte is "presumptively present". The associated result is an approximate concentration.





Table 4 - Historic Data and Trends CVOCs  
 Modock Rd. Springs/DSL Sand Gravel Inc. Site (NYSEC Site No. 8-35-013)  
 Victor, New York

	8/2/1995	8/11/1995	8/25/1995	8/7/1996	4/24/1997	7/29/1997	4/30/1998	10/13/1999	11/9/1999	11/10/2000	5/23/2001	10/31/2003	11/18/2004	3/2/2005	9/15/2006	11/17/2006	6/6/2007	7/1/2008	5/6/2009	9/21/2009	8/10/2010	10/30/2011	9/8/2015	8/21/2019	8/5/2020	10/22/2020	
<b>MW-4</b>																											
TCE	NS	160	160	200	240	200	180	NS	140	NS	150	NS	200	NS	NS	130	100	120	100	120	120	20.7	82	48	45	53	
TCA	NS	110	96	150	140	110	74	NS	85	NS	72	NS	79	NS	NS	41	36	40	34	35	34	14.3	17	8.4	8.5	9.5	
DCE	NS	6.9	5.1	7	5.6	7.7	7.4	NS	9.7	NS	11	NS	10	NS	NS	6	5	5	4	6.5	6.2	0	0	2.1	1.7	2.2	
TCVOCs	NS	276.9	261.1	357	385.6	317.7	261.4	NS	234.7	NS	233	NS	289	NS	NS	177	141	165	138	161.5	160.2	35	99	58.5	55.2	64.7	
<b>MW-10</b>																											
TCE	NS	NS	NS	NS	NS	NS	NS	NS	0	NS	NS	NS	NS	NS	NS	0	1	0	NS	NS	0.7	20.8	0	0.44	0.48	0.53	
TCA	NS	NS	NS	NS	NS	NS	NS	NS	3.2	NS	NS	NS	NS	NS	NS	2	3	3	NS	NS	2.9	0	0	1.9	2.8	3.6	
DCE	NS	NS	NS	NS	NS	NS	NS	NS	0	NS	NS	NS	NS	NS	NS	0	0	0	NS	NS	0	0	0	0	0	0	
TCVOCs	NS	NS	NS	NS	NS	NS	NS	NS	3.2	NS	NS	NS	NS	NS	NS	2	4	3	NS	NS	3.6	20.8	0	2.34	3.28	4.13	
<b>MW-13</b>																											
TCE	NS	NS	NS	NS	NS	NS	NS	NS	NS	610	450	340	NS	NS	NS	180	150	150	150	150	150	31.8	104	32	53	46	
TCA	NS	NS	NS	NS	NS	NS	NS	NS	NS	540	400	260	NS	NS	NS	180	150	180	170	130	120	37.8	71.9	7.8	30	34	
DCE	NS	NS	NS	NS	NS	NS	NS	NS	NS	66	58	31	NS	NS	NS	31	20	24	23	23	20	0	11.2	0	4.6	6.3	
TCVOCs	NS	NS	NS	NS	NS	NS	NS	NS	NS	1216	908	631	NS	NS	NS	391	320	354	343	303	290	69.6	187.1	39.8	87.6	86.3	
<b>MW-14</b>																											
TCE	NS	NS	NS	NS	NS	NS	NS	NS	NS	11000	3300	1000	950	1400	2600	470	1100	410	450	550	150	166	120	59	56	61	
TCA	NS	NS	NS	NS	NS	NS	NS	NS	NS	4600	880	210	200	280	360	150	250	120	110	100	31	41.4	25	14	14	14	
DCE	NS	NS	NS	NS	NS	NS	NS	NS	NS	570	120	32	28	54	45	23	38	16	14	17	5.3	5.06	0	2	2.2	1.8	
TCVOCs	NS	NS	NS	NS	NS	NS	NS	NS	NS	16170	4300	1242	1178	1734	3005	643	1388	546	574	667	186.3	212.46	145	75	72.2	76.8	
<b>MW-15</b>																											
TCE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1.8	0	1	NS	2.7	19.1	0	1	1.1	1.2	
TCA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	60	57	65	NS	45	12.8	19	18	18	25	
DCE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	11	21	10	NS	8.7	0	0	3.2	3.3	4.9	
TCVOCs	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	72.8	78	76	NS	56.4	31.9	19	22.2	22.4	31.1	
<b>MW-16</b>																											
TCE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	350	340	520	NS	450	51.6	464	250	150	140	
TCA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	98	120	150	NS	86	53	82.6	42	19	17	
DCE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	19	21	25	NS	0	2.41	17.2	9.3	3.5	4.1	
TCVOCs	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	467	481	695	NS	536	107.01	563.8	301.3	172.5	161.1	
<b>MW-17S</b>																											
TCE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	850	2300	3700	NS	2700	77.3	1220	480	320	300	
TCA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	81	330	410	NS	250	65.6	102	43	22	20	
DCE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	26	55	120	NS	62	2.74	21.5	8.3	5.3	3.5	
TCVOCs	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	957	2685	4230	NS	3012	145.64	1343.5	531.3	347.3	323.5	
<b>MW-23</b>																											
TCE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	3	47	NS	3.6	21.6	NS	0	0.3	0.83	
TCA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1	13	NS	2.6	6.7	NS	0	0	0	0	
DCE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	0	2	NS	0	0	0	NS	0	0	0	
TCVOCs	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	4	62	NS	6.2	28.3	NS	0	0.3	0.83		
<b>MW-24S</b>																											
TCE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	210	190	NS	150	24.1	NS	110	72	80	
TCA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	62	64	NS	46	20.4	NS	27	15	16	
DCE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	9	9	NS	10	0	NS	6.8	4.4	5.9		
TCVOCs	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	281	263	NS	206	44.5	NS	143.8	91.4	101.9		
<b>MW-26</b>																											
TCE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	4	NS	NS	NS	NS	NS	NS	NS	120	120
TCA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	0	NS	NS	NS	NS	NS	NS	NS	8.3	7.4
DCE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	0	NS	NS	NS	NS	NS	NS	NS	1.9	1.6
TCVOCs	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	4	NS	NS	NS	NS	NS	NS	NS	130.2	129
<b>SS&amp;G MW-3</b>																											
TCE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	327	NS	NS	NS	NS	NS	28	18	24	25	16	6.39	NS	13	9	5.1	
TCA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	224	NS	NS	NS	NS	NS	45	29	40	30	19	16	NS	9.1	8.1	4.1	
DCE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	52.9	NS	NS	NS	NS	NS	6	4	5	5.4	3.8	0	NS	0	1.3	0.88	
TCVOCs	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	603.9	NS	NS	NS	NS	NS	79	51	69	60.4	38.8	22.39	NS	22.1	18.4	10.08	
<b>SC-1</b>																											
TCE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	110	NS	NS	73	100	88	110	88	77	
TCA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	27	35	30	36	33	31	
DCE	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	0	NS	NS	NS	NS	NS	NS	NS	NS	NS	4	6	4	4	5.3	6	4
TOTAL VOCs	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	174	NS	NS	NS	NS	NS	NS	169.4	NS	NS	104	141	118	128	148.3	136	112

NOTES: <sup>1</sup> Although included in the table for completeness, 2011 data is disregarded due to QA/QC concerns and not included in overall trend analysis.  
 0 = Non-Detect  
 NS = Not Sampled and/or well did not exist at time of sample event  
 Analytical result concentrations are in units of ug/l (ppb)

Table 4 - Historic Data and Trends CVOCs  
 Modock Rd. Springs/DSL Sand Gravel Inc. Site (NYSEC Site No. 8-35-013)  
 Victor, New York

MW-4	2/4/2021	4/21/2021	% Difference	Data Trend <sup>1</sup>
TCE	44	42	-74	Down
TCA	8.3	7.9	-93	Down
DCE	1.8	1.8	-74	Down
TCVOCs	54.1	51.7	-81	Down

MW-10	2/4/2021	4/21/2021	% Difference	Data Trend <sup>1</sup>
TCE	0.28	0.46	na	Up
TCA	2.6	2.6	-18.75	Down
DCE	0	0	na	Non Detect
TCVOCs	2.88	3.06	-4.375	Down

MW-13	10/22/2020	2/4/2021	4/21/2021	% Difference	Data Trend <sup>1</sup>
TCE	52	46	44	-93	Down
TCA	45	41	36	-93	Down
DCE	7.3	7.4	7.2	-89	Down
TCVOCs	104.3	94.4	87.2	-93	Down

MW-14	2/4/2021	4/21/2021	% Difference	Data Trend <sup>1</sup>
TCE	46	47	-100	Down
TCA	10	12	-100	Down
DCE	1.5	1.9	-100	Down
TCVOCs	57.5	60.9	-100	Down

MW-15	2/4/2021	4/21/2021	% Difference	Data Trend <sup>1</sup>
TCE	1.1	1.8	0	Same
TCA	22	26	-57	Down
DCE	4	5.5	-50	Down
TCVOCs	27.1	33.3	-54	Down

MW-16	10/22/2020	2/4/2021	4/21/2021	% Difference	Data Trend <sup>1</sup>
TCE	160	170	130	-63	Down
TCA	20	21	17	-83	Down
DCE	4.3	4.9	4.1	-78	Down
TCVOCs	184.3	195.9	151.1	-68	Down

MW-17S	10/22/2020	2/4/2021	4/21/2021	% Difference	Data Trend <sup>1</sup>
TCE	340	290	280	-67	Down
TCA	22	21	20	-75	Down
DCE	4.7	3.7	4.2	-84	Down
TCVOCs	366.7	314.7	304.2	-68	Down

MW-23	10/22/2020	2/4/2021	4/21/2021	% Difference	Data Trend <sup>1</sup>
TCE	0.43	0.97	1.2	-60	Down
TCA	0	0.46	0.97	-3	Down
DCE	0	0	0	na	Down
TCVOCs	0.43	1.43	2.17	-46	Down

MW-24S	10/22/2020	2/4/2021	4/21/2021	% Difference	Data Trend <sup>1</sup>
TCE	94	69	63	-70	Down
TCA	19	14	13	-79	Down
DCE	6.1	4.6	5.1	-43	Down
TCVOCs	119.1	87.6	81.1	-71	Down

MW-26	10/22/2020	2/4/2021	4/21/2021	% Difference	Data Trend <sup>1</sup>
TCE	130	110	100	2400	Up
TCA	7.7	7.2	6.3	na	Up
DCE	1.7	1.5	1.7	na	Up
TCVOCs	139.4	118.7	108	2600	Up

SS&G MW-3	10/22/2020	2/4/2021	4/21/2021	% Difference	Data Trend <sup>1</sup>
TCE	5.2	4.4	4.7	-99	Down
TCA	5.1	4.3	4.2	-98	Down
DCE	0.78	0.65	0.66	-99	Down
TCVOCs	11.08	9.35	9.56	-98	Down

SC-1	9/21/2009	8/10/2010	10/31/2011	3/19/2012	11/14/2012	9/8/2015	8/22/2019	8/5/2020	10/22/2020	2/4/2021	4/21/2021	% Difference
TCE	91	77	56.3	76	57	50	30	34	37	31	33	-70
TCA	24	23	15.1	21	16	12	5.9	6.3	7.6	6.2	6.8	-89
DCE	3.2	4.1	2.17	3.1	0	0	1.2	1.6	1.9	1.6	1.7	na
TOTAL VOCs	118.2	104.1	73.57	100.1	73	62	37.1	41.9	46.5	38.8	41.5	-76

NOTES:



# **Appendix A**

## **Groundwater Sampling Log (PDBs)**

Modock Road Springs/DLS Sand Gravel Inc., Site  
 NYSDEC Site No. 8-35-013  
 Passive Diffusion Bag Groundwater Sampling Form  
 April 2021

Well ID	Top of PVC Elevation (ft. amsl)	Field Measurements						Elevations					Distance from PDB <sub>top</sub> to Groundwater (ft.)	PDP Deploy Date	PDP Deploy Time	PDP Recovery Date	PDP Recovery Time	Depth to Groundwater (ft. BTOC) prior to PDB removal
		Depth to Groundwater (ft. BTOC)	Measured Total Depth (ft. BTOC)	Standing Water Column (ft.)	Water Column Center (ft. BTOC)	PDB <sub>top</sub> (ft. from bottom of well)	PDB <sub>bottom</sub> (ft. from bottom of well)	Groundwater Elevation (ft. amsl)	Measured Total Depth (ft. amsl)	Water Column Center Elevation (ft. amsl)	PDB <sub>top</sub> Elevation (ft. amsl)	PDB <sub>bottom</sub> Elevation (ft. amsl)						
MW-4	676.61	41.15	51.05	9.9	46.10	5.95	3.95	635.46	625.56	630.51	631.51	629.51	3.95	4/7/2021	1015	4/21/2021	1045	41.16
MW-10	731.44	80.41	90.65	10.24	85.53	6.00	4.00	651.03	640.79	645.91	646.79	644.79	4.24	4/7/2021	0830	4/21/2021	0840	80.47
MW-13	781.20	65.45	74.55	9.1	70.00	5.55	3.55	715.75	706.65	711.20	712.20	710.20	3.55	4/7/2021	0920	4/21/2021	0925	65.49
MW-14	759.17	54.09	63.93	9.84	59.01	5.92	3.92	705.08	695.24	700.16	701.16	699.16	3.92	4/7/2021	0930	4/21/2021	0935	54.10
MW-15	786.44	60.34	70.1	9.76	65.22	5.88	3.88	726.1	716.34	721.22	722.22	720.22	3.88	4/7/2021	0910	4/21/2021	0915	60.33
MW-16	754.95	65.36	70.53	5.17	67.95	3.59	1.59	689.59	684.42	687.01	688.01	686.01	1.58	4/7/2021	0955	4/21/2021	1000	65.35
MW-17S	760.09	58.64	68.32	9.68	63.48	5.84	3.84	701.45	691.77	696.61	697.61	695.61	3.84	4/7/2021	0940	4/21/2021	0945	58.67
MW-23	692.17	39.50	46.32	6.82	42.91	4.41	2.41	652.67	645.85	649.26	650.26	648.26	2.41	4/7/2021	0820	4/21/2021	0825	39.44
MW-24S	722.31	67.09	74.11	7.02	70.60	4.51	2.51	655.22	648.2	651.71	652.71	650.71	2.51	4/7/2021	0850	4/21/2021	0900	67.08
MW-26	800.59	67.61	84.49	16.88	76.05	6.00	4.00	732.98	716.1	724.54	722.10	720.10	10.88	4/7/2021	1050	4/21/2021	1120	67.69
SS&G MW-3	805.43	69.78	74.86	5.08	72.32	3.54	1.54	735.65	730.57	733.11	734.11	732.11	1.54	4/7/2021	1040	4/21/2021	1105	69.78

Sampling Personnel: Jeremy Wolf / James Moore

Weather:

Notes: Collected MS/MSD at MW-10; Collected Blind Dup at MW-26, Dup ID: DUP042121B, Dup Time: 1130



# **Appendix B**

## **Surface Water Sampling Log**

## Surface Water Sampling Log

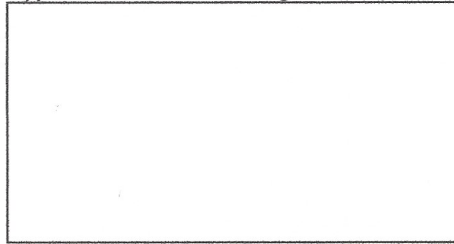
Date 4/21/2021  
 Site Name Modock Rd. Springs/DLS Sand & Gravel, Inc. Site  
 Location Victor, NY  
 Project No. 21-007c  
 Personnel Jeremy Wolf

Weather Cold 34F, light snow  
 Location ID SC-1  
 Sampling Method Teflon Dipper  
 Other \_\_\_\_\_

**Sample Information:**

Location of Sample SC-1  
 Amount of Water at Surface (est.) \_\_\_\_\_ gal.(s)  
 Other Description: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Approximate Location Drawing:



**Instrument Calibration:**

**pH Buffer Readings**

4.0 Standard \_\_\_\_\_  
 7.0 Standard \_\_\_\_\_  
 10.0 Standard \_\_\_\_\_

**Conductivity Standard Readings**

84 S Standard \_\_\_\_\_  
 1413 S Standard \_\_\_\_\_

**Water parameters:**

**Oxidation-Reduction Potential**

**Temperature Readings**

**pH Readings**

**Conductivity Readings uS/cm**

**Turbidity Readings Ntu**

initial \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

initial \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

initial \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

initial \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

initial \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**Water Sample:**

Time Collected 1025

**Physical Appearance at Start**

Color clear  
 Odor no  
 Turbidity (> 100 NTU) no  
 Sheen/Free Product no

**Physical Appearance at Sampling**

Color clear  
 Odor no  
 Turbidity (> 100 NTU) no  
 Sheen/Free Product no

**Samples collected:**

Container Size	Container Type	# Collected	Field	Filtered	Preservative	Container pH
3 40ml VOA (HCL)						

Notes:

collected Equipment Blank: ID: EB042121  
 Time: 1015

collected Dup: Dup ID: DUP042121A  
 Time: 1035



# **Appendix C**

## **Chain of Custody Form**







# CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

004917

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 2 OF 2

Project Name		Project Number 21-007C		ANALYSIS REQUESTED (Include Method Number and Container Preservative)														
Project Manager Modock Rd Springs / DLS		Report CC		PRESERVATIVE														
Company/Address Marks Engineering PC 42 Beeman ST Canandaigua NY 14424		Email JWolf@marksengineering.com		NUMBER OF CONTAINERS														
Phone # 585-500-8392		Sampler's Printed Name Jeremy Wolf		GC/MS VOAs • 8260 • 824 • CLP GC/MS SVOAs • 8270 • 825 GC VOAs • 8021 • 801802 PESTICIDES • 8081 • 808 PCBs • 8082 • 808 METALS, TOTAL (List in comments below) METALS, DISSOLVED (List in comments below)														
Sample's Signature JWolf		REMARKS/ ALTERNATE DESCRIPTION																
CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING		MATRIX	NUMBER OF CONTAINERS													
		DATE	TIME															
mw-4		04/21/21	1045	GW	3	3												
SS&G mw-3		04/21/21	1105	GW	3	3												
mw-26		4/21/21	1120	GW	3	3												
DUP042121 B		4/21/21	1130	GW	3	3												
VOL Trip Blank					3	3												
SPECIAL INSTRUCTIONS/COMMENTS Metals				TURNAROUND REQUIREMENTS RUSH (SURCHARGES APPLY) 1 day 2 day 3 day 4 day 5 day <input checked="" type="checkbox"/> Standard (10 business days-No Surcharge)				REPORT REQUIREMENTS I. Results Only II. Results + OC Summaries (LCS, DUP, MS/MSD as required) III. Results + OC and Calibration Summaries <input checked="" type="checkbox"/> IV. Data Validation Report with Raw Data CAT B NYSDEC EDD Edata <input checked="" type="checkbox"/> Yes ___ No				INVOICE INFORMATION PO # 21-007C BILL TO: JWolf@marksengineering.com						
STATE WHERE SAMPLES WERE COLLECTED Victor, NY				REQUESTED REPORT DATE														
RELINQUISHED BY		RECEIVED BY		RELINQUISHED BY		RECEIVED BY		RELINQUISHED BY		RECEIVED BY		RELINQUISHED BY		RECEIVED BY				
Signature Jeremy Wolf		Signature [Signature]		Signature		Signature		Signature		Signature		Signature		Signature				
Printed Name Jeremy Wolf		Printed Name [Name]		Printed Name		Printed Name		Printed Name		Printed Name		Printed Name		Printed Name				
Firm Marks Eng		Firm ALS		Firm		Firm		Firm		Firm		Firm		Firm				
Date/Time 4/23/21 1435		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time				

**R2103912** 5  
 Marks Engineering, PC  
 Modock Road Springs / DLS

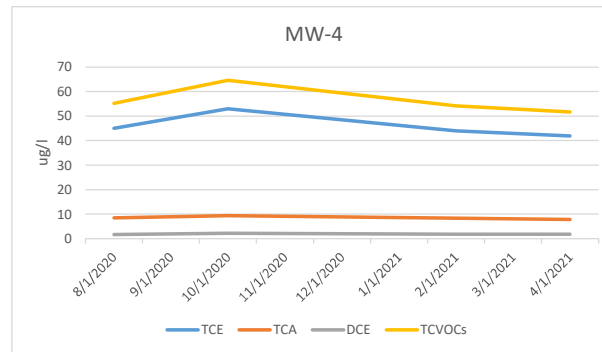


# **Appendix D**

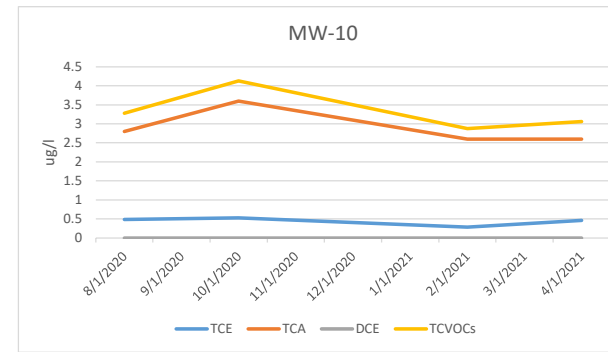
## **Time Series Plots of Quarterly Sampling Seasonal Trends CVOCs**

Appendix D - Time Series Plots of Quarterly Sampling Seasonal Trends CVOCs  
 Modock Rd. Springs/DSL Sand Gravel Inc. Site (NYSEC Site No. 8-35-013)  
 Victor, New York

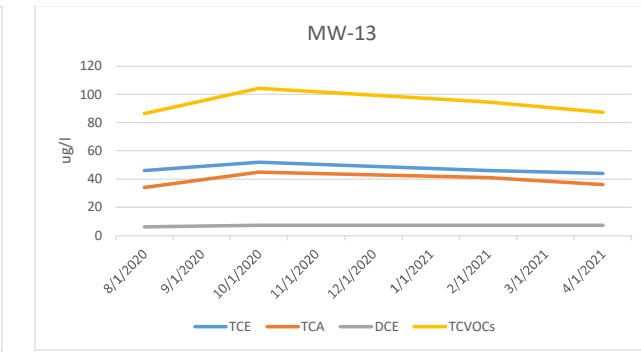
MW-4	8/5/2020	10/22/2020	2/4/2021	4/21/2021
TCE	45	53	44	42
TCA	8.5	9.5	8.3	7.9
DCE	1.7	2.2	1.8	1.8
TCVOCs	55.2	64.7	54.1	51.7



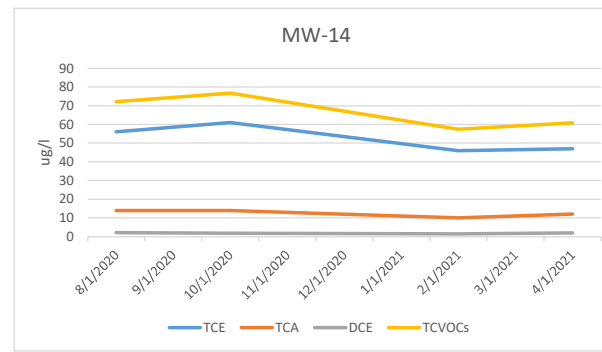
MW-10	8/5/2020	10/22/2020	2/4/2021	4/21/2021
TCE	0.48	0.53	0.28	0.46
TCA	2.8	3.6	2.6	2.6
DCE	0	0	0	0
TCVOCs	3.28	4.13	2.88	3.06



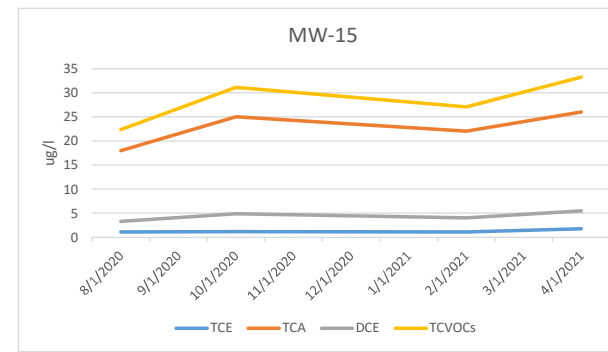
MW-13	8/5/2020	10/22/2020	2/4/2021	4/21/2021
TCE	46	52	46	44
TCA	34	45	41	36
DCE	6.3	7.3	7.4	7.2
TCVOCs	86.3	104.3	94.4	87.2



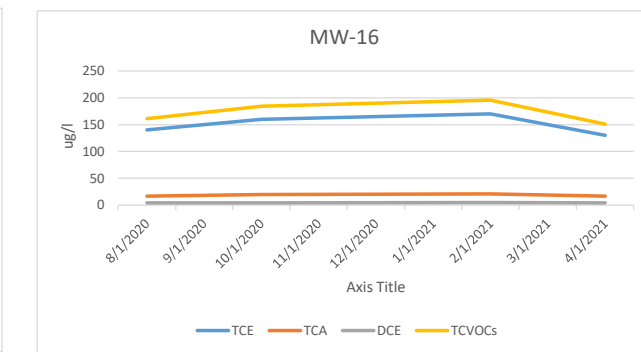
MW-14	8/5/2020	10/22/2020	2/4/2021	4/21/2021
TCE	56	61	46	47
TCA	14	14	10	12
DCE	2.2	1.8	1.5	1.9
TCVOCs	72.2	76.8	57.5	60.9



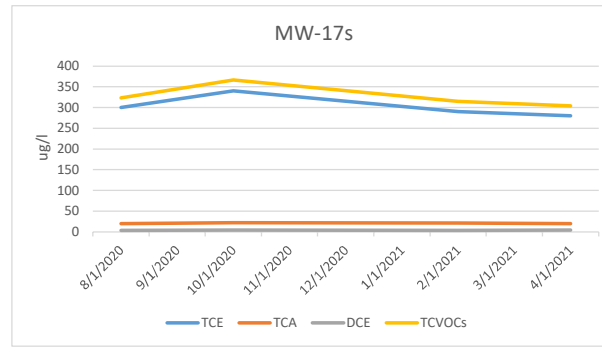
MW-15	8/5/2020	10/22/2020	2/4/2021	4/21/2021
TCE	1.1	1.2	1.1	1.8
TCA	18	25	22	26
DCE	3.3	4.9	4	5.5
TCVOCs	22.4	31.1	27.1	33.3



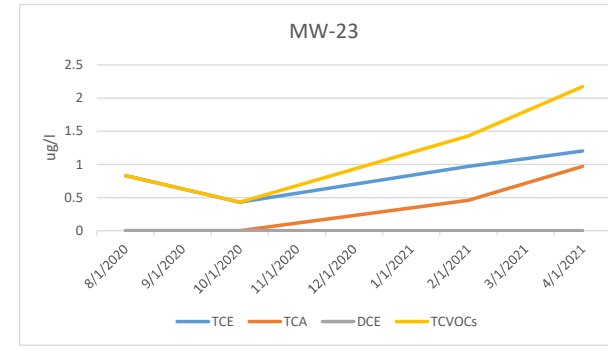
MW-16	8/5/2020	10/22/2020	2/4/2021	4/21/2021
TCE	140	160	170	130
TCA	17	20	21	17
DCE	4.1	4.3	4.9	4.1
TCVOCs	161.1	184.3	195.9	151.1



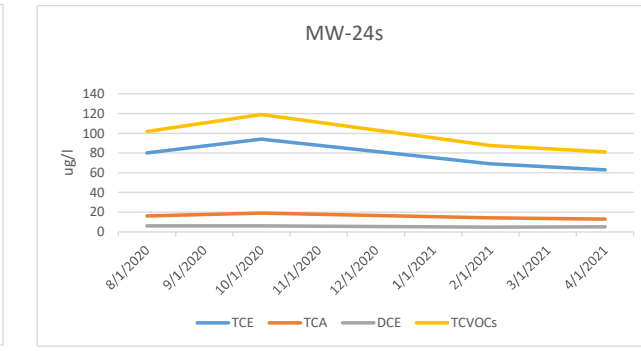
MW-17S	8/5/2020	10/22/2020	2/4/2021	4/21/2021
TCE	300	340	290	280
TCA	20	22	21	20
DCE	3.5	4.7	3.7	4.2
TCVOCs	323.5	366.7	314.7	304.2



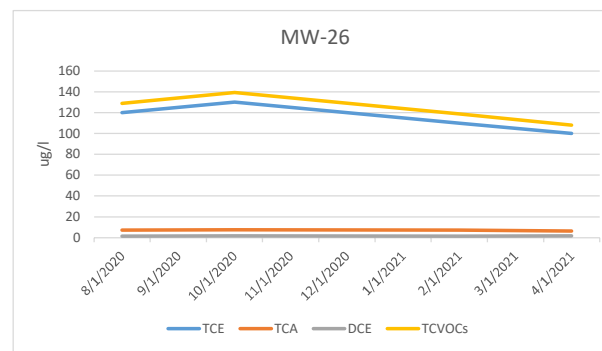
MW-23	8/5/2020	10/22/2020	2/4/2021	4/21/2021
TCE	0.83	0.43	0.97	1.2
TCA	0	0	0.46	0.97
DCE	0	0	0	0
TCVOCs	0.83	0.43	1.43	2.17



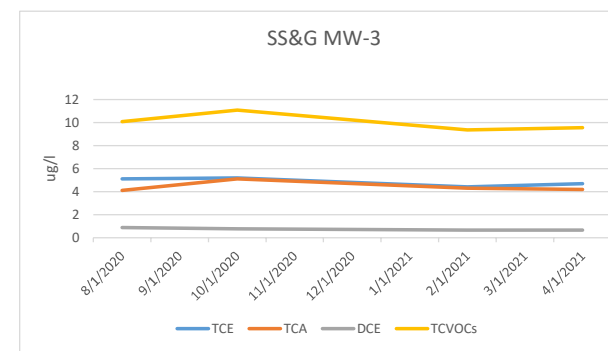
MW-24S	8/5/2020	10/22/2020	2/4/2021	4/21/2021
TCE	80	94	69	63
TCA	16	19	14	13
DCE	5.9	6.1	4.6	5.1
TCVOCs	101.9	119.1	87.6	81.1



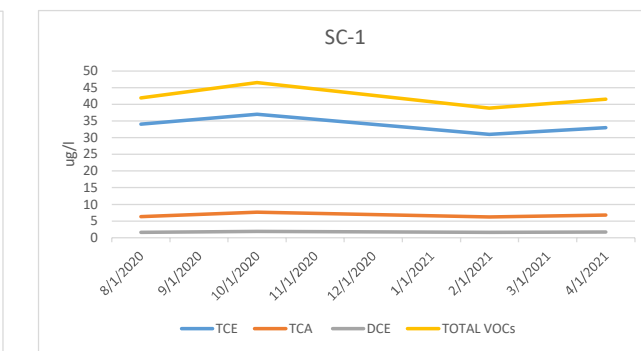
MW-26	8/5/2020	10/22/2020	2/4/2021	4/21/2021
TCE	120	130	110	100
TCA	7.4	7.7	7.2	6.3
DCE	1.6	1.7	1.5	1.7
TCVOCs	129	139.4	118.7	108



SS&G MW-3	8/5/2020	10/22/2020	2/4/2021	4/21/2021
TCE	5.1	5.2	4.4	4.7
TCA	4.1	5.1	4.3	4.2
DCE	0.88	0.78	0.65	0.66
TCVOCs	10.08	11.08	9.35	9.56



SC-1	8/5/2020	10/22/2020	2/4/2021	4/21/2021
TCE	34	37	31	33
TCA	6.3	7.6	6.2	6.8
DCE	1.6	1.9	1.6	1.7
TOTAL VOCs	41.9	46.5	38.8	41.5



NOTES: concentrations in ug/l



**Exhibit A**  
**Laboratory Report**  
**(Results Only)**



May 04, 2021

Service Request No:R2103912

Mr. Jeremy Wolf  
Marks Engineering, PC  
42 Beeman Street  
Canadaigua, NY 14424

**Laboratory Results for: Modock Road Springs / DLS**

Dear Mr. Wolf,

Enclosed are the results of the sample(s) submitted to our laboratory April 23, 2021  
For your reference, these analyses have been assigned our service request number **R2103912**.

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7472. You may also contact me via email at [Janice.Jaeger@alsglobal.com](mailto:Janice.Jaeger@alsglobal.com).

Respectfully submitted,

**ALS Group USA, Corp. dba ALS Environmental**

Janice Jaeger  
Project Manager

ADDRESS 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623  
PHONE +1 585 288 5380 | FAX +1 585 288 8475  
ALS Group USA, Corp.  
dba ALS Environmental



# Narrative Documents

**ALS Environmental—Rochester Laboratory**  
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623  
Phone (585) 288-5380 Fax (585) 288-8475  
[www.alsglobal.com](http://www.alsglobal.com)



**Client:** Marks Engineering, PC  
**Project:** Modock Road Springs / DLS  
**Sample Matrix:** Water

**Service Request:** R2103912  
**Date Received:** 04/23/2021

**CASE NARRATIVE**

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier level IV requested by the client.

**Sample Receipt:**

Sixteen water samples were received for analysis at ALS Environmental on 04/23/2021. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

**Volatiles by GC/MS:**

Method 8260C, 04/27/2021: The upper control criterion was exceeded for one or more analytes in the Laboratory Control Sample (LCS). There were no detections of the analyte(s) above the MRL in the associated field samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.

A handwritten signature in black ink, appearing to read "Samantha", is written over a horizontal line.

Approved by \_\_\_\_\_

Date 05/04/2021



**SAMPLE DETECTION SUMMARY**

**CLIENT ID: MW-23** **Lab ID: R2103912-001**

Analyte	Results	Flag	MDL	MRL	Units	Method
1,1,1-Trichloroethane (TCA)	0.97	J	0.20	1.0	ug/L	8260C
Trichloroethene (TCE)	1.2		0.20	1.0	ug/L	8260C

**CLIENT ID: MW-10** **Lab ID: R2103912-002**

Analyte	Results	Flag	MDL	MRL	Units	Method
1,1,1-Trichloroethane (TCA)	2.6		0.20	1.0	ug/L	8260C
Trichloroethene (TCE)	0.46	J	0.20	1.0	ug/L	8260C

**CLIENT ID: MW-24S** **Lab ID: R2103912-003**

Analyte	Results	Flag	MDL	MRL	Units	Method
1,1,1-Trichloroethane (TCA)	13		0.20	1.0	ug/L	8260C
1,1-Dichloroethane (1,1-DCA)	1.4		0.20	1.0	ug/L	8260C
1,1-Dichloroethene (1,1-DCE)	5.1		0.20	1.0	ug/L	8260C
Tetrachloroethene (PCE)	0.26	J	0.21	1.0	ug/L	8260C
Trichloroethene (TCE)	63		0.20	1.0	ug/L	8260C

**CLIENT ID: MW-15** **Lab ID: R2103912-004**

Analyte	Results	Flag	MDL	MRL	Units	Method
1,1,1-Trichloroethane (TCA)	26		0.20	1.0	ug/L	8260C
1,1-Dichloroethene (1,1-DCE)	5.5		0.20	1.0	ug/L	8260C
Trichloroethene (TCE)	1.8		0.20	1.0	ug/L	8260C

**CLIENT ID: MW-13** **Lab ID: R2103912-005**

Analyte	Results	Flag	MDL	MRL	Units	Method
1,1,1-Trichloroethane (TCA)	36		0.20	1.0	ug/L	8260C
1,1-Dichloroethene (1,1-DCE)	7.2		0.20	1.0	ug/L	8260C
Tetrachloroethene (PCE)	0.35	J	0.21	1.0	ug/L	8260C
Trichloroethene (TCE)	44		0.20	1.0	ug/L	8260C

**CLIENT ID: MW-14** **Lab ID: R2103912-006**

Analyte	Results	Flag	MDL	MRL	Units	Method
1,1,1-Trichloroethane (TCA)	12		0.20	1.0	ug/L	8260C
1,1-Dichloroethene (1,1-DCE)	1.9		0.20	1.0	ug/L	8260C
Tetrachloroethene (PCE)	0.72	J	0.21	1.0	ug/L	8260C
Trichloroethene (TCE)	47		0.20	1.0	ug/L	8260C

**CLIENT ID: MW-17S** **Lab ID: R2103912-007**

Analyte	Results	Flag	MDL	MRL	Units	Method
1,1,1-Trichloroethane (TCA)	20		0.50	2.5	ug/L	8260C
1,1,2-Trichloroethane	0.73	J	0.50	2.5	ug/L	8260C
1,1-Dichloroethene (1,1-DCE)	4.2		0.50	2.5	ug/L	8260C
Tetrachloroethene (PCE)	1.2	J	0.53	2.5	ug/L	8260C
Trichloroethene (TCE)	280		0.50	2.5	ug/L	8260C





**SAMPLE DETECTION SUMMARY**

**CLIENT ID: MW-16** **Lab ID: R2103912-008**

Analyte	Results	Flag	MDL	MRL	Units	Method
1,1,1-Trichloroethane (TCA)	17		0.20	1.0	ug/L	8260C
1,1-Dichloroethane (1,1-DCE)	4.1		0.20	1.0	ug/L	8260C
Tetrachloroethene (PCE)	0.44	J	0.21	1.0	ug/L	8260C
Trichloroethene (TCE)	130		0.20	1.0	ug/L	8260C

**CLIENT ID: SC-01** **Lab ID: R2103912-010**

Analyte	Results	Flag	MDL	MRL	Units	Method
1,1,1-Trichloroethane (TCA)	6.8		0.20	1.0	ug/L	8260C
1,1-Dichloroethane (1,1-DCA)	0.44	J	0.20	1.0	ug/L	8260C
1,1-Dichloroethene (1,1-DCE)	1.7		0.20	1.0	ug/L	8260C
Trichloroethene (TCE)	33		0.20	1.0	ug/L	8260C

**CLIENT ID: DUP042121A** **Lab ID: R2103912-011**

Analyte	Results	Flag	MDL	MRL	Units	Method
1,1,1-Trichloroethane (TCA)	6.5		0.20	1.0	ug/L	8260C
1,1-Dichloroethane (1,1-DCA)	0.43	J	0.20	1.0	ug/L	8260C
1,1-Dichloroethene (1,1-DCE)	2.0		0.20	1.0	ug/L	8260C
Trichloroethene (TCE)	32		0.20	1.0	ug/L	8260C

**CLIENT ID: MW-4** **Lab ID: R2103912-012**

Analyte	Results	Flag	MDL	MRL	Units	Method
1,1,1-Trichloroethane (TCA)	7.9		0.20	1.0	ug/L	8260C
1,1-Dichloroethane (1,1-DCA)	0.33	J	0.20	1.0	ug/L	8260C
1,1-Dichloroethene (1,1-DCE)	1.8		0.20	1.0	ug/L	8260C
Trichloroethene (TCE)	42		0.20	1.0	ug/L	8260C

**CLIENT ID: SSG MW-3** **Lab ID: R2103912-013**

Analyte	Results	Flag	MDL	MRL	Units	Method
1,1,1-Trichloroethane (TCA)	4.2		0.20	1.0	ug/L	8260C
1,1-Dichloroethene (1,1-DCE)	0.66	J	0.20	1.0	ug/L	8260C
Trichloroethene (TCE)	4.7		0.20	1.0	ug/L	8260C

**CLIENT ID: MW-26** **Lab ID: R2103912-014**

Analyte	Results	Flag	MDL	MRL	Units	Method
1,1,1-Trichloroethane (TCA)	6.3		0.20	1.0	ug/L	8260C
1,1-Dichloroethene (1,1-DCE)	1.7		0.20	1.0	ug/L	8260C
Tetrachloroethene (PCE)	1.9		0.21	1.0	ug/L	8260C
Trichloroethene (TCE)	100		0.20	1.0	ug/L	8260C

**CLIENT ID: DUP042121B** **Lab ID: R2103912-015**

Analyte	Results	Flag	MDL	MRL	Units	Method
1,1,1-Trichloroethane (TCA)	6.9		0.20	1.0	ug/L	8260C
1,1,2-Trichloro-1,2,2-trifluoroethane	1.2		0.20	1.0	ug/L	8260C
1,1-Dichloroethene (1,1-DCE)	1.6		0.20	1.0	ug/L	8260C

**SAMPLE DETECTION SUMMARY****CLIENT ID: DUP042121B****Lab ID: R2103912-015**

<b>Analyte</b>	<b>Results</b>	<b>Flag</b>	<b>MDL</b>	<b>MRL</b>	<b>Units</b>	<b>Method</b>
Tetrachloroethene (PCE)	1.9		0.21	1.0	ug/L	8260C
Trichloroethene (TCE)	100		0.20	1.0	ug/L	8260C



## Sample Receipt Information

**ALS Environmental—Rochester Laboratory**  
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623  
Phone (585) 288-5380 Fax (585) 288-8475  
[www.alsglobal.com](http://www.alsglobal.com)

**Client:** Marks Engineering, PC  
**Project:** Modock Road Springs / DLS/21-007C

**Service Request:**R2103912

**SAMPLE CROSS-REFERENCE**

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R2103912-001	MW-23	4/21/2021	0825
R2103912-002	MW-10	4/21/2021	0840
R2103912-003	MW-24S	4/21/2021	0900
R2103912-004	MW-15	4/21/2021	0915
R2103912-005	MW-13	4/21/2021	0925
R2103912-006	MW-14	4/21/2021	0935
R2103912-007	MW-17S	4/21/2021	0945
R2103912-008	MW-16	4/21/2021	1000
R2103912-009	EB042121	4/21/2021	1015
R2103912-010	SC-01	4/21/2021	1025
R2103912-011	DUP042121A	4/21/2021	1035
R2103912-012	MW-4	4/21/2021	1045
R2103912-013	SSG MW-3	4/21/2021	1105
R2103912-014	MW-26	4/21/2021	1120
R2103912-015	DUP042121B	4/21/2021	1130
R2103912-016	Trip Blank	4/21/2021	





# CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

004917

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 2 OF 2

Project Name		Project Number 21-007C		ANALYSIS REQUESTED (Include Method Number and Container Preservative)														
Project Manager Modock Rd Springs / DLS		Report CC		PRESERVATIVE														
Company/Address Marks Engineering PC 42 Beeman ST Canandaigua NY 14424		Email JWolf@marksengineering.com		NUMBER OF CONTAINERS														
Phone # 585-500-8392		Sampler's Printed Name Jeremy Wolf		GC/MS VOAs • 8260 • 824 • CLP GC/MS SVOAs • 8270 • 825 GC VOAs • 8021 • 801802 PESTICIDES • 8081 • 808 PCBs • 8082 • 808 METALS, TOTAL (List in comments below) METALS, DISSOLVED (List in comments below)														
Sample's Signature JWolf		REMARKS/ ALTERNATE DESCRIPTION																
CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING		MATRIX	NUMBER OF CONTAINERS													
		DATE	TIME															
mw-4		04/21/21	1045	GW	3	3												
SS&G mw-3		04/21/21	1105	GW	3	3												
mw-26		4/21/21	1120	GW	3	3												
DUP042121 B		4/21/21	1130	GW	3	3												
VOL Trip Blank					3	3												
SPECIAL INSTRUCTIONS/COMMENTS Metals				TURNAROUND REQUIREMENTS RUSH (SURCHARGES APPLY) 1 day 2 day 3 day 4 day 5 day <input checked="" type="checkbox"/> Standard (10 business days-No Surcharge)				REPORT REQUIREMENTS I. Results Only II. Results + OC Summaries (LCS, DUP, MS/MSD as required) III. Results + OC and Calibration Summaries <input checked="" type="checkbox"/> IV. Data Validation Report with Raw Data CAT B NYSDEC EDD Edata <input checked="" type="checkbox"/> Yes ___ No				INVOICE INFORMATION PO # 21-007C BILL TO: JWolf@marksengineering.com						
STATE WHERE SAMPLES WERE COLLECTED Victor, NY				REQUESTED REPORT DATE														
RELINQUISHED BY		RECEIVED BY		RELINQUISHED BY		RECEIVED BY		RELINQUISHED BY		RECEIVED BY		RELINQUISHED BY		RECEIVED BY				
Signature Jeremy Wolf		Signature [Signature]		Signature		Signature		Signature		Signature		Signature		Signature				
Printed Name Jeremy Wolf		Printed Name [Name]		Printed Name		Printed Name		Printed Name		Printed Name		Printed Name		Printed Name				
Firm Marks Eng		Firm ALS		Firm		Firm		Firm		Firm		Firm		Firm				
Date/Time 4/23/21 1435		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time				

**R2103912** **5**  
 Marks Engineering, PC  
 Modock Road Springs / DLS



# Cooler Receipt and Preservation Check Form

R2103912 5

Marks Engineering, PC  
Modock Road Springs / DLS



Project/Client Mayhew Folder Number \_\_\_\_\_

Cooler received on 4/23/21 by: [Signature]

COURIER: ALS UPS FEDEX VELOCITY (CLIENT)

1	Were Custody seals on outside of cooler?	Y <u>(N)</u>
2	Custody papers properly completed (ink, signed)?	<u>(Y)</u> N
3	Did all bottles arrive in good condition (unbroken)?	<u>(Y)</u> N
4	Circle: <u>Wet Ice</u> Dry Ice Gel packs present?	<u>(Y)</u> N

5a	Perchlorate samples have required headspace?	Y N <u>(NA)</u>
5b	Did VOA vials, Alk, or Sulfide have sig* bubbles?	Y <u>(N)</u> NA
6	Where did the bottles originate?	<u>ALS/ROC</u> CLIENT
7	Soil VOA received as:	Bulk Encore 5035set <u>(NA)</u>

8. Temperature Readings Date: 4/23/21 Time: 1441 ID: IR#7 (R#1) From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>3.2</u>						
Within 0-6°C?	<u>(Y)</u> N	Y N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: \_\_\_\_\_ Ice melted Poorly Packed (described below) Same Day Rule  
& Client Approval to Run Samples: \_\_\_\_\_ Standing Approval Client aware at drop-off Client notified by: \_\_\_\_\_

All samples held in storage location: R-02 by [Signature] on 4/23/21 at 1445  
5035 samples placed in storage location: \_\_\_\_\_ by \_\_\_\_\_ on \_\_\_\_\_ at \_\_\_\_\_ within 48 hours of sampling? Y N

Cooler Breakdown/Preservation Check\*\*: Date: 4/23/21 Time: 1405 by: [Signature]

- 9. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
- 10. Did all bottle labels and tags agree with custody papers? YES NO
- 11. Were correct containers used for the tests indicated? YES NO
- 12. Were 5035 vials acceptable (no extra labels, not leaking)? YES NO
- 13. Air Samples: Cassettes / Tubes Intact Y / N with MS Y / N Canisters Pressurized Tedlar® Bags Inflated N/A N/A

pH	Lot of test paper	Reagent	Preserved?		Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
			Yes	No						
≥12		NaOH								
≤		HNO <sub>3</sub>								
≤		H <sub>2</sub> SO <sub>4</sub>								
<4		NaHSO <sub>4</sub>								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522			If +, contact PM to add Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (625, 608, CN), ascorbic (phenol).					
		Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>								
		ZnAcetate	-	-						
		HCl	**	**						

\*\*VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).

Bottle lot numbers: 2583  
Explain all Discrepancies/ Other Comments:

HPRD	BULK
HTR	FLDT
SUB	HGFB
ALS	LL3541

Labels secondary reviewed by: [Signature]  
PC Secondary Review: [Signature]

\*significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter



## Miscellaneous Forms

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1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623  
Phone (585) 288-5380 Fax (585) 288-8475  
[www.alsglobal.com](http://www.alsglobal.com)



## REPORT QUALIFIERS AND DEFINITIONS

<p><b>U</b> Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.</p> <p><b>J</b> Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration &gt;40% difference between two GC columns (pesticides/Aroclors).</p> <p><b>B</b> Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.</p> <p><b>E</b> Inorganics- Concentration is estimated due to the serial dilution was outside control limits.</p> <p><b>E</b> Organics- Concentration has exceeded the calibration range for that specific analysis.</p> <p><b>D</b> Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.</p> <p><b>*</b> Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.</p> <p><b>H</b> Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.</p> <p><b>#</b> Spike was diluted out.</p>	<p><b>+</b> Correlation coefficient for MSA is &lt;0.995.</p> <p><b>N</b> Inorganics- Matrix spike recovery was outside laboratory limits.</p> <p><b>N</b> Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.</p> <p><b>S</b> Concentration has been determined using Method of Standard Additions (MSA).</p> <p><b>W</b> Post-Digestion Spike recovery is outside control limits and the sample absorbance is &lt;50% of the spike absorbance.</p> <p><b>P</b> Concentration &gt;40% difference between the two GC columns.</p> <p><b>C</b> Confirmed by GC/MS</p> <p><b>Q</b> DoD reports: indicates a pesticide/Aroclor is not confirmed (<math>\times 100\%</math> Difference between two GC columns).</p> <p><b>X</b> See Case Narrative for discussion.</p> <p><b>MRL</b> Method Reporting Limit. Also known as:</p> <p><b>LOQ</b> Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.</p> <p><b>MDL</b> Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).</p> <p><b>LOD</b> Limit of Detection. A value at or above the MDL which has been verified to be detectable.</p> <p><b>ND</b> Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.</p>
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### Rochester Lab ID # for State Certifications<sup>1</sup>

Connecticut ID # PH0556	Maine ID #NY0032	Pennsylvania ID# 68-786
Delaware Approved	New Hampshire ID # 2941	Rhode Island ID # 158
DoD ELAP #65817	New York ID # 10145	Virginia #460167
Florida ID # E87674	North Carolina #676	

<sup>1</sup> Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to <https://www.alsglobal.com/locations/americas/north-america/usa/new-york/rochester-environmental>

# ALS Laboratory Group

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## Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

ALS Group USA, Corp.  
dba ALS Environmental

Analyst Summary report

**Client:** Marks Engineering, PC  
**Project:** Modock Road Springs / DLS/21-007C

**Service Request:** R2103912

**Sample Name:** MW-23  
**Lab Code:** R2103912-001  
**Sample Matrix:** Water

**Date Collected:** 04/21/21  
**Date Received:** 04/23/21

**Analysis Method**  
8260C

**Extracted/Digested By**

**Analyzed By**  
KRUEST

**Sample Name:** MW-10  
**Lab Code:** R2103912-002  
**Sample Matrix:** Water

**Date Collected:** 04/21/21  
**Date Received:** 04/23/21

**Analysis Method**  
8260C

**Extracted/Digested By**

**Analyzed By**  
KRUEST

**Sample Name:** MW-24S  
**Lab Code:** R2103912-003  
**Sample Matrix:** Water

**Date Collected:** 04/21/21  
**Date Received:** 04/23/21

**Analysis Method**  
8260C

**Extracted/Digested By**

**Analyzed By**  
NMANSEN

**Sample Name:** MW-15  
**Lab Code:** R2103912-004  
**Sample Matrix:** Water

**Date Collected:** 04/21/21  
**Date Received:** 04/23/21

**Analysis Method**  
8260C

**Extracted/Digested By**

**Analyzed By**  
NMANSEN

**Sample Name:** MW-13  
**Lab Code:** R2103912-005  
**Sample Matrix:** Water

**Date Collected:** 04/21/21  
**Date Received:** 04/23/21

**Analysis Method**  
8260C

**Extracted/Digested By**

**Analyzed By**  
NMANSEN

ALS Group USA, Corp.  
dba ALS Environmental

Analyst Summary report

**Client:** Marks Engineering, PC  
**Project:** Modock Road Springs / DLS/21-007C

**Service Request:** R2103912

**Sample Name:** MW-14  
**Lab Code:** R2103912-006  
**Sample Matrix:** Water

**Date Collected:** 04/21/21  
**Date Received:** 04/23/21

**Analysis Method**  
8260C

**Extracted/Digested By**

**Analyzed By**  
NMANSEN

**Sample Name:** MW-17S  
**Lab Code:** R2103912-007  
**Sample Matrix:** Water

**Date Collected:** 04/21/21  
**Date Received:** 04/23/21

**Analysis Method**  
8260C

**Extracted/Digested By**

**Analyzed By**  
NMANSEN

**Sample Name:** MW-16  
**Lab Code:** R2103912-008  
**Sample Matrix:** Water

**Date Collected:** 04/21/21  
**Date Received:** 04/23/21

**Analysis Method**  
8260C

**Extracted/Digested By**

**Analyzed By**  
NMANSEN

**Sample Name:** EB042121  
**Lab Code:** R2103912-009  
**Sample Matrix:** Water

**Date Collected:** 04/21/21  
**Date Received:** 04/23/21

**Analysis Method**  
8260C

**Extracted/Digested By**

**Analyzed By**  
KRUEST

**Sample Name:** SC-01  
**Lab Code:** R2103912-010  
**Sample Matrix:** Water

**Date Collected:** 04/21/21  
**Date Received:** 04/23/21

**Analysis Method**  
8260C

**Extracted/Digested By**

**Analyzed By**  
NMANSEN

ALS Group USA, Corp.  
dba ALS Environmental

Analyst Summary report

**Client:** Marks Engineering, PC  
**Project:** Modock Road Springs / DLS/21-007C

**Service Request:** R2103912

**Sample Name:** DUP042121A  
**Lab Code:** R2103912-011  
**Sample Matrix:** Water

**Date Collected:** 04/21/21  
**Date Received:** 04/23/21

**Analysis Method**  
8260C

**Extracted/Digested By**

**Analyzed By**  
NMANSEN

**Sample Name:** MW-4  
**Lab Code:** R2103912-012  
**Sample Matrix:** Water

**Date Collected:** 04/21/21  
**Date Received:** 04/23/21

**Analysis Method**  
8260C

**Extracted/Digested By**

**Analyzed By**  
NMANSEN

**Sample Name:** SSG MW-3  
**Lab Code:** R2103912-013  
**Sample Matrix:** Water

**Date Collected:** 04/21/21  
**Date Received:** 04/23/21

**Analysis Method**  
8260C

**Extracted/Digested By**

**Analyzed By**  
KRUEST

**Sample Name:** MW-26  
**Lab Code:** R2103912-014  
**Sample Matrix:** Water

**Date Collected:** 04/21/21  
**Date Received:** 04/23/21

**Analysis Method**  
8260C

**Extracted/Digested By**

**Analyzed By**  
NMANSEN

**Sample Name:** DUP042121B  
**Lab Code:** R2103912-015  
**Sample Matrix:** Water

**Date Collected:** 04/21/21  
**Date Received:** 04/23/21

**Analysis Method**  
8260C

**Extracted/Digested By**

**Analyzed By**  
NMANSEN

**ALS Group USA, Corp.**  
dba ALS Environmental

Analyst Summary report

**Client:** Marks Engineering, PC  
**Project:** Modock Road Springs / DLS/21-007C

**Service Request:** R2103912

**Sample Name:** Trip Blank  
**Lab Code:** R2103912-016  
**Sample Matrix:** Water

**Date Collected:** 04/21/21  
**Date Received:** 04/23/21

**Analysis Method**  
8260C

**Extracted/Digested By**

**Analyzed By**  
KRUEST



# INORGANIC PREPARATION METHODS

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

## Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9034 Sulfide Acid Soluble	9030B
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

## Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7199	3060A
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction
For analytical methods not listed, the preparation method is the same as the analytical method reference.	



## Sample Results

**ALS Environmental—Rochester Laboratory**  
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623  
Phone (585) 288-5380 Fax (585) 288-8475  
[www.alsglobal.com](http://www.alsglobal.com)





## Volatile Organic Compounds by GC/MS

**ALS Environmental—Rochester Laboratory**  
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623  
Phone (585) 288-5380 Fax (585) 288-8475  
[www.alsglobal.com](http://www.alsglobal.com)

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Marks Engineering, PC  
**Project:** Modock Road Springs / DLS/21-007C  
**Sample Matrix:** Water

**Service Request:** R2103912  
**Date Collected:** 04/21/21 08:25  
**Date Received:** 04/23/21 14:35

**Sample Name:** MW-23  
**Lab Code:** R2103912-001

**Units:** ug/L  
**Basis:** NA

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.97 J	1.0	0.20	1	04/28/21 00:41	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	04/28/21 00:41	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	04/28/21 00:41	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	0.20	1	04/28/21 00:41	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	04/28/21 00:41	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	04/28/21 00:41	
1,2,3-Trichlorobenzene	1.0 U	1.0	0.25	1	04/28/21 00:41	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.34	1	04/28/21 00:41	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	04/28/21 00:41	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	04/28/21 00:41	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	04/28/21 00:41	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	04/28/21 00:41	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	04/28/21 00:41	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	04/28/21 00:41	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	04/28/21 00:41	
1,4-Dioxane	40 U	40	13	1	04/28/21 00:41	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	04/28/21 00:41	
2-Hexanone	5.0 U	5.0	0.20	1	04/28/21 00:41	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	04/28/21 00:41	
Acetone	5.0 U	5.0	5.0	1	04/28/21 00:41	
Benzene	1.0 U	1.0	0.20	1	04/28/21 00:41	
Bromochloromethane	1.0 U	1.0	0.20	1	04/28/21 00:41	
Bromodichloromethane	1.0 U	1.0	0.20	1	04/28/21 00:41	
Bromoform	1.0 U	1.0	0.25	1	04/28/21 00:41	
Bromomethane	1.0 U	1.0	0.70	1	04/28/21 00:41	
Carbon Disulfide	1.0 U	1.0	0.42	1	04/28/21 00:41	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	04/28/21 00:41	
Chlorobenzene	1.0 U	1.0	0.20	1	04/28/21 00:41	
Chloroethane	1.0 U	1.0	0.23	1	04/28/21 00:41	
Chloroform	1.0 U	1.0	0.24	1	04/28/21 00:41	
Chloromethane	1.0 U	1.0	0.28	1	04/28/21 00:41	
Cyclohexane	1.0 U	1.0	0.26	1	04/28/21 00:41	
Dibromochloromethane	1.0 U	1.0	0.20	1	04/28/21 00:41	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	04/28/21 00:41	
Dichloromethane	1.0 U	1.0	0.65	1	04/28/21 00:41	
Ethylbenzene	1.0 U	1.0	0.20	1	04/28/21 00:41	
Isopropylbenzene (Cumene)	1.0 U	1.0	0.20	1	04/28/21 00:41	
Methyl Acetate	2.0 U	2.0	0.33	1	04/28/21 00:41	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	04/28/21 00:41	
Methylcyclohexane	1.0 U	1.0	0.20	1	04/28/21 00:41	
Styrene	1.0 U	1.0	0.20	1	04/28/21 00:41	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	04/28/21 00:41	
Toluene	1.0 U	1.0	0.20	1	04/28/21 00:41	

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Marks Engineering, PC  
**Project:** Modock Road Springs / DLS/21-007C  
**Sample Matrix:** Water  
**Sample Name:** MW-23  
**Lab Code:** R2103912-001

**Service Request:** R2103912  
**Date Collected:** 04/21/21 08:25  
**Date Received:** 04/23/21 14:35

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	1.2	1.0	0.20	1	04/28/21 00:41	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	04/28/21 00:41	
Vinyl Chloride	1.0 U	1.0	0.20	1	04/28/21 00:41	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	04/28/21 00:41	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	04/28/21 00:41	
m,p-Xylenes	2.0 U	2.0	0.20	1	04/28/21 00:41	
o-Xylene	1.0 U	1.0	0.20	1	04/28/21 00:41	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	04/28/21 00:41	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	04/28/21 00:41	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	04/28/21 00:41	
Dibromofluoromethane	94	80 - 116	04/28/21 00:41	
Toluene-d8	98	87 - 121	04/28/21 00:41	

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Marks Engineering, PC  
**Project:** Modock Road Springs / DLS/21-007C  
**Sample Matrix:** Water

**Service Request:** R2103912  
**Date Collected:** 04/21/21 08:40  
**Date Received:** 04/23/21 14:35

**Sample Name:** MW-10  
**Lab Code:** R2103912-002

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	2.6	1.0	0.20	1	04/28/21 01:03	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	04/28/21 01:03	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	04/28/21 01:03	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	0.20	1	04/28/21 01:03	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	04/28/21 01:03	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	04/28/21 01:03	
1,2,3-Trichlorobenzene	1.0 U	1.0	0.25	1	04/28/21 01:03	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.34	1	04/28/21 01:03	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	04/28/21 01:03	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	04/28/21 01:03	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	04/28/21 01:03	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	04/28/21 01:03	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	04/28/21 01:03	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	04/28/21 01:03	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	04/28/21 01:03	
1,4-Dioxane	40 U	40	13	1	04/28/21 01:03	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	04/28/21 01:03	
2-Hexanone	5.0 U	5.0	0.20	1	04/28/21 01:03	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	04/28/21 01:03	
Acetone	5.0 U	5.0	5.0	1	04/28/21 01:03	
Benzene	1.0 U	1.0	0.20	1	04/28/21 01:03	
Bromochloromethane	1.0 U	1.0	0.20	1	04/28/21 01:03	
Bromodichloromethane	1.0 U	1.0	0.20	1	04/28/21 01:03	
Bromoform	1.0 U	1.0	0.25	1	04/28/21 01:03	
Bromomethane	1.0 U	1.0	0.70	1	04/28/21 01:03	
Carbon Disulfide	1.0 U	1.0	0.42	1	04/28/21 01:03	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	04/28/21 01:03	
Chlorobenzene	1.0 U	1.0	0.20	1	04/28/21 01:03	
Chloroethane	1.0 U	1.0	0.23	1	04/28/21 01:03	
Chloroform	1.0 U	1.0	0.24	1	04/28/21 01:03	
Chloromethane	1.0 U	1.0	0.28	1	04/28/21 01:03	
Cyclohexane	1.0 U	1.0	0.26	1	04/28/21 01:03	
Dibromochloromethane	1.0 U	1.0	0.20	1	04/28/21 01:03	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	04/28/21 01:03	
Dichloromethane	1.0 U	1.0	0.65	1	04/28/21 01:03	
Ethylbenzene	1.0 U	1.0	0.20	1	04/28/21 01:03	
Isopropylbenzene (Cumene)	1.0 U	1.0	0.20	1	04/28/21 01:03	
Methyl Acetate	2.0 U	2.0	0.33	1	04/28/21 01:03	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	04/28/21 01:03	
Methylcyclohexane	1.0 U	1.0	0.20	1	04/28/21 01:03	
Styrene	1.0 U	1.0	0.20	1	04/28/21 01:03	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	04/28/21 01:03	
Toluene	1.0 U	1.0	0.20	1	04/28/21 01:03	

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Analytical Report

**Client:** Marks Engineering, PC  
**Project:** Modock Road Springs / DLS/21-007C  
**Sample Matrix:** Water  
**Sample Name:** MW-10  
**Lab Code:** R2103912-002

**Service Request:** R2103912  
**Date Collected:** 04/21/21 08:40  
**Date Received:** 04/23/21 14:35

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	0.46 J	1.0	0.20	1	04/28/21 01:03	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	04/28/21 01:03	
Vinyl Chloride	1.0 U	1.0	0.20	1	04/28/21 01:03	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	04/28/21 01:03	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	04/28/21 01:03	
m,p-Xylenes	2.0 U	2.0	0.20	1	04/28/21 01:03	
o-Xylene	1.0 U	1.0	0.20	1	04/28/21 01:03	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	04/28/21 01:03	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	04/28/21 01:03	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	04/28/21 01:03	
Dibromofluoromethane	94	80 - 116	04/28/21 01:03	
Toluene-d8	97	87 - 121	04/28/21 01:03	

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Marks Engineering, PC  
**Project:** Modock Road Springs / DLS/21-007C  
**Sample Matrix:** Water

**Service Request:** R2103912  
**Date Collected:** 04/21/21 09:00  
**Date Received:** 04/23/21 14:35

**Sample Name:** MW-24S  
**Lab Code:** R2103912-003

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	<b>13</b>	1.0	0.20	1	04/29/21 18:42	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	04/29/21 18:42	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	04/29/21 18:42	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	0.20	1	04/29/21 18:42	
1,1-Dichloroethane (1,1-DCA)	<b>1.4</b>	1.0	0.20	1	04/29/21 18:42	
1,1-Dichloroethene (1,1-DCE)	<b>5.1</b>	1.0	0.20	1	04/29/21 18:42	
1,2,3-Trichlorobenzene	1.0 U	1.0	0.25	1	04/29/21 18:42	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.34	1	04/29/21 18:42	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	04/29/21 18:42	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	04/29/21 18:42	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	04/29/21 18:42	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	04/29/21 18:42	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	04/29/21 18:42	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	04/29/21 18:42	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	04/29/21 18:42	
1,4-Dioxane	40 U	40	13	1	04/29/21 18:42	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	04/29/21 18:42	
2-Hexanone	5.0 U	5.0	0.20	1	04/29/21 18:42	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	04/29/21 18:42	
Acetone	5.0 U	5.0	5.0	1	04/29/21 18:42	
Benzene	1.0 U	1.0	0.20	1	04/29/21 18:42	
Bromochloromethane	1.0 U	1.0	0.20	1	04/29/21 18:42	
Bromodichloromethane	1.0 U	1.0	0.20	1	04/29/21 18:42	
Bromoform	1.0 U	1.0	0.25	1	04/29/21 18:42	
Bromomethane	1.0 U	1.0	0.70	1	04/29/21 18:42	
Carbon Disulfide	1.0 U	1.0	0.42	1	04/29/21 18:42	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	04/29/21 18:42	
Chlorobenzene	1.0 U	1.0	0.20	1	04/29/21 18:42	
Chloroethane	1.0 U	1.0	0.23	1	04/29/21 18:42	
Chloroform	1.0 U	1.0	0.24	1	04/29/21 18:42	
Chloromethane	1.0 U	1.0	0.28	1	04/29/21 18:42	
Cyclohexane	1.0 U	1.0	0.26	1	04/29/21 18:42	
Dibromochloromethane	1.0 U	1.0	0.20	1	04/29/21 18:42	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	04/29/21 18:42	
Dichloromethane	1.0 U	1.0	0.65	1	04/29/21 18:42	
Ethylbenzene	1.0 U	1.0	0.20	1	04/29/21 18:42	
Isopropylbenzene (Cumene)	1.0 U	1.0	0.20	1	04/29/21 18:42	
Methyl Acetate	2.0 U	2.0	0.33	1	04/29/21 18:42	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	04/29/21 18:42	
Methylcyclohexane	1.0 U	1.0	0.20	1	04/29/21 18:42	
Styrene	1.0 U	1.0	0.20	1	04/29/21 18:42	
Tetrachloroethene (PCE)	<b>0.26 J</b>	1.0	0.21	1	04/29/21 18:42	
Toluene	1.0 U	1.0	0.20	1	04/29/21 18:42	

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Analytical Report

**Client:** Marks Engineering, PC  
**Project:** Modock Road Springs / DLS/21-007C  
**Sample Matrix:** Water  
**Sample Name:** MW-24S  
**Lab Code:** R2103912-003

**Service Request:** R2103912  
**Date Collected:** 04/21/21 09:00  
**Date Received:** 04/23/21 14:35

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	<b>63</b>	1.0	0.20	1	04/29/21 18:42	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	04/29/21 18:42	
Vinyl Chloride	1.0 U	1.0	0.20	1	04/29/21 18:42	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	04/29/21 18:42	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	04/29/21 18:42	
m,p-Xylenes	2.0 U	2.0	0.20	1	04/29/21 18:42	
o-Xylene	1.0 U	1.0	0.20	1	04/29/21 18:42	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	04/29/21 18:42	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	04/29/21 18:42	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	85 - 122	04/29/21 18:42	
Dibromofluoromethane	100	80 - 116	04/29/21 18:42	
Toluene-d8	101	87 - 121	04/29/21 18:42	

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Analytical Report

**Client:** Marks Engineering, PC  
**Project:** Modock Road Springs / DLS/21-007C  
**Sample Matrix:** Water

**Service Request:** R2103912  
**Date Collected:** 04/21/21 09:15  
**Date Received:** 04/23/21 14:35

**Sample Name:** MW-15  
**Lab Code:** R2103912-004

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	<b>26</b>	1.0	0.20	1	04/29/21 16:54	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	04/29/21 16:54	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	04/29/21 16:54	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	0.20	1	04/29/21 16:54	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	04/29/21 16:54	
1,1-Dichloroethene (1,1-DCE)	<b>5.5</b>	1.0	0.20	1	04/29/21 16:54	
1,2,3-Trichlorobenzene	1.0 U	1.0	0.25	1	04/29/21 16:54	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.34	1	04/29/21 16:54	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	04/29/21 16:54	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	04/29/21 16:54	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	04/29/21 16:54	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	04/29/21 16:54	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	04/29/21 16:54	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	04/29/21 16:54	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	04/29/21 16:54	
1,4-Dioxane	40 U	40	13	1	04/29/21 16:54	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	04/29/21 16:54	
2-Hexanone	5.0 U	5.0	0.20	1	04/29/21 16:54	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	04/29/21 16:54	
Acetone	5.0 U	5.0	5.0	1	04/29/21 16:54	
Benzene	1.0 U	1.0	0.20	1	04/29/21 16:54	
Bromochloromethane	1.0 U	1.0	0.20	1	04/29/21 16:54	
Bromodichloromethane	1.0 U	1.0	0.20	1	04/29/21 16:54	
Bromoform	1.0 U	1.0	0.25	1	04/29/21 16:54	
Bromomethane	1.0 U	1.0	0.70	1	04/29/21 16:54	
Carbon Disulfide	1.0 U	1.0	0.42	1	04/29/21 16:54	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	04/29/21 16:54	
Chlorobenzene	1.0 U	1.0	0.20	1	04/29/21 16:54	
Chloroethane	1.0 U	1.0	0.23	1	04/29/21 16:54	
Chloroform	1.0 U	1.0	0.24	1	04/29/21 16:54	
Chloromethane	1.0 U	1.0	0.28	1	04/29/21 16:54	
Cyclohexane	1.0 U	1.0	0.26	1	04/29/21 16:54	
Dibromochloromethane	1.0 U	1.0	0.20	1	04/29/21 16:54	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	04/29/21 16:54	
Dichloromethane	1.0 U	1.0	0.65	1	04/29/21 16:54	
Ethylbenzene	1.0 U	1.0	0.20	1	04/29/21 16:54	
Isopropylbenzene (Cumene)	1.0 U	1.0	0.20	1	04/29/21 16:54	
Methyl Acetate	2.0 U	2.0	0.33	1	04/29/21 16:54	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	04/29/21 16:54	
Methylcyclohexane	1.0 U	1.0	0.20	1	04/29/21 16:54	
Styrene	1.0 U	1.0	0.20	1	04/29/21 16:54	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	04/29/21 16:54	
Toluene	1.0 U	1.0	0.20	1	04/29/21 16:54	



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Analytical Report

**Client:** Marks Engineering, PC  
**Project:** Modock Road Springs / DLS/21-007C  
**Sample Matrix:** Water  
**Sample Name:** MW-15  
**Lab Code:** R2103912-004

**Service Request:** R2103912  
**Date Collected:** 04/21/21 09:15  
**Date Received:** 04/23/21 14:35

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	1.8	1.0	0.20	1	04/29/21 16:54	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	04/29/21 16:54	
Vinyl Chloride	1.0 U	1.0	0.20	1	04/29/21 16:54	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	04/29/21 16:54	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	04/29/21 16:54	
m,p-Xylenes	2.0 U	2.0	0.20	1	04/29/21 16:54	
o-Xylene	1.0 U	1.0	0.20	1	04/29/21 16:54	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	04/29/21 16:54	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	04/29/21 16:54	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	87	85 - 122	04/29/21 16:54	
Dibromofluoromethane	94	80 - 116	04/29/21 16:54	
Toluene-d8	96	87 - 121	04/29/21 16:54	

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Marks Engineering, PC  
**Project:** Modock Road Springs / DLS/21-007C  
**Sample Matrix:** Water

**Service Request:** R2103912  
**Date Collected:** 04/21/21 09:25  
**Date Received:** 04/23/21 14:35

**Sample Name:** MW-13  
**Lab Code:** R2103912-005

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	<b>36</b>	1.0	0.20	1	04/29/21 19:04	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	04/29/21 19:04	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	04/29/21 19:04	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	0.20	1	04/29/21 19:04	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	04/29/21 19:04	
1,1-Dichloroethene (1,1-DCE)	<b>7.2</b>	1.0	0.20	1	04/29/21 19:04	
1,2,3-Trichlorobenzene	1.0 U	1.0	0.25	1	04/29/21 19:04	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.34	1	04/29/21 19:04	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	04/29/21 19:04	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	04/29/21 19:04	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	04/29/21 19:04	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	04/29/21 19:04	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	04/29/21 19:04	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	04/29/21 19:04	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	04/29/21 19:04	
1,4-Dioxane	40 U	40	13	1	04/29/21 19:04	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	04/29/21 19:04	
2-Hexanone	5.0 U	5.0	0.20	1	04/29/21 19:04	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	04/29/21 19:04	
Acetone	5.0 U	5.0	5.0	1	04/29/21 19:04	
Benzene	1.0 U	1.0	0.20	1	04/29/21 19:04	
Bromochloromethane	1.0 U	1.0	0.20	1	04/29/21 19:04	
Bromodichloromethane	1.0 U	1.0	0.20	1	04/29/21 19:04	
Bromoform	1.0 U	1.0	0.25	1	04/29/21 19:04	
Bromomethane	1.0 U	1.0	0.70	1	04/29/21 19:04	
Carbon Disulfide	1.0 U	1.0	0.42	1	04/29/21 19:04	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	04/29/21 19:04	
Chlorobenzene	1.0 U	1.0	0.20	1	04/29/21 19:04	
Chloroethane	1.0 U	1.0	0.23	1	04/29/21 19:04	
Chloroform	1.0 U	1.0	0.24	1	04/29/21 19:04	
Chloromethane	1.0 U	1.0	0.28	1	04/29/21 19:04	
Cyclohexane	1.0 U	1.0	0.26	1	04/29/21 19:04	
Dibromochloromethane	1.0 U	1.0	0.20	1	04/29/21 19:04	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	04/29/21 19:04	
Dichloromethane	1.0 U	1.0	0.65	1	04/29/21 19:04	
Ethylbenzene	1.0 U	1.0	0.20	1	04/29/21 19:04	
Isopropylbenzene (Cumene)	1.0 U	1.0	0.20	1	04/29/21 19:04	
Methyl Acetate	2.0 U	2.0	0.33	1	04/29/21 19:04	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	04/29/21 19:04	
Methylcyclohexane	1.0 U	1.0	0.20	1	04/29/21 19:04	
Styrene	1.0 U	1.0	0.20	1	04/29/21 19:04	
Tetrachloroethene (PCE)	<b>0.35 J</b>	1.0	0.21	1	04/29/21 19:04	
Toluene	1.0 U	1.0	0.20	1	04/29/21 19:04	

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Analytical Report

**Client:** Marks Engineering, PC  
**Project:** Modock Road Springs / DLS/21-007C  
**Sample Matrix:** Water  
**Sample Name:** MW-13  
**Lab Code:** R2103912-005

**Service Request:** R2103912  
**Date Collected:** 04/21/21 09:25  
**Date Received:** 04/23/21 14:35

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	<b>44</b>	1.0	0.20	1	04/29/21 19:04	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	04/29/21 19:04	
Vinyl Chloride	1.0 U	1.0	0.20	1	04/29/21 19:04	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	04/29/21 19:04	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	04/29/21 19:04	
m,p-Xylenes	2.0 U	2.0	0.20	1	04/29/21 19:04	
o-Xylene	1.0 U	1.0	0.20	1	04/29/21 19:04	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	04/29/21 19:04	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	04/29/21 19:04	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	91	85 - 122	04/29/21 19:04	
Dibromofluoromethane	93	80 - 116	04/29/21 19:04	
Toluene-d8	97	87 - 121	04/29/21 19:04	

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Analytical Report

**Client:** Marks Engineering, PC  
**Project:** Modock Road Springs / DLS/21-007C  
**Sample Matrix:** Water

**Service Request:** R2103912  
**Date Collected:** 04/21/21 09:35  
**Date Received:** 04/23/21 14:35

**Sample Name:** MW-14  
**Lab Code:** R2103912-006

**Units:** ug/L  
**Basis:** NA

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	12	1.0	0.20	1	04/29/21 17:16	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	04/29/21 17:16	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	04/29/21 17:16	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	0.20	1	04/29/21 17:16	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	04/29/21 17:16	
1,1-Dichloroethene (1,1-DCE)	1.9	1.0	0.20	1	04/29/21 17:16	
1,2,3-Trichlorobenzene	1.0 U	1.0	0.25	1	04/29/21 17:16	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.34	1	04/29/21 17:16	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	04/29/21 17:16	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	04/29/21 17:16	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	04/29/21 17:16	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	04/29/21 17:16	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	04/29/21 17:16	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	04/29/21 17:16	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	04/29/21 17:16	
1,4-Dioxane	40 U	40	13	1	04/29/21 17:16	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	04/29/21 17:16	
2-Hexanone	5.0 U	5.0	0.20	1	04/29/21 17:16	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	04/29/21 17:16	
Acetone	5.0 U	5.0	5.0	1	04/29/21 17:16	
Benzene	1.0 U	1.0	0.20	1	04/29/21 17:16	
Bromochloromethane	1.0 U	1.0	0.20	1	04/29/21 17:16	
Bromodichloromethane	1.0 U	1.0	0.20	1	04/29/21 17:16	
Bromoform	1.0 U	1.0	0.25	1	04/29/21 17:16	
Bromomethane	1.0 U	1.0	0.70	1	04/29/21 17:16	
Carbon Disulfide	1.0 U	1.0	0.42	1	04/29/21 17:16	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	04/29/21 17:16	
Chlorobenzene	1.0 U	1.0	0.20	1	04/29/21 17:16	
Chloroethane	1.0 U	1.0	0.23	1	04/29/21 17:16	
Chloroform	1.0 U	1.0	0.24	1	04/29/21 17:16	
Chloromethane	1.0 U	1.0	0.28	1	04/29/21 17:16	
Cyclohexane	1.0 U	1.0	0.26	1	04/29/21 17:16	
Dibromochloromethane	1.0 U	1.0	0.20	1	04/29/21 17:16	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	04/29/21 17:16	
Dichloromethane	1.0 U	1.0	0.65	1	04/29/21 17:16	
Ethylbenzene	1.0 U	1.0	0.20	1	04/29/21 17:16	
Isopropylbenzene (Cumene)	1.0 U	1.0	0.20	1	04/29/21 17:16	
Methyl Acetate	2.0 U	2.0	0.33	1	04/29/21 17:16	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	04/29/21 17:16	
Methylcyclohexane	1.0 U	1.0	0.20	1	04/29/21 17:16	
Styrene	1.0 U	1.0	0.20	1	04/29/21 17:16	
Tetrachloroethene (PCE)	0.72 J	1.0	0.21	1	04/29/21 17:16	
Toluene	1.0 U	1.0	0.20	1	04/29/21 17:16	

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Analytical Report

**Client:** Marks Engineering, PC  
**Project:** Modock Road Springs / DLS/21-007C  
**Sample Matrix:** Water  
**Sample Name:** MW-14  
**Lab Code:** R2103912-006

**Service Request:** R2103912  
**Date Collected:** 04/21/21 09:35  
**Date Received:** 04/23/21 14:35

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	47	1.0	0.20	1	04/29/21 17:16	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	04/29/21 17:16	
Vinyl Chloride	1.0 U	1.0	0.20	1	04/29/21 17:16	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	04/29/21 17:16	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	04/29/21 17:16	
m,p-Xylenes	2.0 U	2.0	0.20	1	04/29/21 17:16	
o-Xylene	1.0 U	1.0	0.20	1	04/29/21 17:16	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	04/29/21 17:16	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	04/29/21 17:16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	91	85 - 122	04/29/21 17:16	
Dibromofluoromethane	98	80 - 116	04/29/21 17:16	
Toluene-d8	99	87 - 121	04/29/21 17:16	

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Marks Engineering, PC  
**Project:** Modock Road Springs / DLS/21-007C  
**Sample Matrix:** Water

**Service Request:** R2103912  
**Date Collected:** 04/21/21 09:45  
**Date Received:** 04/23/21 14:35

**Sample Name:** MW-17S  
**Lab Code:** R2103912-007

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	20	2.5	0.50	2.5	04/29/21 20:30	
1,1,2,2-Tetrachloroethane	2.5 U	2.5	0.50	2.5	04/29/21 20:30	
1,1,2-Trichloroethane	0.73 J	2.5	0.50	2.5	04/29/21 20:30	
1,1,2-Trichloro-1,2,2-trifluoroethane	2.5 U	2.5	0.50	2.5	04/29/21 20:30	
1,1-Dichloroethane (1,1-DCA)	2.5 U	2.5	0.50	2.5	04/29/21 20:30	
1,1-Dichloroethene (1,1-DCE)	4.2	2.5	0.50	2.5	04/29/21 20:30	
1,2,3-Trichlorobenzene	2.5 U	2.5	0.63	2.5	04/29/21 20:30	
1,2,4-Trichlorobenzene	2.5 U	2.5	0.85	2.5	04/29/21 20:30	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1.2	2.5	04/29/21 20:30	
1,2-Dibromoethane	2.5 U	2.5	0.50	2.5	04/29/21 20:30	
1,2-Dichlorobenzene	2.5 U	2.5	0.50	2.5	04/29/21 20:30	
1,2-Dichloroethane	2.5 U	2.5	0.50	2.5	04/29/21 20:30	
1,2-Dichloropropane	2.5 U	2.5	0.50	2.5	04/29/21 20:30	
1,3-Dichlorobenzene	2.5 U	2.5	0.50	2.5	04/29/21 20:30	
1,4-Dichlorobenzene	2.5 U	2.5	0.50	2.5	04/29/21 20:30	
1,4-Dioxane	100 U	100	33	2.5	04/29/21 20:30	
2-Butanone (MEK)	13 U	13	2.0	2.5	04/29/21 20:30	
2-Hexanone	13 U	13	0.50	2.5	04/29/21 20:30	
4-Methyl-2-pentanone	13 U	13	0.50	2.5	04/29/21 20:30	
Acetone	13 U	13	13	2.5	04/29/21 20:30	
Benzene	2.5 U	2.5	0.50	2.5	04/29/21 20:30	
Bromochloromethane	2.5 U	2.5	0.50	2.5	04/29/21 20:30	
Bromodichloromethane	2.5 U	2.5	0.50	2.5	04/29/21 20:30	
Bromoform	2.5 U	2.5	0.63	2.5	04/29/21 20:30	
Bromomethane	2.5 U	2.5	1.8	2.5	04/29/21 20:30	
Carbon Disulfide	2.5 U	2.5	1.1	2.5	04/29/21 20:30	
Carbon Tetrachloride	2.5 U	2.5	0.85	2.5	04/29/21 20:30	
Chlorobenzene	2.5 U	2.5	0.50	2.5	04/29/21 20:30	
Chloroethane	2.5 U	2.5	0.58	2.5	04/29/21 20:30	
Chloroform	2.5 U	2.5	0.60	2.5	04/29/21 20:30	
Chloromethane	2.5 U	2.5	0.70	2.5	04/29/21 20:30	
Cyclohexane	2.5 U	2.5	0.65	2.5	04/29/21 20:30	
Dibromochloromethane	2.5 U	2.5	0.50	2.5	04/29/21 20:30	
Dichlorodifluoromethane (CFC 12)	2.5 U	2.5	0.53	2.5	04/29/21 20:30	
Dichloromethane	2.5 U	2.5	1.7	2.5	04/29/21 20:30	
Ethylbenzene	2.5 U	2.5	0.50	2.5	04/29/21 20:30	
Isopropylbenzene (Cumene)	2.5 U	2.5	0.50	2.5	04/29/21 20:30	
Methyl Acetate	5.0 U	5.0	0.83	2.5	04/29/21 20:30	
Methyl tert-Butyl Ether	2.5 U	2.5	0.50	2.5	04/29/21 20:30	
Methylcyclohexane	2.5 U	2.5	0.50	2.5	04/29/21 20:30	
Styrene	2.5 U	2.5	0.50	2.5	04/29/21 20:30	
Tetrachloroethene (PCE)	1.2 J	2.5	0.53	2.5	04/29/21 20:30	
Toluene	2.5 U	2.5	0.50	2.5	04/29/21 20:30	

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Analytical Report

**Client:** Marks Engineering, PC  
**Project:** Modock Road Springs / DLS/21-007C  
**Sample Matrix:** Water  
**Sample Name:** MW-17S  
**Lab Code:** R2103912-007

**Service Request:** R2103912  
**Date Collected:** 04/21/21 09:45  
**Date Received:** 04/23/21 14:35

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	<b>280</b>	2.5	0.50	2.5	04/29/21 20:30	
Trichlorofluoromethane (CFC 11)	2.5 U	2.5	0.60	2.5	04/29/21 20:30	
Vinyl Chloride	2.5 U	2.5	0.50	2.5	04/29/21 20:30	
cis-1,2-Dichloroethene	2.5 U	2.5	0.58	2.5	04/29/21 20:30	
cis-1,3-Dichloropropene	2.5 U	2.5	0.50	2.5	04/29/21 20:30	
m,p-Xylenes	5.0 U	5.0	0.50	2.5	04/29/21 20:30	
o-Xylene	2.5 U	2.5	0.50	2.5	04/29/21 20:30	
trans-1,2-Dichloroethene	2.5 U	2.5	0.50	2.5	04/29/21 20:30	
trans-1,3-Dichloropropene	2.5 U	2.5	0.58	2.5	04/29/21 20:30	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	90	85 - 122	04/29/21 20:30	
Dibromofluoromethane	95	80 - 116	04/29/21 20:30	
Toluene-d8	99	87 - 121	04/29/21 20:30	

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Analytical Report

**Client:** Marks Engineering, PC  
**Project:** Modock Road Springs / DLS/21-007C  
**Sample Matrix:** Water

**Service Request:** R2103912  
**Date Collected:** 04/21/21 10:00  
**Date Received:** 04/23/21 14:35

**Sample Name:** MW-16  
**Lab Code:** R2103912-008

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	<b>17</b>	1.0	0.20	1	04/29/21 19:25	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	04/29/21 19:25	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	04/29/21 19:25	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	0.20	1	04/29/21 19:25	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	04/29/21 19:25	
1,1-Dichloroethene (1,1-DCE)	<b>4.1</b>	1.0	0.20	1	04/29/21 19:25	
1,2,3-Trichlorobenzene	1.0 U	1.0	0.25	1	04/29/21 19:25	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.34	1	04/29/21 19:25	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	04/29/21 19:25	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	04/29/21 19:25	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	04/29/21 19:25	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	04/29/21 19:25	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	04/29/21 19:25	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	04/29/21 19:25	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	04/29/21 19:25	
1,4-Dioxane	40 U	40	13	1	04/29/21 19:25	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	04/29/21 19:25	
2-Hexanone	5.0 U	5.0	0.20	1	04/29/21 19:25	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	04/29/21 19:25	
Acetone	5.0 U	5.0	5.0	1	04/29/21 19:25	
Benzene	1.0 U	1.0	0.20	1	04/29/21 19:25	
Bromochloromethane	1.0 U	1.0	0.20	1	04/29/21 19:25	
Bromodichloromethane	1.0 U	1.0	0.20	1	04/29/21 19:25	
Bromoform	1.0 U	1.0	0.25	1	04/29/21 19:25	
Bromomethane	1.0 U	1.0	0.70	1	04/29/21 19:25	
Carbon Disulfide	1.0 U	1.0	0.42	1	04/29/21 19:25	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	04/29/21 19:25	
Chlorobenzene	1.0 U	1.0	0.20	1	04/29/21 19:25	
Chloroethane	1.0 U	1.0	0.23	1	04/29/21 19:25	
Chloroform	1.0 U	1.0	0.24	1	04/29/21 19:25	
Chloromethane	1.0 U	1.0	0.28	1	04/29/21 19:25	
Cyclohexane	1.0 U	1.0	0.26	1	04/29/21 19:25	
Dibromochloromethane	1.0 U	1.0	0.20	1	04/29/21 19:25	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	04/29/21 19:25	
Dichloromethane	1.0 U	1.0	0.65	1	04/29/21 19:25	
Ethylbenzene	1.0 U	1.0	0.20	1	04/29/21 19:25	
Isopropylbenzene (Cumene)	1.0 U	1.0	0.20	1	04/29/21 19:25	
Methyl Acetate	2.0 U	2.0	0.33	1	04/29/21 19:25	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	04/29/21 19:25	
Methylcyclohexane	1.0 U	1.0	0.20	1	04/29/21 19:25	
Styrene	1.0 U	1.0	0.20	1	04/29/21 19:25	
Tetrachloroethene (PCE)	<b>0.44 J</b>	1.0	0.21	1	04/29/21 19:25	
Toluene	1.0 U	1.0	0.20	1	04/29/21 19:25	



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Analytical Report

**Client:** Marks Engineering, PC  
**Project:** Modock Road Springs / DLS/21-007C  
**Sample Matrix:** Water  
**Sample Name:** MW-16  
**Lab Code:** R2103912-008

**Service Request:** R2103912  
**Date Collected:** 04/21/21 10:00  
**Date Received:** 04/23/21 14:35

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	<b>130</b>	1.0	0.20	1	04/29/21 19:25	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	04/29/21 19:25	
Vinyl Chloride	1.0 U	1.0	0.20	1	04/29/21 19:25	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	04/29/21 19:25	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	04/29/21 19:25	
m,p-Xylenes	2.0 U	2.0	0.20	1	04/29/21 19:25	
o-Xylene	1.0 U	1.0	0.20	1	04/29/21 19:25	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	04/29/21 19:25	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	04/29/21 19:25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	88	85 - 122	04/29/21 19:25	
Dibromofluoromethane	96	80 - 116	04/29/21 19:25	
Toluene-d8	98	87 - 121	04/29/21 19:25	

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Analytical Report

**Client:** Marks Engineering, PC  
**Project:** Modock Road Springs / DLS/21-007C  
**Sample Matrix:** Water

**Service Request:** R2103912  
**Date Collected:** 04/21/21 10:15  
**Date Received:** 04/23/21 14:35

**Sample Name:** EB042121  
**Lab Code:** R2103912-009

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	04/28/21 00:19	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	04/28/21 00:19	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	04/28/21 00:19	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	0.20	1	04/28/21 00:19	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	04/28/21 00:19	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	04/28/21 00:19	
1,2,3-Trichlorobenzene	1.0 U	1.0	0.25	1	04/28/21 00:19	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.34	1	04/28/21 00:19	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	04/28/21 00:19	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	04/28/21 00:19	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	04/28/21 00:19	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	04/28/21 00:19	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	04/28/21 00:19	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	04/28/21 00:19	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	04/28/21 00:19	
1,4-Dioxane	40 U	40	13	1	04/28/21 00:19	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	04/28/21 00:19	
2-Hexanone	5.0 U	5.0	0.20	1	04/28/21 00:19	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	04/28/21 00:19	
Acetone	5.0 U	5.0	5.0	1	04/28/21 00:19	
Benzene	1.0 U	1.0	0.20	1	04/28/21 00:19	
Bromochloromethane	1.0 U	1.0	0.20	1	04/28/21 00:19	
Bromodichloromethane	1.0 U	1.0	0.20	1	04/28/21 00:19	
Bromoform	1.0 U	1.0	0.25	1	04/28/21 00:19	
Bromomethane	1.0 U	1.0	0.70	1	04/28/21 00:19	
Carbon Disulfide	1.0 U	1.0	0.42	1	04/28/21 00:19	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	04/28/21 00:19	
Chlorobenzene	1.0 U	1.0	0.20	1	04/28/21 00:19	
Chloroethane	1.0 U	1.0	0.23	1	04/28/21 00:19	
Chloroform	1.0 U	1.0	0.24	1	04/28/21 00:19	
Chloromethane	1.0 U	1.0	0.28	1	04/28/21 00:19	
Cyclohexane	1.0 U	1.0	0.26	1	04/28/21 00:19	
Dibromochloromethane	1.0 U	1.0	0.20	1	04/28/21 00:19	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	04/28/21 00:19	
Dichloromethane	1.0 U	1.0	0.65	1	04/28/21 00:19	
Ethylbenzene	1.0 U	1.0	0.20	1	04/28/21 00:19	
Isopropylbenzene (Cumene)	1.0 U	1.0	0.20	1	04/28/21 00:19	
Methyl Acetate	2.0 U	2.0	0.33	1	04/28/21 00:19	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	04/28/21 00:19	
Methylcyclohexane	1.0 U	1.0	0.20	1	04/28/21 00:19	
Styrene	1.0 U	1.0	0.20	1	04/28/21 00:19	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	04/28/21 00:19	
Toluene	1.0 U	1.0	0.20	1	04/28/21 00:19	

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Analytical Report

**Client:** Marks Engineering, PC  
**Project:** Modock Road Springs / DLS/21-007C  
**Sample Matrix:** Water

**Service Request:** R2103912  
**Date Collected:** 04/21/21 10:15  
**Date Received:** 04/23/21 14:35

**Sample Name:** EB042121  
**Lab Code:** R2103912-009

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	04/28/21 00:19	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	04/28/21 00:19	
Vinyl Chloride	1.0 U	1.0	0.20	1	04/28/21 00:19	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	04/28/21 00:19	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	04/28/21 00:19	
m,p-Xylenes	2.0 U	2.0	0.20	1	04/28/21 00:19	
o-Xylene	1.0 U	1.0	0.20	1	04/28/21 00:19	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	04/28/21 00:19	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	04/28/21 00:19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	85 - 122	04/28/21 00:19	
Dibromofluoromethane	94	80 - 116	04/28/21 00:19	
Toluene-d8	98	87 - 121	04/28/21 00:19	

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Marks Engineering, PC  
**Project:** Modock Road Springs / DLS/21-007C  
**Sample Matrix:** Water

**Service Request:** R2103912  
**Date Collected:** 04/21/21 10:25  
**Date Received:** 04/23/21 14:35

**Sample Name:** SC-01  
**Lab Code:** R2103912-010

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	<b>6.8</b>	1.0	0.20	1	04/29/21 17:37	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	04/29/21 17:37	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	04/29/21 17:37	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	0.20	1	04/29/21 17:37	
1,1-Dichloroethane (1,1-DCA)	<b>0.44 J</b>	1.0	0.20	1	04/29/21 17:37	
1,1-Dichloroethene (1,1-DCE)	<b>1.7</b>	1.0	0.20	1	04/29/21 17:37	
1,2,3-Trichlorobenzene	1.0 U	1.0	0.25	1	04/29/21 17:37	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.34	1	04/29/21 17:37	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	04/29/21 17:37	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	04/29/21 17:37	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	04/29/21 17:37	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	04/29/21 17:37	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	04/29/21 17:37	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	04/29/21 17:37	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	04/29/21 17:37	
1,4-Dioxane	40 U	40	13	1	04/29/21 17:37	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	04/29/21 17:37	
2-Hexanone	5.0 U	5.0	0.20	1	04/29/21 17:37	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	04/29/21 17:37	
Acetone	5.0 U	5.0	5.0	1	04/29/21 17:37	
Benzene	1.0 U	1.0	0.20	1	04/29/21 17:37	
Bromochloromethane	1.0 U	1.0	0.20	1	04/29/21 17:37	
Bromodichloromethane	1.0 U	1.0	0.20	1	04/29/21 17:37	
Bromoform	1.0 U	1.0	0.25	1	04/29/21 17:37	
Bromomethane	1.0 U	1.0	0.70	1	04/29/21 17:37	
Carbon Disulfide	1.0 U	1.0	0.42	1	04/29/21 17:37	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	04/29/21 17:37	
Chlorobenzene	1.0 U	1.0	0.20	1	04/29/21 17:37	
Chloroethane	1.0 U	1.0	0.23	1	04/29/21 17:37	
Chloroform	1.0 U	1.0	0.24	1	04/29/21 17:37	
Chloromethane	1.0 U	1.0	0.28	1	04/29/21 17:37	
Cyclohexane	1.0 U	1.0	0.26	1	04/29/21 17:37	
Dibromochloromethane	1.0 U	1.0	0.20	1	04/29/21 17:37	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	04/29/21 17:37	
Dichloromethane	1.0 U	1.0	0.65	1	04/29/21 17:37	
Ethylbenzene	1.0 U	1.0	0.20	1	04/29/21 17:37	
Isopropylbenzene (Cumene)	1.0 U	1.0	0.20	1	04/29/21 17:37	
Methyl Acetate	2.0 U	2.0	0.33	1	04/29/21 17:37	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	04/29/21 17:37	
Methylcyclohexane	1.0 U	1.0	0.20	1	04/29/21 17:37	
Styrene	1.0 U	1.0	0.20	1	04/29/21 17:37	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	04/29/21 17:37	
Toluene	1.0 U	1.0	0.20	1	04/29/21 17:37	

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Analytical Report

**Client:** Marks Engineering, PC  
**Project:** Modock Road Springs / DLS/21-007C  
**Sample Matrix:** Water  
**Sample Name:** SC-01  
**Lab Code:** R2103912-010

**Service Request:** R2103912  
**Date Collected:** 04/21/21 10:25  
**Date Received:** 04/23/21 14:35

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	33	1.0	0.20	1	04/29/21 17:37	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	04/29/21 17:37	
Vinyl Chloride	1.0 U	1.0	0.20	1	04/29/21 17:37	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	04/29/21 17:37	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	04/29/21 17:37	
m,p-Xylenes	2.0 U	2.0	0.20	1	04/29/21 17:37	
o-Xylene	1.0 U	1.0	0.20	1	04/29/21 17:37	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	04/29/21 17:37	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	04/29/21 17:37	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	92	85 - 122	04/29/21 17:37	
Dibromofluoromethane	100	80 - 116	04/29/21 17:37	
Toluene-d8	103	87 - 121	04/29/21 17:37	

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Analytical Report

**Client:** Marks Engineering, PC  
**Project:** Modock Road Springs / DLS/21-007C  
**Sample Matrix:** Water

**Service Request:** R2103912  
**Date Collected:** 04/21/21 10:35  
**Date Received:** 04/23/21 14:35

**Sample Name:** DUP042121A  
**Lab Code:** R2103912-011

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	6.5	1.0	0.20	1	04/29/21 17:59	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	04/29/21 17:59	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	04/29/21 17:59	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	0.20	1	04/29/21 17:59	
1,1-Dichloroethane (1,1-DCA)	0.43 J	1.0	0.20	1	04/29/21 17:59	
1,1-Dichloroethene (1,1-DCE)	2.0	1.0	0.20	1	04/29/21 17:59	
1,2,3-Trichlorobenzene	1.0 U	1.0	0.25	1	04/29/21 17:59	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.34	1	04/29/21 17:59	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	04/29/21 17:59	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	04/29/21 17:59	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	04/29/21 17:59	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	04/29/21 17:59	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	04/29/21 17:59	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	04/29/21 17:59	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	04/29/21 17:59	
1,4-Dioxane	40 U	40	13	1	04/29/21 17:59	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	04/29/21 17:59	
2-Hexanone	5.0 U	5.0	0.20	1	04/29/21 17:59	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	04/29/21 17:59	
Acetone	5.0 U	5.0	5.0	1	04/29/21 17:59	
Benzene	1.0 U	1.0	0.20	1	04/29/21 17:59	
Bromochloromethane	1.0 U	1.0	0.20	1	04/29/21 17:59	
Bromodichloromethane	1.0 U	1.0	0.20	1	04/29/21 17:59	
Bromoform	1.0 U	1.0	0.25	1	04/29/21 17:59	
Bromomethane	1.0 U	1.0	0.70	1	04/29/21 17:59	
Carbon Disulfide	1.0 U	1.0	0.42	1	04/29/21 17:59	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	04/29/21 17:59	
Chlorobenzene	1.0 U	1.0	0.20	1	04/29/21 17:59	
Chloroethane	1.0 U	1.0	0.23	1	04/29/21 17:59	
Chloroform	1.0 U	1.0	0.24	1	04/29/21 17:59	
Chloromethane	1.0 U	1.0	0.28	1	04/29/21 17:59	
Cyclohexane	1.0 U	1.0	0.26	1	04/29/21 17:59	
Dibromochloromethane	1.0 U	1.0	0.20	1	04/29/21 17:59	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	04/29/21 17:59	
Dichloromethane	1.0 U	1.0	0.65	1	04/29/21 17:59	
Ethylbenzene	1.0 U	1.0	0.20	1	04/29/21 17:59	
Isopropylbenzene (Cumene)	1.0 U	1.0	0.20	1	04/29/21 17:59	
Methyl Acetate	2.0 U	2.0	0.33	1	04/29/21 17:59	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	04/29/21 17:59	
Methylcyclohexane	1.0 U	1.0	0.20	1	04/29/21 17:59	
Styrene	1.0 U	1.0	0.20	1	04/29/21 17:59	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	04/29/21 17:59	
Toluene	1.0 U	1.0	0.20	1	04/29/21 17:59	

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Analytical Report

**Client:** Marks Engineering, PC  
**Project:** Modock Road Springs / DLS/21-007C  
**Sample Matrix:** Water  
**Sample Name:** DUP042121A  
**Lab Code:** R2103912-011

**Service Request:** R2103912  
**Date Collected:** 04/21/21 10:35  
**Date Received:** 04/23/21 14:35

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	32	1.0	0.20	1	04/29/21 17:59	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	04/29/21 17:59	
Vinyl Chloride	1.0 U	1.0	0.20	1	04/29/21 17:59	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	04/29/21 17:59	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	04/29/21 17:59	
m,p-Xylenes	2.0 U	2.0	0.20	1	04/29/21 17:59	
o-Xylene	1.0 U	1.0	0.20	1	04/29/21 17:59	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	04/29/21 17:59	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	04/29/21 17:59	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	92	85 - 122	04/29/21 17:59	
Dibromofluoromethane	98	80 - 116	04/29/21 17:59	
Toluene-d8	100	87 - 121	04/29/21 17:59	

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Marks Engineering, PC  
**Project:** Modock Road Springs / DLS/21-007C  
**Sample Matrix:** Water

**Service Request:** R2103912  
**Date Collected:** 04/21/21 10:45  
**Date Received:** 04/23/21 14:35

**Sample Name:** MW-4  
**Lab Code:** R2103912-012

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	<b>7.9</b>	1.0	0.20	1	04/29/21 19:47	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	04/29/21 19:47	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	04/29/21 19:47	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	0.20	1	04/29/21 19:47	
1,1-Dichloroethane (1,1-DCA)	<b>0.33 J</b>	1.0	0.20	1	04/29/21 19:47	
1,1-Dichloroethene (1,1-DCE)	<b>1.8</b>	1.0	0.20	1	04/29/21 19:47	
1,2,3-Trichlorobenzene	1.0 U	1.0	0.25	1	04/29/21 19:47	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.34	1	04/29/21 19:47	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	04/29/21 19:47	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	04/29/21 19:47	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	04/29/21 19:47	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	04/29/21 19:47	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	04/29/21 19:47	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	04/29/21 19:47	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	04/29/21 19:47	
1,4-Dioxane	40 U	40	13	1	04/29/21 19:47	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	04/29/21 19:47	
2-Hexanone	5.0 U	5.0	0.20	1	04/29/21 19:47	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	04/29/21 19:47	
Acetone	5.0 U	5.0	5.0	1	04/29/21 19:47	
Benzene	1.0 U	1.0	0.20	1	04/29/21 19:47	
Bromochloromethane	1.0 U	1.0	0.20	1	04/29/21 19:47	
Bromodichloromethane	1.0 U	1.0	0.20	1	04/29/21 19:47	
Bromoform	1.0 U	1.0	0.25	1	04/29/21 19:47	
Bromomethane	1.0 U	1.0	0.70	1	04/29/21 19:47	
Carbon Disulfide	1.0 U	1.0	0.42	1	04/29/21 19:47	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	04/29/21 19:47	
Chlorobenzene	1.0 U	1.0	0.20	1	04/29/21 19:47	
Chloroethane	1.0 U	1.0	0.23	1	04/29/21 19:47	
Chloroform	1.0 U	1.0	0.24	1	04/29/21 19:47	
Chloromethane	1.0 U	1.0	0.28	1	04/29/21 19:47	
Cyclohexane	1.0 U	1.0	0.26	1	04/29/21 19:47	
Dibromochloromethane	1.0 U	1.0	0.20	1	04/29/21 19:47	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	04/29/21 19:47	
Dichloromethane	1.0 U	1.0	0.65	1	04/29/21 19:47	
Ethylbenzene	1.0 U	1.0	0.20	1	04/29/21 19:47	
Isopropylbenzene (Cumene)	1.0 U	1.0	0.20	1	04/29/21 19:47	
Methyl Acetate	2.0 U	2.0	0.33	1	04/29/21 19:47	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	04/29/21 19:47	
Methylcyclohexane	1.0 U	1.0	0.20	1	04/29/21 19:47	
Styrene	1.0 U	1.0	0.20	1	04/29/21 19:47	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	04/29/21 19:47	
Toluene	1.0 U	1.0	0.20	1	04/29/21 19:47	



**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Marks Engineering, PC  
**Project:** Modock Road Springs / DLS/21-007C  
**Sample Matrix:** Water  
**Sample Name:** MW-4  
**Lab Code:** R2103912-012

**Service Request:** R2103912  
**Date Collected:** 04/21/21 10:45  
**Date Received:** 04/23/21 14:35  
**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	42	1.0	0.20	1	04/29/21 19:47	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	04/29/21 19:47	
Vinyl Chloride	1.0 U	1.0	0.20	1	04/29/21 19:47	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	04/29/21 19:47	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	04/29/21 19:47	
m,p-Xylenes	2.0 U	2.0	0.20	1	04/29/21 19:47	
o-Xylene	1.0 U	1.0	0.20	1	04/29/21 19:47	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	04/29/21 19:47	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	04/29/21 19:47	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	91	85 - 122	04/29/21 19:47	
Dibromofluoromethane	98	80 - 116	04/29/21 19:47	
Toluene-d8	99	87 - 121	04/29/21 19:47	

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Analytical Report

**Client:** Marks Engineering, PC  
**Project:** Modock Road Springs / DLS/21-007C  
**Sample Matrix:** Water

**Service Request:** R2103912  
**Date Collected:** 04/21/21 11:05  
**Date Received:** 04/23/21 14:35

**Sample Name:** SSG MW-3  
**Lab Code:** R2103912-013

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	4.2	1.0	0.20	1	04/28/21 02:52	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	04/28/21 02:52	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	04/28/21 02:52	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	0.20	1	04/28/21 02:52	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	04/28/21 02:52	
1,1-Dichloroethene (1,1-DCE)	0.66 J	1.0	0.20	1	04/28/21 02:52	
1,2,3-Trichlorobenzene	1.0 U	1.0	0.25	1	04/28/21 02:52	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.34	1	04/28/21 02:52	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	04/28/21 02:52	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	04/28/21 02:52	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	04/28/21 02:52	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	04/28/21 02:52	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	04/28/21 02:52	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	04/28/21 02:52	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	04/28/21 02:52	
1,4-Dioxane	40 U	40	13	1	04/28/21 02:52	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	04/28/21 02:52	
2-Hexanone	5.0 U	5.0	0.20	1	04/28/21 02:52	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	04/28/21 02:52	
Acetone	5.0 U	5.0	5.0	1	04/28/21 02:52	
Benzene	1.0 U	1.0	0.20	1	04/28/21 02:52	
Bromochloromethane	1.0 U	1.0	0.20	1	04/28/21 02:52	
Bromodichloromethane	1.0 U	1.0	0.20	1	04/28/21 02:52	
Bromoform	1.0 U	1.0	0.25	1	04/28/21 02:52	
Bromomethane	1.0 U	1.0	0.70	1	04/28/21 02:52	
Carbon Disulfide	1.0 U	1.0	0.42	1	04/28/21 02:52	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	04/28/21 02:52	
Chlorobenzene	1.0 U	1.0	0.20	1	04/28/21 02:52	
Chloroethane	1.0 U	1.0	0.23	1	04/28/21 02:52	
Chloroform	1.0 U	1.0	0.24	1	04/28/21 02:52	
Chloromethane	1.0 U	1.0	0.28	1	04/28/21 02:52	
Cyclohexane	1.0 U	1.0	0.26	1	04/28/21 02:52	
Dibromochloromethane	1.0 U	1.0	0.20	1	04/28/21 02:52	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	04/28/21 02:52	
Dichloromethane	1.0 U	1.0	0.65	1	04/28/21 02:52	
Ethylbenzene	1.0 U	1.0	0.20	1	04/28/21 02:52	
Isopropylbenzene (Cumene)	1.0 U	1.0	0.20	1	04/28/21 02:52	
Methyl Acetate	2.0 U	2.0	0.33	1	04/28/21 02:52	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	04/28/21 02:52	
Methylcyclohexane	1.0 U	1.0	0.20	1	04/28/21 02:52	
Styrene	1.0 U	1.0	0.20	1	04/28/21 02:52	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	04/28/21 02:52	
Toluene	1.0 U	1.0	0.20	1	04/28/21 02:52	

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Analytical Report

**Client:** Marks Engineering, PC  
**Project:** Modock Road Springs / DLS/21-007C  
**Sample Matrix:** Water

**Service Request:** R2103912  
**Date Collected:** 04/21/21 11:05  
**Date Received:** 04/23/21 14:35

**Sample Name:** SSG MW-3  
**Lab Code:** R2103912-013

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	4.7	1.0	0.20	1	04/28/21 02:52	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	04/28/21 02:52	
Vinyl Chloride	1.0 U	1.0	0.20	1	04/28/21 02:52	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	04/28/21 02:52	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	04/28/21 02:52	
m,p-Xylenes	2.0 U	2.0	0.20	1	04/28/21 02:52	
o-Xylene	1.0 U	1.0	0.20	1	04/28/21 02:52	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	04/28/21 02:52	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	04/28/21 02:52	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	04/28/21 02:52	
Dibromofluoromethane	94	80 - 116	04/28/21 02:52	
Toluene-d8	98	87 - 121	04/28/21 02:52	

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Marks Engineering, PC  
**Project:** Modock Road Springs / DLS/21-007C  
**Sample Matrix:** Water

**Service Request:** R2103912  
**Date Collected:** 04/21/21 11:20  
**Date Received:** 04/23/21 14:35

**Sample Name:** MW-26  
**Lab Code:** R2103912-014

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	<b>6.3</b>	1.0	0.20	1	04/29/21 20:08	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	04/29/21 20:08	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	04/29/21 20:08	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	0.20	1	04/29/21 20:08	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	04/29/21 20:08	
1,1-Dichloroethene (1,1-DCE)	<b>1.7</b>	1.0	0.20	1	04/29/21 20:08	
1,2,3-Trichlorobenzene	1.0 U	1.0	0.25	1	04/29/21 20:08	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.34	1	04/29/21 20:08	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	04/29/21 20:08	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	04/29/21 20:08	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	04/29/21 20:08	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	04/29/21 20:08	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	04/29/21 20:08	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	04/29/21 20:08	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	04/29/21 20:08	
1,4-Dioxane	40 U	40	13	1	04/29/21 20:08	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	04/29/21 20:08	
2-Hexanone	5.0 U	5.0	0.20	1	04/29/21 20:08	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	04/29/21 20:08	
Acetone	5.0 U	5.0	5.0	1	04/29/21 20:08	
Benzene	1.0 U	1.0	0.20	1	04/29/21 20:08	
Bromochloromethane	1.0 U	1.0	0.20	1	04/29/21 20:08	
Bromodichloromethane	1.0 U	1.0	0.20	1	04/29/21 20:08	
Bromoform	1.0 U	1.0	0.25	1	04/29/21 20:08	
Bromomethane	1.0 U	1.0	0.70	1	04/29/21 20:08	
Carbon Disulfide	1.0 U	1.0	0.42	1	04/29/21 20:08	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	04/29/21 20:08	
Chlorobenzene	1.0 U	1.0	0.20	1	04/29/21 20:08	
Chloroethane	1.0 U	1.0	0.23	1	04/29/21 20:08	
Chloroform	1.0 U	1.0	0.24	1	04/29/21 20:08	
Chloromethane	1.0 U	1.0	0.28	1	04/29/21 20:08	
Cyclohexane	1.0 U	1.0	0.26	1	04/29/21 20:08	
Dibromochloromethane	1.0 U	1.0	0.20	1	04/29/21 20:08	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	04/29/21 20:08	
Dichloromethane	1.0 U	1.0	0.65	1	04/29/21 20:08	
Ethylbenzene	1.0 U	1.0	0.20	1	04/29/21 20:08	
Isopropylbenzene (Cumene)	1.0 U	1.0	0.20	1	04/29/21 20:08	
Methyl Acetate	2.0 U	2.0	0.33	1	04/29/21 20:08	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	04/29/21 20:08	
Methylcyclohexane	1.0 U	1.0	0.20	1	04/29/21 20:08	
Styrene	1.0 U	1.0	0.20	1	04/29/21 20:08	
Tetrachloroethene (PCE)	<b>1.9</b>	1.0	0.21	1	04/29/21 20:08	
Toluene	1.0 U	1.0	0.20	1	04/29/21 20:08	

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Analytical Report

**Client:** Marks Engineering, PC  
**Project:** Modock Road Springs / DLS/21-007C  
**Sample Matrix:** Water  
**Sample Name:** MW-26  
**Lab Code:** R2103912-014

**Service Request:** R2103912  
**Date Collected:** 04/21/21 11:20  
**Date Received:** 04/23/21 14:35

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	<b>100</b>	1.0	0.20	1	04/29/21 20:08	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	04/29/21 20:08	
Vinyl Chloride	1.0 U	1.0	0.20	1	04/29/21 20:08	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	04/29/21 20:08	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	04/29/21 20:08	
m,p-Xylenes	2.0 U	2.0	0.20	1	04/29/21 20:08	
o-Xylene	1.0 U	1.0	0.20	1	04/29/21 20:08	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	04/29/21 20:08	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	04/29/21 20:08	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	85 - 122	04/29/21 20:08	
Dibromofluoromethane	95	80 - 116	04/29/21 20:08	
Toluene-d8	101	87 - 121	04/29/21 20:08	

**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Marks Engineering, PC  
**Project:** Modock Road Springs / DLS/21-007C  
**Sample Matrix:** Water

**Service Request:** R2103912  
**Date Collected:** 04/21/21 11:30  
**Date Received:** 04/23/21 14:35

**Sample Name:** DUP042121B  
**Lab Code:** R2103912-015

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	6.9	1.0	0.20	1	04/29/21 18:21	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	04/29/21 18:21	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	04/29/21 18:21	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.2	1.0	0.20	1	04/29/21 18:21	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	04/29/21 18:21	
1,1-Dichloroethene (1,1-DCE)	1.6	1.0	0.20	1	04/29/21 18:21	
1,2,3-Trichlorobenzene	1.0 U	1.0	0.25	1	04/29/21 18:21	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.34	1	04/29/21 18:21	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	04/29/21 18:21	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	04/29/21 18:21	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	04/29/21 18:21	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	04/29/21 18:21	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	04/29/21 18:21	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	04/29/21 18:21	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	04/29/21 18:21	
1,4-Dioxane	40 U	40	13	1	04/29/21 18:21	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	04/29/21 18:21	
2-Hexanone	5.0 U	5.0	0.20	1	04/29/21 18:21	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	04/29/21 18:21	
Acetone	5.0 U	5.0	5.0	1	04/29/21 18:21	
Benzene	1.0 U	1.0	0.20	1	04/29/21 18:21	
Bromochloromethane	1.0 U	1.0	0.20	1	04/29/21 18:21	
Bromodichloromethane	1.0 U	1.0	0.20	1	04/29/21 18:21	
Bromoform	1.0 U	1.0	0.25	1	04/29/21 18:21	
Bromomethane	1.0 U	1.0	0.70	1	04/29/21 18:21	
Carbon Disulfide	1.0 U	1.0	0.42	1	04/29/21 18:21	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	04/29/21 18:21	
Chlorobenzene	1.0 U	1.0	0.20	1	04/29/21 18:21	
Chloroethane	1.0 U	1.0	0.23	1	04/29/21 18:21	
Chloroform	1.0 U	1.0	0.24	1	04/29/21 18:21	
Chloromethane	1.0 U	1.0	0.28	1	04/29/21 18:21	
Cyclohexane	1.0 U	1.0	0.26	1	04/29/21 18:21	
Dibromochloromethane	1.0 U	1.0	0.20	1	04/29/21 18:21	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	04/29/21 18:21	
Dichloromethane	1.0 U	1.0	0.65	1	04/29/21 18:21	
Ethylbenzene	1.0 U	1.0	0.20	1	04/29/21 18:21	
Isopropylbenzene (Cumene)	1.0 U	1.0	0.20	1	04/29/21 18:21	
Methyl Acetate	2.0 U	2.0	0.33	1	04/29/21 18:21	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	04/29/21 18:21	
Methylcyclohexane	1.0 U	1.0	0.20	1	04/29/21 18:21	
Styrene	1.0 U	1.0	0.20	1	04/29/21 18:21	
Tetrachloroethene (PCE)	1.9	1.0	0.21	1	04/29/21 18:21	
Toluene	1.0 U	1.0	0.20	1	04/29/21 18:21	

**ALS Group USA, Corp.**  
dba ALS Environmental

Analytical Report

**Client:** Marks Engineering, PC  
**Project:** Modock Road Springs / DLS/21-007C  
**Sample Matrix:** Water  
**Sample Name:** DUP042121B  
**Lab Code:** R2103912-015

**Service Request:** R2103912  
**Date Collected:** 04/21/21 11:30  
**Date Received:** 04/23/21 14:35

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	<b>100</b>	1.0	0.20	1	04/29/21 18:21	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	04/29/21 18:21	
Vinyl Chloride	1.0 U	1.0	0.20	1	04/29/21 18:21	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	04/29/21 18:21	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	04/29/21 18:21	
m,p-Xylenes	2.0 U	2.0	0.20	1	04/29/21 18:21	
o-Xylene	1.0 U	1.0	0.20	1	04/29/21 18:21	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	04/29/21 18:21	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	04/29/21 18:21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	91	85 - 122	04/29/21 18:21	
Dibromofluoromethane	98	80 - 116	04/29/21 18:21	
Toluene-d8	101	87 - 121	04/29/21 18:21	

**ALS Group USA, Corp.**  
dba ALS Environmental

Analytical Report

**Client:** Marks Engineering, PC  
**Project:** Modock Road Springs / DLS/21-007C  
**Sample Matrix:** Water

**Service Request:** R2103912  
**Date Collected:** 04/21/21  
**Date Received:** 04/23/21 14:35

**Sample Name:** Trip Blank  
**Lab Code:** R2103912-016

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	04/27/21 23:57	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	04/27/21 23:57	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	04/27/21 23:57	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	0.20	1	04/27/21 23:57	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	04/27/21 23:57	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	04/27/21 23:57	
1,2,3-Trichlorobenzene	1.0 U	1.0	0.25	1	04/27/21 23:57	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.34	1	04/27/21 23:57	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	04/27/21 23:57	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	04/27/21 23:57	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	04/27/21 23:57	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	04/27/21 23:57	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	04/27/21 23:57	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	04/27/21 23:57	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	04/27/21 23:57	
1,4-Dioxane	40 U	40	13	1	04/27/21 23:57	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	04/27/21 23:57	
2-Hexanone	5.0 U	5.0	0.20	1	04/27/21 23:57	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	04/27/21 23:57	
Acetone	5.0 U	5.0	5.0	1	04/27/21 23:57	
Benzene	1.0 U	1.0	0.20	1	04/27/21 23:57	
Bromochloromethane	1.0 U	1.0	0.20	1	04/27/21 23:57	
Bromodichloromethane	1.0 U	1.0	0.20	1	04/27/21 23:57	
Bromoform	1.0 U	1.0	0.25	1	04/27/21 23:57	
Bromomethane	1.0 U	1.0	0.70	1	04/27/21 23:57	
Carbon Disulfide	1.0 U	1.0	0.42	1	04/27/21 23:57	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	04/27/21 23:57	
Chlorobenzene	1.0 U	1.0	0.20	1	04/27/21 23:57	
Chloroethane	1.0 U	1.0	0.23	1	04/27/21 23:57	
Chloroform	1.0 U	1.0	0.24	1	04/27/21 23:57	
Chloromethane	1.0 U	1.0	0.28	1	04/27/21 23:57	
Cyclohexane	1.0 U	1.0	0.26	1	04/27/21 23:57	
Dibromochloromethane	1.0 U	1.0	0.20	1	04/27/21 23:57	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	04/27/21 23:57	
Dichloromethane	1.0 U	1.0	0.65	1	04/27/21 23:57	
Ethylbenzene	1.0 U	1.0	0.20	1	04/27/21 23:57	
Isopropylbenzene (Cumene)	1.0 U	1.0	0.20	1	04/27/21 23:57	
Methyl Acetate	2.0 U	2.0	0.33	1	04/27/21 23:57	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	04/27/21 23:57	
Methylcyclohexane	1.0 U	1.0	0.20	1	04/27/21 23:57	
Styrene	1.0 U	1.0	0.20	1	04/27/21 23:57	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	04/27/21 23:57	
Toluene	1.0 U	1.0	0.20	1	04/27/21 23:57	



**ALS Group USA, Corp.**  
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Analytical Report

**Client:** Marks Engineering, PC  
**Project:** Modock Road Springs / DLS/21-007C  
**Sample Matrix:** Water

**Service Request:** R2103912  
**Date Collected:** 04/21/21  
**Date Received:** 04/23/21 14:35

**Sample Name:** Trip Blank  
**Lab Code:** R2103912-016

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	04/27/21 23:57	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	04/27/21 23:57	
Vinyl Chloride	1.0 U	1.0	0.20	1	04/27/21 23:57	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	04/27/21 23:57	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	04/27/21 23:57	
m,p-Xylenes	2.0 U	2.0	0.20	1	04/27/21 23:57	
o-Xylene	1.0 U	1.0	0.20	1	04/27/21 23:57	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	04/27/21 23:57	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	04/27/21 23:57	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	04/27/21 23:57	
Dibromofluoromethane	96	80 - 116	04/27/21 23:57	
Toluene-d8	97	87 - 121	04/27/21 23:57	



## QC Summary Forms

**ALS Environmental—Rochester Laboratory**  
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623  
Phone (585) 288-5380 Fax (585) 288-8475  
[www.alsglobal.com](http://www.alsglobal.com)



## Volatile Organic Compounds by GC/MS

**ALS Environmental—Rochester Laboratory**

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

[www.alsglobal.com](http://www.alsglobal.com)

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** Marks Engineering, PC  
**Project:** Modock Road Springs / DLS/21-007C  
**Sample Matrix:** Water

**Service Request:** R2103912

**SURROGATE RECOVERY SUMMARY**  
**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Extraction Method:** EPA 5030C

Sample Name	Lab Code	4-Bromofluorobenzene	Dibromofluoromethane	Toluene-d8
		85-122	80-116	87-121
MW-23	R2103912-001	94	94	98
MW-10	R2103912-002	95	94	97
MW-24S	R2103912-003	93	100	101
MW-15	R2103912-004	87	94	96
MW-13	R2103912-005	91	93	97
MW-14	R2103912-006	91	98	99
MW-17S	R2103912-007	90	95	99
MW-16	R2103912-008	88	96	98
EB042121	R2103912-009	93	94	98
SC-01	R2103912-010	92	100	103
DUP042121A	R2103912-011	92	98	100
MW-4	R2103912-012	91	98	99
SSG MW-3	R2103912-013	94	94	98
MW-26	R2103912-014	93	95	101
DUP042121B	R2103912-015	91	98	101
Trip Blank	R2103912-016	94	96	97
Method Blank	RQ2104630-04	93	95	99
Method Blank	RQ2104734-06	85	88	94
Lab Control Sample	RQ2104630-03	96	96	99
Lab Control Sample	RQ2104734-05	92	99	99
MW-10 MS	RQ2104630-05	96	96	99
MW-10 DMS	RQ2104630-06	94	95	98

ALS Group USA, Corp.  
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QA/QC Report

**Client:** Marks Engineering, PC  
**Project:** Modock Road Springs / DLS/21-007C  
**Sample Matrix:** Water

**Service Request:** R2103912  
**Date Collected:** 04/21/21  
**Date Received:** 04/23/21  
**Date Analyzed:** 04/28/21  
**Date Extracted:** NA

**Duplicate Matrix Spike Summary**  
**Volatile Organic Compounds by GC/MS**

**Sample Name:** MW-10  
**Lab Code:** R2103912-002  
**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

**Units:** ug/L  
**Basis:** NA

Analyte Name	Sample Result	Matrix Spike RQ2104630-05			Duplicate Matrix Spike RQ2104630-06			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
1,1,1-Trichloroethane (TCA)	2.6	46.8	50.0	88	49.1	50.0	93	74-127	5	30
1,1,2,2-Tetrachloroethane	1.0 U	41.9	50.0	84	45.6	50.0	91	72-122	8	30
1,1,2-Trichloroethane	1.0 U	42.6	50.0	85	45.0	50.0	90	82-121	5	30
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	40.6	50.0	81	43.2	50.0	86	50-147	6	30
1,1-Dichloroethane (1,1-DCA)	1.0 U	44.7	50.0	89	46.7	50.0	93	74-132	4	30
1,1-Dichloroethene (1,1-DCE)	1.0 U	56.3	50.0	113	58.2	50.0	116	71-118	3	30
1,2,3-Trichlorobenzene	1.0 U	40.8	50.0	82	43.9	50.0	88	59-129	7	30
1,2,4-Trichlorobenzene	1.0 U	40.5	50.0	81	42.5	50.0	85	69-122	5	30
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	37.9	50.0	76	41.0	50.0	82	37-150	8	30
1,2-Dibromoethane	1.0 U	42.4	50.0	85	42.9	50.0	86	67-127	1	30
1,2-Dichlorobenzene	1.0 U	41.7	50.0	83	44.4	50.0	89	77-120	6	30
1,2-Dichloroethane	1.0 U	43.5	50.0	87	45.6	50.0	91	68-130	5	30
1,2-Dichloropropane	1.0 U	45.9	50.0	92	47.5	50.0	95	79-124	3	30
1,3-Dichlorobenzene	1.0 U	41.3	50.0	83	44.0	50.0	88	83-121	6	30
1,4-Dichlorobenzene	1.0 U	40.3	50.0	81 *	42.9	50.0	86	82-120	6	30
1,4-Dioxane	40 U	930	1000	93	882	1000	88	44-154	5	30
2-Butanone (MEK)	5.0 U	42.0	50.0	84	43.7	50.0	87	61-137	4	30
2-Hexanone	5.0 U	45.6	50.0	91	45.3	50.0	91	56-132	<1	30
4-Methyl-2-pentanone	5.0 U	43.7	50.0	87	45.7	50.0	91	60-141	4	30
Acetone	5.0 U	48.1	50.0	96	50.9	50.0	102	35-183	6	30
Benzene	1.0 U	45.9	50.0	92	47.8	50.0	96	76-129	4	30
Bromochloromethane	1.0 U	42.3	50.0	85	44.6	50.0	89	80-122	5	30
Bromodichloromethane	1.0 U	42.2	50.0	84	45.7	50.0	91	78-133	8	30
Bromoform	1.0 U	39.1	50.0	78	43.1	50.0	86	58-133	10	30
Bromomethane	1.0 U	41.9	50.0	84	45.8	50.0	92	10-184	9	30
Carbon Disulfide	1.0 U	43.8	50.0	88	46.1	50.0	92	59-140	5	30
Carbon Tetrachloride	1.0 U	42.4	50.0	85	46.2	50.0	92	65-135	9	30
Chlorobenzene	1.0 U	43.9	50.0	88	45.5	50.0	91	76-125	4	30
Chloroethane	1.0 U	48.0	50.0	96	49.6	50.0	99	48-146	3	30
Chloroform	1.0 U	41.7	50.0	83	43.3	50.0	87	75-130	4	30
Chloromethane	1.0 U	50.5	50.0	101	51.8	50.0	104	55-160	3	30
Cyclohexane	1.0 U	17.7	20.0	88	18.5	20.0	93	52-145	5	30
Dibromochloromethane	1.0 U	39.9	50.0	80	42.1	50.0	84	72-128	5	30

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** Marks Engineering, PC  
**Project:** Modock Road Springs / DLS/21-007C  
**Sample Matrix:** Water

**Service Request:** R2103912  
**Date Collected:** 04/21/21  
**Date Received:** 04/23/21  
**Date Analyzed:** 04/28/21  
**Date Extracted:** NA

**Duplicate Matrix Spike Summary**  
**Volatile Organic Compounds by GC/MS**

**Sample Name:** MW-10  
**Lab Code:** R2103912-002  
**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

**Units:** ug/L  
**Basis:** NA

Analyte Name	Sample Result	Matrix Spike RQ2104630-05			Duplicate Matrix Spike RQ2104630-06			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Dichlorodifluoromethane (CFC 12)	1.0 U	41.7	50.0	83	43.0	50.0	86	49-154	3	30
Dichloromethane	1.0 U	43.8	50.0	88	46.8	50.0	94	73-122	7	30
Ethylbenzene	1.0 U	46.7	50.0	93	48.2	50.0	96	72-134	3	30
Isopropylbenzene (Cumene)	1.0 U	44.7	50.0	89	47.7	50.0	95	77-128	6	30
Methyl Acetate	2.0 U	14.1	20.0	71	14.3	20.0	71	26-121	1	30
Methyl tert-Butyl Ether	1.0 U	40.8	50.0	82	43.1	50.0	86	75-119	5	30
Methylcyclohexane	1.0 U	17.5	20.0	88	18.1	20.0	91	45-146	3	30
Styrene	1.0 U	46.4	50.0	93	47.9	50.0	96	74-136	3	30
Tetrachloroethene (PCE)	1.0 U	44.6	50.0	89	47.1	50.0	94	72-125	5	30
Toluene	1.0 U	45.7	50.0	91	47.8	50.0	96	79-119	5	30
Trichloroethene (TCE)	0.46 J	44.4	50.0	88	46.7	50.0	92	74-122	5	30
Trichlorofluoromethane (CFC 11)	1.0 U	46.0	50.0	92	47.3	50.0	95	71-136	3	30
Vinyl Chloride	1.0 U	45.3	50.0	91	47.7	50.0	95	74-159	5	30
cis-1,2-Dichloroethene	1.0 U	46.5	50.0	93	48.2	50.0	96	77-127	4	30
cis-1,3-Dichloropropene	1.0 U	42.2	50.0	84	45.1	50.0	90	52-134	7	30
m,p-Xylenes	2.0 U	94.4	100	94	97.0	100	97	80-126	3	30
o-Xylene	1.0 U	45.0	50.0	90	47.0	50.0	94	79-123	4	30
trans-1,2-Dichloroethene	1.0 U	50.5	50.0	101	52.3	50.0	105	73-118	3	30
trans-1,3-Dichloropropene	1.0 U	40.0	50.0	80	42.9	50.0	86	71-133	7	30

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

**ALS Group USA, Corp.**  
dba ALS Environmental

Analytical Report

**Client:** Marks Engineering, PC  
**Project:** Modock Road Springs / DLS/21-007C  
**Sample Matrix:** Water

**Service Request:** R2103912  
**Date Collected:** NA  
**Date Received:** NA

**Sample Name:** Method Blank  
**Lab Code:** RQ2104630-04

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	04/27/21 23:35	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	04/27/21 23:35	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	04/27/21 23:35	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	0.20	1	04/27/21 23:35	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	04/27/21 23:35	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	04/27/21 23:35	
1,2,3-Trichlorobenzene	1.0 U	1.0	0.25	1	04/27/21 23:35	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.34	1	04/27/21 23:35	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	04/27/21 23:35	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	04/27/21 23:35	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	04/27/21 23:35	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	04/27/21 23:35	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	04/27/21 23:35	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	04/27/21 23:35	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	04/27/21 23:35	
1,4-Dioxane	40 U	40	13	1	04/27/21 23:35	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	04/27/21 23:35	
2-Hexanone	5.0 U	5.0	0.20	1	04/27/21 23:35	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	04/27/21 23:35	
Acetone	5.0 U	5.0	5.0	1	04/27/21 23:35	
Benzene	1.0 U	1.0	0.20	1	04/27/21 23:35	
Bromochloromethane	1.0 U	1.0	0.20	1	04/27/21 23:35	
Bromodichloromethane	1.0 U	1.0	0.20	1	04/27/21 23:35	
Bromoform	1.0 U	1.0	0.25	1	04/27/21 23:35	
Bromomethane	1.0 U	1.0	0.70	1	04/27/21 23:35	
Carbon Disulfide	1.0 U	1.0	0.42	1	04/27/21 23:35	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	04/27/21 23:35	
Chlorobenzene	1.0 U	1.0	0.20	1	04/27/21 23:35	
Chloroethane	1.0 U	1.0	0.23	1	04/27/21 23:35	
Chloroform	1.0 U	1.0	0.24	1	04/27/21 23:35	
Chloromethane	1.0 U	1.0	0.28	1	04/27/21 23:35	
Cyclohexane	1.0 U	1.0	0.26	1	04/27/21 23:35	
Dibromochloromethane	1.0 U	1.0	0.20	1	04/27/21 23:35	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	04/27/21 23:35	
Dichloromethane	1.0 U	1.0	0.65	1	04/27/21 23:35	
Ethylbenzene	1.0 U	1.0	0.20	1	04/27/21 23:35	
Isopropylbenzene (Cumene)	1.0 U	1.0	0.20	1	04/27/21 23:35	
Methyl Acetate	2.0 U	2.0	0.33	1	04/27/21 23:35	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	04/27/21 23:35	
Methylcyclohexane	1.0 U	1.0	0.20	1	04/27/21 23:35	
Styrene	1.0 U	1.0	0.20	1	04/27/21 23:35	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	04/27/21 23:35	
Toluene	1.0 U	1.0	0.20	1	04/27/21 23:35	

**ALS Group USA, Corp.**  
dba ALS Environmental

Analytical Report

**Client:** Marks Engineering, PC  
**Project:** Modock Road Springs / DLS/21-007C  
**Sample Matrix:** Water  
**Sample Name:** Method Blank  
**Lab Code:** RQ2104630-04

**Service Request:** R2103912  
**Date Collected:** NA  
**Date Received:** NA  
**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	04/27/21 23:35	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	04/27/21 23:35	
Vinyl Chloride	1.0 U	1.0	0.20	1	04/27/21 23:35	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	04/27/21 23:35	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	04/27/21 23:35	
m,p-Xylenes	2.0 U	2.0	0.20	1	04/27/21 23:35	
o-Xylene	1.0 U	1.0	0.20	1	04/27/21 23:35	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	04/27/21 23:35	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	04/27/21 23:35	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	85 - 122	04/27/21 23:35	
Dibromofluoromethane	95	80 - 116	04/27/21 23:35	
Toluene-d8	99	87 - 121	04/27/21 23:35	



**ALS Group USA, Corp.**  
dba ALS Environmental

Analytical Report

**Client:** Marks Engineering, PC  
**Project:** Modock Road Springs / DLS/21-007C  
**Sample Matrix:** Water

**Service Request:** R2103912  
**Date Collected:** NA  
**Date Received:** NA

**Sample Name:** Method Blank  
**Lab Code:** RQ2104734-06

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	04/29/21 12:36	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	04/29/21 12:36	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	04/29/21 12:36	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	0.20	1	04/29/21 12:36	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	04/29/21 12:36	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	04/29/21 12:36	
1,2,3-Trichlorobenzene	1.0 U	1.0	0.25	1	04/29/21 12:36	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.34	1	04/29/21 12:36	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	04/29/21 12:36	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	04/29/21 12:36	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	04/29/21 12:36	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	04/29/21 12:36	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	04/29/21 12:36	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	04/29/21 12:36	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	04/29/21 12:36	
1,4-Dioxane	40 U	40	13	1	04/29/21 12:36	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	04/29/21 12:36	
2-Hexanone	5.0 U	5.0	0.20	1	04/29/21 12:36	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	04/29/21 12:36	
Acetone	5.0 U	5.0	5.0	1	04/29/21 12:36	
Benzene	1.0 U	1.0	0.20	1	04/29/21 12:36	
Bromochloromethane	1.0 U	1.0	0.20	1	04/29/21 12:36	
Bromodichloromethane	1.0 U	1.0	0.20	1	04/29/21 12:36	
Bromoform	1.0 U	1.0	0.25	1	04/29/21 12:36	
Bromomethane	1.0 U	1.0	0.70	1	04/29/21 12:36	
Carbon Disulfide	1.0 U	1.0	0.42	1	04/29/21 12:36	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	04/29/21 12:36	
Chlorobenzene	1.0 U	1.0	0.20	1	04/29/21 12:36	
Chloroethane	1.0 U	1.0	0.23	1	04/29/21 12:36	
Chloroform	1.0 U	1.0	0.24	1	04/29/21 12:36	
Chloromethane	1.0 U	1.0	0.28	1	04/29/21 12:36	
Cyclohexane	1.0 U	1.0	0.26	1	04/29/21 12:36	
Dibromochloromethane	1.0 U	1.0	0.20	1	04/29/21 12:36	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	04/29/21 12:36	
Dichloromethane	1.0 U	1.0	0.65	1	04/29/21 12:36	
Ethylbenzene	1.0 U	1.0	0.20	1	04/29/21 12:36	
Isopropylbenzene (Cumene)	1.0 U	1.0	0.20	1	04/29/21 12:36	
Methyl Acetate	2.0 U	2.0	0.33	1	04/29/21 12:36	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	04/29/21 12:36	
Methylcyclohexane	1.0 U	1.0	0.20	1	04/29/21 12:36	
Styrene	1.0 U	1.0	0.20	1	04/29/21 12:36	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	04/29/21 12:36	
Toluene	1.0 U	1.0	0.20	1	04/29/21 12:36	

**ALS Group USA, Corp.**  
dba ALS Environmental

Analytical Report

**Client:** Marks Engineering, PC  
**Project:** Modock Road Springs / DLS/21-007C  
**Sample Matrix:** Water  
**Sample Name:** Method Blank  
**Lab Code:** RQ2104734-06

**Service Request:** R2103912  
**Date Collected:** NA  
**Date Received:** NA  
**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	04/29/21 12:36	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	04/29/21 12:36	
Vinyl Chloride	1.0 U	1.0	0.20	1	04/29/21 12:36	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	04/29/21 12:36	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	04/29/21 12:36	
m,p-Xylenes	2.0 U	2.0	0.20	1	04/29/21 12:36	
o-Xylene	1.0 U	1.0	0.20	1	04/29/21 12:36	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	04/29/21 12:36	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	04/29/21 12:36	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	85	85 - 122	04/29/21 12:36	
Dibromofluoromethane	88	80 - 116	04/29/21 12:36	
Toluene-d8	94	87 - 121	04/29/21 12:36	

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** Marks Engineering, PC  
**Project:** Modock Road Springs / DLS/21-007C  
**Sample Matrix:** Water

**Service Request:** R2103912  
**Date Analyzed:** 04/27/21

**Lab Control Sample Summary**  
**Volatile Organic Compounds by GC/MS**

**Units:**ug/L  
**Basis:**NA

**Lab Control Sample**  
RQ2104630-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	19.4	20.0	97	75-125
1,1,2,2-Tetrachloroethane	8260C	19.9	20.0	99	78-126
1,1,2-Trichloroethane	8260C	20.2	20.0	101	82-121
1,1,2-Trichloro-1,2,2-trifluoroethane	8260C	18.8	20.0	94	67-124
1,1-Dichloroethane (1,1-DCA)	8260C	20.3	20.0	102	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	24.1	20.0	121 *	71-118
1,2,3-Trichlorobenzene	8260C	19.9	20.0	100	67-136
1,2,4-Trichlorobenzene	8260C	19.5	20.0	98	75-132
1,2-Dibromo-3-chloropropane (DBCP)	8260C	18.1	20.0	90	55-136
1,2-Dibromoethane	8260C	19.1	20.0	95	82-127
1,2-Dichlorobenzene	8260C	20.1	20.0	101	80-119
1,2-Dichloroethane	8260C	20.1	20.0	100	71-127
1,2-Dichloropropane	8260C	21.0	20.0	105	80-119
1,3-Dichlorobenzene	8260C	19.7	20.0	99	83-121
1,4-Dichlorobenzene	8260C	19.6	20.0	98	79-119
1,4-Dioxane	8260C	383	400	96	44-154
2-Butanone (MEK)	8260C	19.3	20.0	97	61-137
2-Hexanone	8260C	18.9	20.0	94	63-124
4-Methyl-2-pentanone	8260C	19.2	20.0	96	66-124
Acetone	8260C	20.0	20.0	100	40-161
Benzene	8260C	20.9	20.0	104	79-119
Bromochloromethane	8260C	20.7	20.0	103	81-126
Bromodichloromethane	8260C	19.6	20.0	98	81-123
Bromoform	8260C	19.0	20.0	95	65-146
Bromomethane	8260C	18.6	20.0	93	42-166
Carbon Disulfide	8260C	17.3	20.0	86	66-128
Carbon Tetrachloride	8260C	18.8	20.0	94	70-127
Chlorobenzene	8260C	19.3	20.0	97	80-121
Chloroethane	8260C	20.5	20.0	102	62-131
Chloroform	8260C	19.1	20.0	95	79-120
Chloromethane	8260C	22.5	20.0	113	65-135
Cyclohexane	8260C	18.4	20.0	92	69-120
Dibromochloromethane	8260C	18.2	20.0	91	72-128

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** Marks Engineering, PC  
**Project:** Modock Road Springs / DLS/21-007C  
**Sample Matrix:** Water

**Service Request:** R2103912  
**Date Analyzed:** 04/27/21

**Lab Control Sample Summary**  
**Volatile Organic Compounds by GC/MS**

**Units:**ug/L  
**Basis:**NA

**Lab Control Sample**  
RQ2104630-03

<b>Analyte Name</b>	<b>Analytical Method</b>	<b>Result</b>	<b>Spike Amount</b>	<b>% Rec</b>	<b>% Rec Limits</b>
Dichlorodifluoromethane (CFC 12)	8260C	18.6	20.0	93	59-155
Dichloromethane	8260C	20.2	20.0	101	73-122
Ethylbenzene	8260C	20.1	20.0	100	76-120
Isopropylbenzene (Cumene)	8260C	20.9	20.0	104	77-128
Methyl Acetate	8260C	17.5	20.0	88	61-133
Methyl tert-Butyl Ether	8260C	19.3	20.0	96	75-118
Methylcyclohexane	8260C	18.8	20.0	94	51-129
Styrene	8260C	20.4	20.0	102	80-124
Tetrachloroethene (PCE)	8260C	19.9	20.0	99	72-125
Toluene	8260C	20.5	20.0	103	79-119
Trichloroethene (TCE)	8260C	20.0	20.0	100	74-122
Trichlorofluoromethane (CFC 11)	8260C	20.6	20.0	103	71-136
Vinyl Chloride	8260C	20.2	20.0	101	74-159
cis-1,2-Dichloroethene	8260C	20.7	20.0	104	80-121
cis-1,3-Dichloropropene	8260C	20.4	20.0	102	77-122
m,p-Xylenes	8260C	41.5	40.0	104	80-126
o-Xylene	8260C	20.5	20.0	102	79-123
trans-1,2-Dichloroethene	8260C	22.4	20.0	112	73-118
trans-1,3-Dichloropropene	8260C	19.6	20.0	98	71-133

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** Marks Engineering, PC  
**Project:** Modock Road Springs / DLS/21-007C  
**Sample Matrix:** Water

**Service Request:** R2103912  
**Date Analyzed:** 04/29/21

**Lab Control Sample Summary**  
**Volatile Organic Compounds by GC/MS**

**Units:**ug/L  
**Basis:**NA

**Lab Control Sample**  
RQ2104734-05

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	18.1	20.0	91	75-125
1,1,2,2-Tetrachloroethane	8260C	18.9	20.0	94	78-126
1,1,2-Trichloroethane	8260C	18.5	20.0	93	82-121
1,1,2-Trichloro-1,2,2-trifluoroethane	8260C	18.7	20.0	94	67-124
1,1-Dichloroethane (1,1-DCA)	8260C	18.3	20.0	92	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	22.3	20.0	111	71-118
1,2,3-Trichlorobenzene	8260C	19.2	20.0	96	67-136
1,2,4-Trichlorobenzene	8260C	19.3	20.0	96	75-132
1,2-Dibromo-3-chloropropane (DBCP)	8260C	15.6	20.0	78	55-136
1,2-Dibromoethane	8260C	17.8	20.0	89	82-127
1,2-Dichlorobenzene	8260C	18.8	20.0	94	80-119
1,2-Dichloroethane	8260C	18.2	20.0	91	71-127
1,2-Dichloropropane	8260C	18.4	20.0	92	80-119
1,3-Dichlorobenzene	8260C	18.9	20.0	95	83-121
1,4-Dichlorobenzene	8260C	18.9	20.0	94	79-119
1,4-Dioxane	8260C	337	400	84	44-154
2-Butanone (MEK)	8260C	15.3	20.0	77	61-137
2-Hexanone	8260C	14.9	20.0	75	63-124
4-Methyl-2-pentanone	8260C	15.5	20.0	77	66-124
Acetone	8260C	14.2	20.0	71	40-161
Benzene	8260C	19.1	20.0	95	79-119
Bromochloromethane	8260C	18.2	20.0	91	81-126
Bromodichloromethane	8260C	17.6	20.0	88	81-123
Bromoform	8260C	16.4	20.0	82	65-146
Bromomethane	8260C	17.3	20.0	86	42-166
Carbon Disulfide	8260C	18.2	20.0	91	66-128
Carbon Tetrachloride	8260C	17.0	20.0	85	70-127
Chlorobenzene	8260C	18.2	20.0	91	80-121
Chloroethane	8260C	22.3	20.0	111	62-131
Chloroform	8260C	18.6	20.0	93	79-120
Chloromethane	8260C	20.7	20.0	103	65-135
Cyclohexane	8260C	16.5	20.0	82	69-120
Dibromochloromethane	8260C	16.8	20.0	84	72-128

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** Marks Engineering, PC  
**Project:** Modock Road Springs / DLS/21-007C  
**Sample Matrix:** Water

**Service Request:** R2103912  
**Date Analyzed:** 04/29/21

**Lab Control Sample Summary**  
**Volatile Organic Compounds by GC/MS**

**Units:**ug/L  
**Basis:**NA

**Lab Control Sample**  
RQ2104734-05

<b>Analyte Name</b>	<b>Analytical Method</b>	<b>Result</b>	<b>Spike Amount</b>	<b>% Rec</b>	<b>% Rec Limits</b>
Dichlorodifluoromethane (CFC 12)	8260C	20.8	20.0	104	59-155
Dichloromethane	8260C	18.1	20.0	90	73-122
Ethylbenzene	8260C	18.9	20.0	95	76-120
Isopropylbenzene (Cumene)	8260C	18.8	20.0	94	77-128
Methyl Acetate	8260C	15.8	20.0	79	61-133
Methyl tert-Butyl Ether	8260C	18.2	20.0	91	75-118
Methylcyclohexane	8260C	17.1	20.0	86	51-129
Styrene	8260C	18.4	20.0	92	80-124
Tetrachloroethene (PCE)	8260C	19.3	20.0	96	72-125
Toluene	8260C	18.9	20.0	95	79-119
Trichloroethene (TCE)	8260C	18.2	20.0	91	74-122
Trichlorofluoromethane (CFC 11)	8260C	19.9	20.0	99	71-136
Vinyl Chloride	8260C	19.1	20.0	96	74-159
cis-1,2-Dichloroethene	8260C	19.3	20.0	97	80-121
cis-1,3-Dichloropropene	8260C	18.2	20.0	91	77-122
m,p-Xylenes	8260C	38.0	40.0	95	80-126
o-Xylene	8260C	19.1	20.0	96	79-123
trans-1,2-Dichloroethene	8260C	21.0	20.0	105	73-118
trans-1,3-Dichloropropene	8260C	17.7	20.0	89	71-133



**Exhibit B**  
**Laboratory Report**  
**(Full Category B Packages)**  
**(Provided Electronically)**



**Exhibit C**  
**Data Usability Summary Report**  
**(DUSR)**



# **DATA USABILITY SUMMARY REPORT (DUSR)**

**Site: DLS/Modock Road Springs  
Victor, NY  
Project #: 21-007C**

**SDG: R2103912**  
15 Water Samples and 1 Trip Blank

Prepared for:

**Marks Engineering  
42 Beeman Street  
Canandaigua, NY 14424  
Attention: Jeremy Wolf**

**June 2021**



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<b>APPENDIX A</b>	Validated Analytical Results
<b>APPENDIX B</b>	Laboratory QC Documentation
<b>APPENDIX C</b>	Validator Qualifications

## *Tables*

Table 4-1	Data Validation Guidance Documents
Table 4-2	Quality Control Criteria for Validating Laboratory Analytical Data

## **Summaries of Validated Results**

Table 6-1	8260C
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**REVIEWER'S NARRATIVE**

**SDG R2103912 Marks Engineering DLS/Modock Road Springs - 007C**

The data associated with this Sample Delivery Group (SDG), analyzed by ALS Environmental Rochester, NY have been reviewed in accordance with assessment criteria provided by the New York State Department of Environmental Conservation following the review procedures provided in the USEPA Functional Guidelines for evaluating organic and inorganic data.

All analytical results reported by the laboratory are considered valid and acceptable except results that have been qualified as rejected, "R". Results qualified as estimated "J", or as non-detects, "U", are considered usable for the purpose of evaluating water and/or soil quality. However, these qualifiers indicate that the accuracy and/or precision of the analytical result is questionable. A summary of all data that have been qualified and the reasons for qualification are provided in the following data usability summary report (DUSR).

Two facts should be noted by all data users. First, the "R" qualifier means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the analyte is present or not. Values qualified with an "R" should not appear on the final data tables because they cannot be relied upon, even as the last resort. Second, no analyte concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error.

Reviewer's Signature: Michael K. Perry Date: 6/9/2021  
Michael K. Perry  
Chemist

## 1.0 SUMMARY

<b>SITE:</b>	DLS/Modock Road Springs Victor, NY Project No. 21-007C
<b>SAMPLING DATE:</b>	April 21, 2021
<b>SAMPLE TYPE:</b>	15 water samples and 1 trip blank
<b>LABORATORY:</b>	ALS Environmental Rochester, NY
<b>SDG No.:</b>	R2103912

## 2.0 INTRODUCTION

This data usability summary report (DUSR) was prepared in accordance with guidance provided by the New York State Department of Environmental Conservation (NYSDEC). The DUSR is based on a review and evaluation of the laboratory analytical data package. Specifically, the NYSDEC guidance recommends review and evaluation of the following elements of the data package:

- Completeness of the data package as defined under the requirements of the NYSDEC Analytical Services Protocols (ASP) Category B or the United States Environmental Protection Agency (USEPA) Contract Laboratory Program (CLP) deliverables,
- Compliance with established analyte holding times,
- Adherence to quality control (QC) limits and specifications for blanks, instrument tuning and calibration, surrogate recoveries, spike recoveries, laboratory duplicate analyses, and other QC criteria,
- Adherence to established analytical protocols,
- Conformance of data summary sheets with raw analytical data, and
- Use of correct data qualifiers.

Data deficiencies, analytical protocol deviations, and quality control problems identified using the review criteria above and their effect on the analytical results are discussed in this report.

### **3.0 SAMPLE AND ANALYSIS SUMMARY**

The data package consists of analytical results for sixteen water samples collected on April 21, 2010. These samples were analyzed for 8260C Volatile Organic Compounds.

All laboratory analyses were performed by ALS Environmental, Rochester, NY and analyzed as SDG R2103912. The analytical results were provided in NYSDEC ASP Category B format, which includes all raw analytical data and laboratory QC data.

### **4.0 GUIDANCE DOCUMENTS AND DATA REVIEW CRITERIA**

The guidance documents used for reviewing laboratory quality control (QC) data and assigning data qualifiers (flags) to analytical results are listed in Table 4-1. The QC limits established in the documents applicable to this data review were used to assess the quality of the analytical results. In some cases, however, QC limits established internally by the laboratory were taken into account to determine data quality.

The QC criteria considered for assessing the usability of the reported analytical results provided for each analyte type (i.e. VOCs, SVOCs, metals, etc.) are listed in Table 4-2. These criteria may vary with the analytical method utilized by the laboratory. These criteria comply with the guidance recommended in Section 2.0 above.

### **5.0 DATA VALIDATION QUALIFIERS**

The letter qualifiers (flags) used to define data usability are described briefly below. These letters are assigned by the data validator to analytical results having questionable accuracy and/or precision as determined by reviewing the laboratory QC data associated with the analytical results.

**TABLE 4-1****DATA VALIDATION GUIDANCE DOCUMENTS**

<b>Analyte Type</b>	<b>Validation Guidance</b>
VOCs	USEPA, 2008, Validating Volatile Organic Compounds By Gas Chromatography/Mass Spectrometry; SW-846 Method 8260B; SOP # HW-24, Rev. 2.  USEPA, 2008, Statement of Work for Organic Analysis of Low/Medium Concentration of Volatile Organic Compounds SQM01.2; SOP HW-33, Rev. 2.
SVOCs	USEPA, 2007, Statement of Work for Organic Analysis of Low/Medium Concentration of Semivolatile Organic Compounds SQM01.2; SOP HW-35, Rev. 1.
Pesticides/PCBs	USEPA, 2006, CLP Organics Data Review and Preliminary Review (CLP/SOW OLMO 4.3); SOP # HW-6, Rev. 14, Part C.
Metals	USEPA, 2006, Validation of Metals for the Contract Laboratory Program (CLP) based on SOW ILMO 5.3 (SOP Revision 13), SOP # HW-2, Rev. 13.
Gen Chemistry	NYSDEC, 2005, Analytical Services Protocols (ASP)
VOCs (Ambient air)	USEPA, 2006, Validating Air Samples, Volatile Organic Analysis of Ambient Air in Canister by Method TO-15; SOP # HW-31, Rev. 4.
Perfluoroalkyl Substances (PFASs)	USEPA, 2018, Data Review and Validation Guidelines for Perfluoroalkyl Substances (PFASs) Analyzed Using EPA Method 537

**TABLE 4-2**

**QUALITY CONTROL CRITERIA USED FOR VALIDATING  
LABORATORY ANALYTICAL DATA**

<b>VOCs</b>	<b>SVOCs</b>	<b>Pesticides/PCBs</b>	<b>Metals</b>	<b>Gen Chemistry</b>	<b>Method TO-15</b>
Completeness of Pkg Sample Preservation Holding Time System Monitoring Compounds Lab Control Sample Matrix Spikes Blanks Instrument Tuning Internal Standards Initial Calibration Continuing Calibration Lab Qualifiers Field Duplicate	Completeness of Pkg Sample Preservation Holding Time Surrogate Recoveries Lab Control Sample Matrix Spikes Blanks Instrument Tuning Internal Standards Initial Calibration Continuing Calibration Lab Qualifiers Field Duplicate	Completeness of Pkg Sample Preservation Holding Time Surrogate Recoveries Matrix Spikes Blanks Instrument Calibration & Verification Analyte ID Lab Qualifiers Field Duplicate	Completeness of Pkg Sample Preservation Holding Time Initial/Continuing Calibration CRDL Standards Blanks Interference Check Sample Spike Recoveries Lab Duplicate Lab Control Sample ICP Serial Dilutions Lab Qualifiers Field Duplicate	Completeness of Pkg Sample Preservation Holding Times Calibration Lab Control Samples Blanks Spike Recoveries Lab Duplicates	Completeness of Pkg Sample Preservation Holding Time Canister Certification Lab Control Sample Instrument Tuning Blanks Initial Calibration & System Performance Daily Calibration Field Duplicate

<b>PFASs</b>
Completeness of Pkg Sample Preservation Holding Time Instr Performance Check Initial Calibration Continuing Calibration Blanks Surrogates Lab Fortified Blank Matrix Spikes Internal Standards

The laboratory may also use various letters and symbols to flag analytical results generated when QC limits were exceeded. The meanings of these flags may differ from those used by the independent data validator. Those used by the laboratory are provided with the analytical results.

**NOTE:** The assignment of data qualifiers by the data reviewer (validator) to laboratory analytical results should not necessarily be interpreted by the data user as a measure of laboratory ability or proficiency. Rather, the qualifiers are intended to provide a measure of data accuracy and precision to the data user, which, for example, may provide a level of confidence in determining whether or not standards or cleanup objectives have been met.

- U** The analyte was analyzed for but was not detected at or above the sample quantitation limit.
- J** The analyte was positively identified; the associated numerical value is the *approximate* concentration of the analyte in the sample. (The magnitude of any  $\pm$  value associated with the result is not determined by data validation).
- UJ** The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is *approximate* and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R** The sample result is rejected (i.e., is unusable) due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.
- N** The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
- JN** The analyte is considered to be "presumptively present." The associated numerical value represents its *approximate* concentration.

The validated analytical results are attached to this report. Validation qualifiers (flags) are indicated using red ink. Data sheets having qualified data are signed and dated by the data reviewer.



## **6.0 RESULTS OF THE DATA REVIEW**

The results of the data review are summarized in Table 6-1. The table lists the samples where QC criteria were found to exceed acceptable limits and the actions taken to qualify the associated analytical results.

## **7.0 TOTAL USABLE DATA**

For SDG R2103912, sixteen samples were analyzed and results were reported for 848 analytes. Even though some results were flagged with a “J” as estimated, all results (100 %) are considered usable. See the summary table for the analyses that have been rejected or qualified and the associated QC reasons.

R2103912

**Table 6-1      8260C**

<b>SAMPLES AFFECTED</b>	<b>ANALYTES</b>	<b>ACTION</b>	<b>QC VIOLATION</b>	<b>COMMENTS</b>
MW-10	1,4-Dichlorobenzene	UJ non-detects J detects	MS/MSD < QC limit	Data are estimated
MW-23 MW-10 MW-15 SSG MW-3 Trip Blank	1,1-DCE	J detects	LCS > QC limit	Data are estimated

## ACRONYMS

BSP	Blank Spike
CCAL	Continuing Calibration
CCB	Continuing Calibration Blank
CCV	Continuing Calibration Verification
CRDL	Contract Required Detection Limit
CRQL	Contract Required Quantitation Limit
%D	Percent Difference
ICAL	Initial Calibration
ICB	Initial Calibration Blank
IS	Internal Standard
LCS	Laboratory Control Sample
MS/MSD	Matrix Spike/Matrix Spike Duplicate
QA	Quality Assurance
QC	Quality Control
%R	Percent recovery
RPD	Relative Percent Difference
RRF	Relative Response Factor
%RSD	Percent Relative Standard Deviation
TAL	Target Analyte List (metals)
TCL	Target Compound List (organics)

*Appendix A*

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*Validated  
Analytical  
Results*



May 04, 2021

Service Request No:R2103912

Mr. Jeremy Wolf  
Marks Engineering, PC  
42 Beeman Street  
Canadaigua, NY 14424

**Laboratory Results for: Modock Road Springs / DLS**

Dear Mr. Wolf,

Enclosed are the results of the sample(s) submitted to our laboratory April 23, 2021  
For your reference, these analyses have been assigned our service request number **R2103912**.

All testing was performed according to our laboratory's quality assurance program and met the requirements of the TNI standards except as noted in the case narrative report. Any testing not included in the lab's accreditation is identified on a Non-Certified Analytes report. All results are intended to be considered in their entirety. ALS Environmental is not responsible for use of less than the complete report. Results apply only to the individual samples submitted to the lab for analysis, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s), and represented by Laboratory Control Sample control limits. Any events, such as QC failures or Holding Time exceedances, which may add to the uncertainty are explained in the report narrative or are flagged with qualifiers. The flags are explained in the Report Qualifiers and Definitions page of this report.

Please contact me if you have any questions. My extension is 7472. You may also contact me via email at [Janice.Jaeger@alsglobal.com](mailto:Janice.Jaeger@alsglobal.com).

Respectfully submitted,

**ALS Group USA, Corp. dba ALS Environmental**

Janice Jaeger  
Project Manager

**ADDRESS**

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

**PHONE** +1 585 288 5380 | **FAX** +1 585 288 8475

ALS Group USA, Corp.  
dba ALS Environmental



**Client:** Marks Engineering, PC  
**Project:** Modock Road Springs / DLS  
**Sample Matrix:** Water

**Service Request:** R2103912  
**Date Received:** 04/23/2021

**CASE NARRATIVE**

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier level IV requested by the client.

**Sample Receipt:**

Sixteen water samples were received for analysis at ALS Environmental on 04/23/2021. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

**Volatiles by GC/MS:**

Method 8260C, 04/27/2021: The upper control criterion was exceeded for one or more analytes in the Laboratory Control Sample (LCS). There were no detections of the analyte(s) above the MRL in the associated field samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.

A handwritten signature in black ink, appearing to read "Samantha".

Approved by \_\_\_\_\_

Date 05/04/2021

**Client:** Marks Engineering, PC  
**Project:** Modock Road Springs / DLS/21-007C

**Service Request:**R2103912

**SAMPLE CROSS-REFERENCE**

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R2103912-001	MW-23	4/21/2021	0825
R2103912-002	MW-10	4/21/2021	0840
R2103912-003	MW-24S	4/21/2021	0900
R2103912-004	MW-15	4/21/2021	0915
R2103912-005	MW-13	4/21/2021	0925
R2103912-006	MW-14	4/21/2021	0935
R2103912-007	MW-17S	4/21/2021	0945
R2103912-008	MW-16	4/21/2021	1000
R2103912-009	EB042121	4/21/2021	1015
R2103912-010	SC-01	4/21/2021	1025
R2103912-011	DUP042121A	4/21/2021	1035
R2103912-012	MW-4	4/21/2021	1045
R2103912-013	SSG MW-3	4/21/2021	1105
R2103912-014	MW-26	4/21/2021	1120
R2103912-015	DUP042121B	4/21/2021	1130
R2103912-016	Trip Blank	4/21/2021	







# CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

004917

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 2 OF 2

Project Name		Project Number 21-007C		ANALYSIS REQUESTED (Include Method Number and Container Preservative)														
Project Manager Modock Rd Springs / DLS		Report CC		PRESERVATIVE														
Company/Address Marks Engineering PC 42 Beeman ST Canandaigua NY 14424		Email JWolf@marksengineering.com		NUMBER OF CONTAINERS														
Phone # 585-500-8392		Sampler's Printed Name Jeremy Wolf		GC/MS VOAs • 8260 • 824 • CLP GC/MS SVOAs • 8270 • 825 GC VOAs • 8021 • 801802 PESTICIDES • 8081 • 808 PCBs • 8082 • 808 METALS, TOTAL (List in comments below) METALS, DISSOLVED (List in comments below)														
Sampler's Signature JWolf		REMARKS/ ALTERNATE DESCRIPTION																
CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING		MATRIX	NUMBER OF CONTAINERS		ANALYSIS REQUESTED											
		DATE	TIME															
mw-4		04/21/21	1045	GW	3	3												
SS&G mw-3		04/21/21	1105	GW	3	3												
mw-26		4/21/21	1120	GW	3	3												
DUP042121 B		4/21/21	1130	GW	3	3												
VOL Trip Blank					3	3												
SPECIAL INSTRUCTIONS/COMMENTS Metals				TURNAROUND REQUIREMENTS RUSH (SURCHARGES APPLY) 1 day 2 day 3 day 4 day 5 day <input checked="" type="checkbox"/> Standard (10 business days-No Surcharge)				REPORT REQUIREMENTS I. Results Only II. Results + OC Summaries (LCS, DUP, MS/MSD as required) III. Results + OC and Calibration Summaries <input checked="" type="checkbox"/> IV. Data Validation Report with Raw Data CAT B NYSDEC EDD Edata <input checked="" type="checkbox"/> Yes ___ No				INVOICE INFORMATION PO # 21-007C BILL TO: JWolf@marksengineering.com						
STATE WHERE SAMPLES WERE COLLECTED Victor, NY				REQUESTED REPORT DATE														
RELINQUISHED BY		RECEIVED BY		RELINQUISHED BY		RECEIVED BY		RELINQUISHED BY		RECEIVED BY		RELINQUISHED BY		RECEIVED BY				
Signature Jeremy Wolf		Signature [Signature]		Signature		Signature		Signature		Signature		Signature		Signature				
Printed Name Jeremy Wolf		Printed Name [Name]		Printed Name		Printed Name		Printed Name		Printed Name		Printed Name		Printed Name				
Firm Marks Eng		Firm ALS		Firm		Firm		Firm		Firm		Firm		Firm				
Date/Time 4/23/21 1435		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time		Date/Time				

**R2103912** 5  
 Marks Engineering, PC  
 Modock Road Springs / DLS



## Volatile Organic Compounds by GC/MS

**ALS Environmental—Rochester Laboratory**  
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623  
Phone (585) 288-5380 Fax (585) 288-8475  
[www.alsglobal.com](http://www.alsglobal.com)

ALS Group USA, Corp.  
dba ALS Environmental

Analytical Report

**Client:** Marks Engineering, PC  
**Project:** Modock Road Springs / DLS/21-007C  
**Sample Matrix:** Water

**Service Request:** R2103912  
**Date Collected:** 04/21/21 08:25  
**Date Received:** 04/23/21 14:35

**Sample Name:** MW-23  
**Lab Code:** R2103912-001

**Units:** ug/L  
**Basis:** NA

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	0.97 J	1.0	0.20	1	04/28/21 00:41	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	04/28/21 00:41	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	04/28/21 00:41	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	0.20	1	04/28/21 00:41	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	04/28/21 00:41	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	04/28/21 00:41	
1,2,3-Trichlorobenzene	1.0 U	1.0	0.25	1	04/28/21 00:41	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.34	1	04/28/21 00:41	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	04/28/21 00:41	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	04/28/21 00:41	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	04/28/21 00:41	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	04/28/21 00:41	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	04/28/21 00:41	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	04/28/21 00:41	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	04/28/21 00:41	
1,4-Dioxane	40 U	40	13	1	04/28/21 00:41	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	04/28/21 00:41	
2-Hexanone	5.0 U	5.0	0.20	1	04/28/21 00:41	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	04/28/21 00:41	
Acetone	5.0 U	5.0	5.0	1	04/28/21 00:41	
Benzene	1.0 U	1.0	0.20	1	04/28/21 00:41	
Bromochloromethane	1.0 U	1.0	0.20	1	04/28/21 00:41	
Bromodichloromethane	1.0 U	1.0	0.20	1	04/28/21 00:41	
Bromoform	1.0 U	1.0	0.25	1	04/28/21 00:41	
Bromomethane	1.0 U	1.0	0.70	1	04/28/21 00:41	
Carbon Disulfide	1.0 U	1.0	0.42	1	04/28/21 00:41	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	04/28/21 00:41	
Chlorobenzene	1.0 U	1.0	0.20	1	04/28/21 00:41	
Chloroethane	1.0 U	1.0	0.23	1	04/28/21 00:41	
Chloroform	1.0 U	1.0	0.24	1	04/28/21 00:41	
Chloromethane	1.0 U	1.0	0.28	1	04/28/21 00:41	
Cyclohexane	1.0 U	1.0	0.26	1	04/28/21 00:41	
Dibromochloromethane	1.0 U	1.0	0.20	1	04/28/21 00:41	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	04/28/21 00:41	
Dichloromethane	1.0 U	1.0	0.65	1	04/28/21 00:41	
Ethylbenzene	1.0 U	1.0	0.20	1	04/28/21 00:41	
Isopropylbenzene (Cumene)	1.0 U	1.0	0.20	1	04/28/21 00:41	
Methyl Acetate	2.0 U	2.0	0.33	1	04/28/21 00:41	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	04/28/21 00:41	
Methylcyclohexane	1.0 U	1.0	0.20	1	04/28/21 00:41	
Styrene	1.0 U	1.0	0.20	1	04/28/21 00:41	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	04/28/21 00:41	
Toluene	1.0 U	1.0	0.20	1	04/28/21 00:41	

**ALS Group USA, Corp.**  
dba ALS Environmental

Analytical Report

**Client:** Marks Engineering, PC  
**Project:** Modock Road Springs / DLS/21-007C  
**Sample Matrix:** Water  
**Sample Name:** MW-23  
**Lab Code:** R2103912-001

**Service Request:** R2103912  
**Date Collected:** 04/21/21 08:25  
**Date Received:** 04/23/21 14:35

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	1.2	1.0	0.20	1	04/28/21 00:41	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	04/28/21 00:41	
Vinyl Chloride	1.0 U	1.0	0.20	1	04/28/21 00:41	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	04/28/21 00:41	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	04/28/21 00:41	
m,p-Xylenes	2.0 U	2.0	0.20	1	04/28/21 00:41	
o-Xylene	1.0 U	1.0	0.20	1	04/28/21 00:41	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	04/28/21 00:41	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	04/28/21 00:41	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	04/28/21 00:41	
Dibromofluoromethane	94	80 - 116	04/28/21 00:41	
Toluene-d8	98	87 - 121	04/28/21 00:41	

**ALS Group USA, Corp.**  
dba ALS Environmental

Analytical Report

**Client:** Marks Engineering, PC  
**Project:** Modock Road Springs / DLS/21-007C  
**Sample Matrix:** Water

**Service Request:** R2103912  
**Date Collected:** 04/21/21 08:40  
**Date Received:** 04/23/21 14:35

**Sample Name:** MW-10  
**Lab Code:** R2103912-002

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	2.6	1.0	0.20	1	04/28/21 01:03	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	04/28/21 01:03	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	04/28/21 01:03	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	0.20	1	04/28/21 01:03	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	04/28/21 01:03	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	04/28/21 01:03	
1,2,3-Trichlorobenzene	1.0 U	1.0	0.25	1	04/28/21 01:03	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.34	1	04/28/21 01:03	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	04/28/21 01:03	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	04/28/21 01:03	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	04/28/21 01:03	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	04/28/21 01:03	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	04/28/21 01:03	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	04/28/21 01:03	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	04/28/21 01:03	UJ
1,4-Dioxane	40 U	40	13	1	04/28/21 01:03	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	04/28/21 01:03	
2-Hexanone	5.0 U	5.0	0.20	1	04/28/21 01:03	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	04/28/21 01:03	
Acetone	5.0 U	5.0	5.0	1	04/28/21 01:03	
Benzene	1.0 U	1.0	0.20	1	04/28/21 01:03	
Bromochloromethane	1.0 U	1.0	0.20	1	04/28/21 01:03	
Bromodichloromethane	1.0 U	1.0	0.20	1	04/28/21 01:03	
Bromoform	1.0 U	1.0	0.25	1	04/28/21 01:03	
Bromomethane	1.0 U	1.0	0.70	1	04/28/21 01:03	
Carbon Disulfide	1.0 U	1.0	0.42	1	04/28/21 01:03	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	04/28/21 01:03	
Chlorobenzene	1.0 U	1.0	0.20	1	04/28/21 01:03	
Chloroethane	1.0 U	1.0	0.23	1	04/28/21 01:03	
Chloroform	1.0 U	1.0	0.24	1	04/28/21 01:03	
Chloromethane	1.0 U	1.0	0.28	1	04/28/21 01:03	
Cyclohexane	1.0 U	1.0	0.26	1	04/28/21 01:03	
Dibromochloromethane	1.0 U	1.0	0.20	1	04/28/21 01:03	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	04/28/21 01:03	
Dichloromethane	1.0 U	1.0	0.65	1	04/28/21 01:03	
Ethylbenzene	1.0 U	1.0	0.20	1	04/28/21 01:03	
Isopropylbenzene (Cumene)	1.0 U	1.0	0.20	1	04/28/21 01:03	
Methyl Acetate	2.0 U	2.0	0.33	1	04/28/21 01:03	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	04/28/21 01:03	
Methylcyclohexane	1.0 U	1.0	0.20	1	04/28/21 01:03	
Styrene	1.0 U	1.0	0.20	1	04/28/21 01:03	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	04/28/21 01:03	
Toluene	1.0 U	1.0	0.20	1	04/28/21 01:03	

**ALS Group USA, Corp.**  
dba ALS Environmental

Analytical Report

**Client:** Marks Engineering, PC  
**Project:** Modock Road Springs / DLS/21-007C  
**Sample Matrix:** Water  
**Sample Name:** MW-10  
**Lab Code:** R2103912-002

**Service Request:** R2103912  
**Date Collected:** 04/21/21 08:40  
**Date Received:** 04/23/21 14:35

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	0.46 J	1.0	0.20	1	04/28/21 01:03	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	04/28/21 01:03	
Vinyl Chloride	1.0 U	1.0	0.20	1	04/28/21 01:03	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	04/28/21 01:03	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	04/28/21 01:03	
m,p-Xylenes	2.0 U	2.0	0.20	1	04/28/21 01:03	
o-Xylene	1.0 U	1.0	0.20	1	04/28/21 01:03	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	04/28/21 01:03	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	04/28/21 01:03	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	04/28/21 01:03	
Dibromofluoromethane	94	80 - 116	04/28/21 01:03	
Toluene-d8	97	87 - 121	04/28/21 01:03	

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Analytical Report

**Client:** Marks Engineering, PC  
**Project:** Modock Road Springs / DLS/21-007C  
**Sample Matrix:** Water

**Service Request:** R2103912  
**Date Collected:** 04/21/21 09:00  
**Date Received:** 04/23/21 14:35

**Sample Name:** MW-24S  
**Lab Code:** R2103912-003

**Units:** ug/L  
**Basis:** NA

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	<b>13</b>	1.0	0.20	1	04/29/21 18:42	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	04/29/21 18:42	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	04/29/21 18:42	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	0.20	1	04/29/21 18:42	
1,1-Dichloroethane (1,1-DCA)	<b>1.4</b>	1.0	0.20	1	04/29/21 18:42	
1,1-Dichloroethene (1,1-DCE)	<b>5.1</b>	1.0	0.20	1	04/29/21 18:42	
1,2,3-Trichlorobenzene	1.0 U	1.0	0.25	1	04/29/21 18:42	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.34	1	04/29/21 18:42	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	04/29/21 18:42	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	04/29/21 18:42	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	04/29/21 18:42	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	04/29/21 18:42	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	04/29/21 18:42	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	04/29/21 18:42	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	04/29/21 18:42	
1,4-Dioxane	40 U	40	13	1	04/29/21 18:42	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	04/29/21 18:42	
2-Hexanone	5.0 U	5.0	0.20	1	04/29/21 18:42	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	04/29/21 18:42	
Acetone	5.0 U	5.0	5.0	1	04/29/21 18:42	
Benzene	1.0 U	1.0	0.20	1	04/29/21 18:42	
Bromochloromethane	1.0 U	1.0	0.20	1	04/29/21 18:42	
Bromodichloromethane	1.0 U	1.0	0.20	1	04/29/21 18:42	
Bromoform	1.0 U	1.0	0.25	1	04/29/21 18:42	
Bromomethane	1.0 U	1.0	0.70	1	04/29/21 18:42	
Carbon Disulfide	1.0 U	1.0	0.42	1	04/29/21 18:42	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	04/29/21 18:42	
Chlorobenzene	1.0 U	1.0	0.20	1	04/29/21 18:42	
Chloroethane	1.0 U	1.0	0.23	1	04/29/21 18:42	
Chloroform	1.0 U	1.0	0.24	1	04/29/21 18:42	
Chloromethane	1.0 U	1.0	0.28	1	04/29/21 18:42	
Cyclohexane	1.0 U	1.0	0.26	1	04/29/21 18:42	
Dibromochloromethane	1.0 U	1.0	0.20	1	04/29/21 18:42	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	04/29/21 18:42	
Dichloromethane	1.0 U	1.0	0.65	1	04/29/21 18:42	
Ethylbenzene	1.0 U	1.0	0.20	1	04/29/21 18:42	
Isopropylbenzene (Cumene)	1.0 U	1.0	0.20	1	04/29/21 18:42	
Methyl Acetate	2.0 U	2.0	0.33	1	04/29/21 18:42	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	04/29/21 18:42	
Methylcyclohexane	1.0 U	1.0	0.20	1	04/29/21 18:42	
Styrene	1.0 U	1.0	0.20	1	04/29/21 18:42	
Tetrachloroethene (PCE)	<b>0.26 J</b>	1.0	0.21	1	04/29/21 18:42	
Toluene	1.0 U	1.0	0.20	1	04/29/21 18:42	

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Analytical Report

**Client:** Marks Engineering, PC  
**Project:** Modock Road Springs / DLS/21-007C  
**Sample Matrix:** Water  
**Sample Name:** MW-24S  
**Lab Code:** R2103912-003

**Service Request:** R2103912  
**Date Collected:** 04/21/21 09:00  
**Date Received:** 04/23/21 14:35

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	<b>63</b>	1.0	0.20	1	04/29/21 18:42	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	04/29/21 18:42	
Vinyl Chloride	1.0 U	1.0	0.20	1	04/29/21 18:42	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	04/29/21 18:42	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	04/29/21 18:42	
m,p-Xylenes	2.0 U	2.0	0.20	1	04/29/21 18:42	
o-Xylene	1.0 U	1.0	0.20	1	04/29/21 18:42	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	04/29/21 18:42	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	04/29/21 18:42	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	85 - 122	04/29/21 18:42	
Dibromofluoromethane	100	80 - 116	04/29/21 18:42	
Toluene-d8	101	87 - 121	04/29/21 18:42	



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Analytical Report

**Client:** Marks Engineering, PC  
**Project:** Modock Road Springs / DLS/21-007C  
**Sample Matrix:** Water

**Service Request:** R2103912  
**Date Collected:** 04/21/21 09:15  
**Date Received:** 04/23/21 14:35

**Sample Name:** MW-15  
**Lab Code:** R2103912-004

**Units:** ug/L  
**Basis:** NA

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	26	1.0	0.20	1	04/29/21 16:54	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	04/29/21 16:54	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	04/29/21 16:54	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	0.20	1	04/29/21 16:54	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	04/29/21 16:54	
1,1-Dichloroethene (1,1-DCE)	5.5	1.0	0.20	1	04/29/21 16:54	J
1,2,3-Trichlorobenzene	1.0 U	1.0	0.25	1	04/29/21 16:54	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.34	1	04/29/21 16:54	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	04/29/21 16:54	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	04/29/21 16:54	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	04/29/21 16:54	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	04/29/21 16:54	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	04/29/21 16:54	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	04/29/21 16:54	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	04/29/21 16:54	
1,4-Dioxane	40 U	40	13	1	04/29/21 16:54	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	04/29/21 16:54	
2-Hexanone	5.0 U	5.0	0.20	1	04/29/21 16:54	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	04/29/21 16:54	
Acetone	5.0 U	5.0	5.0	1	04/29/21 16:54	
Benzene	1.0 U	1.0	0.20	1	04/29/21 16:54	
Bromochloromethane	1.0 U	1.0	0.20	1	04/29/21 16:54	
Bromodichloromethane	1.0 U	1.0	0.20	1	04/29/21 16:54	
Bromoform	1.0 U	1.0	0.25	1	04/29/21 16:54	
Bromomethane	1.0 U	1.0	0.70	1	04/29/21 16:54	
Carbon Disulfide	1.0 U	1.0	0.42	1	04/29/21 16:54	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	04/29/21 16:54	
Chlorobenzene	1.0 U	1.0	0.20	1	04/29/21 16:54	
Chloroethane	1.0 U	1.0	0.23	1	04/29/21 16:54	
Chloroform	1.0 U	1.0	0.24	1	04/29/21 16:54	
Chloromethane	1.0 U	1.0	0.28	1	04/29/21 16:54	
Cyclohexane	1.0 U	1.0	0.26	1	04/29/21 16:54	
Dibromochloromethane	1.0 U	1.0	0.20	1	04/29/21 16:54	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	04/29/21 16:54	
Dichloromethane	1.0 U	1.0	0.65	1	04/29/21 16:54	
Ethylbenzene	1.0 U	1.0	0.20	1	04/29/21 16:54	
Isopropylbenzene (Cumene)	1.0 U	1.0	0.20	1	04/29/21 16:54	
Methyl Acetate	2.0 U	2.0	0.33	1	04/29/21 16:54	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	04/29/21 16:54	
Methylcyclohexane	1.0 U	1.0	0.20	1	04/29/21 16:54	
Styrene	1.0 U	1.0	0.20	1	04/29/21 16:54	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	04/29/21 16:54	
Toluene	1.0 U	1.0	0.20	1	04/29/21 16:54	

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Analytical Report

**Client:** Marks Engineering, PC  
**Project:** Modock Road Springs / DLS/21-007C  
**Sample Matrix:** Water  
**Sample Name:** MW-15  
**Lab Code:** R2103912-004

**Service Request:** R2103912  
**Date Collected:** 04/21/21 09:15  
**Date Received:** 04/23/21 14:35

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	1.8	1.0	0.20	1	04/29/21 16:54	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	04/29/21 16:54	
Vinyl Chloride	1.0 U	1.0	0.20	1	04/29/21 16:54	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	04/29/21 16:54	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	04/29/21 16:54	
m,p-Xylenes	2.0 U	2.0	0.20	1	04/29/21 16:54	
o-Xylene	1.0 U	1.0	0.20	1	04/29/21 16:54	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	04/29/21 16:54	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	04/29/21 16:54	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	87	85 - 122	04/29/21 16:54	
Dibromofluoromethane	94	80 - 116	04/29/21 16:54	
Toluene-d8	96	87 - 121	04/29/21 16:54	

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Analytical Report

**Client:** Marks Engineering, PC  
**Project:** Modock Road Springs / DLS/21-007C  
**Sample Matrix:** Water

**Service Request:** R2103912  
**Date Collected:** 04/21/21 09:25  
**Date Received:** 04/23/21 14:35

**Sample Name:** MW-13  
**Lab Code:** R2103912-005

**Units:** ug/L  
**Basis:** NA

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	<b>36</b>	1.0	0.20	1	04/29/21 19:04	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	04/29/21 19:04	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	04/29/21 19:04	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	0.20	1	04/29/21 19:04	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	04/29/21 19:04	
1,1-Dichloroethene (1,1-DCE)	<b>7.2</b>	1.0	0.20	1	04/29/21 19:04	
1,2,3-Trichlorobenzene	1.0 U	1.0	0.25	1	04/29/21 19:04	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.34	1	04/29/21 19:04	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	04/29/21 19:04	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	04/29/21 19:04	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	04/29/21 19:04	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	04/29/21 19:04	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	04/29/21 19:04	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	04/29/21 19:04	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	04/29/21 19:04	
1,4-Dioxane	40 U	40	13	1	04/29/21 19:04	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	04/29/21 19:04	
2-Hexanone	5.0 U	5.0	0.20	1	04/29/21 19:04	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	04/29/21 19:04	
Acetone	5.0 U	5.0	5.0	1	04/29/21 19:04	
Benzene	1.0 U	1.0	0.20	1	04/29/21 19:04	
Bromochloromethane	1.0 U	1.0	0.20	1	04/29/21 19:04	
Bromodichloromethane	1.0 U	1.0	0.20	1	04/29/21 19:04	
Bromoform	1.0 U	1.0	0.25	1	04/29/21 19:04	
Bromomethane	1.0 U	1.0	0.70	1	04/29/21 19:04	
Carbon Disulfide	1.0 U	1.0	0.42	1	04/29/21 19:04	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	04/29/21 19:04	
Chlorobenzene	1.0 U	1.0	0.20	1	04/29/21 19:04	
Chloroethane	1.0 U	1.0	0.23	1	04/29/21 19:04	
Chloroform	1.0 U	1.0	0.24	1	04/29/21 19:04	
Chloromethane	1.0 U	1.0	0.28	1	04/29/21 19:04	
Cyclohexane	1.0 U	1.0	0.26	1	04/29/21 19:04	
Dibromochloromethane	1.0 U	1.0	0.20	1	04/29/21 19:04	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	04/29/21 19:04	
Dichloromethane	1.0 U	1.0	0.65	1	04/29/21 19:04	
Ethylbenzene	1.0 U	1.0	0.20	1	04/29/21 19:04	
Isopropylbenzene (Cumene)	1.0 U	1.0	0.20	1	04/29/21 19:04	
Methyl Acetate	2.0 U	2.0	0.33	1	04/29/21 19:04	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	04/29/21 19:04	
Methylcyclohexane	1.0 U	1.0	0.20	1	04/29/21 19:04	
Styrene	1.0 U	1.0	0.20	1	04/29/21 19:04	
Tetrachloroethene (PCE)	<b>0.35 J</b>	1.0	0.21	1	04/29/21 19:04	
Toluene	1.0 U	1.0	0.20	1	04/29/21 19:04	

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Analytical Report

**Client:** Marks Engineering, PC  
**Project:** Modock Road Springs / DLS/21-007C  
**Sample Matrix:** Water  
**Sample Name:** MW-13  
**Lab Code:** R2103912-005

**Service Request:** R2103912  
**Date Collected:** 04/21/21 09:25  
**Date Received:** 04/23/21 14:35

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	<b>44</b>	1.0	0.20	1	04/29/21 19:04	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	04/29/21 19:04	
Vinyl Chloride	1.0 U	1.0	0.20	1	04/29/21 19:04	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	04/29/21 19:04	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	04/29/21 19:04	
m,p-Xylenes	2.0 U	2.0	0.20	1	04/29/21 19:04	
o-Xylene	1.0 U	1.0	0.20	1	04/29/21 19:04	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	04/29/21 19:04	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	04/29/21 19:04	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	91	85 - 122	04/29/21 19:04	
Dibromofluoromethane	93	80 - 116	04/29/21 19:04	
Toluene-d8	97	87 - 121	04/29/21 19:04	

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Analytical Report

**Client:** Marks Engineering, PC  
**Project:** Modock Road Springs / DLS/21-007C  
**Sample Matrix:** Water

**Service Request:** R2103912  
**Date Collected:** 04/21/21 09:35  
**Date Received:** 04/23/21 14:35

**Sample Name:** MW-14  
**Lab Code:** R2103912-006

**Units:** ug/L  
**Basis:** NA

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	12	1.0	0.20	1	04/29/21 17:16	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	04/29/21 17:16	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	04/29/21 17:16	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	0.20	1	04/29/21 17:16	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	04/29/21 17:16	
1,1-Dichloroethene (1,1-DCE)	1.9	1.0	0.20	1	04/29/21 17:16	
1,2,3-Trichlorobenzene	1.0 U	1.0	0.25	1	04/29/21 17:16	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.34	1	04/29/21 17:16	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	04/29/21 17:16	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	04/29/21 17:16	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	04/29/21 17:16	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	04/29/21 17:16	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	04/29/21 17:16	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	04/29/21 17:16	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	04/29/21 17:16	
1,4-Dioxane	40 U	40	13	1	04/29/21 17:16	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	04/29/21 17:16	
2-Hexanone	5.0 U	5.0	0.20	1	04/29/21 17:16	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	04/29/21 17:16	
Acetone	5.0 U	5.0	5.0	1	04/29/21 17:16	
Benzene	1.0 U	1.0	0.20	1	04/29/21 17:16	
Bromochloromethane	1.0 U	1.0	0.20	1	04/29/21 17:16	
Bromodichloromethane	1.0 U	1.0	0.20	1	04/29/21 17:16	
Bromoform	1.0 U	1.0	0.25	1	04/29/21 17:16	
Bromomethane	1.0 U	1.0	0.70	1	04/29/21 17:16	
Carbon Disulfide	1.0 U	1.0	0.42	1	04/29/21 17:16	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	04/29/21 17:16	
Chlorobenzene	1.0 U	1.0	0.20	1	04/29/21 17:16	
Chloroethane	1.0 U	1.0	0.23	1	04/29/21 17:16	
Chloroform	1.0 U	1.0	0.24	1	04/29/21 17:16	
Chloromethane	1.0 U	1.0	0.28	1	04/29/21 17:16	
Cyclohexane	1.0 U	1.0	0.26	1	04/29/21 17:16	
Dibromochloromethane	1.0 U	1.0	0.20	1	04/29/21 17:16	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	04/29/21 17:16	
Dichloromethane	1.0 U	1.0	0.65	1	04/29/21 17:16	
Ethylbenzene	1.0 U	1.0	0.20	1	04/29/21 17:16	
Isopropylbenzene (Cumene)	1.0 U	1.0	0.20	1	04/29/21 17:16	
Methyl Acetate	2.0 U	2.0	0.33	1	04/29/21 17:16	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	04/29/21 17:16	
Methylcyclohexane	1.0 U	1.0	0.20	1	04/29/21 17:16	
Styrene	1.0 U	1.0	0.20	1	04/29/21 17:16	
Tetrachloroethene (PCE)	0.72 J	1.0	0.21	1	04/29/21 17:16	
Toluene	1.0 U	1.0	0.20	1	04/29/21 17:16	

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Analytical Report

**Client:** Marks Engineering, PC  
**Project:** Modock Road Springs / DLS/21-007C  
**Sample Matrix:** Water

**Service Request:** R2103912  
**Date Collected:** 04/21/21 09:35  
**Date Received:** 04/23/21 14:35

**Sample Name:** MW-14  
**Lab Code:** R2103912-006

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	47	1.0	0.20	1	04/29/21 17:16	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	04/29/21 17:16	
Vinyl Chloride	1.0 U	1.0	0.20	1	04/29/21 17:16	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	04/29/21 17:16	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	04/29/21 17:16	
m,p-Xylenes	2.0 U	2.0	0.20	1	04/29/21 17:16	
o-Xylene	1.0 U	1.0	0.20	1	04/29/21 17:16	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	04/29/21 17:16	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	04/29/21 17:16	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	91	85 - 122	04/29/21 17:16	
Dibromofluoromethane	98	80 - 116	04/29/21 17:16	
Toluene-d8	99	87 - 121	04/29/21 17:16	

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Analytical Report

**Client:** Marks Engineering, PC  
**Project:** Modock Road Springs / DLS/21-007C  
**Sample Matrix:** Water

**Service Request:** R2103912  
**Date Collected:** 04/21/21 09:45  
**Date Received:** 04/23/21 14:35

**Sample Name:** MW-17S  
**Lab Code:** R2103912-007

**Units:** ug/L  
**Basis:** NA

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	20	2.5	0.50	2.5	04/29/21 20:30	
1,1,2,2-Tetrachloroethane	2.5 U	2.5	0.50	2.5	04/29/21 20:30	
1,1,2-Trichloroethane	0.73 J	2.5	0.50	2.5	04/29/21 20:30	
1,1,2-Trichloro-1,2,2-trifluoroethane	2.5 U	2.5	0.50	2.5	04/29/21 20:30	
1,1-Dichloroethane (1,1-DCA)	2.5 U	2.5	0.50	2.5	04/29/21 20:30	
1,1-Dichloroethene (1,1-DCE)	4.2	2.5	0.50	2.5	04/29/21 20:30	
1,2,3-Trichlorobenzene	2.5 U	2.5	0.63	2.5	04/29/21 20:30	
1,2,4-Trichlorobenzene	2.5 U	2.5	0.85	2.5	04/29/21 20:30	
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0	1.2	2.5	04/29/21 20:30	
1,2-Dibromoethane	2.5 U	2.5	0.50	2.5	04/29/21 20:30	
1,2-Dichlorobenzene	2.5 U	2.5	0.50	2.5	04/29/21 20:30	
1,2-Dichloroethane	2.5 U	2.5	0.50	2.5	04/29/21 20:30	
1,2-Dichloropropane	2.5 U	2.5	0.50	2.5	04/29/21 20:30	
1,3-Dichlorobenzene	2.5 U	2.5	0.50	2.5	04/29/21 20:30	
1,4-Dichlorobenzene	2.5 U	2.5	0.50	2.5	04/29/21 20:30	
1,4-Dioxane	100 U	100	33	2.5	04/29/21 20:30	
2-Butanone (MEK)	13 U	13	2.0	2.5	04/29/21 20:30	
2-Hexanone	13 U	13	0.50	2.5	04/29/21 20:30	
4-Methyl-2-pentanone	13 U	13	0.50	2.5	04/29/21 20:30	
Acetone	13 U	13	13	2.5	04/29/21 20:30	
Benzene	2.5 U	2.5	0.50	2.5	04/29/21 20:30	
Bromochloromethane	2.5 U	2.5	0.50	2.5	04/29/21 20:30	
Bromodichloromethane	2.5 U	2.5	0.50	2.5	04/29/21 20:30	
Bromoform	2.5 U	2.5	0.63	2.5	04/29/21 20:30	
Bromomethane	2.5 U	2.5	1.8	2.5	04/29/21 20:30	
Carbon Disulfide	2.5 U	2.5	1.1	2.5	04/29/21 20:30	
Carbon Tetrachloride	2.5 U	2.5	0.85	2.5	04/29/21 20:30	
Chlorobenzene	2.5 U	2.5	0.50	2.5	04/29/21 20:30	
Chloroethane	2.5 U	2.5	0.58	2.5	04/29/21 20:30	
Chloroform	2.5 U	2.5	0.60	2.5	04/29/21 20:30	
Chloromethane	2.5 U	2.5	0.70	2.5	04/29/21 20:30	
Cyclohexane	2.5 U	2.5	0.65	2.5	04/29/21 20:30	
Dibromochloromethane	2.5 U	2.5	0.50	2.5	04/29/21 20:30	
Dichlorodifluoromethane (CFC 12)	2.5 U	2.5	0.53	2.5	04/29/21 20:30	
Dichloromethane	2.5 U	2.5	1.7	2.5	04/29/21 20:30	
Ethylbenzene	2.5 U	2.5	0.50	2.5	04/29/21 20:30	
Isopropylbenzene (Cumene)	2.5 U	2.5	0.50	2.5	04/29/21 20:30	
Methyl Acetate	5.0 U	5.0	0.83	2.5	04/29/21 20:30	
Methyl tert-Butyl Ether	2.5 U	2.5	0.50	2.5	04/29/21 20:30	
Methylcyclohexane	2.5 U	2.5	0.50	2.5	04/29/21 20:30	
Styrene	2.5 U	2.5	0.50	2.5	04/29/21 20:30	
Tetrachloroethene (PCE)	1.2 J	2.5	0.53	2.5	04/29/21 20:30	
Toluene	2.5 U	2.5	0.50	2.5	04/29/21 20:30	

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Analytical Report

**Client:** Marks Engineering, PC  
**Project:** Modock Road Springs / DLS/21-007C  
**Sample Matrix:** Water  
**Sample Name:** MW-17S  
**Lab Code:** R2103912-007

**Service Request:** R2103912  
**Date Collected:** 04/21/21 09:45  
**Date Received:** 04/23/21 14:35

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	280	2.5	0.50	2.5	04/29/21 20:30	
Trichlorofluoromethane (CFC 11)	2.5 U	2.5	0.60	2.5	04/29/21 20:30	
Vinyl Chloride	2.5 U	2.5	0.50	2.5	04/29/21 20:30	
cis-1,2-Dichloroethene	2.5 U	2.5	0.58	2.5	04/29/21 20:30	
cis-1,3-Dichloropropene	2.5 U	2.5	0.50	2.5	04/29/21 20:30	
m,p-Xylenes	5.0 U	5.0	0.50	2.5	04/29/21 20:30	
o-Xylene	2.5 U	2.5	0.50	2.5	04/29/21 20:30	
trans-1,2-Dichloroethene	2.5 U	2.5	0.50	2.5	04/29/21 20:30	
trans-1,3-Dichloropropene	2.5 U	2.5	0.58	2.5	04/29/21 20:30	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	90	85 - 122	04/29/21 20:30	
Dibromofluoromethane	95	80 - 116	04/29/21 20:30	
Toluene-d8	99	87 - 121	04/29/21 20:30	



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Analytical Report

**Client:** Marks Engineering, PC  
**Project:** Modock Road Springs / DLS/21-007C  
**Sample Matrix:** Water

**Service Request:** R2103912  
**Date Collected:** 04/21/21 10:00  
**Date Received:** 04/23/21 14:35

**Sample Name:** MW-16  
**Lab Code:** R2103912-008

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	17	1.0	0.20	1	04/29/21 19:25	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	04/29/21 19:25	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	04/29/21 19:25	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	0.20	1	04/29/21 19:25	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	04/29/21 19:25	
1,1-Dichloroethene (1,1-DCE)	4.1	1.0	0.20	1	04/29/21 19:25	
1,2,3-Trichlorobenzene	1.0 U	1.0	0.25	1	04/29/21 19:25	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.34	1	04/29/21 19:25	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	04/29/21 19:25	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	04/29/21 19:25	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	04/29/21 19:25	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	04/29/21 19:25	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	04/29/21 19:25	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	04/29/21 19:25	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	04/29/21 19:25	
1,4-Dioxane	40 U	40	13	1	04/29/21 19:25	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	04/29/21 19:25	
2-Hexanone	5.0 U	5.0	0.20	1	04/29/21 19:25	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	04/29/21 19:25	
Acetone	5.0 U	5.0	5.0	1	04/29/21 19:25	
Benzene	1.0 U	1.0	0.20	1	04/29/21 19:25	
Bromochloromethane	1.0 U	1.0	0.20	1	04/29/21 19:25	
Bromodichloromethane	1.0 U	1.0	0.20	1	04/29/21 19:25	
Bromoform	1.0 U	1.0	0.25	1	04/29/21 19:25	
Bromomethane	1.0 U	1.0	0.70	1	04/29/21 19:25	
Carbon Disulfide	1.0 U	1.0	0.42	1	04/29/21 19:25	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	04/29/21 19:25	
Chlorobenzene	1.0 U	1.0	0.20	1	04/29/21 19:25	
Chloroethane	1.0 U	1.0	0.23	1	04/29/21 19:25	
Chloroform	1.0 U	1.0	0.24	1	04/29/21 19:25	
Chloromethane	1.0 U	1.0	0.28	1	04/29/21 19:25	
Cyclohexane	1.0 U	1.0	0.26	1	04/29/21 19:25	
Dibromochloromethane	1.0 U	1.0	0.20	1	04/29/21 19:25	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	04/29/21 19:25	
Dichloromethane	1.0 U	1.0	0.65	1	04/29/21 19:25	
Ethylbenzene	1.0 U	1.0	0.20	1	04/29/21 19:25	
Isopropylbenzene (Cumene)	1.0 U	1.0	0.20	1	04/29/21 19:25	
Methyl Acetate	2.0 U	2.0	0.33	1	04/29/21 19:25	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	04/29/21 19:25	
Methylcyclohexane	1.0 U	1.0	0.20	1	04/29/21 19:25	
Styrene	1.0 U	1.0	0.20	1	04/29/21 19:25	
Tetrachloroethene (PCE)	0.44 J	1.0	0.21	1	04/29/21 19:25	
Toluene	1.0 U	1.0	0.20	1	04/29/21 19:25	

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Analytical Report

**Client:** Marks Engineering, PC  
**Project:** Modock Road Springs / DLS/21-007C  
**Sample Matrix:** Water  
**Sample Name:** MW-16  
**Lab Code:** R2103912-008

**Service Request:** R2103912  
**Date Collected:** 04/21/21 10:00  
**Date Received:** 04/23/21 14:35

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	<b>130</b>	1.0	0.20	1	04/29/21 19:25	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	04/29/21 19:25	
Vinyl Chloride	1.0 U	1.0	0.20	1	04/29/21 19:25	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	04/29/21 19:25	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	04/29/21 19:25	
m,p-Xylenes	2.0 U	2.0	0.20	1	04/29/21 19:25	
o-Xylene	1.0 U	1.0	0.20	1	04/29/21 19:25	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	04/29/21 19:25	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	04/29/21 19:25	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	88	85 - 122	04/29/21 19:25	
Dibromofluoromethane	96	80 - 116	04/29/21 19:25	
Toluene-d8	98	87 - 121	04/29/21 19:25	

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Analytical Report

**Client:** Marks Engineering, PC  
**Project:** Modock Road Springs / DLS/21-007C  
**Sample Matrix:** Water

**Service Request:** R2103912  
**Date Collected:** 04/21/21 10:15  
**Date Received:** 04/23/21 14:35

**Sample Name:** EB042121  
**Lab Code:** R2103912-009

**Units:** ug/L  
**Basis:** NA

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	04/28/21 00:19	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	04/28/21 00:19	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	04/28/21 00:19	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	0.20	1	04/28/21 00:19	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	04/28/21 00:19	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	04/28/21 00:19	
1,2,3-Trichlorobenzene	1.0 U	1.0	0.25	1	04/28/21 00:19	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.34	1	04/28/21 00:19	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	04/28/21 00:19	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	04/28/21 00:19	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	04/28/21 00:19	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	04/28/21 00:19	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	04/28/21 00:19	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	04/28/21 00:19	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	04/28/21 00:19	
1,4-Dioxane	40 U	40	13	1	04/28/21 00:19	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	04/28/21 00:19	
2-Hexanone	5.0 U	5.0	0.20	1	04/28/21 00:19	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	04/28/21 00:19	
Acetone	5.0 U	5.0	5.0	1	04/28/21 00:19	
Benzene	1.0 U	1.0	0.20	1	04/28/21 00:19	
Bromochloromethane	1.0 U	1.0	0.20	1	04/28/21 00:19	
Bromodichloromethane	1.0 U	1.0	0.20	1	04/28/21 00:19	
Bromoform	1.0 U	1.0	0.25	1	04/28/21 00:19	
Bromomethane	1.0 U	1.0	0.70	1	04/28/21 00:19	
Carbon Disulfide	1.0 U	1.0	0.42	1	04/28/21 00:19	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	04/28/21 00:19	
Chlorobenzene	1.0 U	1.0	0.20	1	04/28/21 00:19	
Chloroethane	1.0 U	1.0	0.23	1	04/28/21 00:19	
Chloroform	1.0 U	1.0	0.24	1	04/28/21 00:19	
Chloromethane	1.0 U	1.0	0.28	1	04/28/21 00:19	
Cyclohexane	1.0 U	1.0	0.26	1	04/28/21 00:19	
Dibromochloromethane	1.0 U	1.0	0.20	1	04/28/21 00:19	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	04/28/21 00:19	
Dichloromethane	1.0 U	1.0	0.65	1	04/28/21 00:19	
Ethylbenzene	1.0 U	1.0	0.20	1	04/28/21 00:19	
Isopropylbenzene (Cumene)	1.0 U	1.0	0.20	1	04/28/21 00:19	
Methyl Acetate	2.0 U	2.0	0.33	1	04/28/21 00:19	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	04/28/21 00:19	
Methylcyclohexane	1.0 U	1.0	0.20	1	04/28/21 00:19	
Styrene	1.0 U	1.0	0.20	1	04/28/21 00:19	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	04/28/21 00:19	
Toluene	1.0 U	1.0	0.20	1	04/28/21 00:19	

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Analytical Report

**Client:** Marks Engineering, PC  
**Project:** Modock Road Springs / DLS/21-007C  
**Sample Matrix:** Water

**Service Request:** R2103912  
**Date Collected:** 04/21/21 10:15  
**Date Received:** 04/23/21 14:35

**Sample Name:** EB042121  
**Lab Code:** R2103912-009

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	04/28/21 00:19	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	04/28/21 00:19	
Vinyl Chloride	1.0 U	1.0	0.20	1	04/28/21 00:19	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	04/28/21 00:19	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	04/28/21 00:19	
m,p-Xylenes	2.0 U	2.0	0.20	1	04/28/21 00:19	
o-Xylene	1.0 U	1.0	0.20	1	04/28/21 00:19	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	04/28/21 00:19	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	04/28/21 00:19	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	85 - 122	04/28/21 00:19	
Dibromofluoromethane	94	80 - 116	04/28/21 00:19	
Toluene-d8	98	87 - 121	04/28/21 00:19	

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Analytical Report

**Client:** Marks Engineering, PC  
**Project:** Modock Road Springs / DLS/21-007C  
**Sample Matrix:** Water

**Service Request:** R2103912  
**Date Collected:** 04/21/21 10:25  
**Date Received:** 04/23/21 14:35

**Sample Name:** SC-01  
**Lab Code:** R2103912-010

**Units:** ug/L  
**Basis:** NA

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	6.8	1.0	0.20	1	04/29/21 17:37	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	04/29/21 17:37	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	04/29/21 17:37	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	0.20	1	04/29/21 17:37	
1,1-Dichloroethane (1,1-DCA)	0.44 J	1.0	0.20	1	04/29/21 17:37	
1,1-Dichloroethene (1,1-DCE)	1.7	1.0	0.20	1	04/29/21 17:37	
1,2,3-Trichlorobenzene	1.0 U	1.0	0.25	1	04/29/21 17:37	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.34	1	04/29/21 17:37	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	04/29/21 17:37	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	04/29/21 17:37	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	04/29/21 17:37	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	04/29/21 17:37	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	04/29/21 17:37	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	04/29/21 17:37	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	04/29/21 17:37	
1,4-Dioxane	40 U	40	13	1	04/29/21 17:37	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	04/29/21 17:37	
2-Hexanone	5.0 U	5.0	0.20	1	04/29/21 17:37	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	04/29/21 17:37	
Acetone	5.0 U	5.0	5.0	1	04/29/21 17:37	
Benzene	1.0 U	1.0	0.20	1	04/29/21 17:37	
Bromochloromethane	1.0 U	1.0	0.20	1	04/29/21 17:37	
Bromodichloromethane	1.0 U	1.0	0.20	1	04/29/21 17:37	
Bromoform	1.0 U	1.0	0.25	1	04/29/21 17:37	
Bromomethane	1.0 U	1.0	0.70	1	04/29/21 17:37	
Carbon Disulfide	1.0 U	1.0	0.42	1	04/29/21 17:37	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	04/29/21 17:37	
Chlorobenzene	1.0 U	1.0	0.20	1	04/29/21 17:37	
Chloroethane	1.0 U	1.0	0.23	1	04/29/21 17:37	
Chloroform	1.0 U	1.0	0.24	1	04/29/21 17:37	
Chloromethane	1.0 U	1.0	0.28	1	04/29/21 17:37	
Cyclohexane	1.0 U	1.0	0.26	1	04/29/21 17:37	
Dibromochloromethane	1.0 U	1.0	0.20	1	04/29/21 17:37	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	04/29/21 17:37	
Dichloromethane	1.0 U	1.0	0.65	1	04/29/21 17:37	
Ethylbenzene	1.0 U	1.0	0.20	1	04/29/21 17:37	
Isopropylbenzene (Cumene)	1.0 U	1.0	0.20	1	04/29/21 17:37	
Methyl Acetate	2.0 U	2.0	0.33	1	04/29/21 17:37	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	04/29/21 17:37	
Methylcyclohexane	1.0 U	1.0	0.20	1	04/29/21 17:37	
Styrene	1.0 U	1.0	0.20	1	04/29/21 17:37	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	04/29/21 17:37	
Toluene	1.0 U	1.0	0.20	1	04/29/21 17:37	

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Analytical Report

**Client:** Marks Engineering, PC  
**Project:** Modock Road Springs / DLS/21-007C  
**Sample Matrix:** Water  
**Sample Name:** SC-01  
**Lab Code:** R2103912-010

**Service Request:** R2103912  
**Date Collected:** 04/21/21 10:25  
**Date Received:** 04/23/21 14:35

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	33	1.0	0.20	1	04/29/21 17:37	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	04/29/21 17:37	
Vinyl Chloride	1.0 U	1.0	0.20	1	04/29/21 17:37	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	04/29/21 17:37	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	04/29/21 17:37	
m,p-Xylenes	2.0 U	2.0	0.20	1	04/29/21 17:37	
o-Xylene	1.0 U	1.0	0.20	1	04/29/21 17:37	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	04/29/21 17:37	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	04/29/21 17:37	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	92	85 - 122	04/29/21 17:37	
Dibromofluoromethane	100	80 - 116	04/29/21 17:37	
Toluene-d8	103	87 - 121	04/29/21 17:37	

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Analytical Report

**Client:** Marks Engineering, PC  
**Project:** Modock Road Springs / DLS/21-007C  
**Sample Matrix:** Water

**Service Request:** R2103912  
**Date Collected:** 04/21/21 10:35  
**Date Received:** 04/23/21 14:35

**Sample Name:** DUP042121A  
**Lab Code:** R2103912-011

**Units:** ug/L  
**Basis:** NA

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	6.5	1.0	0.20	1	04/29/21 17:59	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	04/29/21 17:59	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	04/29/21 17:59	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	0.20	1	04/29/21 17:59	
1,1-Dichloroethane (1,1-DCA)	0.43 J	1.0	0.20	1	04/29/21 17:59	
1,1-Dichloroethene (1,1-DCE)	2.0	1.0	0.20	1	04/29/21 17:59	
1,2,3-Trichlorobenzene	1.0 U	1.0	0.25	1	04/29/21 17:59	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.34	1	04/29/21 17:59	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	04/29/21 17:59	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	04/29/21 17:59	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	04/29/21 17:59	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	04/29/21 17:59	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	04/29/21 17:59	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	04/29/21 17:59	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	04/29/21 17:59	
1,4-Dioxane	40 U	40	13	1	04/29/21 17:59	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	04/29/21 17:59	
2-Hexanone	5.0 U	5.0	0.20	1	04/29/21 17:59	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	04/29/21 17:59	
Acetone	5.0 U	5.0	5.0	1	04/29/21 17:59	
Benzene	1.0 U	1.0	0.20	1	04/29/21 17:59	
Bromochloromethane	1.0 U	1.0	0.20	1	04/29/21 17:59	
Bromodichloromethane	1.0 U	1.0	0.20	1	04/29/21 17:59	
Bromoform	1.0 U	1.0	0.25	1	04/29/21 17:59	
Bromomethane	1.0 U	1.0	0.70	1	04/29/21 17:59	
Carbon Disulfide	1.0 U	1.0	0.42	1	04/29/21 17:59	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	04/29/21 17:59	
Chlorobenzene	1.0 U	1.0	0.20	1	04/29/21 17:59	
Chloroethane	1.0 U	1.0	0.23	1	04/29/21 17:59	
Chloroform	1.0 U	1.0	0.24	1	04/29/21 17:59	
Chloromethane	1.0 U	1.0	0.28	1	04/29/21 17:59	
Cyclohexane	1.0 U	1.0	0.26	1	04/29/21 17:59	
Dibromochloromethane	1.0 U	1.0	0.20	1	04/29/21 17:59	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	04/29/21 17:59	
Dichloromethane	1.0 U	1.0	0.65	1	04/29/21 17:59	
Ethylbenzene	1.0 U	1.0	0.20	1	04/29/21 17:59	
Isopropylbenzene (Cumene)	1.0 U	1.0	0.20	1	04/29/21 17:59	
Methyl Acetate	2.0 U	2.0	0.33	1	04/29/21 17:59	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	04/29/21 17:59	
Methylcyclohexane	1.0 U	1.0	0.20	1	04/29/21 17:59	
Styrene	1.0 U	1.0	0.20	1	04/29/21 17:59	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	04/29/21 17:59	
Toluene	1.0 U	1.0	0.20	1	04/29/21 17:59	

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Analytical Report

**Client:** Marks Engineering, PC  
**Project:** Modock Road Springs / DLS/21-007C  
**Sample Matrix:** Water

**Service Request:** R2103912  
**Date Collected:** 04/21/21 10:35  
**Date Received:** 04/23/21 14:35

**Sample Name:** DUP042121A  
**Lab Code:** R2103912-011

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	32	1.0	0.20	1	04/29/21 17:59	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	04/29/21 17:59	
Vinyl Chloride	1.0 U	1.0	0.20	1	04/29/21 17:59	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	04/29/21 17:59	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	04/29/21 17:59	
m,p-Xylenes	2.0 U	2.0	0.20	1	04/29/21 17:59	
o-Xylene	1.0 U	1.0	0.20	1	04/29/21 17:59	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	04/29/21 17:59	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	04/29/21 17:59	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	92	85 - 122	04/29/21 17:59	
Dibromofluoromethane	98	80 - 116	04/29/21 17:59	
Toluene-d8	100	87 - 121	04/29/21 17:59	



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Analytical Report

**Client:** Marks Engineering, PC  
**Project:** Modock Road Springs / DLS/21-007C  
**Sample Matrix:** Water

**Service Request:** R2103912  
**Date Collected:** 04/21/21 10:45  
**Date Received:** 04/23/21 14:35

**Sample Name:** MW-4  
**Lab Code:** R2103912-012

**Units:** ug/L  
**Basis:** NA

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	7.9	1.0	0.20	1	04/29/21 19:47	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	04/29/21 19:47	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	04/29/21 19:47	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	0.20	1	04/29/21 19:47	
1,1-Dichloroethane (1,1-DCA)	0.33 J	1.0	0.20	1	04/29/21 19:47	
1,1-Dichloroethene (1,1-DCE)	1.8	1.0	0.20	1	04/29/21 19:47	
1,2,3-Trichlorobenzene	1.0 U	1.0	0.25	1	04/29/21 19:47	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.34	1	04/29/21 19:47	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	04/29/21 19:47	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	04/29/21 19:47	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	04/29/21 19:47	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	04/29/21 19:47	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	04/29/21 19:47	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	04/29/21 19:47	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	04/29/21 19:47	
1,4-Dioxane	40 U	40	13	1	04/29/21 19:47	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	04/29/21 19:47	
2-Hexanone	5.0 U	5.0	0.20	1	04/29/21 19:47	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	04/29/21 19:47	
Acetone	5.0 U	5.0	5.0	1	04/29/21 19:47	
Benzene	1.0 U	1.0	0.20	1	04/29/21 19:47	
Bromochloromethane	1.0 U	1.0	0.20	1	04/29/21 19:47	
Bromodichloromethane	1.0 U	1.0	0.20	1	04/29/21 19:47	
Bromoform	1.0 U	1.0	0.25	1	04/29/21 19:47	
Bromomethane	1.0 U	1.0	0.70	1	04/29/21 19:47	
Carbon Disulfide	1.0 U	1.0	0.42	1	04/29/21 19:47	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	04/29/21 19:47	
Chlorobenzene	1.0 U	1.0	0.20	1	04/29/21 19:47	
Chloroethane	1.0 U	1.0	0.23	1	04/29/21 19:47	
Chloroform	1.0 U	1.0	0.24	1	04/29/21 19:47	
Chloromethane	1.0 U	1.0	0.28	1	04/29/21 19:47	
Cyclohexane	1.0 U	1.0	0.26	1	04/29/21 19:47	
Dibromochloromethane	1.0 U	1.0	0.20	1	04/29/21 19:47	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	04/29/21 19:47	
Dichloromethane	1.0 U	1.0	0.65	1	04/29/21 19:47	
Ethylbenzene	1.0 U	1.0	0.20	1	04/29/21 19:47	
Isopropylbenzene (Cumene)	1.0 U	1.0	0.20	1	04/29/21 19:47	
Methyl Acetate	2.0 U	2.0	0.33	1	04/29/21 19:47	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	04/29/21 19:47	
Methylcyclohexane	1.0 U	1.0	0.20	1	04/29/21 19:47	
Styrene	1.0 U	1.0	0.20	1	04/29/21 19:47	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	04/29/21 19:47	
Toluene	1.0 U	1.0	0.20	1	04/29/21 19:47	

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Analytical Report

**Client:** Marks Engineering, PC  
**Project:** Modock Road Springs / DLS/21-007C  
**Sample Matrix:** Water  
**Sample Name:** MW-4  
**Lab Code:** R2103912-012

**Service Request:** R2103912  
**Date Collected:** 04/21/21 10:45  
**Date Received:** 04/23/21 14:35

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	42	1.0	0.20	1	04/29/21 19:47	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	04/29/21 19:47	
Vinyl Chloride	1.0 U	1.0	0.20	1	04/29/21 19:47	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	04/29/21 19:47	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	04/29/21 19:47	
m,p-Xylenes	2.0 U	2.0	0.20	1	04/29/21 19:47	
o-Xylene	1.0 U	1.0	0.20	1	04/29/21 19:47	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	04/29/21 19:47	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	04/29/21 19:47	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	91	85 - 122	04/29/21 19:47	
Dibromofluoromethane	98	80 - 116	04/29/21 19:47	
Toluene-d8	99	87 - 121	04/29/21 19:47	

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Analytical Report

**Client:** Marks Engineering, PC  
**Project:** Modock Road Springs / DLS/21-007C  
**Sample Matrix:** Water

**Service Request:** R2103912  
**Date Collected:** 04/21/21 11:05  
**Date Received:** 04/23/21 14:35

**Sample Name:** SSG MW-3  
**Lab Code:** R2103912-013

**Units:** ug/L  
**Basis:** NA

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	4.2	1.0	0.20	1	04/28/21 02:52	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	04/28/21 02:52	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	04/28/21 02:52	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	0.20	1	04/28/21 02:52	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	04/28/21 02:52	
1,1-Dichloroethene (1,1-DCE)	0.66 J	1.0	0.20	1	04/28/21 02:52	J
1,2,3-Trichlorobenzene	1.0 U	1.0	0.25	1	04/28/21 02:52	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.34	1	04/28/21 02:52	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	04/28/21 02:52	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	04/28/21 02:52	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	04/28/21 02:52	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	04/28/21 02:52	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	04/28/21 02:52	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	04/28/21 02:52	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	04/28/21 02:52	
1,4-Dioxane	40 U	40	13	1	04/28/21 02:52	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	04/28/21 02:52	
2-Hexanone	5.0 U	5.0	0.20	1	04/28/21 02:52	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	04/28/21 02:52	
Acetone	5.0 U	5.0	5.0	1	04/28/21 02:52	
Benzene	1.0 U	1.0	0.20	1	04/28/21 02:52	
Bromochloromethane	1.0 U	1.0	0.20	1	04/28/21 02:52	
Bromodichloromethane	1.0 U	1.0	0.20	1	04/28/21 02:52	
Bromoform	1.0 U	1.0	0.25	1	04/28/21 02:52	
Bromomethane	1.0 U	1.0	0.70	1	04/28/21 02:52	
Carbon Disulfide	1.0 U	1.0	0.42	1	04/28/21 02:52	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	04/28/21 02:52	
Chlorobenzene	1.0 U	1.0	0.20	1	04/28/21 02:52	
Chloroethane	1.0 U	1.0	0.23	1	04/28/21 02:52	
Chloroform	1.0 U	1.0	0.24	1	04/28/21 02:52	
Chloromethane	1.0 U	1.0	0.28	1	04/28/21 02:52	
Cyclohexane	1.0 U	1.0	0.26	1	04/28/21 02:52	
Dibromochloromethane	1.0 U	1.0	0.20	1	04/28/21 02:52	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	04/28/21 02:52	
Dichloromethane	1.0 U	1.0	0.65	1	04/28/21 02:52	
Ethylbenzene	1.0 U	1.0	0.20	1	04/28/21 02:52	
Isopropylbenzene (Cumene)	1.0 U	1.0	0.20	1	04/28/21 02:52	
Methyl Acetate	2.0 U	2.0	0.33	1	04/28/21 02:52	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	04/28/21 02:52	
Methylcyclohexane	1.0 U	1.0	0.20	1	04/28/21 02:52	
Styrene	1.0 U	1.0	0.20	1	04/28/21 02:52	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	04/28/21 02:52	
Toluene	1.0 U	1.0	0.20	1	04/28/21 02:52	

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Analytical Report

**Client:** Marks Engineering, PC  
**Project:** Modock Road Springs / DLS/21-007C  
**Sample Matrix:** Water

**Service Request:** R2103912  
**Date Collected:** 04/21/21 11:05  
**Date Received:** 04/23/21 14:35

**Sample Name:** SSG MW-3  
**Lab Code:** R2103912-013

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	4.7	1.0	0.20	1	04/28/21 02:52	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	04/28/21 02:52	
Vinyl Chloride	1.0 U	1.0	0.20	1	04/28/21 02:52	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	04/28/21 02:52	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	04/28/21 02:52	
m,p-Xylenes	2.0 U	2.0	0.20	1	04/28/21 02:52	
o-Xylene	1.0 U	1.0	0.20	1	04/28/21 02:52	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	04/28/21 02:52	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	04/28/21 02:52	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	04/28/21 02:52	
Dibromofluoromethane	94	80 - 116	04/28/21 02:52	
Toluene-d8	98	87 - 121	04/28/21 02:52	

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Analytical Report

**Client:** Marks Engineering, PC  
**Project:** Modock Road Springs / DLS/21-007C  
**Sample Matrix:** Water

**Service Request:** R2103912  
**Date Collected:** 04/21/21 11:20  
**Date Received:** 04/23/21 14:35

**Sample Name:** MW-26  
**Lab Code:** R2103912-014

**Units:** ug/L  
**Basis:** NA

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	6.3	1.0	0.20	1	04/29/21 20:08	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	04/29/21 20:08	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	04/29/21 20:08	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	0.20	1	04/29/21 20:08	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	04/29/21 20:08	
1,1-Dichloroethene (1,1-DCE)	1.7	1.0	0.20	1	04/29/21 20:08	
1,2,3-Trichlorobenzene	1.0 U	1.0	0.25	1	04/29/21 20:08	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.34	1	04/29/21 20:08	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	04/29/21 20:08	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	04/29/21 20:08	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	04/29/21 20:08	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	04/29/21 20:08	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	04/29/21 20:08	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	04/29/21 20:08	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	04/29/21 20:08	
1,4-Dioxane	40 U	40	13	1	04/29/21 20:08	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	04/29/21 20:08	
2-Hexanone	5.0 U	5.0	0.20	1	04/29/21 20:08	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	04/29/21 20:08	
Acetone	5.0 U	5.0	5.0	1	04/29/21 20:08	
Benzene	1.0 U	1.0	0.20	1	04/29/21 20:08	
Bromochloromethane	1.0 U	1.0	0.20	1	04/29/21 20:08	
Bromodichloromethane	1.0 U	1.0	0.20	1	04/29/21 20:08	
Bromoform	1.0 U	1.0	0.25	1	04/29/21 20:08	
Bromomethane	1.0 U	1.0	0.70	1	04/29/21 20:08	
Carbon Disulfide	1.0 U	1.0	0.42	1	04/29/21 20:08	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	04/29/21 20:08	
Chlorobenzene	1.0 U	1.0	0.20	1	04/29/21 20:08	
Chloroethane	1.0 U	1.0	0.23	1	04/29/21 20:08	
Chloroform	1.0 U	1.0	0.24	1	04/29/21 20:08	
Chloromethane	1.0 U	1.0	0.28	1	04/29/21 20:08	
Cyclohexane	1.0 U	1.0	0.26	1	04/29/21 20:08	
Dibromochloromethane	1.0 U	1.0	0.20	1	04/29/21 20:08	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	04/29/21 20:08	
Dichloromethane	1.0 U	1.0	0.65	1	04/29/21 20:08	
Ethylbenzene	1.0 U	1.0	0.20	1	04/29/21 20:08	
Isopropylbenzene (Cumene)	1.0 U	1.0	0.20	1	04/29/21 20:08	
Methyl Acetate	2.0 U	2.0	0.33	1	04/29/21 20:08	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	04/29/21 20:08	
Methylcyclohexane	1.0 U	1.0	0.20	1	04/29/21 20:08	
Styrene	1.0 U	1.0	0.20	1	04/29/21 20:08	
Tetrachloroethene (PCE)	1.9	1.0	0.21	1	04/29/21 20:08	
Toluene	1.0 U	1.0	0.20	1	04/29/21 20:08	

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Analytical Report

**Client:** Marks Engineering, PC  
**Project:** Modock Road Springs / DLS/21-007C  
**Sample Matrix:** Water  
**Sample Name:** MW-26  
**Lab Code:** R2103912-014

**Service Request:** R2103912  
**Date Collected:** 04/21/21 11:20  
**Date Received:** 04/23/21 14:35

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	<b>100</b>	1.0	0.20	1	04/29/21 20:08	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	04/29/21 20:08	
Vinyl Chloride	1.0 U	1.0	0.20	1	04/29/21 20:08	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	04/29/21 20:08	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	04/29/21 20:08	
m,p-Xylenes	2.0 U	2.0	0.20	1	04/29/21 20:08	
o-Xylene	1.0 U	1.0	0.20	1	04/29/21 20:08	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	04/29/21 20:08	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	04/29/21 20:08	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	85 - 122	04/29/21 20:08	
Dibromofluoromethane	95	80 - 116	04/29/21 20:08	
Toluene-d8	101	87 - 121	04/29/21 20:08	

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Analytical Report

**Client:** Marks Engineering, PC  
**Project:** Modock Road Springs / DLS/21-007C  
**Sample Matrix:** Water

**Service Request:** R2103912  
**Date Collected:** 04/21/21 11:30  
**Date Received:** 04/23/21 14:35

**Sample Name:** DUP042121B  
**Lab Code:** R2103912-015

**Units:** ug/L  
**Basis:** NA

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	6.9	1.0	0.20	1	04/29/21 18:21	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	04/29/21 18:21	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	04/29/21 18:21	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.2	1.0	0.20	1	04/29/21 18:21	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	04/29/21 18:21	
1,1-Dichloroethene (1,1-DCE)	1.6	1.0	0.20	1	04/29/21 18:21	
1,2,3-Trichlorobenzene	1.0 U	1.0	0.25	1	04/29/21 18:21	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.34	1	04/29/21 18:21	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	04/29/21 18:21	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	04/29/21 18:21	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	04/29/21 18:21	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	04/29/21 18:21	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	04/29/21 18:21	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	04/29/21 18:21	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	04/29/21 18:21	
1,4-Dioxane	40 U	40	13	1	04/29/21 18:21	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	04/29/21 18:21	
2-Hexanone	5.0 U	5.0	0.20	1	04/29/21 18:21	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	04/29/21 18:21	
Acetone	5.0 U	5.0	5.0	1	04/29/21 18:21	
Benzene	1.0 U	1.0	0.20	1	04/29/21 18:21	
Bromochloromethane	1.0 U	1.0	0.20	1	04/29/21 18:21	
Bromodichloromethane	1.0 U	1.0	0.20	1	04/29/21 18:21	
Bromoform	1.0 U	1.0	0.25	1	04/29/21 18:21	
Bromomethane	1.0 U	1.0	0.70	1	04/29/21 18:21	
Carbon Disulfide	1.0 U	1.0	0.42	1	04/29/21 18:21	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	04/29/21 18:21	
Chlorobenzene	1.0 U	1.0	0.20	1	04/29/21 18:21	
Chloroethane	1.0 U	1.0	0.23	1	04/29/21 18:21	
Chloroform	1.0 U	1.0	0.24	1	04/29/21 18:21	
Chloromethane	1.0 U	1.0	0.28	1	04/29/21 18:21	
Cyclohexane	1.0 U	1.0	0.26	1	04/29/21 18:21	
Dibromochloromethane	1.0 U	1.0	0.20	1	04/29/21 18:21	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	04/29/21 18:21	
Dichloromethane	1.0 U	1.0	0.65	1	04/29/21 18:21	
Ethylbenzene	1.0 U	1.0	0.20	1	04/29/21 18:21	
Isopropylbenzene (Cumene)	1.0 U	1.0	0.20	1	04/29/21 18:21	
Methyl Acetate	2.0 U	2.0	0.33	1	04/29/21 18:21	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	04/29/21 18:21	
Methylcyclohexane	1.0 U	1.0	0.20	1	04/29/21 18:21	
Styrene	1.0 U	1.0	0.20	1	04/29/21 18:21	
Tetrachloroethene (PCE)	1.9	1.0	0.21	1	04/29/21 18:21	
Toluene	1.0 U	1.0	0.20	1	04/29/21 18:21	

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Analytical Report

**Client:** Marks Engineering, PC  
**Project:** Modock Road Springs / DLS/21-007C  
**Sample Matrix:** Water

**Service Request:** R2103912  
**Date Collected:** 04/21/21 11:30  
**Date Received:** 04/23/21 14:35

**Sample Name:** DUP042121B  
**Lab Code:** R2103912-015

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	<b>100</b>	1.0	0.20	1	04/29/21 18:21	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	04/29/21 18:21	
Vinyl Chloride	1.0 U	1.0	0.20	1	04/29/21 18:21	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	04/29/21 18:21	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	04/29/21 18:21	
m,p-Xylenes	2.0 U	2.0	0.20	1	04/29/21 18:21	
o-Xylene	1.0 U	1.0	0.20	1	04/29/21 18:21	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	04/29/21 18:21	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	04/29/21 18:21	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	91	85 - 122	04/29/21 18:21	
Dibromofluoromethane	98	80 - 116	04/29/21 18:21	
Toluene-d8	101	87 - 121	04/29/21 18:21	



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Analytical Report

**Client:** Marks Engineering, PC  
**Project:** Modock Road Springs / DLS/21-007C  
**Sample Matrix:** Water

**Service Request:** R2103912  
**Date Collected:** 04/21/21  
**Date Received:** 04/23/21 14:35

**Sample Name:** Trip Blank  
**Lab Code:** R2103912-016

**Units:** ug/L  
**Basis:** NA

Volatile Organic Compounds by GC/MS

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
1,1,1-Trichloroethane (TCA)	1.0 U	1.0	0.20	1	04/27/21 23:57	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	04/27/21 23:57	
1,1,2-Trichloroethane	1.0 U	1.0	0.20	1	04/27/21 23:57	
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	1.0	0.20	1	04/27/21 23:57	
1,1-Dichloroethane (1,1-DCA)	1.0 U	1.0	0.20	1	04/27/21 23:57	
1,1-Dichloroethene (1,1-DCE)	1.0 U	1.0	0.20	1	04/27/21 23:57	
1,2,3-Trichlorobenzene	1.0 U	1.0	0.25	1	04/27/21 23:57	
1,2,4-Trichlorobenzene	1.0 U	1.0	0.34	1	04/27/21 23:57	
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	2.0	0.45	1	04/27/21 23:57	
1,2-Dibromoethane	1.0 U	1.0	0.20	1	04/27/21 23:57	
1,2-Dichlorobenzene	1.0 U	1.0	0.20	1	04/27/21 23:57	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	04/27/21 23:57	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	04/27/21 23:57	
1,3-Dichlorobenzene	1.0 U	1.0	0.20	1	04/27/21 23:57	
1,4-Dichlorobenzene	1.0 U	1.0	0.20	1	04/27/21 23:57	
1,4-Dioxane	40 U	40	13	1	04/27/21 23:57	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	04/27/21 23:57	
2-Hexanone	5.0 U	5.0	0.20	1	04/27/21 23:57	
4-Methyl-2-pentanone	5.0 U	5.0	0.20	1	04/27/21 23:57	
Acetone	5.0 U	5.0	5.0	1	04/27/21 23:57	
Benzene	1.0 U	1.0	0.20	1	04/27/21 23:57	
Bromochloromethane	1.0 U	1.0	0.20	1	04/27/21 23:57	
Bromodichloromethane	1.0 U	1.0	0.20	1	04/27/21 23:57	
Bromoform	1.0 U	1.0	0.25	1	04/27/21 23:57	
Bromomethane	1.0 U	1.0	0.70	1	04/27/21 23:57	
Carbon Disulfide	1.0 U	1.0	0.42	1	04/27/21 23:57	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	04/27/21 23:57	
Chlorobenzene	1.0 U	1.0	0.20	1	04/27/21 23:57	
Chloroethane	1.0 U	1.0	0.23	1	04/27/21 23:57	
Chloroform	1.0 U	1.0	0.24	1	04/27/21 23:57	
Chloromethane	1.0 U	1.0	0.28	1	04/27/21 23:57	
Cyclohexane	1.0 U	1.0	0.26	1	04/27/21 23:57	
Dibromochloromethane	1.0 U	1.0	0.20	1	04/27/21 23:57	
Dichlorodifluoromethane (CFC 12)	1.0 U	1.0	0.21	1	04/27/21 23:57	
Dichloromethane	1.0 U	1.0	0.65	1	04/27/21 23:57	
Ethylbenzene	1.0 U	1.0	0.20	1	04/27/21 23:57	
Isopropylbenzene (Cumene)	1.0 U	1.0	0.20	1	04/27/21 23:57	
Methyl Acetate	2.0 U	2.0	0.33	1	04/27/21 23:57	
Methyl tert-Butyl Ether	1.0 U	1.0	0.20	1	04/27/21 23:57	
Methylcyclohexane	1.0 U	1.0	0.20	1	04/27/21 23:57	
Styrene	1.0 U	1.0	0.20	1	04/27/21 23:57	
Tetrachloroethene (PCE)	1.0 U	1.0	0.21	1	04/27/21 23:57	
Toluene	1.0 U	1.0	0.20	1	04/27/21 23:57	

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Analytical Report

**Client:** Marks Engineering, PC  
**Project:** Modock Road Springs / DLS/21-007C  
**Sample Matrix:** Water

**Service Request:** R2103912  
**Date Collected:** 04/21/21  
**Date Received:** 04/23/21 14:35

**Sample Name:** Trip Blank  
**Lab Code:** R2103912-016

**Units:** ug/L  
**Basis:** NA

**Volatile Organic Compounds by GC/MS**

**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Trichloroethene (TCE)	1.0 U	1.0	0.20	1	04/27/21 23:57	
Trichlorofluoromethane (CFC 11)	1.0 U	1.0	0.24	1	04/27/21 23:57	
Vinyl Chloride	1.0 U	1.0	0.20	1	04/27/21 23:57	
cis-1,2-Dichloroethene	1.0 U	1.0	0.23	1	04/27/21 23:57	
cis-1,3-Dichloropropene	1.0 U	1.0	0.20	1	04/27/21 23:57	
m,p-Xylenes	2.0 U	2.0	0.20	1	04/27/21 23:57	
o-Xylene	1.0 U	1.0	0.20	1	04/27/21 23:57	
trans-1,2-Dichloroethene	1.0 U	1.0	0.20	1	04/27/21 23:57	
trans-1,3-Dichloropropene	1.0 U	1.0	0.23	1	04/27/21 23:57	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	04/27/21 23:57	
Dibromofluoromethane	96	80 - 116	04/27/21 23:57	
Toluene-d8	97	87 - 121	04/27/21 23:57	

*Appendix B*

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*Laboratory  
QC  
Documentation*

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** Marks Engineering, PC  
**Project:** Modock Road Springs / DLS/21-007C  
**Sample Matrix:** Water

**Service Request:** R2103912  
**Date Collected:** 04/21/21  
**Date Received:** 04/23/21  
**Date Analyzed:** 04/28/21  
**Date Extracted:** NA

**Duplicate Matrix Spike Summary**  
**Volatile Organic Compounds by GC/MS**

**Sample Name:** MW-10  
**Lab Code:** R2103912-002  
**Analysis Method:** 8260C  
**Prep Method:** EPA 5030C

**Units:** ug/L  
**Basis:** NA

Analyte Name	Sample Result	Matrix Spike RQ2104630-05			Duplicate Matrix Spike RQ2104630-06			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
1,1,1-Trichloroethane (TCA)	2.6	46.8	50.0	88	49.1	50.0	93	74-127	5	30
1,1,2,2-Tetrachloroethane	1.0 U	41.9	50.0	84	45.6	50.0	91	72-122	8	30
1,1,2-Trichloroethane	1.0 U	42.6	50.0	85	45.0	50.0	90	82-121	5	30
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0 U	40.6	50.0	81	43.2	50.0	86	50-147	6	30
1,1-Dichloroethane (1,1-DCA)	1.0 U	44.7	50.0	89	46.7	50.0	93	74-132	4	30
1,1-Dichloroethene (1,1-DCE)	1.0 U	56.3	50.0	113	58.2	50.0	116	71-118	3	30
1,2,3-Trichlorobenzene	1.0 U	40.8	50.0	82	43.9	50.0	88	59-129	7	30
1,2,4-Trichlorobenzene	1.0 U	40.5	50.0	81	42.5	50.0	85	69-122	5	30
1,2-Dibromo-3-chloropropane (DBCP)	2.0 U	37.9	50.0	76	41.0	50.0	82	37-150	8	30
1,2-Dibromoethane	1.0 U	42.4	50.0	85	42.9	50.0	86	67-127	1	30
1,2-Dichlorobenzene	1.0 U	41.7	50.0	83	44.4	50.0	89	77-120	6	30
1,2-Dichloroethane	1.0 U	43.5	50.0	87	45.6	50.0	91	68-130	5	30
1,2-Dichloropropane	1.0 U	45.9	50.0	92	47.5	50.0	95	79-124	3	30
1,3-Dichlorobenzene	1.0 U	41.3	50.0	83	44.0	50.0	88	83-121	6	30
1,4-Dichlorobenzene	1.0 U	40.3	50.0	81 *	42.9	50.0	86	82-120	6	30
1,4-Dioxane	40 U	930	1000	93	882	1000	88	44-154	5	30
2-Butanone (MEK)	5.0 U	42.0	50.0	84	43.7	50.0	87	61-137	4	30
2-Hexanone	5.0 U	45.6	50.0	91	45.3	50.0	91	56-132	<1	30
4-Methyl-2-pentanone	5.0 U	43.7	50.0	87	45.7	50.0	91	60-141	4	30
Acetone	5.0 U	48.1	50.0	96	50.9	50.0	102	35-183	6	30
Benzene	1.0 U	45.9	50.0	92	47.8	50.0	96	76-129	4	30
Bromochloromethane	1.0 U	42.3	50.0	85	44.6	50.0	89	80-122	5	30
Bromodichloromethane	1.0 U	42.2	50.0	84	45.7	50.0	91	78-133	8	30
Bromoform	1.0 U	39.1	50.0	78	43.1	50.0	86	58-133	10	30
Bromomethane	1.0 U	41.9	50.0	84	45.8	50.0	92	10-184	9	30
Carbon Disulfide	1.0 U	43.8	50.0	88	46.1	50.0	92	59-140	5	30
Carbon Tetrachloride	1.0 U	42.4	50.0	85	46.2	50.0	92	65-135	9	30
Chlorobenzene	1.0 U	43.9	50.0	88	45.5	50.0	91	76-125	4	30
Chloroethane	1.0 U	48.0	50.0	96	49.6	50.0	99	48-146	3	30
Chloroform	1.0 U	41.7	50.0	83	43.3	50.0	87	75-130	4	30
Chloromethane	1.0 U	50.5	50.0	101	51.8	50.0	104	55-160	3	30
Cyclohexane	1.0 U	17.7	20.0	88	18.5	20.0	93	52-145	5	30
Dibromochloromethane	1.0 U	39.9	50.0	80	42.1	50.0	84	72-128	5	30

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Matrix Spike and Matrix Spike Duplicate Data is presented for information purposes only. The matrix may or may not be relevant to samples reported in this report. The laboratory evaluates system performance based on the LCS and LCSD control limits.

ALS Group USA, Corp.  
dba ALS Environmental

QA/QC Report

**Client:** Marks Engineering, PC  
**Project:** Modock Road Springs / DLS/21-007C  
**Sample Matrix:** Water

**Service Request:** R2103912  
**Date Analyzed:** 04/27/21

**Lab Control Sample Summary**  
**Volatile Organic Compounds by GC/MS**

**Units:**ug/L  
**Basis:**NA

**Lab Control Sample**  
RQ2104630-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
1,1,1-Trichloroethane (TCA)	8260C	19.4	20.0	97	75-125
1,1,2,2-Tetrachloroethane	8260C	19.9	20.0	99	78-126
1,1,2-Trichloroethane	8260C	20.2	20.0	101	82-121
1,1,2-Trichloro-1,2,2-trifluoroethane	8260C	18.8	20.0	94	67-124
1,1-Dichloroethane (1,1-DCA)	8260C	20.3	20.0	102	80-124
1,1-Dichloroethene (1,1-DCE)	8260C	24.1	20.0	121 *	71-118
1,2,3-Trichlorobenzene	8260C	19.9	20.0	100	67-136
1,2,4-Trichlorobenzene	8260C	19.5	20.0	98	75-132
1,2-Dibromo-3-chloropropane (DBCP)	8260C	18.1	20.0	90	55-136
1,2-Dibromoethane	8260C	19.1	20.0	95	82-127
1,2-Dichlorobenzene	8260C	20.1	20.0	101	80-119
1,2-Dichloroethane	8260C	20.1	20.0	100	71-127
1,2-Dichloropropane	8260C	21.0	20.0	105	80-119
1,3-Dichlorobenzene	8260C	19.7	20.0	99	83-121
1,4-Dichlorobenzene	8260C	19.6	20.0	98	79-119
1,4-Dioxane	8260C	383	400	96	44-154
2-Butanone (MEK)	8260C	19.3	20.0	97	61-137
2-Hexanone	8260C	18.9	20.0	94	63-124
4-Methyl-2-pentanone	8260C	19.2	20.0	96	66-124
Acetone	8260C	20.0	20.0	100	40-161
Benzene	8260C	20.9	20.0	104	79-119
Bromochloromethane	8260C	20.7	20.0	103	81-126
Bromodichloromethane	8260C	19.6	20.0	98	81-123
Bromoform	8260C	19.0	20.0	95	65-146
Bromomethane	8260C	18.6	20.0	93	42-166
Carbon Disulfide	8260C	17.3	20.0	86	66-128
Carbon Tetrachloride	8260C	18.8	20.0	94	70-127
Chlorobenzene	8260C	19.3	20.0	97	80-121
Chloroethane	8260C	20.5	20.0	102	62-131
Chloroform	8260C	19.1	20.0	95	79-120
Chloromethane	8260C	22.5	20.0	113	65-135
Cyclohexane	8260C	18.4	20.0	92	69-120
Dibromochloromethane	8260C	18.2	20.0	91	72-128

## *Appendix C*

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### *Validator Qualifications*

**KENNETH R. APPLIN**  
**Geochemist/Data Validator**

Ph.D., Geochemistry and Mineralogy, The Pennsylvania State University

M.S., Geochemistry and Mineralogy, The Pennsylvania State University

B.A., Geological Sciences, SUNY at Geneseo, NY

Dr. Applin has over 35 years of experience working with the geochemistry of natural waters. His prior experience includes working as an Assistant Professor of Geology at the University of Missouri-Columbia and as Chief Hydrogeologist and Geochemist with a leading engineering firm in Rochester, NY. In 1993, he established KR Applin and Associates, a small consulting business that focuses on the geochemistry of natural waters, especially as applied to problems involving the contamination of groundwater and surface water.

Dr. Applin is also an experienced analytical data validator and has provided data validation services since 1994 to a variety of clients performing brownfield cleanup projects, hazardous waste remediation, groundwater monitoring at solid waste facilities, and other projects requiring third-party data validation. Dr. Applin has several years of hands-on experience with the laboratory analysis of natural waters and has successfully completed the USEPA Region II certification courses for performing inorganic and organic analytical data validation.

**MICHAEL K. PERRY**  
**Chemist/Data Validator**

B.S. Chemistry, Georgia State University, Atlanta, GA

A.A.S., Chemical Technology, Alfred State College, Alfred, NY

Mr. Perry has over 30 years of experience in the analytical laboratory business. During his early career, he spent several years as a laboratory analyst performing the analysis of soil, water, and air samples for inorganic and organic chemical parameters. During his last 20 years in the environmental laboratory business, he managed and directed two major analytical laboratories in Rochester, NY. His management responsibilities included oversight of the daily operations of the lab, staff training and supervision, the selection, purchase, and maintenance of analytical instruments, the introduction of new laboratory methods, analytical quality assurance and quality control, data acquisition and management, and other business-related activities.

Mr. Perry has an extensive working knowledge of the methods and procedures used for sampling and analyzing both inorganic and organic analytes in soil, water, and air. He is an accomplished laboratory chemist and is familiar with the analytical methods and procedures established under the USEPA Contract Laboratory Protocols (CLP), the NYSDEC Analytical Services Protocols (ASP), and the NYSDOH Environmental Laboratory Approval Program (ELAP).





**Exhibit D**  
**Electronic Data Deliverable**  
**(EDD)**  
**(Provided Electronically)**

## **JWolf@marksengineering.com**

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**From:** Noll, Rebecca <rnoll@LaBellaPC.com>  
**Sent:** Friday, June 25, 2021 9:47 AM  
**To:** dec.sm.NYENVDATA (NYENVDATA@dec.ny.gov); Gregory, Charles T (DEC)  
**Cc:** jwolf@marksengineering.com  
**Subject:** EDD set for Modock Springs-DLS Sand and Gravel, Inc., Site 835013  
**Attachments:** 20210625 0944.835013.NYSDEC\_MERGE.zip

Attached please find a new EDD set for Modock Springs-DLS Sand and Gravel, Inc., Site 835013.

### **Rebecca Noll**

LaBella Associates | GIS & Environmental Specialist



300 State Street, Suite 201  
Rochester, NY 14614  
[labelapc.com](http://labelapc.com)



**Attachment B –  
Quarterly Soil Vapor Point Sampling Report,  
April 2021 Sample Event**

September 2021

*Revised February 2022*

# Quarterly Soil Vapor Point Sampling Report

## April 2021 Sample Event

Prepared for:  
**Syracusa Sand and Gravel Inc.**

Site:  
**Modock Rd. Springs/DLS Sand & Gravel Inc. Site**  
**Town of Victor, Ontario County, NY**  
**NYSDEC Site No. 8-35-013**



**Marks**Engineering

42 Beeman Street  
Canandaigua, NY 14424

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## LIST OF APPENDICES

- A) Soil Vapor Sampling Logs
- B) Chain of Custody Form
- C) Time Series Plots of Quarterly Sampling Seasonal Trends CVOCs

## LIST OF EXHIBITS

- A) Laboratory Report (Results Only)
- B) Laboratory Report (Full Category B Packages) (Provided electronically)
- C) Data Usability Summary Report (DUSR)
- D) Electronic Data Deliverables (EDDs) (Provided electronically)

## 1.0 INTRODUCTION

**Marks Engineering, P.C.** (Marks Engineering), conducted an on-site and off-site quarterly soil vapor sampling event in April of 2021 at the Modock Rd. Springs/DLS Sand & Gravel, Inc. Site located in the Town of Victor, Ontario County, New York (herein referred to as the “Site”). A Site Plan and Soil Vapor Sample Location Map is presented as **Figure 1**.

In accordance with the approved Site Management Plan dated March 2019 (SMP), Marks Engineering also distributed request letters (March 5, 2020) to perform soil vapor intrusion sampling at four residential homes within the groundwater plume. However, access has not been granted to those residences as of the time of writing of this report. Once the region is no longer under precautionary measures for COVID-19 and the timing for entry is deemed appropriate, in consultation with the New York State Department of Environmental Conservation (NYSDEC) and the New York State Department of Health (NYSDOH), Marks Engineering will prepare another letter to each of the four residences requesting access to perform the sampling as described in the SMP. We anticipate that SVI sampling to be performed in the heating season for 2021/2022, optimistically, after COVID precautions are lifted, and therefore, will send another round of access request letters in the late- fall of 2021 to each of those four residences.

The Site is a NYSDEC Class 2 Inactive Hazardous Waste Disposal Site (Site No. 8-35-013). The scope of work presented herein is consistent with the SMP, and the NYSDEC Record of Decision (ROD), for the Site. The April 2021 quarterly soil vapor sample event, the findings of which are discussed in this Report, is part of the SMP’s media monitoring program and ROD’s overall long-term plume management monitoring (PMM) program to evaluate plume stability and the natural reduction of the Site-related chlorinated volatile organic compounds (CVOCs) over time. This sample event included collection of soil vapor samples from six of the 12 permanent soil vapor probes.

This Report provides a summary of the soil vapor sample event and is organized as follows:

- **Site Description and History** (Section 2) – presents a summary of the history and description of the Site.
- **Scope of Work** (Section 3) – provides details on the scope of work and procedures that were used to sample the soil vapor probes.
- **Results** (Section 4) – presents the field observations, findings and analytical results for laboratory samples collected during the sample event.
- **Evaluation of Results, Findings and Conclusions** (Section 5) – presents an evaluation of the results and data.

## 2.0 SITE DESCRIPTION AND HISTORY

A detailed description of the Site and History is provided in the SMP. A concise history of the Site is as follows:

The Site is comprised of a 173-acre parcel, currently operating as an active sand and gravel mine operated by Syracuse Sand and Gravel Inc. (SS&G). The Site was acquired by Syracuse in 1953. Prior to SS&G’s ownership, the property was used for agricultural purposes. The Site operated under the name of D.L.S. Sand and Gravel until 1973 when the corporate name was changed to Syracuse Sand and Gravel Inc. From 1966 to 1971, a portion of the property was leased to Rochester Block, Inc. (NYSDEC, 2010).

A series of investigations at the Site have been conducted starting in approximately 1995. The data from the investigations generally shows that CVOCs, including trichloroethene (TCE), 1,1,1-trichloroethane (TCA), and 1,1-dichloroethene (DCE), were likely released by parties unknown on the property in the 1960s or 1970s and have contributed to both on-site and off-site CVOC contamination in groundwater (NYSDEC, 2010). The soil into which the CVOCs were first released; however, no longer exists on the Site. On the basis of the investigations, in 2001, the Department listed the Site as a Class 2 site in the Registry of Inactive Hazardous Waste Disposal Sites in New York. After subsequent site characterization, remedial investigation, feasibility study and remedial alternatives analysis, the ROD for the Site was issued in 2010 selecting monitored natural attenuation (MNA) as the remedy. The SMP for the Site was approved by the NYSDEC in March of 2019.

In addition to MNA, the ROD selected the following additional remedial actions for the Site: (a) an environmental easement to restrict the future use of groundwater at the Site; (b) implementation of the SMP with its requirements for long-term plume management monitoring, maintenance of the Sub Slab Depressurization Systems (SSDSs) in several residences, long-term monitoring of soil vapor intrusion in residences, and periodic review reporting to the NYSDEC; and (c) a contingency for the implementation of a zero valent iron amendment injection to reduce contaminant mass in the area of highest groundwater

CVOC concentrations if the results of the PMM demonstrate that the CVOC groundwater concentrations are at concentrations not acceptable to NYSDEC and are not continuing to decline.

### 3.0 SCOPE OF WORK

This section provides details on the scope of work and procedures that were used during implementation of the 4<sup>th</sup> quarterly soil vapor sample event required by the SMP. The primary components of the scope of work were as follows:

- Completion of a quarterly soil vapor sample event (see Table 3 of the SMP) using 6-liter stainless steel SUMMA<sup>®</sup> vacuum canisters equipped with laboratory-calibrated fixed rate flow controllers installed at six of the 12 permanent soil vapor probes. Samples were collected from four locations (SV-01, SV-04, SV-08 and SV-11) as described in Table 3 of the SMP and at two additional locations (SV-02 and SV-03) where samples were unable to be collected during the baseline soil vapor sampling conducted in February 2020 (Marks Engineering, 2020).
- Collection of six soil vapor samples (and one blind field duplicate) for laboratory analysis for Target Compound List (TCL) VOCs in accordance with USEPA Method TO-15, including CVOCs.
- Completion of a 3<sup>rd</sup> party Data Usability Summary Report (DUSR) to review, qualify and validate the analytical laboratory data generated during this sample event.
- Submittal of electronic data deliverables (EDDs) of the sample event data to the NYSDEC for inclusion in the Site's existing EQUIS database.

### 3.1 Sampling of Soil Vapor Probes

#### 3.1.1 Purpose and Objectives

The April 2021 quarterly soil vapor sample event, the findings of which are discussed in this Report, is part of the SMP's media monitoring program associated with the long-term PMM program for the Site. The objective of the PMM program is to evaluate plume stability and the natural reduction of the Site's CVOC contamination over time.

#### 3.1.2 Collection and Analysis of Laboratory Samples

Soil vapor sampling was conducted on April 28 and April 29, 2021 at six of the permanent soil vapor probes (SV-01, SV-02, SV-03, SV-04, SV-08 and SV-11), see **Table 1**. Samples were collected using the methodology described in Section 2.7.3 of the Field Sampling Plan (FSP) provided as Appendix D of the SMP.

Prior to the collection of the soil vapor samples, the sampling tubing was purged of ambient air using a photoionization detector (PID). The PID readings before and after sample collection were recorded on the Soil Vapor Sampling Log for each location (provided in **Appendix A**).

The soil vapor samples were collected using batch certified-clean 6-liter stainless steel SUMMA<sup>®</sup> vacuum canisters equipped with laboratory-calibrated fixed rate flow controllers. The flow controllers were set to collect soil vapor samples for a period of four hours, at a sample rate of approximately 0.020 liters per minute. This flow rate represents a slightly lower sample rate than specified in the FSP (0.025 liters per minute) but is the rate as recommended by the analytical laboratory. Each canister was equipped with a vacuum gauge that was periodically monitored during collection of the samples. Sample collection was terminated before the canister vacuum was exhausted, and the canister vacuum level at the beginning and end of sample collection was recorded on the Soil Vapor Sampling Log for each location (provided in **Appendix A**).

The soil vapor samples were submitted under appropriate chain of custody protocols to Alpha Analytical located in Rochester, New York for laboratory analysis for TCL VOCs, including CVOCs, in accordance with USEPA Method TO-15 SIM. Each SUMMA<sup>®</sup> canister was labeled with the sample identification, the start and end time of sample collection, date, project identification, and required laboratory analysis. The same information was recorded on the Soil Vapor Sampling Logs (**Appendix A**) and chain of custody forms (**Appendix B**). The soil vapor sample analytical results are summarized on **Table 2**. **Table 2** includes the analytical results from the previous baseline sample event (February 2020) and three previous quarterly sample events (July 2020, October 2020 and January 2021) for comparison purposes.

### 3.1.3 Reporting of Results and Data Validation

The laboratory reports were provided in both results only and full Category B formats. Copies of the laboratory reports are provided in **Exhibit A** and **Exhibit B**, respectively. The data was reviewed by a 3<sup>rd</sup> party data validator (Environmental Data Usability in Dansville, New York) to review, qualify and validate the analytical laboratory data generated during this sample event and the data validator concluded that all results (100%) were found to be usable. A copy of the Data Usability Summary Report (DUSR) is presented as **Exhibit C**. At the request of the NYSDEC, the laboratory results were also provided in an electronic data deliverable (EDD) format. The EDD, which incorporated the validated laboratory results, was submitted to the NYSDEC on March 12, 2021 (see **Exhibit D**).

## 4.0 RESULTS

### 4.1. Soil Vapor Sampling Results

The soil vapor sample analytical results are summarized on **Table 2**, which segregates the three CVOCs identified as contaminants of concern in the ROD (TCE, TCA and DCE) from the remainder of the analyzed TO-15 VOCs. As presented in **Table 2**, detectable concentrations of these three CVOCs were found in soil vapor samples collected at all six of the soil vapor locations analyzed by the laboratory this quarter (SV-01, SV-02, SV-03, SV-04, SV-08 and SV-11). There are currently no applicable NYSDEC standards, criteria and/or guidance values (SCGVs) to compare with the soil vapor analytical results. The soil vapor analytical results will be used to assist in determining trends in the concentration(s) of these CVOCs in support of the ROD.

All three CVOCs, TCE, TCA and DCE, were detected in the soil vapor samples this quarter. The highest total concentrations of these three CVOCs were found at SV-01 (186.24 ug/m<sup>3</sup>), SV-04 (6.27 ug/m<sup>3</sup>), SV-08 (39.203 ug/m<sup>3</sup>) and SV-11 DUP (466.02). The remaining two samples (SV-02 and SV-03) had individual detections of these three CVOCs less than 5 ug/m<sup>3</sup> (see **Table 2**).

## 5.0 EVALUATION OF RESULTS, FINDINGS AND CONCLUSIONS

The April 2021 quarterly soil vapor sample event, the findings of which are discussed in this Report, is part of the ROD and SMP's long-term PMM program for the Site. The objective of the PMM is to evaluate plume stability and the natural reduction of the Site's CVOC contamination over time.

According to the SMP, the quarterly sample events will also be used for trend analysis and to evaluate seasonal variations. Time series plots (**Appendix C**) were prepared to evaluate if seasonal trends are evident in the five soil vapor sampling events conducted to date; including data from the annual baseline event conducted in February 2020 and the four subsequent quarterly events conducted in July 2020, October 2020, January 2021 and April 2021. No seasonal trends were evident with the exception of a decrease in total CVOCs at one downgradient location (SV-01) in the summer and fall of 2020 (July and October sample events) and a peak was apparent for the same period (July and October 2020 sample events) at one location (SV-11) located closer to the presumed source that, at one time, had been located at the mine.

Consistent with previous quarterly sample events, the highest total soil vapor concentrations of TCE, TCA and DCE correlate to the locations where the highest detections of these CVOCs were found in the corresponding quarterly groundwater sample event conducted at the Site, see **Figure 3**. Highest concentrations in groundwater were generally found in the groundwater monitoring wells immediately downgradient of the mine and attenuated at distance from the mine. **Figure 2** summarizes the total CVOC concentrations in soil vapor from the April 2021 quarterly soil vapor sample event and **Figure 3** summarizes the total CVOC concentrations in groundwater from the April 2021 quarterly groundwater sample event.

The objective of the PMM program is to evaluate plume stability and the natural reduction of CVOCs over time; the detected concentrations of TCE, TCA and DCE in soil vapor during the February 2021 sample event are overall much lower (TCE was detected at concentrations ranging from non-detect [ND] to 11.4 ug/m<sup>3</sup>, TCA from ND to 466.02 ug/m<sup>3</sup> and DCE from ND to 4.84 ug/m<sup>3</sup>) than those previously detected within the plume as summarized in the ROD (TCE was previously detected at concentrations ranging from ND to 1,700 ug/m<sup>3</sup>, TCA from ND to 5,900 ug/m<sup>3</sup> and DCE from ND to 1,100 ug/m<sup>3</sup>) (NYSDEC, 2010) which supports that MNA is occurring.

The Site Monitoring Plan (Section 3) of the SMP indicates that "the frequency and selection of points for soil vapor sampling following the first five sample events, summarized in Table 3, will be evaluated with the NYSDEC and NYSDOH on the basis of the results of those events" (*i.e.*, the annual baseline soil vapor monitoring event completed in February of 2020 and the four



quarterly soil vapor monitoring events completed in July 2020, October 2020, January 2021 and April 2021). As requested, another full round of sampling at all 12 soil vapor point locations will be conducted in 2022 (concurrent with a groundwater sample event as in the past). Soil Vapor Point SV-09 will be abandoned and redrilled/replaced with a new soil vapor point (SV-09R) adjacent to the original location. A new Soil vapor point (SV-13) will be installed on property owned by SSG across the street from residential structures at 7532 Dryer Road and 7540 Dryer Road (that have historically not permitted access for SVI sampling). The other two residential structures (1125 Hunters Run and 7572 Trotwood Lane) already have permanent soil vapor points installed in the Right of Way (ROW) adjacent to each residence (SV-04 and SV-06, respectively).

## 6.0 REFERENCES

Bristol Consulting and Marks Engineering, P.C., *Site Management Plan*, Modock Road Springs/DLS Sand and Gravel, Inc. Inactive Hazardous Waste Site, Town of Victor, Ontario County, New York Site Number 8-35-013, March 2019

Marks Engineering, 2020, *Soil Vapor Point Installation and Sampling Report*, Modock Road Springs/DLS Sand and Gravel, Inc. Site Town of Victor, Ontario County, New York Site Number 8-35-013, April 2020 revised July 2020

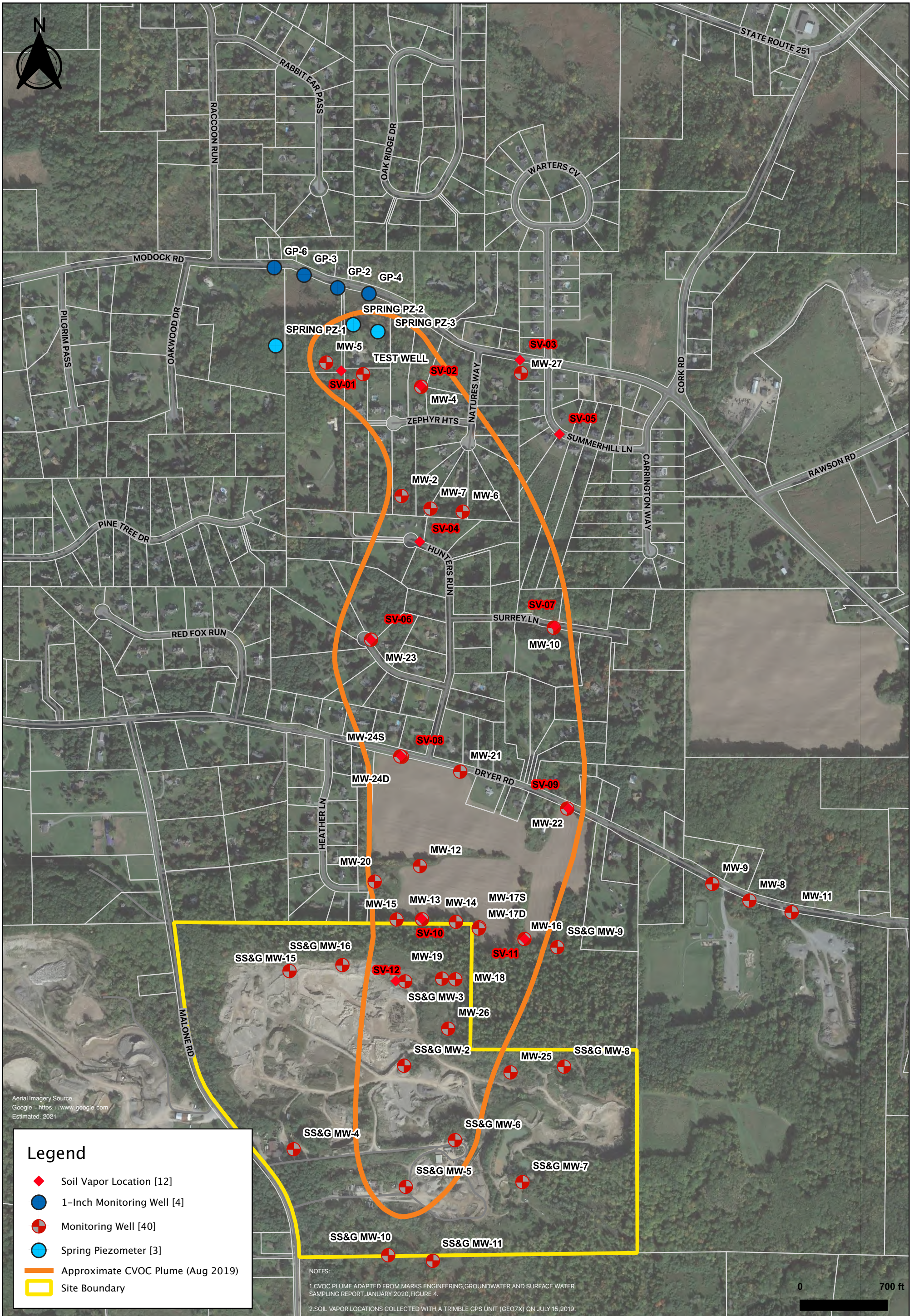
Marks Engineering, 2021, *Quarterly Groundwater and Surface Water Sampling Report, February 2021 Sample Event*, Modock Road Springs/DLS Sand and Gravel, Inc. Site Town of Victor, Ontario County, New York Site Number 8-35-013, April 2021

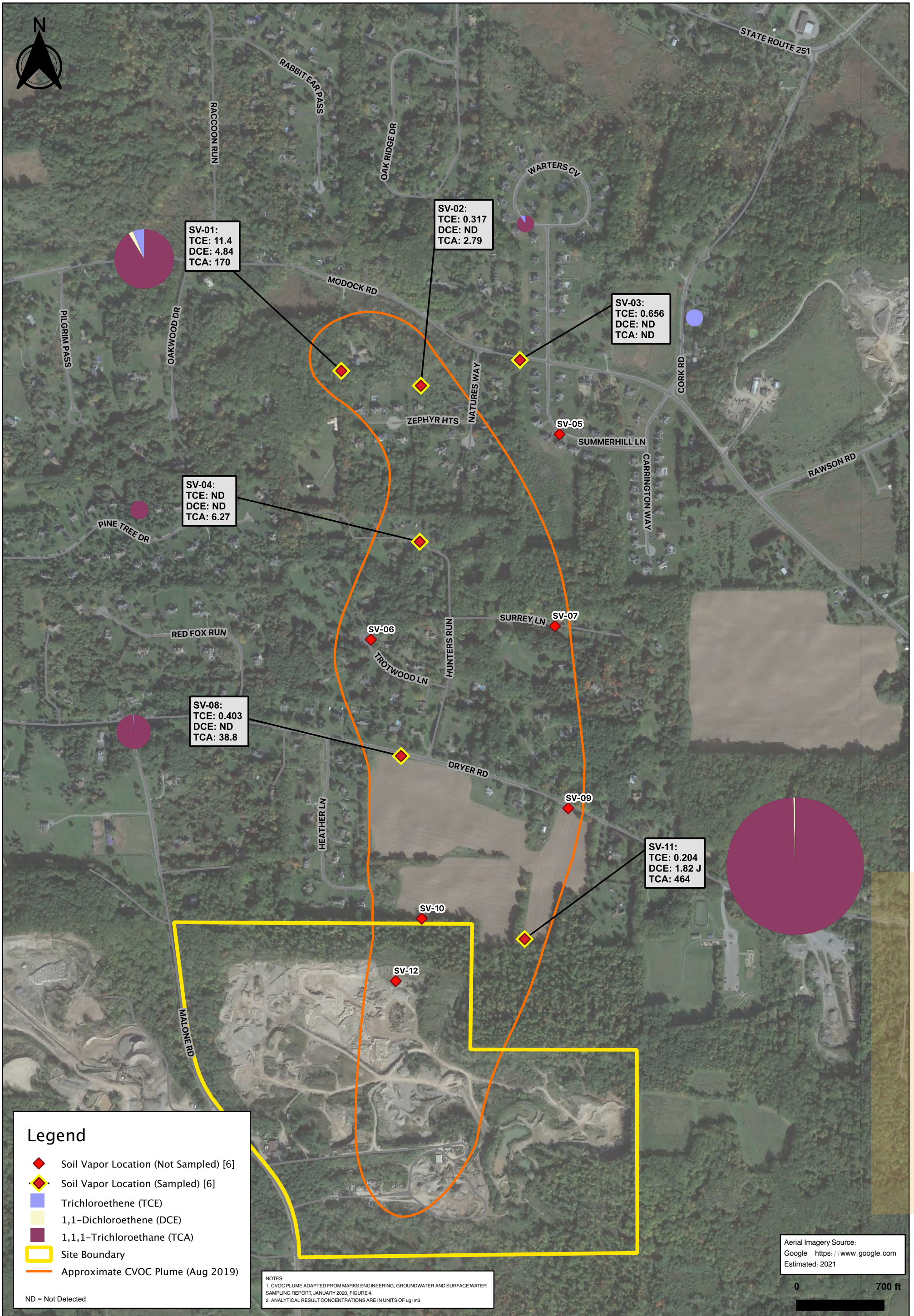
NYSDEC, 2010, *Record of Decision*, Modock Road Springs/DLS Sand and Gravel, Inc. Site Town of Victor, Ontario County, New York Site Number 8-35-013, January 2010

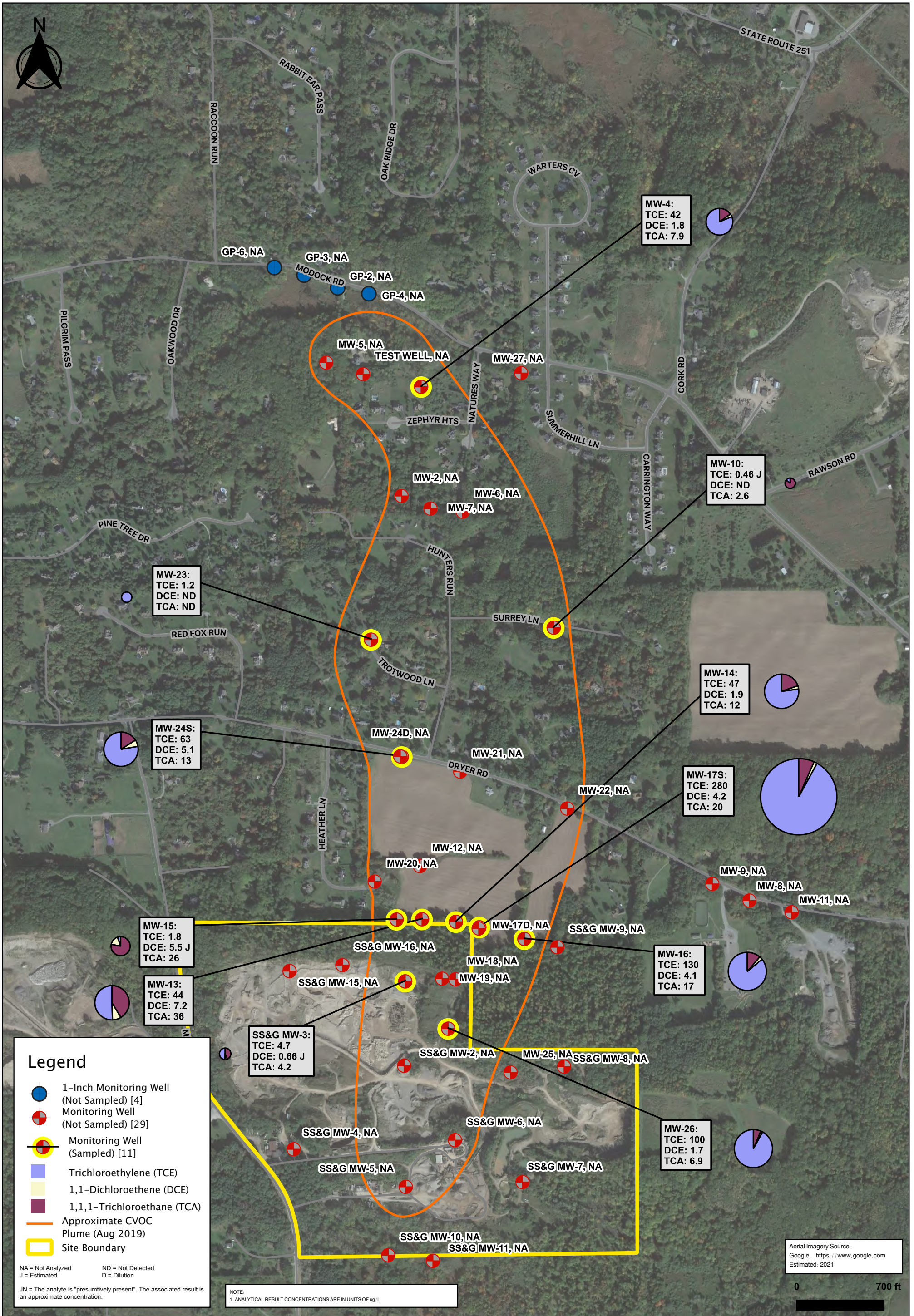
NYSDOH, 2006, *Guidance for Evaluating Soil Vapor Intrusion in the State of New York* (as amended through May 2017), October 2006



## Figures









## Tables

Table 1  
 Summary of Soil Vapor Sampling Program  
 April 2021 Sample Event  
 Modock Road Springs/DLS Sand Gravel Inc., Site  
 NYSDEC Site No. 8-35-013  
 Victor, New York

Soil Vapor Probe ID	Soil Vapor Probe Located	Soil Vapor Probe Sampled	Soil Vapor Sample Analyzed by Laboratory for TO15 VOCs	Notes
SV-01	Y	Y	Y	
SV-02	Y	Y	Y	
SV-03	Y	Y	Y	
SV-04	Y	Y	Y	
SV-08	Y	Y	Y	
SV-11	Y	Y	Y	

Table 2  
SOIL VAPOR VOCs ANALYTICAL DATA  
April 2021 Sample Event (green shading)  
Modock Road Springs/DLS Sand and Gravel, Inc. Site  
(NYSDEC HW ID 8-35-013)  
Victor, New York

CAS No.	Volatile Organic Compounds	UNIT	SV-01 2/19/2020	SV-01 7/24/2020	SV-01 10/14/2020	SV-01 1/21/2021	SV-01 4/29/2021	SV-02 7/24/2020	SV-02 10/14/2020	SV-02 1/21/2021	SV-02 4/28/2021	SV-03 7/24/2020	SV-03 10/14/2020	SV-03 1/21/2021	SV-03 4/28/2021	SV-04 2/19/2020	SV-04 7/24/2020	SV-04 10/14/2020	SV-04 1/21/2021	SV-04 4/28/2021	SV-05 2/19/2020	SV-06 2/19/2020	SV-07 2/19/2020	SV-08 2/19/2020	SV-08 7/24/2020	SV-08 10/14/2020		
Contaminants of Concern																												
79-01-6	Trichloroethene (TCE)	ug/m3	11.5	3.37	4.6	17.4	11.4	<0.107	<0.107	<0.107	0.317	<0.107	<0.107	<0.107	0.656	<0.107	<0.107	<0.107	<0.107	<0.107	<0.107	<0.177	<0.107	<0.172	<0.167	<0.107	<0.107	
71-55-6	1,1,1-Trichloroethane (TCA)	ug/m3	105	8.4	18	186	170	2.32	2.38	2.68	2.79	<0.109	<0.109	<0.109	<0.109	4.63	8.95	12.6	7.31	6.27	0.327	0.324	1.72	16.2	24.4	33.2		
75-35-4	1,1-Dichloroethene (DCE)	ug/m3	14	<0.079	<0.079	39.3	4.84	<0.079	<0.079	<0.079	<0.079	<0.079	<0.079	<0.079	<0.172	<0.079	<0.079	<0.079	<0.079	<0.079	<0.079	<0.131	<0.079	<0.603	<0.079	<0.079		
	Total Concentrations	ug/m3	130.5	11.77	22.6	242.7	186.24	2.32	2.38	2.68	3.107	ND	ND	ND	0.656	4.63	8.95	12.6	7.31	6.27	0.327	0.324	1.72	16.2	24.4	33.2		
Other Compounds																												
75-34-3	1,1-Dichloroethane	ug/m3	0.097	<0.081	<0.081	0.271	0.178	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.176	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.134	<0.081	<0.615	<0.081	<0.081		
79-00-5	1,1,2-Trichloroethane	ug/m3	<0.109	<0.109	<0.109	<0.109	<0.109	<0.109	<0.109	<0.109	<0.109	<0.109	<0.109	<0.109	<0.237	<0.109	<0.109	<0.109	<0.109	<0.109	<0.109	<0.180	<0.109	<0.829	<0.109	<0.109		
79-34-5	1,1,1,2-Tetrachloroethane	ug/m3	<0.137	<0.137	<0.137	<0.137	<0.137	<0.137	<0.137	<0.137	<0.137	<0.137	<0.137	<0.137	<0.299	<0.137	<0.137	<0.137	<0.137	<0.137	<0.137	<0.227	<0.137	<1.04	<0.137	<0.137		
120-82-1	1,2,4-Trichlorobenzene	ug/m3	<0.371	<0.371 UJ	<0.371	<0.371	<0.371	<0.371 UJ	<0.371	<0.371	<0.371	<0.371 UJ	<0.371	<0.371	<0.809	<0.371	<0.371 UJ	<0.371	<0.371	<0.371	<0.371	<0.612	<0.371	<2.83 UJ	<0.371 UJ	<0.371		
95-63-6	1,2,4-Trimethylbenzene	ug/m3	0.113	0.226	1.02	0.118	5.65	12.8	5.75	1.27	3.43	0.929	0.138	<0.098	0.246	4.22	16.6	6.88	2.22	2.98	3.3	2.77	0.612	2.98	8.41	4.71		
106-93-4	1,2-Dibromoethane	ug/m3	<0.154	<0.154	<0.154	<0.154	<0.154	<0.154	<0.154	<0.154	<0.154	<0.154	<0.154	<0.154	<0.334	<0.154	<0.154	<0.154	<0.154	<0.154	<0.154	<0.254	<0.154	<1.17	<0.154	<0.154		
95-50-1	1,2-Dichlorobenzene	ug/m3	<0.120	<0.120	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.262	<0.120	<0.120	<0.12	<0.12	<0.12	<0.120	<0.198	<0.120	<0.914	<0.120	<0.12		
107-06-2	1,2-Dichloroethane	ug/m3	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.176	<0.081	<0.081	<0.081	<0.081	<0.081	<0.081	<0.134	<0.081	<0.615	<0.081	<0.081		
78-87-5	1,2-Dichloropropane	ug/m3	<0.092	<0.092	<0.092	<0.092	<0.092	<0.092	<0.092	<0.092	<0.092	<0.092	<0.092	<0.092	<0.201	<0.092	<0.092	<0.092	<0.092	<0.092	<0.092	<0.153	<0.092	<0.702	<0.092	<0.092		
108-67-8	1,3,5-Trimethylbenzene	ug/m3	<0.098	0.172	0.29	<0.098	2.41	4.38	1.8	0.467	1.08	0.369	0.103	<0.098	<0.214	2.88	10.6	4.38	1.61	2.09	1.1	1.26	1.62	<0.747	7.67	3.89		
106-99-0	1,3-Butadiene	ug/m3	<0.044	<0.044	<0.044	<0.044	<0.044	0.069	<0.044	0.082	<0.044	<0.044	<0.044	<0.044	<0.096	<0.044	<0.044	<0.044	<0.044	0.08	<0.044	<0.073	<0.044	<0.336	<0.044	0.071		
541-73-1	1,3-Dichlorobenzene	ug/m3	<0.120	<0.120	<0.12	<0.12	<0.12	0.571	0.228	<0.12	0.198	<0.120	<0.12	<0.12	<0.262	<0.120	0.427	0.132	<0.12	0.162	<0.198	<0.120	<0.914	0.204	<0.12			
106-46-7	1,4-Dichlorobenzene	ug/m3	<0.120	<0.120	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.262	<0.120	<0.120	<0.12	<0.12	<0.12	<0.120	<0.198	<0.120	<0.914	<0.120	<0.12		
123-91-1	1,4-Dioxane	ug/m3	<0.360	<0.360	<0.36	<0.36	<0.36	<0.360	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.762	<0.360	<0.360	<0.36	<0.36	<0.36	<0.360	<0.595	<0.360	<2.75	<0.360	<0.36		
540-84-1	2,2,4-Trimethylpentane	ug/m3	<0.934	<0.934	<0.934	<0.934	<0.934	0.99	1.04	<0.934	3.57	0.981	<0.934	<2.03	<0.934	<0.934	<0.934	<0.934	<0.934	<0.934	<0.934	<0.934	2.2	<0.934	23.4	8.87	3.65	
78-93-3	2-Butanone	ug/m3	3.98	8.14	5.28	3.72	6.93	33.6	4.9	8.88	71.1	21.5	6.05	4.01	41	11.3	129	62.5	10.7	115	9.73	14.7	4.19	23.1	126	59.6		
591-78-6	2-Hexanone	ug/m3	0.836	2.41	0.91	<0.82	1.91	4.05	5.29	1.12	6.07	7.01	1.07	<0.82	9.55	<0.820	8.44	3.21	<0.82	5.9	<0.820	1.44	<0.820	<6.23	12.5	<0.82		
107-05-1	3-Chloropropene	ug/m3	<0.626	<0.626 UJ	<0.626	<0.626	<0.626	<0.626 UJ	<0.626	<0.626	<0.626 UJ	<0.626	<0.626	<0.626	<1.36	<0.626	<0.626 UJ	<0.626	<0.626	<0.626	<0.626	<1.03	<0.626	<4.76	<0.626 UJ	<0.626		
622-96-8	4-Ethyltoluene	ug/m3	<0.098	<0.098	<0.098	<0.098	2.19	2.48	1.34	0.197	0.506	0.3	<0.098	<0.098	<0.214	2.48	5.21	2.13	0.703	0.821	0.693	1.03	1.25	<0.747	3.67	2.11		
108-10-1	4-Methyl-2-pentanone	ug/m3	<2.05	<2.05	<2.05	<2.05	<2.05	<2.05	<2.05	<2.05	<2.05	<2.05	<2.05	<2.05	<4.47	<2.05	<2.05	<2.05	<2.05	<2.05	<2.05	<3.38	<2.05	<15.6	<2.05	<2.05		
67-64-1	Acetone	ug/m3	21.5	16.5	13.8	14	13	18.1	19.8	7.51	34.9	72.2	20.8	22.3	172	2.92	26.8	11.4	4.23	28.7	3.18	16.1	3.14	55.8	34.7	18.1		
71-43-2	Benzene	ug/m3	0.735	0.738	0.946	<0.319	<0.319	0.447	1.07	<0.319	0.422	<0.319	2.49	0.422	<0.319	1.57	<0.319	<0.319	<0.319	<0.319	<0.319	<0.319	0.722	0.511	<2.43	0.323	<0.319	
100-44-7	Benzyl chloride	ug/m3	<1.04	<1.04	<1.04	<1.04	<1.04	<1.04	<1.04	<1.04	<1.04	<1.04	<1.04	<1.04	<2.25	<1.04	<1.04	<1.04	<1.04	<1.04	<1.04	<1.71	<1.04	<7.87	<1.04	<1.04		
75-27-4	Bromodichloromethane	ug/m3	<0.134	<0.134	<0.134	<0.134	<0.134	<0.134	<0.134	<0.134	<0.134	<0.134	<0.134	<0.134	<0.291	<0.134	<0.134	<0.134	<0.134	<0.134	<0.221	<0.134	<1.02	<0.134	<0.134			
75-25-2	Bromoform	ug/m3	<0.207	<0.207	<0.207	<0.207	<0.207	<0.207	<0.207	<0.207	<0.207	<0.207	<0.207	<0.207	<0.45	<0.207	<0.207	<0.207	<0.207	<0.207	<0.207	<0.341	<0.207	<1.57	<0.207	<0.207		
74-83-9	Bromomethane	ug/m3	<0.078	<0.078	<0.078	<0.078	<0.078	<0.078	<0.078	<0.078	<0.078	<0.078	<0.078	<0.169	<0.078	0.4	<0.078	<0.078	<0.078	<0.078	<0.078	<0.128	<0.078	<0.590	<0.078	<0.078		
75-15-0	Carbon disulfide	ug/m3	<0.623	<0.623	<0.623	<0.623	<0.623	250 D	37.1	11.9	101	2.45	0.76	0.747	2.8	21.4	215 D	1.73	<0.623	2.16	16.9	2.46	15.9	<4.73	7.38	0.726		
56-23-5	Carbon tetrachloride	ug/m3	0.201	0.289	0.264	0.377	0.403	0.208	0.176	<0.126	0.201	<0.126	<0.126	<0.126	<0.274	<0.126	0.132	<0.126	<0.126	<0.126	0.138	<0.208	<0.126	<0.956	<0.126	<0.126		
100-90-7	Chlorobenzene	ug/m3	<0.461	<0.461	<0.461	<0.461	<0.461	<0.461	<0.461	<0.461	<0.461	<0.461	<0.461	<0.461	<0.999	<0.461	<0.461	<0.461	<0.461	<0.461	<0.461	<0.760	<0.461	<3.51	<0.461	<0.461		
75-00-3	Chloroethane	ug/m3	<0.264	<0.264	<0.264	<0.264	<0.264	<0.264	<0.264	<0.264	<0.264	<0.264	<0.264	<0.264	<0.593	<0.264	<0.264	<0.264	<0.264	<0.264	<0.264	<0.435	<0.264	<2.01	<0.264	<0.264		
67-66-3	Chloroform	ug/m3	0.234	0.493	<0.098	0.259	0.327	<0.098	<0.098	<0.098	0.273	0.147	<0.098	<0.212	<0.09													



Table 2  
SOIL VAPOR VOCs ANALYTICAL DATA  
April 2021 Sample Event (green shading)  
Modock Road Springs/DLS Sand and Gravel, Inc. Site  
(NYSDEC HW ID 8-35-013)  
Victor, New York

CAS No.	Volatile Organic Compounds	SV-08 1/21/2021	SV-08 4/28/2021	SV-10 2/19/2020	SV-10 DUPO21920 2/19/2020	SV-11 2/19/2020	SV-11 7/24/2020	SV-11 10/14/2020	SV-11 DUPO11320 10/14/2020	SV-11 1/21/2021	SV-11 DUPO12121 1/21/2021	SV-11 4/28/2021	SV-11 DUO42821 4/28/2021	SV-12 2/19/2020
<b>Contaminants of Concern</b>														
79-01-6	Trichloroethene (TCE)	<0.107	<b>0.403</b>	<b>0.597</b>	<b>0.881</b>	<0.107	<b>0.263</b>	<0.358	<b>0.461</b>	<b>0.199</b>	<b>0.177</b>	<b>0.134</b>	<b>0.204</b>	<b>0.29</b>
71-55-6	1,1,1-Trichloroethane (TCA)	<b>33.2</b>	<b>38.8</b>	<b>79.7</b>	<b>133</b>	<b>227</b>	<b>470 D</b>	<b>677</b>	<b>698</b>	<b>432</b>	<b>411</b>	<b>357</b>	<b>464</b>	<b>10.3</b>
75-35-4	1,1-Dichloroethene (DCE)	<0.079	<0.238	<b>0.666</b>	<b>0.896</b>	<b>0.896</b>	<b>0.777</b>	<b>0.607</b>	<b>0.65</b>	<b>0.956</b>	<b>0.936</b>	<b>1.23</b>	<b>1.82 J</b>	<b>3.63</b>
	Total Concentrations	<b>33.20</b>	<b>39.203</b>	<b>80.963</b>	<b>134.777</b>	<b>227.896</b>	<b>471.04</b>	<b>677.607</b>	<b>699.111</b>	<b>433.16</b>	<b>412.11</b>	<b>358.36</b>	<b>466.02</b>	<b>14.22</b>
<b>Other Compounds</b>														
75-34-3	1,1-Dichloroethane	<0.081	<0.243	<0.081	<0.081	<0.081	<0.081	<0.27	<0.289	<0.081	<0.081	<0.081	<0.081	<0.081
79-00-5	1,1,2-Trichloroethane	<0.109	<0.327	<0.109	<0.109	<0.109	<0.109	<0.364	<0.39	<0.109	<0.109	<0.109	<0.109	<0.109
79-34-5	1,1,2,2-Tetrachloroethane	<0.137	<0.412	<0.137	<0.137	<0.137	<0.137	<0.458	<0.49	<0.137	<0.137	<0.137	<0.137	<0.137
120-82-1	1,2,4-Trichlorobenzene	<0.371	<1.11	<0.371 UJ	<0.371	<0.371 UJ	<0.371 UJ	<1.24	<1.32	<0.371	<0.371	<0.371	<0.371	<0.371 UJ
95-63-6	1,2,4-Trimethylbenzene	<b>2.65</b>	<b>0.31</b>	<b>1.44</b>	<b>1.85</b>	<b>0.334</b>	<b>0.688</b>	<b>0.369</b>	<0.098	<0.098	<b>1.7</b>	<b>2.4 J</b>	<b>0.598</b>	<0.098
106-93-4	1,2-Dibromoethane	<0.154	<0.461	<0.154	<0.154	<0.154	<0.154	<0.513	<0.549	<0.154	<0.154	<0.154	<0.154	<0.154
95-50-1	1,2-Dichlorobenzene	<0.12	<0.361	<0.120	<0.120	<0.120	<0.120	<0.401	<0.429	<0.12	<0.12	<0.12	<0.12	<0.120
107-06-2	1,2-Dichloroethane	<0.081	<0.243	<0.081	<0.081	<0.081	<0.081	<0.27	<0.289	<0.081	<0.081	<0.081	<0.081	<0.081
78-87-5	1,2-Dichloropropane	<0.092	<0.277	<0.092	<0.092	<0.092	<0.092	<0.308	<0.33	<0.092	<0.092	<0.092	<0.092	<0.092
108-67-8	1,3,5-Trimethylbenzene	<b>2.67</b>	<0.295	<b>0.359</b>	<b>0.428</b>	<b>0.123</b>	<b>0.192</b>	<b>0.328</b>	<0.351	<0.098	<0.098	<b>0.369</b>	<b>0.467</b>	<0.098
106-99-0	1,3-Butadiene	<0.044	<b>0.139</b>	<0.044	<0.044	<0.044	<0.044	<0.148	<0.158	<0.044	<0.044	<b>0.049</b>	<b>0.08</b>	<0.044
541-73-1	1,3-Dichlorobenzene	<0.12	<0.361	<0.120	<0.120	<0.120	<0.120	<0.401	<0.429	<0.12	<0.12	<0.12	<0.12	<0.120
106-46-7	1,4-Dichlorobenzene	<0.12	<0.361	<0.120	<0.120	<0.120	<0.120	<0.401	<0.429	<0.12	<0.12	<0.12	<0.12	<0.120
123-91-1	1,4-Dioxane	<0.36	<1.08	<0.360	<0.360	<0.360	<0.360	<1.2	<1.29	<0.36	<0.36	<0.36	<0.36	<0.360
540-84-1	2,2,4-Trimethylpentane	<0.934	<b>3.36</b>	<b>1.8</b>	<b>1.46</b>	<0.934	<0.934	<3.12	<3.33	<0.934	<0.934	<0.934	<0.934	<0.934
78-93-3	2-Butanone	<b>9.76</b>	<b>108</b>	<b>27.1</b>	<b>36.3</b>	<b>6.37</b>	<b>109</b>	<b>7.37</b>	<b>6.61</b>	<b>4.42</b>	<b>4.48</b>	<b>26.8</b>	<b>38.9 J</b>	<b>48.7</b>
591-78-6	2-Hexanone	<0.82	<2.46	<b>1.27</b>	<b>1.92</b>	<b>0.988</b>	<b>25.1</b>	<2.73	<2.93	<0.82	<0.82	<b>4.59</b>	<b>7.5</b>	<b>2.93</b>
107-05-1	3-Chloropropene	<0.626	<1.88	<0.626	<0.626	<0.626	<0.626 UJ	<2.09	<2.23	<0.626	<0.626	<0.626	<0.626	<0.626
622-96-8	4-Ethyltoluene	<b>0.929</b>	<0.295	<b>0.418</b>	<b>0.526</b>	<0.098	<0.098	<0.328	<0.351	<0.098	<0.098	<b>0.398</b>	<b>0.57</b>	<0.098
108-10-1	4-Methyl-2-pentanone	<2.05	<6.15	<2.05	<2.05	<2.05	<2.05	<6.84	<7.29	<2.05	<2.05	<2.05	<2.05	<2.05
67-64-1	Acetone	<b>8.39</b>	<b>54.2</b>	<b>11.9</b>	<b>15.1</b>	<b>40.9</b>	<b>337</b>	<b>35.9</b>	<b>39</b>	<b>16.9</b>	<b>17.5</b>	<b>126</b>	<b>184</b>	<b>9.91</b>
71-43-2	Benzene	<0.319	<0.958	<b>2.14</b>	<b>2.64</b>	<b>1.12</b>	<b>6.01</b>	<1.06	<1.14	<0.319	<0.319	<b>0.677</b>	<b>0.837</b>	<b>0.591</b>
100-44-7	Benzyl chloride	<1.04	<3.11	<1.04	<1.04	<1.04	<1.04	<3.45	<3.7	<1.04	<1.04	<1.04	<1.04	<1.04
75-27-4	Bromodichloromethane	<0.134	<0.402	<0.134	<0.134	<0.134	<0.134	<0.447	<0.478	<0.134	<0.134	<0.134	<0.134	<0.134
75-25-2	Bromoform	<0.207	<0.62	<0.207	<0.207	<0.207	<0.207	<0.69	<0.738	<0.207	<0.207	<0.207	<0.207	<0.207
74-83-9	Bromomethane	<0.078	<0.233	<0.078	<0.078	<0.078	<0.078	<0.259	<0.277	<0.078	<0.078	<0.078	<0.078	<0.078
75-15-0	Carbon disulfide	<0.623	<1.87	<b>0.707</b>	<b>1.02</b>	<0.623	<b>2.92</b>	<2.08	<2.22	<0.623	<0.623	<0.623	<0.623	<b>2.34</b>
56-23-5	Carbon tetrachloride	<0.126	<0.377	<0.126	<0.126	<0.126	<b>0.157</b>	<0.42	<0.449	<b>0.352</b>	<b>0.359</b>	<b>0.359</b>	<b>0.283</b>	<b>0.359</b>
108-90-7	Chlorobenzene	<0.461	<1.38	<0.461	<0.461	<0.461	<0.461	<1.53	<1.64	<0.461	<0.461	<0.461	<0.461	<0.461
75-00-3	Chloroethane	<0.264	<0.792	<0.264	<0.264	<0.264	<0.264	<0.879	<0.942	<0.264	<0.264	<0.264	<0.264	<0.264
67-66-3	Chloroform	<b>0.107</b>	<b>1.58</b>	<0.098	<0.098	<b>0.112</b>	<b>0.205</b>	<0.326	<0.349	<b>0.122</b>	<b>0.137</b>	<b>0.107</b>	<b>0.137</b>	<0.098
74-87-3	Chloromethane	<0.413	<1.24	<0.413	<0.413	<0.413	<0.413	<1.38	<1.47	<0.413	<0.413	<b>0.522</b>	<0.413	<0.413
156-59-2	cis-1,2-Dichloroethene	<0.079	<0.238	<0.079	<0.079	<0.079	<0.079	<0.264	<0.283	<0.079	<0.079	<0.079	<0.079	<0.079
10061-01-	cis-1,3-Dichloropropene	<0.091	<0.272	<0.091	<0.091	<0.091	<0.091	<0.303	<0.324	<0.091	<0.091	<0.091	<0.091	<0.091
110-82-7	Cyclohexane	<0.688	<2.07	<0.688	<0.688	<0.688	<0.688	<2.3	<2.46	<0.688	<0.688	<0.688	<0.688	<0.688
124-48-1	Dibromochloromethane	<0.17	<0.511	<0.170	<0.170	<0.170	<0.170	<0.568	<0.608	<0.17	<0.17	<0.17	<0.17	<0.170
75-71-8	Dichlorodifluoromethane	<b>2.24</b>	<2.97	<b>1.57</b>	<b>2.23</b>	<b>1.69</b>	<b>1.96</b>	<3.3	<3.53	<b>2.19</b>	<b>2.25</b>	<b>2.12</b>	<b>1.93</b>	<b>1.79</b>
64-17-5	Ethanol	<9.42	<28.3	<9.42	<9.42	<9.42	<b>22.6</b>	<31.5	<33.5	<9.42	<9.42	<b>9.95</b>	<b>11.8</b>	<9.42
141-78-6	Ethyl Acetate	<1.8	<5.41	<1.80	<1.80	<1.80	<1.80	<6.02	<6.41	<1.8	<1.8	<1.8	<1.8	<1.80
100-41-4	Ethylbenzene	<b>0.63</b>	<0.261	<b>4.34</b>	<b>5.69</b>	<0.087	<b>0.269</b>	<0.29	<0.31	<0.087	<0.087	<b>0.539</b>	<b>0.665</b>	<0.087
76-13-1	Freon-113	<b>0.866</b>	<1.15	<b>1.05</b>	<b>1.31</b>	<b>4.84</b>	<b>15.8</b>	<b>11.5</b>	<b>11.6</b>	<b>7.97</b>	<b>7.97</b>	<b>4.72</b>	<b>6.63 J</b>	<b>1.02</b>
76-14-2	Freon-114	<0.349	<1.05	<0.349	<0.349	<0.349	<0.349	<1.17	<1.24	<0.349	<0.349	<0.349	<0.349	<0.349
142-82-5	Heptane	<b>1.48</b>	<b>3.79</b>	<b>2.43</b>	<b>3.47</b>	<0.820	<b>0.832</b>	<2.73	<2.93	<0.82	<0.82	<b>2.31</b>	<b>3.17</b>	<0.820
87-68-3	Hexachlorobutadiene	<0.533	<1.6	<0.533	<0.533	<0.533	<0.533	<1.78	<1.9	<0.533	<0.533	<0.533	<0.533	<0.533
67-63-0	Isopropanol	<1.23	<3.69	<1.23	<1.23	<1.23	<b>1.45</b>	<4.1	<4.38	<1.23	<1.23	<b>2.22</b>	<1.23	<1.23
1634-04-4	Methyl tert butyl ether	<0.721	<2.16	<0.721	<0.721	<0.721	<0.721	<2.4	<2.57	<0.721	<0.721	<0.721	<0.721	<0.721
75-09-2	Methylene chloride	<1.74	<5.21	<1.74	<1.74	<1.74	<1.74	<5.8	<6.18	<1.74	<1.74	<1.74	<1.74	<1.74
110-54-3	n-Hexane	<0.705	<2.11	<b>2.49</b>	<b>2.4</b>	<0.705	<b>1.04</b>	<2.35	<2.52	<0.705	<0.705	<0.705	<b>0.814</b>	<b>1.1</b>
95-47-6	o-Xylene	<b>3.35</b>	<b>0.404</b>	<b>5.04</b>	<b>6.78</b>	<b>0.104</b>	<b>0.434</b>	<b>0.333</b>	<0.31	<0.087	<0.087	<b>0.877</b>	<b>1.08</b>	<0.087
179601-23	p/m-Xylene	<b>7.6</b>	<b>0.808</b>	<b>15.6</b>	<b>20.7</b>	<0.174	<b>1</b>	<b>0.869</b>	<0.621	<0.174	<0.174	<b>2.54</b>	<b>3.21</b>	<0.174
100-42-5	Styrene	<0.085	<0.255	<0.085	<0.085	<0.085	<b>0.149</b>	<0.284	<0.304	<0.085	<0.085	<b>0.498</b>	<b>0.4</b>	<0.085
75-65-0	Tertiary butyl Alcohol	<b>12.9</b>	<b>80.9</b>	<1.52	<1.52	<1.52	<b>4.52</b>	<5.06	<5.4	<1.52	<1.52	<b>2.5</b>	<b>3.24</b>	<1.52
127-18-4	Tetrachloroethene	<b>0.231</b>	<0.407	<b>4.56</b>	<b>2.71</b>	<b>0.373</b>	<b>0.332</b>	<0.452	<0.484	<b>50.3</b>	<b>25.2</b>	<0.136	<0.136	<b>0.332</b>
109-99-9	Tetrahydrofuran	<1.47	<4.42	<1.47	<1.47	<1.47	<1.47	<4.93	<5.25	<1.47	<1.47	<1.47	<1.47	<1.47
108-88-3	Toluene	<0.188												



# **Appendix A**

## **Soil Vapor Sampling Logs**

### Air/Soil Gas Sampling Form

Project # NYSDEC Site No. 8-35-013  
 Project Name Modock Rd. Springs/DLS Sand & Gravel

Date ~~4/27/2021~~ 4/29/21  
 Personnell J. Wolf / J. Moore

Type of sample: (Circle one)      Indoor air      Substructure soil gas      Ambient air      Soil gas

Sample Location SJ-01

Canister Record  
 Canister ID 2270  
 Flow controller ID 02097  
 Sample duration 4 HRS  
 Sampling rate 0.020 l/min

Sample ID SJ-01  
 Date/Time start 4/29/21 1240  
 Date/Time end 4/29/21 1440

Start pressure -29.33  
 End pressure -6.68

Complete all that apply:

Air temperature (°F) 50°F  
 Barometric pressure \_\_\_\_\_  
 PID reading (before) 0.1  
 PID reading (after) 0.0

PID meter ID \_\_\_\_\_  
 FID meter ID \_\_\_\_\_  
 Gas analyzer ID \_\_\_\_\_  
 Ft. tubing used \_\_\_\_\_

% O<sub>2</sub> \_\_\_\_\_  
 % CO<sub>2</sub> \_\_\_\_\_  
 % CH<sub>4</sub> \_\_\_\_\_

For indoor location:

Noticeable odor \_\_\_\_\_  
 Floor slab depth \_\_\_\_\_  
 Intake height above floor (ft) \_\_\_\_\_  
 Intake depth below floor (ft) \_\_\_\_\_  
 Ground surface type \_\_\_\_\_  
 Potential vapor entry points observed \_\_\_\_\_  
 Room \_\_\_\_\_  
 Story/level \_\_\_\_\_

For outdoor location:

Noticeable odor No  
 Distance to road (ft) 12' to driveway  
 Direction to closest building (degrees) 60°  
 Distance to closest building (ft) 100 YDS  
 Intake height above ground level (ft) N/A  
 Intake depth below ground level (ft) 6-8' BGS  
 Soil type \_\_\_\_\_

Comments:

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Analytical method required USEPA Method TO-15 SIM  
 Laboratory used ALPHA Analytical Mansfield, MA

### Air/Soil Gas Sampling Form

Project # NYSDEC Site No. 8-35-013  
 Project Name Modock Rd. Springs/DLS Sand & Gravel

Date ~~4/27/2021~~ 4/28/21  
 Personnell J. Wolf / J. Moore

Type of sample: (Circle one)      Indoor air      Substructure soil gas      Ambient air      Soil gas

Sample Location  
SJ-02

Canister Record  
 Canister ID 1642  
 Flow controller ID 02092  
 Sample duration 41/15  
 Sampling rate 0.020 l/min

Sample ID SJ-02  
 Date/Time start 4/28/21 0950  
 Date/Time end 4/28/21 1350

Start pressure -29.66  
 End pressure -8.67

**Complete all that apply:**

Air temperature (°F) 55°F  
 Barometric pressure \_\_\_\_\_  
 PID reading (before) 0.0  
 PID reading (after) 0.0

PID meter ID \_\_\_\_\_  
 FID meter ID \_\_\_\_\_  
 Gas analyzer ID \_\_\_\_\_  
 Ft. tubing used \_\_\_\_\_

% O<sub>2</sub> \_\_\_\_\_  
 % CO<sub>2</sub> \_\_\_\_\_  
 % CH<sub>4</sub> \_\_\_\_\_

For indoor location:

Noticeable odor \_\_\_\_\_  
 Floor slab depth \_\_\_\_\_  
 Intake height above floor (ft) \_\_\_\_\_  
 Intake depth below floor (ft) \_\_\_\_\_  
 Ground surface type \_\_\_\_\_  
 Potential vapor entry points observed \_\_\_\_\_  
 Room \_\_\_\_\_  
 Story/level \_\_\_\_\_

For outdoor location:

Noticeable odor No  
 Distance to road (ft) Back Yard Residential  
 Direction to closest building (degrees) \_\_\_\_\_  
 Distance to closest building (ft) \_\_\_\_\_  
 Intake height above ground level (ft) N/A  
 Intake depth below ground level (ft) 6-8' BGS  
 Soil type \_\_\_\_\_

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Analytical method required USEPA Method TO-15 SIM  
 Laboratory used ALPHA Analytical Mansfield, MA

### Air/Soil Gas Sampling Form

Project # NYSDEC Site No. 8-35-013  
 Project Name Modock Rd. Springs/DLS Sand & Gravel

Date ~~4/27/2021~~ 4/28/21  
 Personnell J. Wolf / J. Moore

Type of sample: (Circle one)      Indoor air      Substructure soil gas      Ambient air      Soil gas

Sample Location  
SU-03

Canister Record  
 Canister ID 3377  
 Flow controller ID 01029  
 Sample duration 4 HRS  
 Sampling rate 0.020 L/min

Sample ID SU-03  
 Date/Time start 4/28/21 ~~29.10~~ 1015  
 Date/Time end 4/28/21 1415

Start pressure -29.10  
 End pressure -19.98

Complete all that apply:

Air temperature (°F) <u>55°</u>	PID meter ID <u>                    </u>	% O <sub>2</sub> <u>                    </u>
Barometric pressure <u>                    </u>	FID meter ID <u>                    </u>	% CO <sub>2</sub> <u>                    </u>
PID reading (before) <u>0.0</u>	Gas analyzer ID <u>                    </u>	% CH <sub>4</sub> <u>                    </u>
PID reading (after) <u>0.0</u>	Ft. tubing used <u>                    </u>	

For indoor location:

For outdoor location:

Noticeable odor                       
 Floor slab depth                       
 Intake height above floor (ft)                       
 Intake depth below floor (ft)                       
 Ground surface type                       
 Potential vapor entry points observed                       
 Room                       
 Story/level                     

Noticeable odor No  
 Distance to road (ft) 12'  
 Direction to closest building (degrees) 180°  
 Distance to closest building (ft) 75 YDS  
 Intake height above ground level (ft) N/A  
 Intake depth below ground level (ft) 6-8' BGS  
 Soil type                     

Comments:  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Analytical method required USEPA Method TO-15 SIM  
 Laboratory used ALPHA Analytical Mansfield, MA

### Air/Soil Gas Sampling Form

Project # NYSDEC Site No. 8-35-013  
 Project Name Modock Rd. Springs/DLS Sand & Gravel

Date ~~4/27/2021~~ 4/28/21  
 Personnell J. Wolf / J. Moore

Type of sample:  
 (Circle one)      Indoor air      Substructure soil gas      Ambient air      Soil gas

Sample Location  
SV-04

Canister Record  
 Canister ID 931  
 Flow controller ID 0975  
 Sample duration 4 HRS  
 Sampling rate 0.020 l/min

Sample ID SV-04  
 Date/Time start 4/28/21 0825  
 Date/Time end 4/28/21 1225

Start pressure -29.23  
 End pressure -5.70

Complete all that apply:

Air temperature (°F) <u>54° F</u>	PID meter ID <u>  </u>	% O <sub>2</sub> <u>  </u>
Barometric pressure <u>  </u>	FID meter ID <u>  </u>	% CO <sub>2</sub> <u>  </u>
PID reading (before) <u>0.0</u>	Gas analyzer ID <u>  </u>	% CH <sub>4</sub> <u>  </u>
PID reading (after) <u>0.0</u>	Ft. tubing used <u>  </u>	

For indoor location:

Noticeable odor     
 Floor slab depth     
 Intake height above floor (ft)     
 Intake depth below floor (ft)     
 Ground surface type     
 Potential vapor entry points observed     
 Room     
 Story/level   

For outdoor location:

Noticeable odor No  
 Distance to road (ft) 9'  
 Direction to closest building (degrees) 50 YDS  
 Distance to closest building (ft) 90°  
 Intake height above ground level (ft) N/A  
 Intake depth below ground level (ft) 6-8' BGS  
 Soil type   

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Analytical method required USEPA Method TO-15 SIM  
 Laboratory used ALPHA Analytical Mansfield, MA

### Air/Soil Gas Sampling Form

Project # NYSDEC Site No. 8-35-013  
 Project Name Modock Rd. Springs/DLS Sand & Gravel

Date ~~4/27/2021~~ 4/28/21  
 Personnell J. Wolf / J. Moore

Type of sample:  
 (Circle one)      Indoor air      Substructure soil gas      Ambient air      Soil gas

Sample Location  
SV-08

Canister Record  
 Canister ID ~~3465~~ ~~3377~~ 1676  
 Flow controller ID ~~0543~~ ~~01785~~ 0543  
 Sample duration 5 HRS 40 min  
 Sampling rate 0.020 l/min

Sample ID SV-08  
 Date/Time start 4/28/21 ~~0845~~  
 Date/Time end 4/29/21 1425

Start pressure -29.42  
 End pressure -22.62

Complete all that apply:

Air temperature (°F) <u>54° F</u>	PID meter ID <u>  </u>	% O <sub>2</sub> <u>  </u>
Barometric pressure <u>  </u>	FID meter ID <u>  </u>	% CO <sub>2</sub> <u>  </u>
PID reading (before) <u>0.0</u>	Gas analyzer ID <u>  </u>	% CH <sub>4</sub> <u>  </u>
PID reading (after) <u>0.0</u>	Ft. tubing used <u>  </u>	

For indoor location:

For outdoor location:

Noticeable odor     
 Floor slab depth     
 Intake height above floor (ft)     
 Intake depth below floor (ft)     
 Ground surface type     
 Potential vapor entry points observed     
 Room     
 Story/level   

Noticeable odor No  
 Distance to road (ft) 8'  
 Direction to closest building (degrees) 20°  
 Distance to closest building (ft) 55 YDS  
 Intake height above ground level (ft) N/A  
 Intake depth below ground level (ft) 6-8' BGS  
 Soil type   

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Analytical method required USEPA Method TO-15 SIM  
 Laboratory used ALPHA Analytical Mansfield, MA

### Air/Soil Gas Sampling Form

Project # NYSDEC Site No. 8-35-013  
 Project Name Modock Rd. Springs/DLS Sand & Gravel

Date ~~4/27/2021~~ 4/28/21  
 Personnell J. Wolf / J. Moore

Type of sample: (Circle one)      Indoor air      Substructure soil gas      Ambient air      Soil gas

Sample Location  
SU-11

Canister Record  
 Canister ID 2054  
 Flow controller ID 01389  
 Sample duration 4 HRS  
 Sampling rate 0.020 L/min

Sample ID SU-11  
 Date/Time start 4/28/21 0925  
 Date/Time end 4/28/21 1325

Start pressure -29.27  
 End pressure -8.90

Complete all that apply:

Air temperature (°F) \_\_\_\_\_  
 Barometric pressure \_\_\_\_\_  
 PID reading (before) 0.0  
 PID reading (after) 0.0

PID meter ID \_\_\_\_\_  
 FID meter ID \_\_\_\_\_  
 Gas analyzer ID \_\_\_\_\_  
 Ft. tubing used \_\_\_\_\_

% O<sub>2</sub> \_\_\_\_\_  
 % CO<sub>2</sub> \_\_\_\_\_  
 % CH<sub>4</sub> \_\_\_\_\_

For indoor location:

Noticeable odor \_\_\_\_\_  
 Floor slab depth \_\_\_\_\_  
 Intake height above floor (ft) \_\_\_\_\_  
 Intake depth below floor (ft) \_\_\_\_\_  
 Ground surface type \_\_\_\_\_  
 Potential vapor entry points observed \_\_\_\_\_  
 Room \_\_\_\_\_  
 Story/level \_\_\_\_\_

For outdoor location:

Noticeable odor No  
 Distance to road (ft) Farm Field  
 Direction to closest building (degrees) 350°  
 Distance to closest building (ft) 300 YDS  
 Intake height above ground level (ft) N/A  
 Intake depth below ground level (ft) 6-8' BGS  
 Soil type \_\_\_\_\_

Comments: Collected DUP : DUP ID : DUPO42821  
START TIME : 0945      END TIME : 1345  
CAN ID : 3297  
FLOW ID : 01785  
START Pressure : -29.30  
End Pressure : -7.64

Analytical method required USEPA Method TO-15 SIM  
 Laboratory used ALPHA Analytical Mansfield, MA





# **Appendix B**

## **Chain of Custody Form**



# AIR ANALYSIS

320 Forbes Blvd, Mansfield, MA 02048  
TEL: 508-822-9300 FAX: 508-822-3288

PAGE 1 OF 1

Date Rec'd in Lab: 5-1-21

ALPHA Job #: L2122351

### Client Information

Client: Marks Engineering  
Address: 42 Beaman Street  
Canandaigua NY 14424  
Phone: 585-500-8392  
Fax:  
Email: JWolf@MarksEngineering.com

### Project Information

Project Name: Modack Rd Springs/DLS  
Project Location: Victor NY  
Project #: 21-006C  
Project Manager: Jeremy Wolf  
ALPHA Quote #: 10613

### Turn-Around Time

Standard  RUSH (only confirmed if pre-approved)

Date Due: Time:

### Report Information - Data Deliverables

FAX  
 ADEx  
Criteria Checker:  
(Default based on Regulatory Criteria Indicated)  
Other Formats:  
 EMAIL (standard pdf report)  
 Additional Deliverables:  
CAT B CMVDEC EPO  
Report to: (if different than Project Manager)

### Billing Information

Same as Client Info PO #: 21-006C

### Regulatory Requirements/Report Limits

State/Fed Program Res / Comm

These samples have been previously analyzed by Alpha  
Other Project Specific Requirements/Comments:  
Project-Specific Target Compound List:

Modack Rd Springs/DLS

### ANALYSIS

### All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION					Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller	TO-15	TO-15 SIM	APH Subtract Non-petroleum HCs	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
		End Date	Start Time	End Time	Initial Vacuum	Final Vacuum											
22351-01	SV-01	4/29/21	1240	1440	-29.33	-6.68	SV	JSW	6L	2220	02097	X				0.1	
02	SV-02	4/28/21	0950	1350	-29.66	-8.67	SV	JSW	6L	1642	02092	X				0.1	
03	SV-03	4/28/21	1015	1415	-29.10	-19.98	SV	JSW	6L	3377	01029	X				0.0	
04	SV-04	4/28/21	0825	1225	-29.23	-5.70	SV	JSW	6L	931	0975	X				0.0	
05	SV-08	4/28/21	0845	1425	-29.42	-22.62	SV	JSW	6L	1676	0543	X				0.0	
06	SV-11	4/28/21	0925	1325	-29.27	-8.90	SV	JSW	6L	2054	01389	X				0.0	
07	DUP 042821	4/28/21	0945	1345	-29.30	-7.64	SV	JSW	6L	2577	01785	X				0.0	

### \*SAMPLE MATRIX CODES

AA = Ambient Air (Indoor/Outdoor)  
SV = Soil Vapor/Landfill Gas/SVE  
Other = Please Specify

Container Type

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Relinquished By:

Date/Time

Received By:

Date/Time:

Jeremy Wolf  
R Cunningham  
C J...  
K... 1023 5/1/21

4/30/21 12:00  
5/1/21 08:20

R Cunningham  
...  
... 5-1-21 1025

4/30/21 12:00  
5/1/21 01:15  
5-1-21 8:20



## **Appendix C**

# **Time Series Plots of Quarterly Sampling Seasonal Trends CVOCs**

Appendix C  
Time Series Plots of Quarterly Sampling Seasonal Trends CVOCs  
Modock Road Springs/DLS Sand and Gravel, Inc. Site  
(NYSDEC HW ID 8-35-013)  
Victor, New York

CAS No.		SV-01 2/19/2020	SV-01 7/24/2020	SV-01 10/14/2020	SV-01 1/21/2021	SV-01 4/29/2021
79-01-6	Trichloroethene (TCE)	11.5	3.37	4.6	17.4	11.4
71-55-6	1,1,1-Trichloroethane (TCA)	105	8.4	18	186	170
75-35-4	1,1-Dichloroethene (DCE)	14	<0.079	<0.079	39.3	4.84
Total Concentrations		130.5	11.77	22.6	242.7	186.24

CAS No.		SV-02 7/24/2020	SV-02 10/14/2020	SV-02 1/21/2021	SV-02 4/28/2021
79-01-6	Trichloroethene (TCE)	<0.107	<0.107	<0.107	0.317
71-55-6	1,1,1-Trichloroethane (TCA)	2.32	2.38	2.68	2.79
75-35-4	1,1-Dichloroethene (DCE)	<0.079	<0.079	<0.079	< 0.079
Total Concentrations		2.32	2.38	2.68	3.107

CAS No.		SV-03 7/24/2020	SV-03 10/14/2020	SV-03 1/21/2021	SV-03 4/28/2021
79-01-6	Trichloroethene (TCE)	<0.107	<0.107	<0.107	0.656
71-55-6	1,1,1-Trichloroethane (TCA)	<0.109	<0.109	<0.109	< 0.237
75-35-4	1,1-Dichloroethene (DCE)	<0.079	<0.079	<0.079	< 0.172
Total Concentrations		ND	ND	ND	0.656

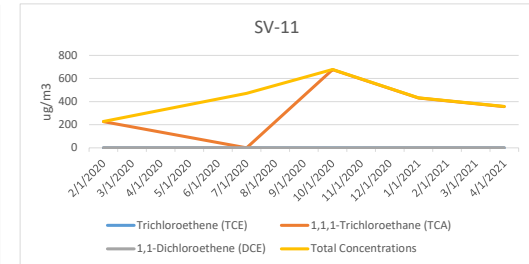
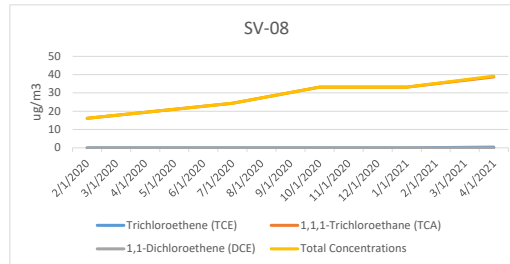
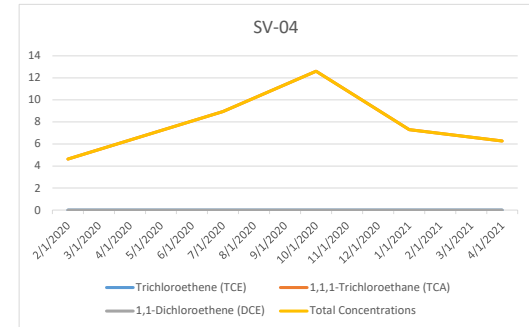
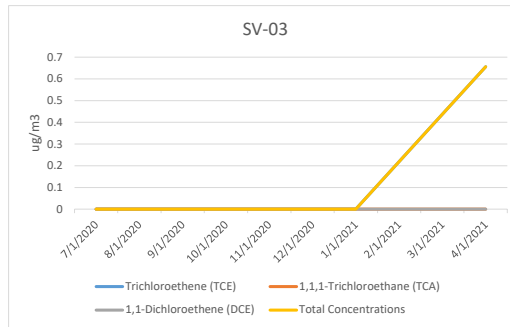
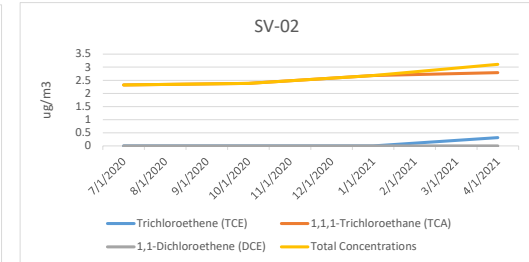
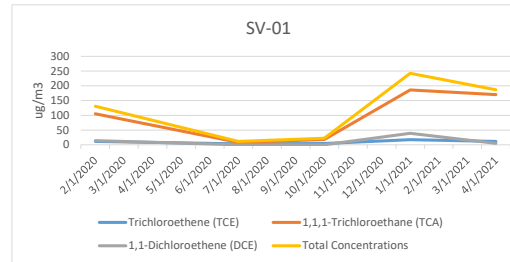
CAS No.		SV-04 2/19/2020	SV-04 7/24/2020	SV-04 10/14/2020	SV-04 1/21/2021	SV-04 4/28/2021
79-01-6	Trichloroethene (TCE)	<0.107	<0.107	<0.107	<0.107	<0.107
71-55-6	1,1,1-Trichloroethane (TCA)	4.63	8.95	12.6	7.31	6.27
75-35-4	1,1-Dichloroethene (DCE)	<0.079	<0.079	<0.079	<0.079	< 0.079
Total Concentrations		4.63	8.95	12.6	7.31	6.27

CAS No.		SV-08 2/19/2020	SV-08 7/24/2020	SV-08 10/14/2020	SV-08 1/21/2021	SV-08 4/28/2021
79-01-6	Trichloroethene (TCE)	<0.817	<0.107	<0.107	<0.107	0.403
71-55-6	1,1,1-Trichloroethane (TCA)	16.2	24.4	33.2	33.2	38.8
75-35-4	1,1-Dichloroethene (DCE)	<0.603	<0.079	<0.079	<0.079	< 0.238
Total Concentrations		16.2	24.4	33.2	33.20	39.203

CAS No.		SV-11 2/19/2020	SV-11 7/24/2020	SV-11 10/14/2020	SV-11 1/21/2021	SV-11 4/28/2021
79-01-6	Trichloroethene (TCE)	<0.107	0.263	<0.358	0.199	0.134
71-55-6	1,1,1-Trichloroethane (TCA)	227	470 D	677	432	357
75-35-4	1,1-Dichloroethene (DCE)	0.896	0.777	0.607	0.956	1.23
Total Concentrations		227.896	471.04	677.607	433.16	358.36

NOTES:  
 Bolded results detected above the Reporting Limit.  
 µg/m3: microgram per meter cubed  
 Samples were analyzed by Alpha Analytical in Westborough, Massachusetts.

DATA QUALIFIERS  
 no qualifier The compound was positively identified at the associated numerical value which is the concentration of the compound in the sample.  
 "D" - Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range.





**Exhibit A**  
**Laboratory Report**  
**(Results Only)**



## ANALYTICAL REPORT

Lab Number:	L2122351
Client:	Marks Engineering, PC 42 Beeman Street Canandaigua, NY 14424
ATTN:	Jeremy Wolf
Phone:	(585) 500-8392
Project Name:	MODOCK RD. SPRINGS/ DLS
Project Number:	21-006C
Report Date:	05/07/21

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0141), DoD (L2474), FL (E87814), IL (200081), LA (85084), ME (MA00030), MD (350), NJ (MA015), NY (11627), NC (685), OH (CL106), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #P330-17-00150), USFWS (Permit #206964).

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320 Forbes Boulevard, Mansfield, MA 02048-1806  
508-822-9300 (Fax) 508-822-3288 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)



**Project Name:** MODOCK RD. SPRINGS/ DLS  
**Project Number:** 21-006C

**Lab Number:** L2122351  
**Report Date:** 05/07/21

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Matrix</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>	<b>Receive Date</b>
L2122351-01	SV-01	SOIL_VAPOR	VICTOR, NY	04/29/21 14:40	04/30/21
L2122351-02	SV-02	SOIL_VAPOR	VICTOR, NY	04/28/21 13:50	04/30/21
L2122351-03	SV-03	SOIL_VAPOR	VICTOR, NY	04/28/21 14:15	04/30/21
L2122351-04	SV-04	SOIL_VAPOR	VICTOR, NY	04/28/21 12:25	04/30/21
L2122351-05	SV-08	SOIL_VAPOR	VICTOR, NY	04/28/21 14:25	04/30/21
L2122351-06	SV-11	SOIL_VAPOR	VICTOR, NY	04/28/21 13:25	04/30/21
L2122351-07	DUP 042821	SOIL_VAPOR	VICTOR, NY	04/28/21 13:45	04/30/21
L2122351-08	UNUSED_CAN#3465	SOIL_VAPOR	VICTOR, NY		04/30/21
L2122351-09	UNUSED_CAN#742	SOIL_VAPOR	VICTOR, NY		04/30/21

**Project Name:** MODOCK RD. SPRINGS/ DLS  
**Project Number:** 21-006C

**Lab Number:** L2122351  
**Report Date:** 05/07/21

### Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

**HOLD POLICY** - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

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**Project Name:** MODOCK RD. SPRINGS/ DLS  
**Project Number:** 21-006C

**Lab Number:** L2122351  
**Report Date:** 05/07/21

### Case Narrative (continued)

#### Volatile Organics in Air by SIM

Canisters were released from the laboratory on April 26 and 29, 2021. The canister certification results are provided as an addendum.

L2122351-06D: The sample was re-analyzed on dilution in order to quantitate the results within the calibration range. The result(s) should be considered estimated, and are qualified with an E flag, for any compound(s) that exceeded the calibration range in the initial analysis. The re-analysis was performed only for the compound(s) that exceeded the calibration range.

L2122351-07D: The sample was re-analyzed on dilution in order to quantitate the results within the calibration range. The result(s) should be considered estimated, and are qualified with an E flag, for any compound(s) that exceeded the calibration range in the initial analysis. The re-analysis was performed only for the compound(s) that exceeded the calibration range.

L2122351-03D & -05D: The canister vacuum measured on receipt at the laboratory was > 15 in. Hg. Prior to sample analysis, the canisters were pressurized with UHP Nitrogen in order to facilitate the transfer of sample to the Gas Chromatograph. The addition of Nitrogen resulted in a dilution of the samples. The reporting limits have been elevated accordingly.

#### Sample Receipt

The canister ID number for the sample designated SV-02 (L2122351-02) is listed on the CoC as 1642 but should be 1645.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Christopher J. Anderson

Title: Technical Director/Representative

Date: 05/07/21

**AIR**

**Project Name:** MODOCK RD. SPRINGS/ DLS  
**Project Number:** 21-006C

**Lab Number:** L2122351  
**Report Date:** 05/07/21

### SAMPLE RESULTS

Lab ID: L2122351-01  
 Client ID: SV-01  
 Sample Location: VICTOR, NY

Date Collected: 04/29/21 14:40  
 Date Received: 04/30/21  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Soil\_Vapor  
 Analytical Method: 48,TO-15-SIM  
 Analytical Date: 05/06/21 00:00  
 Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
<b>Volatile Organics in Air by SIM - Mansfield Lab</b>								
Dichlorodifluoromethane	0.452	0.200	--	2.24	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Ethyl Alcohol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	5.46	1.00	--	13.0	2.38	--		1
Trichlorofluoromethane	0.260	0.050	--	1.46	0.281	--		1
iso-Propyl Alcohol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	1.22	0.020	--	4.84	0.079	--		1
tert-Butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
1,2-Dichloroethene (total)	ND	0.020	--	ND	0.079	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
1,3-Dichloropropene, Total	ND	0.020	--	ND	0.091	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.069	0.050	--	0.529	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	0.044	0.020	--	0.178	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1



**Project Name:** MODOCK RD. SPRINGS/ DLS**Lab Number:** L2122351**Project Number:** 21-006C**Report Date:** 05/07/21**SAMPLE RESULTS**

Lab ID: L2122351-01

Date Collected: 04/29/21 14:40

Client ID: SV-01

Date Received: 04/30/21

Sample Location: VICTOR, NY

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
<b>Volatile Organics in Air by SIM - Mansfield Lab</b>								
2-Butanone	2.35	0.500	--	6.93	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	0.067	0.020	--	0.327	0.098	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	31.1	0.020	--	170	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	0.064	0.020	--	0.403	0.126	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	2.13	0.020	--	11.4	0.107	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	0.091	0.050	--	0.343	0.188	--		1
2-Hexanone	0.466	0.200	--	1.91	0.820	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1



**Project Name:** MODOCK RD. SPRINGS/ DLS**Lab Number:** L2122351**Project Number:** 21-006C**Report Date:** 05/07/21**SAMPLE RESULTS**

Lab ID: L2122351-01

Date Collected: 04/29/21 14:40

Client ID: SV-01

Date Received: 04/30/21

Sample Location: VICTOR, NY

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
<b>Volatile Organics in Air by SIM - Mansfield Lab</b>								
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	0.097	0.020	--	0.421	0.087	--		1
p/m-Xylene	1.07	0.040	--	4.65	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Xylene (Total)	1.47	0.020	--	6.39	0.087	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	0.393	0.020	--	1.71	0.087	--		1
4-Ethyltoluene	0.446	0.020	--	2.19	0.098	--		1
1,3,5-Trimethylbenzene	0.491	0.020	--	2.41	0.098	--		1
1,2,4-Trimethylbenzene	1.15	0.020	--	5.65	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	89		60-140
bromochloromethane	90		60-140
chlorobenzene-d5	87		60-140



**Project Name:** MODOCK RD. SPRINGS/ DLS  
**Project Number:** 21-006C

**Lab Number:** L2122351  
**Report Date:** 05/07/21

### SAMPLE RESULTS

Lab ID: L2122351-02  
 Client ID: SV-02  
 Sample Location: VICTOR, NY

Date Collected: 04/28/21 13:50  
 Date Received: 04/30/21  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Soil\_Vapor  
 Analytical Method: 48,TO-15-SIM  
 Analytical Date: 05/06/21 00:39  
 Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
<b>Volatile Organics in Air by SIM - Mansfield Lab</b>								
Dichlorodifluoromethane	0.414	0.200	--	2.05	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	0.037	0.020	--	0.082	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Ethyl Alcohol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	14.7	1.00	--	34.9	2.38	--		1
Trichlorofluoromethane	0.233	0.050	--	1.31	0.281	--		1
iso-Propyl Alcohol	0.607	0.500	--	1.49	1.23	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
tert-Butyl Alcohol	10.1	0.500	--	30.6	1.52	--		1
1,2-Dichloroethene (total)	0.022	0.020	--	0.087	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
1,3-Dichloropropene, Total	ND	0.020	--	ND	0.091	--		1
Carbon disulfide	32.4	0.200	--	101	0.623	--		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.059	0.050	--	0.452	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1



**Project Name:** MODOCK RD. SPRINGS/ DLS**Lab Number:** L2122351**Project Number:** 21-006C**Report Date:** 05/07/21**SAMPLE RESULTS**

Lab ID: L2122351-02

Date Collected: 04/28/21 13:50

Client ID: SV-02

Date Received: 04/30/21

Sample Location: VICTOR, NY

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
<b>Volatile Organics in Air by SIM - Mansfield Lab</b>								
2-Butanone	24.1	0.500	--	71.1	1.47	--		1
cis-1,2-Dichloroethene	0.022	0.020	--	0.087	0.079	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	0.512	0.020	--	2.79	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	0.032	0.020	--	0.201	0.126	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	0.059	0.020	--	0.317	0.107	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	0.428	0.050	--	1.61	0.188	--		1
2-Hexanone	1.48	0.200	--	6.07	0.820	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	0.041	0.020	--	0.278	0.136	--		1



**Project Name:** MODOCK RD. SPRINGS/ DLS**Lab Number:** L2122351**Project Number:** 21-006C**Report Date:** 05/07/21**SAMPLE RESULTS**

Lab ID: L2122351-02

Date Collected: 04/28/21 13:50

Client ID: SV-02

Date Received: 04/30/21

Sample Location: VICTOR, NY

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
<b>Volatile Organics in Air by SIM - Mansfield Lab</b>								
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	0.168	0.020	--	0.730	0.087	--		1
p/m-Xylene	0.798	0.040	--	3.47	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Xylene (Total)	1.27	0.020	--	5.52	0.087	--		1
Styrene	0.101	0.020	--	0.430	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	0.476	0.020	--	2.07	0.087	--		1
4-Ethyltoluene	0.103	0.020	--	0.506	0.098	--		1
1,3,5-Trimethylbenzene	0.219	0.020	--	1.08	0.098	--		1
1,2,4-Trimethylbenzene	0.697	0.020	--	3.43	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	0.033	0.020	--	0.198	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	93		60-140
bromochloromethane	92		60-140
chlorobenzene-d5	92		60-140





**Project Name:** MODOCK RD. SPRINGS/ DLS  
**Project Number:** 21-006C

**Lab Number:** L2122351  
**Report Date:** 05/07/21

**SAMPLE RESULTS**

Lab ID: L2122351-03 D  
 Client ID: SV-03  
 Sample Location: VICTOR, NY

Date Collected: 04/28/21 14:15  
 Date Received: 04/30/21  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Soil\_Vapor  
 Analytical Method: 48,TO-15-SIM  
 Analytical Date: 05/06/21 01:19  
 Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
<b>Volatile Organics in Air by SIM - Mansfield Lab</b>								
Dichlorodifluoromethane	0.443	0.435	--	2.19	2.15	--		2.174
Chloromethane	ND	0.435	--	ND	0.898	--		2.174
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.109	--	ND	0.762	--		2.174
Vinyl chloride	ND	0.044	--	ND	0.111	--		2.174
1,3-Butadiene	ND	0.044	--	ND	0.096	--		2.174
Bromomethane	ND	0.044	--	ND	0.169	--		2.174
Chloroethane	ND	0.217	--	ND	0.573	--		2.174
Ethyl Alcohol	ND	10.9	--	ND	20.5	--		2.174
Vinyl bromide	ND	0.435	--	ND	1.90	--		2.174
Acetone	72.2	2.17	--	172	5.15	--		2.174
Trichlorofluoromethane	0.226	0.109	--	1.27	0.613	--		2.174
iso-Propyl Alcohol	1.33	1.09	--	3.27	2.68	--		2.174
1,1-Dichloroethene	ND	0.044	--	ND	0.172	--		2.174
tert-Butyl Alcohol	ND	1.09	--	ND	3.30	--		2.174
Methylene chloride	ND	1.09	--	ND	3.79	--		2.174
1,2-Dichloroethene (total)	ND	0.044	--	ND	0.172	--		2.174
3-Chloropropene	ND	0.435	--	ND	1.36	--		2.174
1,3-Dichloropropene, Total	ND	0.044	--	ND	0.197	--		2.174
Carbon disulfide	0.898	0.435	--	2.80	1.35	--		2.174
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.109	--	ND	0.835	--		2.174
trans-1,2-Dichloroethene	ND	0.044	--	ND	0.172	--		2.174
1,1-Dichloroethane	ND	0.044	--	ND	0.176	--		2.174
Methyl tert butyl ether	ND	0.435	--	ND	1.57	--		2.174



**Project Name:** MODOCK RD. SPRINGS/ DLS**Lab Number:** L2122351**Project Number:** 21-006C**Report Date:** 05/07/21**SAMPLE RESULTS**

Lab ID: L2122351-03 D

Date Collected: 04/28/21 14:15

Client ID: SV-03

Date Received: 04/30/21

Sample Location: VICTOR, NY

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
<b>Volatile Organics in Air by SIM - Mansfield Lab</b>								
2-Butanone	13.9	1.09	--	41.0	3.21	--		2.174
cis-1,2-Dichloroethene	ND	0.044	--	ND	0.172	--		2.174
Ethyl Acetate	ND	1.09	--	ND	3.93	--		2.174
Chloroform	ND	0.044	--	ND	0.212	--		2.174
Tetrahydrofuran	ND	1.09	--	ND	3.21	--		2.174
1,2-Dichloroethane	ND	0.044	--	ND	0.176	--		2.174
n-Hexane	ND	0.435	--	ND	1.53	--		2.174
1,1,1-Trichloroethane	ND	0.044	--	ND	0.237	--		2.174
Benzene	0.493	0.217	--	1.57	0.693	--		2.174
Carbon tetrachloride	ND	0.044	--	ND	0.274	--		2.174
Cyclohexane	ND	0.435	--	ND	1.50	--		2.174
1,2-Dichloropropane	ND	0.044	--	ND	0.201	--		2.174
Bromodichloromethane	ND	0.044	--	ND	0.291	--		2.174
1,4-Dioxane	ND	0.217	--	ND	0.782	--		2.174
Trichloroethene	0.122	0.044	--	0.656	0.234	--		2.174
2,2,4-Trimethylpentane	ND	0.435	--	ND	2.03	--		2.174
Heptane	ND	0.435	--	ND	1.78	--		2.174
cis-1,3-Dichloropropene	ND	0.044	--	ND	0.197	--		2.174
4-Methyl-2-pentanone	ND	1.09	--	ND	4.47	--		2.174
trans-1,3-Dichloropropene	ND	0.044	--	ND	0.197	--		2.174
1,1,2-Trichloroethane	ND	0.044	--	ND	0.237	--		2.174
Toluene	0.113	0.109	--	0.426	0.411	--		2.174
2-Hexanone	2.33	0.435	--	9.55	1.78	--		2.174
Dibromochloromethane	ND	0.044	--	ND	0.371	--		2.174
1,2-Dibromoethane	ND	0.044	--	ND	0.334	--		2.174
Tetrachloroethene	0.063	0.044	--	0.427	0.295	--		2.174



**Project Name:** MODOCK RD. SPRINGS/ DLS  
**Project Number:** 21-006C

**Lab Number:** L2122351  
**Report Date:** 05/07/21

### SAMPLE RESULTS

Lab ID: L2122351-03 D  
 Client ID: SV-03  
 Sample Location: VICTOR, NY

Date Collected: 04/28/21 14:15  
 Date Received: 04/30/21  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
<b>Volatile Organics in Air by SIM - Mansfield Lab</b>								
Chlorobenzene	ND	0.217	--	ND	0.999	--		2.174
Ethylbenzene	ND	0.044	--	ND	0.189	--		2.174
p/m-Xylene	0.113	0.087	--	0.491	0.378	--		2.174
Bromoform	ND	0.044	--	ND	0.450	--		2.174
Xylene (Total)	0.174	0.044	--	0.756	0.189	--		2.174
Styrene	ND	0.044	--	ND	0.185	--		2.174
1,1,2,2-Tetrachloroethane	ND	0.044	--	ND	0.299	--		2.174
o-Xylene	0.061	0.044	--	0.265	0.189	--		2.174
4-Ethyltoluene	ND	0.044	--	ND	0.214	--		2.174
1,3,5-Trimethylbenzene	ND	0.044	--	ND	0.214	--		2.174
1,2,4-Trimethylbenzene	0.050	0.044	--	0.246	0.214	--		2.174
Benzyl chloride	ND	0.435	--	ND	2.25	--		2.174
1,3-Dichlorobenzene	ND	0.044	--	ND	0.262	--		2.174
1,4-Dichlorobenzene	ND	0.044	--	ND	0.262	--		2.174
1,2-Dichlorobenzene	ND	0.044	--	ND	0.262	--		2.174
1,2,4-Trichlorobenzene	ND	0.109	--	ND	0.809	--		2.174
Hexachlorobutadiene	ND	0.109	--	ND	1.16	--		2.174

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	93		60-140
bromochloromethane	91		60-140
chlorobenzene-d5	88		60-140



**Project Name:** MODOCK RD. SPRINGS/ DLS  
**Project Number:** 21-006C

**Lab Number:** L2122351  
**Report Date:** 05/07/21

### SAMPLE RESULTS

Lab ID: L2122351-04  
 Client ID: SV-04  
 Sample Location: VICTOR, NY

Date Collected: 04/28/21 12:25  
 Date Received: 04/30/21  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Soil\_Vapor  
 Analytical Method: 48,TO-15-SIM  
 Analytical Date: 05/06/21 01:58  
 Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
<b>Volatile Organics in Air by SIM - Mansfield Lab</b>								
Dichlorodifluoromethane	1.24	0.200	--	6.13	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	0.036	0.020	--	0.080	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Ethyl Alcohol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	12.1	1.00	--	28.7	2.38	--		1
Trichlorofluoromethane	0.211	0.050	--	1.19	0.281	--		1
iso-Propyl Alcohol	1.00	0.500	--	2.46	1.23	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
tert-Butyl Alcohol	1.79	0.500	--	5.43	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
1,2-Dichloroethene (total)	ND	0.020	--	ND	0.079	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
1,3-Dichloropropene, Total	ND	0.020	--	ND	0.091	--		1
Carbon disulfide	0.693	0.200	--	2.16	0.623	--		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.062	0.050	--	0.475	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1



**Project Name:** MODOCK RD. SPRINGS/ DLS  
**Project Number:** 21-006C

**Lab Number:** L2122351  
**Report Date:** 05/07/21

### SAMPLE RESULTS

Lab ID: L2122351-04  
 Client ID: SV-04  
 Sample Location: VICTOR, NY

Date Collected: 04/28/21 12:25  
 Date Received: 04/30/21  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
<b>Volatile Organics in Air by SIM - Mansfield Lab</b>								
2-Butanone	39.1	0.500	--	115	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	1.15	0.020	--	6.27	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	0.101	0.050	--	0.381	0.188	--		1
2-Hexanone	1.44	0.200	--	5.90	0.820	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1



**Project Name:** MODOCK RD. SPRINGS/ DLS**Lab Number:** L2122351**Project Number:** 21-006C**Report Date:** 05/07/21**SAMPLE RESULTS**

Lab ID: L2122351-04

Date Collected: 04/28/21 12:25

Client ID: SV-04

Date Received: 04/30/21

Sample Location: VICTOR, NY

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
<b>Volatile Organics in Air by SIM - Mansfield Lab</b>								
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	0.043	0.020	--	0.187	0.087	--		1
p/m-Xylene	0.343	0.040	--	1.49	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Xylene (Total)	0.596	0.020	--	2.59	0.087	--		1
Styrene	0.028	0.020	--	0.119	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	0.253	0.020	--	1.10	0.087	--		1
4-Ethyltoluene	0.167	0.020	--	0.821	0.098	--		1
1,3,5-Trimethylbenzene	0.426	0.020	--	2.09	0.098	--		1
1,2,4-Trimethylbenzene	0.595	0.020	--	2.93	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	93		60-140
bromochloromethane	91		60-140
chlorobenzene-d5	90		60-140



**Project Name:** MODOCK RD. SPRINGS/ DLS**Lab Number:** L2122351**Project Number:** 21-006C**Report Date:** 05/07/21**SAMPLE RESULTS**

Lab ID: L2122351-05 D

Date Collected: 04/28/21 14:25

Client ID: SV-08

Date Received: 04/30/21

Sample Location: VICTOR, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil\_Vapor

Analytical Method: 48,TO-15-SIM

Analytical Date: 05/06/21 03:16

Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
<b>Volatile Organics in Air by SIM - Mansfield Lab</b>								
Dichlorodifluoromethane	ND	0.600	--	ND	2.97	--		3
Chloromethane	ND	0.600	--	ND	1.24	--		3
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.150	--	ND	1.05	--		3
Vinyl chloride	ND	0.060	--	ND	0.153	--		3
1,3-Butadiene	0.063	0.060	--	0.139	0.133	--		3
Bromomethane	ND	0.060	--	ND	0.233	--		3
Chloroethane	ND	0.300	--	ND	0.792	--		3
Ethyl Alcohol	ND	15.0	--	ND	28.3	--		3
Vinyl bromide	ND	0.600	--	ND	2.62	--		3
Acetone	22.8	3.00	--	54.2	7.13	--		3
Trichlorofluoromethane	0.390	0.150	--	2.19	0.843	--		3
iso-Propyl Alcohol	ND	1.50	--	ND	3.69	--		3
1,1-Dichloroethene	ND	0.060	--	ND	0.238	--		3
tert-Butyl Alcohol	26.7	1.50	--	80.9	4.55	--		3
Methylene chloride	ND	1.50	--	ND	5.21	--		3
1,2-Dichloroethene (total)	ND	0.060	--	ND	0.238	--		3
3-Chloropropene	ND	0.600	--	ND	1.88	--		3
1,3-Dichloropropene, Total	ND	0.060	--	ND	0.272	--		3
Carbon disulfide	ND	0.600	--	ND	1.87	--		3
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.150	--	ND	1.15	--		3
trans-1,2-Dichloroethene	ND	0.060	--	ND	0.238	--		3
1,1-Dichloroethane	ND	0.060	--	ND	0.243	--		3
Methyl tert butyl ether	ND	0.600	--	ND	2.16	--		3



**Project Name:** MODOCK RD. SPRINGS/ DLS**Lab Number:** L2122351**Project Number:** 21-006C**Report Date:** 05/07/21**SAMPLE RESULTS**

Lab ID: L2122351-05 D

Date Collected: 04/28/21 14:25

Client ID: SV-08

Date Received: 04/30/21

Sample Location: VICTOR, NY

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
<b>Volatile Organics in Air by SIM - Mansfield Lab</b>								
2-Butanone	36.5	1.50	--	108	4.42	--		3
cis-1,2-Dichloroethene	ND	0.060	--	ND	0.238	--		3
Ethyl Acetate	ND	1.50	--	ND	5.41	--		3
Chloroform	0.324	0.060	--	1.58	0.293	--		3
Tetrahydrofuran	ND	1.50	--	ND	4.42	--		3
1,2-Dichloroethane	ND	0.060	--	ND	0.243	--		3
n-Hexane	ND	0.600	--	ND	2.11	--		3
1,1,1-Trichloroethane	7.12	0.060	--	38.8	0.327	--		3
Benzene	ND	0.300	--	ND	0.958	--		3
Carbon tetrachloride	ND	0.060	--	ND	0.377	--		3
Cyclohexane	ND	0.600	--	ND	2.07	--		3
1,2-Dichloropropane	ND	0.060	--	ND	0.277	--		3
Bromodichloromethane	ND	0.060	--	ND	0.402	--		3
1,4-Dioxane	ND	0.300	--	ND	1.08	--		3
Trichloroethene	0.075	0.060	--	0.403	0.322	--		3
2,2,4-Trimethylpentane	0.720	0.600	--	3.36	2.80	--		3
Heptane	0.924	0.600	--	3.79	2.46	--		3
cis-1,3-Dichloropropene	ND	0.060	--	ND	0.272	--		3
4-Methyl-2-pentanone	ND	1.50	--	ND	6.15	--		3
trans-1,3-Dichloropropene	ND	0.060	--	ND	0.272	--		3
1,1,2-Trichloroethane	ND	0.060	--	ND	0.327	--		3
Toluene	ND	0.150	--	ND	0.565	--		3
2-Hexanone	ND	0.600	--	ND	2.46	--		3
Dibromochloromethane	ND	0.060	--	ND	0.511	--		3
1,2-Dibromoethane	ND	0.060	--	ND	0.461	--		3
Tetrachloroethene	ND	0.060	--	ND	0.407	--		3





**Project Name:** MODOCK RD. SPRINGS/ DLS**Lab Number:** L2122351**Project Number:** 21-006C**Report Date:** 05/07/21**SAMPLE RESULTS**

Lab ID: L2122351-05 D

Date Collected: 04/28/21 14:25

Client ID: SV-08

Date Received: 04/30/21

Sample Location: VICTOR, NY

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
<b>Volatile Organics in Air by SIM - Mansfield Lab</b>								
Chlorobenzene	ND	0.300	--	ND	1.38	--		3
Ethylbenzene	ND	0.060	--	ND	0.261	--		3
p/m-Xylene	0.186	0.120	--	0.808	0.521	--		3
Bromoform	ND	0.060	--	ND	0.620	--		3
Xylene (Total)	0.279	0.060	--	1.21	0.261	--		3
Styrene	ND	0.060	--	ND	0.255	--		3
1,1,2,2-Tetrachloroethane	ND	0.060	--	ND	0.412	--		3
o-Xylene	0.093	0.060	--	0.404	0.261	--		3
4-Ethyltoluene	ND	0.060	--	ND	0.295	--		3
1,3,5-Trimethylbenzene	ND	0.060	--	ND	0.295	--		3
1,2,4-Trimethylbenzene	0.063	0.060	--	0.310	0.295	--		3
Benzyl chloride	ND	0.600	--	ND	3.11	--		3
1,3-Dichlorobenzene	ND	0.060	--	ND	0.361	--		3
1,4-Dichlorobenzene	ND	0.060	--	ND	0.361	--		3
1,2-Dichlorobenzene	ND	0.060	--	ND	0.361	--		3
1,2,4-Trichlorobenzene	ND	0.150	--	ND	1.11	--		3
Hexachlorobutadiene	ND	0.150	--	ND	1.60	--		3

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	91		60-140
bromochloromethane	93		60-140
chlorobenzene-d5	90		60-140



**Project Name:** MODOCK RD. SPRINGS/ DLS**Lab Number:** L2122351**Project Number:** 21-006C**Report Date:** 05/07/21**SAMPLE RESULTS**

Lab ID: L2122351-06

Date Collected: 04/28/21 13:25

Client ID: SV-11

Date Received: 04/30/21

Sample Location: VICTOR, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil\_Vapor

Analytical Method: 48,TO-15-SIM

Analytical Date: 05/06/21 03:55

Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
<b>Volatile Organics in Air by SIM - Mansfield Lab</b>								
Dichlorodifluoromethane	0.429	0.200	--	2.12	0.989	--		1
Chloromethane	0.253	0.200	--	0.522	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	0.022	0.020	--	0.049	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Ethyl Alcohol	5.28	5.00	--	9.95	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	53.0	1.00	--	126	2.38	--		1
Trichlorofluoromethane	0.218	0.050	--	1.23	0.281	--		1
iso-Propyl Alcohol	0.904	0.500	--	2.22	1.23	--		1
1,1-Dichloroethene	0.311	0.020	--	1.23	0.079	--		1
tert-Butyl Alcohol	0.824	0.500	--	2.50	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
1,2-Dichloroethene (total)	ND	0.020	--	ND	0.079	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
1,3-Dichloropropene, Total	ND	0.020	--	ND	0.091	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.616	0.050	--	4.72	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1



**Project Name:** MODOCK RD. SPRINGS/ DLS**Lab Number:** L2122351**Project Number:** 21-006C**Report Date:** 05/07/21**SAMPLE RESULTS**

Lab ID: L2122351-06

Date Collected: 04/28/21 13:25

Client ID: SV-11

Date Received: 04/30/21

Sample Location: VICTOR, NY

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
<b>Volatile Organics in Air by SIM - Mansfield Lab</b>								
2-Butanone	9.10	0.500	--	26.8	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	0.022	0.020	--	0.107	0.098	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	64.5	0.020	--	352	0.109	--	E	1
Benzene	0.212	0.100	--	0.677	0.319	--		1
Carbon tetrachloride	0.057	0.020	--	0.359	0.126	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	0.025	0.020	--	0.134	0.107	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	0.564	0.200	--	2.31	0.820	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	0.526	0.050	--	1.98	0.188	--		1
2-Hexanone	1.12	0.200	--	4.59	0.820	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1



**Project Name:** MODOCK RD. SPRINGS/ DLS**Lab Number:** L2122351**Project Number:** 21-006C**Report Date:** 05/07/21**SAMPLE RESULTS**

Lab ID: L2122351-06

Date Collected: 04/28/21 13:25

Client ID: SV-11

Date Received: 04/30/21

Sample Location: VICTOR, NY

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
<b>Volatile Organics in Air by SIM - Mansfield Lab</b>								
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	0.124	0.020	--	0.539	0.087	--		1
p/m-Xylene	0.584	0.040	--	2.54	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Xylene (Total)	0.786	0.020	--	3.41	0.087	--		1
Styrene	0.117	0.020	--	0.498	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	0.202	0.020	--	0.877	0.087	--		1
4-Ethyltoluene	0.081	0.020	--	0.398	0.098	--		1
1,3,5-Trimethylbenzene	0.075	0.020	--	0.369	0.098	--		1
1,2,4-Trimethylbenzene	0.346	0.020	--	1.70	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	94		60-140
bromochloromethane	92		60-140
chlorobenzene-d5	90		60-140



**Project Name:** MODOCK RD. SPRINGS/ DLS**Lab Number:** L2122351**Project Number:** 21-006C**Report Date:** 05/07/21**SAMPLE RESULTS**

Lab ID: L2122351-06 D

Date Collected: 04/28/21 13:25

Client ID: SV-11

Date Received: 04/30/21

Sample Location: VICTOR, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil\_Vapor

Analytical Method: 48,TO-15-SIM

Analytical Date: 05/06/21 08:41

Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
1,1,1-Trichloroethane	65.4	0.067	--	357	0.364	--		3.333

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	93		60-140
bromochloromethane	93		60-140
chlorobenzene-d5	89		60-140



**Project Name:** MODOCK RD. SPRINGS/ DLS  
**Project Number:** 21-006C

**Lab Number:** L2122351  
**Report Date:** 05/07/21

### SAMPLE RESULTS

Lab ID: L2122351-07  
 Client ID: DUP 042821  
 Sample Location: VICTOR, NY

Date Collected: 04/28/21 13:45  
 Date Received: 04/30/21  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Soil\_Vapor  
 Analytical Method: 48,TO-15-SIM  
 Analytical Date: 05/06/21 04:34  
 Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
<b>Volatile Organics in Air by SIM - Mansfield Lab</b>								
Dichlorodifluoromethane	0.390	0.200	--	1.93	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	0.036	0.020	--	0.080	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Ethyl Alcohol	6.27	5.00	--	11.8	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	77.6	1.00	--	184	2.38	--		1
Trichlorofluoromethane	0.215	0.050	--	1.21	0.281	--		1
iso-Propyl Alcohol	ND	0.500	--	ND	1.23	--		1
1,1-Dichloroethene	0.460	0.020	--	1.82	0.079	--		1
tert-Butyl Alcohol	1.07	0.500	--	3.24	1.52	--		1
1,2-Dichloroethene (total)	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
1,3-Dichloropropene, Total	ND	0.020	--	ND	0.091	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.865	0.050	--	6.63	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1



**Project Name:** MODOCK RD. SPRINGS/ DLS**Lab Number:** L2122351**Project Number:** 21-006C**Report Date:** 05/07/21**SAMPLE RESULTS**

Lab ID: L2122351-07

Date Collected: 04/28/21 13:45

Client ID: DUP 042821

Date Received: 04/30/21

Sample Location: VICTOR, NY

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
<b>Volatile Organics in Air by SIM - Mansfield Lab</b>								
2-Butanone	13.2	0.500	--	38.9	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	0.028	0.020	--	0.137	0.098	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
n-Hexane	0.231	0.200	--	0.814	0.705	--		1
1,1,1-Trichloroethane	96.9	0.020	--	529	0.109	--	E	1
Benzene	0.262	0.100	--	0.837	0.319	--		1
Carbon tetrachloride	0.045	0.020	--	0.283	0.126	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	0.038	0.020	--	0.204	0.107	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	0.773	0.200	--	3.17	0.820	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	0.585	0.050	--	2.20	0.188	--		1
2-Hexanone	1.83	0.200	--	7.50	0.820	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1



**Project Name:** MODOCK RD. SPRINGS/ DLS**Lab Number:** L2122351**Project Number:** 21-006C**Report Date:** 05/07/21**SAMPLE RESULTS**

Lab ID: L2122351-07

Date Collected: 04/28/21 13:45

Client ID: DUP 042821

Date Received: 04/30/21

Sample Location: VICTOR, NY

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
<b>Volatile Organics in Air by SIM - Mansfield Lab</b>								
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	0.153	0.020	--	0.665	0.087	--		1
p/m-Xylene	0.740	0.040	--	3.21	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Xylene (Total)	0.988	0.020	--	4.29	0.087	--		1
Styrene	0.094	0.020	--	0.400	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	0.248	0.020	--	1.08	0.087	--		1
4-Ethyltoluene	0.116	0.020	--	0.570	0.098	--		1
1,3,5-Trimethylbenzene	0.095	0.020	--	0.467	0.098	--		1
1,2,4-Trimethylbenzene	0.489	0.020	--	2.40	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	93		60-140
bromochloromethane	93		60-140
chlorobenzene-d5	90		60-140





**Project Name:** MODOCK RD. SPRINGS/ DLS**Lab Number:** L2122351**Project Number:** 21-006C**Report Date:** 05/07/21**SAMPLE RESULTS**

Lab ID: L2122351-07 D

Date Collected: 04/28/21 13:45

Client ID: DUP 042821

Date Received: 04/30/21

Sample Location: VICTOR, NY

Field Prep: Not Specified

Sample Depth:

Matrix: Soil\_Vapor

Analytical Method: 48,TO-15-SIM

Analytical Date: 05/06/21 09:17

Analyst: RY

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
1,1,1-Trichloroethane	85.0	0.100	--	464	0.546	--		5

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	90		60-140
bromochloromethane	90		60-140
chlorobenzene-d5	86		60-140



Project Name: MODOCK RD. SPRINGS/ DLS

Lab Number: L2122351

Project Number: 21-006C

Report Date: 05/07/21

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 05/05/21 18:06

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-07 Batch: WG1494908-4								
Propylene	ND	0.500	--	ND	0.861	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Ethyl Alcohol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
iso-Propyl Alcohol	ND	0.500	--	ND	1.23	--		1
1,2-Dichloroethene (total)	ND	0.020	--	ND	0.079	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,3-Dichloropropene, Total	ND	0.020	--	ND	0.091	--		1
tert-Butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1



Project Name: MODOCK RD. SPRINGS/ DLS

Lab Number: L2122351

Project Number: 21-006C

Report Date: 05/07/21

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 05/05/21 18:06

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-07 Batch: WG1494908-4								
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1



Project Name: MODOCK RD. SPRINGS/ DLS

Lab Number: L2122351

Project Number: 21-006C

Report Date: 05/07/21

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 05/05/21 18:06

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-07 Batch: WG1494908-4								
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Xylene (Total)	ND	0.020	--	ND	0.087	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
1,2,3-Trichloropropane	ND	0.020	--	ND	0.121	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1



Project Name: MODOCK RD. SPRINGS/ DLS

Lab Number: L2122351

Project Number: 21-006C

Report Date: 05/07/21

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 05/05/21 18:06

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab for sample(s): 01-07 Batch: WG1494908-4								
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.020	--	ND	0.193	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** MODOCK RD. SPRINGS/ DLS

**Lab Number:** L2122351

**Project Number:** 21-006C

**Report Date:** 05/07/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-07 Batch: WG1494908-3								
Propylene	111		-		70-130	-		25
Dichlorodifluoromethane	105		-		70-130	-		25
Chloromethane	102		-		70-130	-		25
1,2-Dichloro-1,1,2,2-tetrafluoroethane	97		-		70-130	-		25
Vinyl chloride	95		-		70-130	-		25
1,3-Butadiene	100		-		70-130	-		25
Bromomethane	88		-		70-130	-		25
Chloroethane	94		-		70-130	-		25
Ethyl Alcohol	92		-		40-160	-		25
Vinyl bromide	90		-		70-130	-		25
Acrolein	75		-		60-113	-		25
Acetone	74		-		40-160	-		25
Trichlorofluoromethane	102		-		70-130	-		25
iso-Propyl Alcohol	73		-		40-160	-		25
Acrylonitrile	87		-		70-130	-		25
1,1-Dichloroethene	95		-		70-130	-		25
tert-Butyl Alcohol <sup>1</sup>	86		-		70-130	-		25
Methylene chloride	99		-		70-130	-		25
3-Chloropropene	102		-		70-130	-		25
Carbon disulfide	84		-		70-130	-		25
1,1,2-Trichloro-1,2,2-Trifluoroethane	90		-		70-130	-		25
trans-1,2-Dichloroethene	91		-		70-130	-		25
1,1-Dichloroethane	94		-		70-130	-		25

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** MODOCK RD. SPRINGS/ DLS

**Lab Number:** L2122351

**Project Number:** 21-006C

**Report Date:** 05/07/21

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-07 Batch: WG1494908-3								
Methyl tert butyl ether	98		-		70-130	-		25
Vinyl acetate	100		-		70-130	-		25
2-Butanone	98		-		70-130	-		25
cis-1,2-Dichloroethene	98		-		70-130	-		25
Ethyl Acetate	95		-		70-130	-		25
Chloroform	98		-		70-130	-		25
Tetrahydrofuran	97		-		70-130	-		25
1,2-Dichloroethane	109		-		70-130	-		25
n-Hexane	97		-		70-130	-		25
1,1,1-Trichloroethane	119		-		70-130	-		25
Benzene	95		-		70-130	-		25
Carbon tetrachloride	122		-		70-130	-		25
Cyclohexane	100		-		70-130	-		25
Dibromomethane <sup>1</sup>	91		-		70-130	-		25
1,2-Dichloropropane	102		-		70-130	-		25
Bromodichloromethane	112		-		70-130	-		25
1,4-Dioxane	102		-		70-130	-		25
Trichloroethene	100		-		70-130	-		25
2,2,4-Trimethylpentane	105		-		70-130	-		25
cis-1,3-Dichloropropene	109		-		70-130	-		25
4-Methyl-2-pentanone	116		-		70-130	-		25
trans-1,3-Dichloropropene	117		-		70-130	-		25
1,1,2-Trichloroethane	109		-		70-130	-		25

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** MODOCK RD. SPRINGS/ DLS

**Lab Number:** L2122351

**Project Number:** 21-006C

**Report Date:** 05/07/21

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-07 Batch: WG1494908-3								
Toluene	84		-		70-130	-		25
2-Hexanone	93		-		70-130	-		25
Dibromochloromethane	98		-		70-130	-		25
1,2-Dibromoethane	90		-		70-130	-		25
Tetrachloroethene	80		-		70-130	-		25
1,1,1,2-Tetrachloroethane	85		-		70-130	-		25
Chlorobenzene	83		-		70-130	-		25
Ethylbenzene	93		-		70-130	-		25
p/m-Xylene	93		-		70-130	-		25
Bromoform	101		-		70-130	-		25
Styrene	94		-		70-130	-		25
1,1,2,2-Tetrachloroethane	88		-		70-130	-		25
o-Xylene	96		-		70-130	-		25
1,2,3-Trichloropropane <sup>1</sup>	84		-		70-130	-		25
Isopropylbenzene	82		-		70-130	-		25
Bromobenzene <sup>1</sup>	84		-		70-130	-		25
4-Ethyltoluene	95		-		70-130	-		25
1,3,5-Trimethylbenzene	94		-		70-130	-		25
1,2,4-Trimethylbenzene	95		-		70-130	-		25
Benzyl chloride	90		-		70-130	-		25
1,3-Dichlorobenzene	89		-		70-130	-		25
1,4-Dichlorobenzene	88		-		70-130	-		25
sec-Butylbenzene	79		-		70-130	-		25



## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** MODOCK RD. SPRINGS/ DLS

**Project Number:** 21-006C

**Lab Number:** L2122351

**Report Date:** 05/07/21

<b>Parameter</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>%Recovery Limits</b>	<b>RPD</b>	<b>Qual</b>	<b>RPD Limits</b>
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-07 Batch: WG1494908-3								
p-Isopropyltoluene	71		-		70-130	-		25
1,2-Dichlorobenzene	88		-		70-130	-		25
n-Butylbenzene	85		-		70-130	-		25
1,2,4-Trichlorobenzene	83		-		70-130	-		25
Naphthalene	82		-		70-130	-		25
1,2,3-Trichlorobenzene	79		-		70-130	-		25
Hexachlorobutadiene	88		-		70-130	-		25

## Lab Duplicate Analysis

Batch Quality Control

Project Name: MODOCK RD. SPRINGS/ DLS

Project Number: 21-006C

Lab Number: L2122351

Report Date: 05/07/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-07 QC Batch ID: WG1494908-5 QC Sample: L2122351-04 Client ID: SV-04						
Dichlorodifluoromethane	1.24	1.24	ppbV	0		25
Chloromethane	ND	ND	ppbV	NC		25
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	ND	ppbV	NC		25
Vinyl chloride	ND	ND	ppbV	NC		25
1,3-Butadiene	0.036	0.041	ppbV	13		25
Bromomethane	ND	ND	ppbV	NC		25
Chloroethane	ND	ND	ppbV	NC		25
Ethyl Alcohol	ND	ND	ppbV	NC		25
Vinyl bromide	ND	ND	ppbV	NC		25
Acetone	12.1	12.0	ppbV	1		25
Trichlorofluoromethane	0.211	0.215	ppbV	2		25
iso-Propyl Alcohol	1.00	1.00	ppbV	0		25
1,1-Dichloroethene	ND	ND	ppbV	NC		25
tert-Butyl Alcohol <sup>1</sup>	1.79	1.78	ppbV	1		25
Methylene chloride	ND	ND	ppbV	NC		25
1,2-Dichloroethene (total)	ND	ND	ppbV	NC		25
3-Chloropropene	ND	ND	ppbV	NC		25
1,3-Dichloropropene, Total	ND	ND	ppbV	NC		25
Carbon disulfide	0.693	0.685	ppbV	1		25
1,1,2-Trichloro-1,2,2-Trifluoroethane	0.062	0.067	ppbV	8		25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC		25

## Lab Duplicate Analysis

Batch Quality Control

Project Name: MODOCK RD. SPRINGS/ DLS

Project Number: 21-006C

Lab Number: L2122351

Report Date: 05/07/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-07 QC Batch ID: WG1494908-5 QC Sample: L2122351-04 Client ID: SV-04						
1,1-Dichloroethane	ND	ND	ppbV	NC		25
Methyl tert butyl ether	ND	ND	ppbV	NC		25
2-Butanone	39.1	38.9	ppbV	1		25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC		25
Ethyl Acetate	ND	ND	ppbV	NC		25
Chloroform	ND	ND	ppbV	NC		25
Tetrahydrofuran	ND	ND	ppbV	NC		25
1,2-Dichloroethane	ND	ND	ppbV	NC		25
n-Hexane	ND	ND	ppbV	NC		25
1,1,1-Trichloroethane	1.15	1.12	ppbV	3		25
Benzene	ND	ND	ppbV	NC		25
Carbon tetrachloride	ND	ND	ppbV	NC		25
Cyclohexane	ND	ND	ppbV	NC		25
1,2-Dichloropropane	ND	ND	ppbV	NC		25
Bromodichloromethane	ND	ND	ppbV	NC		25
1,4-Dioxane	ND	ND	ppbV	NC		25
Trichloroethene	ND	ND	ppbV	NC		25
2,2,4-Trimethylpentane	ND	ND	ppbV	NC		25
Heptane	ND	ND	ppbV	NC		25
cis-1,3-Dichloropropene	ND	ND	ppbV	NC		25
4-Methyl-2-pentanone	ND	ND	ppbV	NC		25

## Lab Duplicate Analysis

Batch Quality Control

Project Name: MODOCK RD. SPRINGS/ DLS

Project Number: 21-006C

Lab Number: L2122351

Report Date: 05/07/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-07 QC Batch ID: WG1494908-5 QC Sample: L2122351-04 Client ID: SV-04						
trans-1,3-Dichloropropene	ND	ND	ppbV	NC		25
1,1,2-Trichloroethane	ND	ND	ppbV	NC		25
Toluene	0.101	0.102	ppbV	1		25
2-Hexanone	1.44	1.47	ppbV	2		25
Dibromochloromethane	ND	ND	ppbV	NC		25
1,2-Dibromoethane	ND	ND	ppbV	NC		25
Tetrachloroethene	ND	ND	ppbV	NC		25
Chlorobenzene	ND	ND	ppbV	NC		25
Ethylbenzene	0.043	0.045	ppbV	5		25
p/m-Xylene	0.343	0.344	ppbV	0		25
Bromoform	ND	ND	ppbV	NC		25
Xylene (Total)	0.596	0.594	ppbV	0		25
Styrene	0.028	0.027	ppbV	4		25
1,1,1,2-Tetrachloroethane	ND	ND	ppbV	NC		25
o-Xylene	0.253	0.250	ppbV	1		25
4-Ethyltoluene	0.167	0.157	ppbV	6		25
1,3,5-Trimethylbenzene	0.426	0.420	ppbV	1		25
1,2,4-Trimethylbenzene	0.595	0.592	ppbV	1		25
Benzyl chloride	ND	ND	ppbV	NC		25
1,3-Dichlorobenzene	ND	ND	ppbV	NC		25
1,4-Dichlorobenzene	ND	ND	ppbV	NC		25

## Lab Duplicate Analysis

Batch Quality Control

Project Name: MODOCK RD. SPRINGS/ DLS

Project Number: 21-006C

Lab Number: L2122351

Report Date: 05/07/21

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Lab Associated sample(s): 01-07 QC Batch ID: WG1494908-5 QC Sample: L2122351-04 Client ID: SV-04						
1,2-Dichlorobenzene	ND	ND	ppbV	NC		25
1,2,4-Trichlorobenzene	ND	ND	ppbV	NC		25
Hexachlorobutadiene	ND	ND	ppbV	NC		25

Project Name: MODOCK RD. SPRINGS/ DLS

Serial\_No:05072114:54  
Lab Number: L2122351

Project Number: 21-006C

Report Date: 05/07/21

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controller Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2122351-01	SV-01	02097	Flow 3	04/29/21	350527		-	-	-	Pass	20.0	18.8	6
L2122351-01	SV-01	2270	6.0L Can	04/29/21	350527	L2118246-03	Pass	-29.3	-6.8	-	-	-	-
L2122351-02	SV-02	02092	Flow 3	04/26/21	349891		-	-	-	Pass	20.0	19.7	2
L2122351-02	SV-02	1645	6.0L Can	04/26/21	349891	L2117928-09	Pass	-29.1	-8.6	-	-	-	-
L2122351-03	SV-03	01029	Flow 4	04/26/21	349891		-	-	-	Pass	20.0	0.5	190
L2122351-03	SV-03	3377	6.0L Can	04/26/21	349891	L2117928-09	Pass	-29.1	-20.5	-	-	-	-
L2122351-04	SV-04	0975	Flow 4	04/26/21	349891		-	-	-	Pass	20.0	19.2	4
L2122351-04	SV-04	931	6.0L Can	04/26/21	349891	L2117928-08	Pass	-29.2	-6.9	-	-	-	-
L2122351-05	SV-08	0543	Flow 3	04/26/21	349891		-	-	-	Pass	20.0	20.3	1
L2122351-05	SV-08	1676	6.0L Can	04/26/21	349891	L2117928-09	Pass	-29.1	-23.1	-	-	-	-
L2122351-06	SV-11	01389	Flow 3	04/26/21	349891		-	-	-	Pass	20.0	19.0	5
L2122351-06	SV-11	2054	6.0L Can	04/26/21	349891	L2117928-09	Pass	-29.1	-9.9	-	-	-	-
L2122351-07	DUP 042821	01785	Flow 3	04/26/21	349891		-	-	-	Pass	20.0	19.8	1
L2122351-07	DUP 042821	3297	6.0L Can	04/26/21	349891	L2117928-09	Pass	-29.2	-8.7	-	-	-	-
L2122351-08	UNUSED_CAN#3465	01526	Flow 3	04/26/21	349891		-	-	-	Pass	20.0	19.9	1



**Project Name:** MODOCK RD. SPRINGS/ DLS

**Project Number:** 21-006C

Serial\_No:05072114:54  
**Lab Number:** L2122351

**Report Date:** 05/07/21

### Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2122351-08	UNUSED_CAN#3465	3465	6.0L Can	04/26/21	349891	L2117928-09	Pass	-28.8	0.0	-	-	-	-
L2122351-09	UNUSED_CAN#742	742	6.0L Can	04/29/21	350527	L2118246-03	Pass	-29.3	-30.1	-	-	-	-

**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L2117928  
**Report Date:** 05/07/21

### Air Canister Certification Results

**Lab ID:** L2117928-08  
**Client ID:** CAN 1897 SHELF 51  
**Sample Location:**

**Date Collected:** 04/09/21 09:00  
**Date Received:** 04/09/21  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Air  
**Analytical Method:** 48,TO-15  
**Analytical Date:** 04/09/21 21:09  
**Analyst:** TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1





**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L2117928  
**Report Date:** 05/07/21

### Air Canister Certification Results

Lab ID: L2117928-08  
 Client ID: CAN 1897 SHELF 51  
 Sample Location:

Date Collected: 04/09/21 09:00  
 Date Received: 04/09/21  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1



**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L2117928  
**Report Date:** 05/07/21

### Air Canister Certification Results

Lab ID: L2117928-08  
 Client ID: CAN 1897 SHELF 51  
 Sample Location:

Date Collected: 04/09/21 09:00  
 Date Received: 04/09/21  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1



**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L2117928  
**Report Date:** 05/07/21

### Air Canister Certification Results

Lab ID: L2117928-08  
 Client ID: CAN 1897 SHELF 51  
 Sample Location:

Date Collected: 04/09/21 09:00  
 Date Received: 04/09/21  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1



**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L2117928  
**Report Date:** 05/07/21

### Air Canister Certification Results

Lab ID: L2117928-08  
 Client ID: CAN 1897 SHELF 51  
 Sample Location:

Date Collected: 04/09/21 09:00  
 Date Received: 04/09/21  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	92		60-140
Bromochloromethane	97		60-140
chlorobenzene-d5	89		60-140



**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L2117928  
**Report Date:** 05/07/21

### Air Canister Certification Results

Lab ID: L2117928-08  
 Client ID: CAN 1897 SHELF 51  
 Sample Location:

Date Collected: 04/09/21 09:00  
 Date Received: 04/09/21  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Air  
 Analytical Method: 48,TO-15-SIM  
 Analytical Date: 04/09/21 21:09  
 Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1



**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L2117928  
**Report Date:** 05/07/21

### Air Canister Certification Results

Lab ID: L2117928-08  
 Client ID: CAN 1897 SHELF 51  
 Sample Location:

Date Collected: 04/09/21 09:00  
 Date Received: 04/09/21  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1



**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L2117928  
**Report Date:** 05/07/21

### Air Canister Certification Results

Lab ID: L2117928-08  
 Client ID: CAN 1897 SHELF 51  
 Sample Location:

Date Collected: 04/09/21 09:00  
 Date Received: 04/09/21  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	91		60-140
bromochloromethane	97		60-140
chlorobenzene-d5	86		60-140

**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L2117928  
**Report Date:** 05/07/21

### Air Canister Certification Results

Lab ID: L2117928-09  
 Client ID: CAN 1993 SHELF 53  
 Sample Location:

Date Collected: 04/09/21 09:00  
 Date Received: 04/09/21  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Air  
 Analytical Method: 48,TO-15  
 Analytical Date: 04/09/21 21:47  
 Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1





**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L2117928  
**Report Date:** 05/07/21

### Air Canister Certification Results

Lab ID: L2117928-09  
 Client ID: CAN 1993 SHELF 53  
 Sample Location:

Date Collected: 04/09/21 09:00  
 Date Received: 04/09/21  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1



**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L2117928  
**Report Date:** 05/07/21

### Air Canister Certification Results

Lab ID: L2117928-09  
 Client ID: CAN 1993 SHELF 53  
 Sample Location:

Date Collected: 04/09/21 09:00  
 Date Received: 04/09/21  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1



**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L2117928  
**Report Date:** 05/07/21

### Air Canister Certification Results

Lab ID: L2117928-09  
 Client ID: CAN 1993 SHELF 53  
 Sample Location:

Date Collected: 04/09/21 09:00  
 Date Received: 04/09/21  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1



**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L2117928  
**Report Date:** 05/07/21

### Air Canister Certification Results

Lab ID: L2117928-09  
 Client ID: CAN 1993 SHELF 53  
 Sample Location:

Date Collected: 04/09/21 09:00  
 Date Received: 04/09/21  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	92		60-140
Bromochloromethane	97		60-140
chlorobenzene-d5	87		60-140

**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L2117928  
**Report Date:** 05/07/21

### Air Canister Certification Results

Lab ID: L2117928-09  
 Client ID: CAN 1993 SHELF 53  
 Sample Location:

Date Collected: 04/09/21 09:00  
 Date Received: 04/09/21  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Air  
 Analytical Method: 48,TO-15-SIM  
 Analytical Date: 04/09/21 21:47  
 Analyst: TS

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1



**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L2117928  
**Report Date:** 05/07/21

### Air Canister Certification Results

Lab ID: L2117928-09  
 Client ID: CAN 1993 SHELF 53  
 Sample Location:

Date Collected: 04/09/21 09:00  
 Date Received: 04/09/21  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1



**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L2117928  
**Report Date:** 05/07/21

### Air Canister Certification Results

Lab ID: L2117928-09  
 Client ID: CAN 1993 SHELF 53  
 Sample Location:

Date Collected: 04/09/21 09:00  
 Date Received: 04/09/21  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	90		60-140
bromochloromethane	96		60-140
chlorobenzene-d5	85		60-140



**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L2118246  
**Report Date:** 05/07/21

### Air Canister Certification Results

Lab ID: L2118246-03  
 Client ID: CAN 2268 SHELF 45  
 Sample Location:

Date Collected: 04/09/21 16:00  
 Date Received: 04/12/21  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Air  
 Analytical Method: 48,TO-15  
 Analytical Date: 04/12/21 17:55  
 Analyst: EW

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1





**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L2118246  
**Report Date:** 05/07/21

### Air Canister Certification Results

Lab ID: L2118246-03  
 Client ID: CAN 2268 SHELF 45  
 Sample Location:

Date Collected: 04/09/21 16:00  
 Date Received: 04/12/21  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1



**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L2118246  
**Report Date:** 05/07/21

### Air Canister Certification Results

Lab ID: L2118246-03  
 Client ID: CAN 2268 SHELF 45  
 Sample Location:

Date Collected: 04/09/21 16:00  
 Date Received: 04/12/21  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1



**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L2118246  
**Report Date:** 05/07/21

### Air Canister Certification Results

Lab ID: L2118246-03  
 Client ID: CAN 2268 SHELF 45  
 Sample Location:

Date Collected: 04/09/21 16:00  
 Date Received: 04/12/21  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1



**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L2118246  
**Report Date:** 05/07/21

### Air Canister Certification Results

Lab ID: L2118246-03  
 Client ID: CAN 2268 SHELF 45  
 Sample Location:

Date Collected: 04/09/21 16:00  
 Date Received: 04/12/21  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Lab								

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	93		60-140
Bromochloromethane	95		60-140
chlorobenzene-d5	89		60-140



**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L2118246  
**Report Date:** 05/07/21

### Air Canister Certification Results

Lab ID: L2118246-03  
 Client ID: CAN 2268 SHELF 45  
 Sample Location:

Date Collected: 04/09/21 16:00  
 Date Received: 04/12/21  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Air  
 Analytical Method: 48,TO-15-SIM  
 Analytical Date: 04/12/21 17:55  
 Analyst: EW

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1



**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L2118246  
**Report Date:** 05/07/21

### Air Canister Certification Results

Lab ID: L2118246-03  
 Client ID: CAN 2268 SHELF 45  
 Sample Location:

Date Collected: 04/09/21 16:00  
 Date Received: 04/12/21  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.050	--	ND	0.188	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1



**Project Name:** BATCH CANISTER CERTIFICATION  
**Project Number:** CANISTER QC BAT

**Lab Number:** L2118246  
**Report Date:** 05/07/21

### Air Canister Certification Results

Lab ID: L2118246-03  
 Client ID: CAN 2268 SHELF 45  
 Sample Location:

Date Collected: 04/09/21 16:00  
 Date Received: 04/12/21  
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	92		60-140
bromochloromethane	96		60-140
chlorobenzene-d5	90		60-140



**Project Name:** MODOCK RD. SPRINGS/ DLS**Lab Number:** L2122351**Project Number:** 21-006C**Report Date:** 05/07/21**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

**Cooler Information**

<b>Cooler</b>	<b>Custody Seal</b>
NA	Absent

**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
L2122351-01A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-SIM(30)
L2122351-02A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-SIM(30)
L2122351-03A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-SIM(30)
L2122351-04A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-SIM(30)
L2122351-05A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-SIM(30)
L2122351-06A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-SIM(30)
L2122351-07A	Canister - 6 Liter	NA	NA			Y	Absent		TO15-SIM(30)
L2122351-08A	Canister - 6 Liter	NA	NA			Y	Absent		CLEAN-FEE()
L2122351-09A	Canister - 6 Liter	NA	NA			Y	Absent		CLEAN-FEE()



**Project Name:** MODOCK RD. SPRINGS/ DLS  
**Project Number:** 21-006C

**Lab Number:** L2122351  
**Report Date:** 05/07/21

## GLOSSARY

### Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)  Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report



**Project Name:** MODOCK RD. SPRINGS/ DLS  
**Project Number:** 21-006C

**Lab Number:** L2122351  
**Report Date:** 05/07/21

#### Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

#### Terms

**Analytical Method:** Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

**Difference:** With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

**Final pH:** As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

**Frozen Date/Time:** With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

**Initial pH:** As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

**PAH Total:** With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

**PFAS Total:** With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. (Note: 'PFAS, Total (6)' is applicable to MassDEP DW compliance analysis only.). If a 'Total' result is requested, the results of its individual components will also be reported.

The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

**Total:** With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

#### Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- ND** - Not detected at the reporting limit (RL) for the sample.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where

Report Format: Data Usability Report



**Project Name:** MODOCK RD. SPRINGS/ DLS  
**Project Number:** 21-006C

**Lab Number:** L2122351  
**Report Date:** 05/07/21

**Data Qualifiers**

the identification is based on a mass spectral library search.

- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.

**Project Name:** MODOCK RD. SPRINGS/ DLS  
**Project Number:** 21-006C

**Lab Number:** L2122351  
**Report Date:** 05/07/21

## REFERENCES

- 48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

## LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



## Certification Information

---

The following analytes are not included in our Primary NELAP Scope of Accreditation:

### Westborough Facility

**EPA 624/624.1:** m/p-xylene, o-xylene, Naphthalene

**EPA 625/625.1:** alpha-Terpineol

**EPA 8260C/8260D:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

**EPA 8270D/8270E:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO<sub>2</sub>, NO<sub>3</sub>.

### Mansfield Facility

**SM 2540D:** TSS

**EPA 8082A:** NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.

**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

**Biological Tissue Matrix:** EPA 3050B

---

The following analytes are included in our Massachusetts DEP Scope of Accreditation

### Westborough Facility:

#### Drinking Water

**EPA 300.0:** Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

**EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**

**EPA 332:** Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.**

#### Non-Potable Water

**SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH:** Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LCHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,**

**SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.

**EPA 624.1:** Volatile Halocarbons & Aromatics,

**EPA 608.3:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II,

Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

**EPA 625.1:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

### Mansfield Facility:

#### Drinking Water

**EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

**EPA 522, EPA 537.1.**

#### Non-Potable Water

**EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

**EPA 245.1 Hg.**

**SM2340B**

---

For a complete listing of analytes and methods, please contact your Alpha Project Manager.



**CHAIN OF CUSTODY**

**AIR ANALYSIS**

320 Forbes Blvd, Mansfield, MA 02048  
 TEL: 508-822-9300 FAX: 508-822-3288

PAGE 1 OF 1

Date Rec'd in Lab: 5-1-21

ALPHA Job #: L2122351

**Client Information**

Client: Marks Engineering  
 Address: 42 Beaman Street  
 Canandaigua NY 14424  
 Phone: 585-500-8392  
 Fax:  
 Email: JWolf@MarksEngineering.com

**Project Information**

Project Name: Modack Rd Springs/DLS  
 Project Location: Victor NY  
 Project #: 21-006C  
 Project Manager: Jeremy Wolf  
 ALPHA Quote #: 10613

**Turn-Around Time**

Standard  RUSH (only confirmed if pre-approved)  
 Date Due: Time:

**Report Information - Data Deliverables**

FAX  
 ADEx  
 Criteria Checker:  
 (Default based on Regulatory Criteria Indicated)  
 Other Formats:  
 EMAIL (standard pdf report)  
 Additional Deliverables:  
 CAT B CMVDEC EPO  
 Report to: (if different than Project Manager)

**Billing Information**

Same as Client Info PO #: 21-006C

**Regulatory Requirements/Report Limits**

State/Fed Program Res / Comm

These samples have been previously analyzed by Alpha  
 Other Project Specific Requirements/Comments:  
 Project-Specific Target Compound List:

Modack Rd Springs/DLS

**ANALYSIS**

**All Columns Below Must Be Filled Out**

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION					Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller	TO-15	TO-15 SIM	APH Subtract Non-petroleum HCs	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
		End Date	Start Time	End Time	Initial Vacuum	Final Vacuum											
22351-01	SV-01	4/29/21	1240	1440	-29.33	-6.68	SV	JSW	6L	2220	02097	X					0.1
02	SV-02	4/28/21	0950	1350	-29.66	-8.67	SV	JSW	6L	1642	02092	X					0.1
03	SV-03	4/28/21	1015	1415	-29.10	-19.98	SV	JSW	6L	3377	01029	X					0.0
04	SV-04	4/28/21	0825	1225	-29.23	-5.70	SV	JSW	6L	931	0975	X					0.0
05	SV-08	4/28/21	0845	1425	-29.42	-22.62	SV	JSW	6L	1676	0543	X					0.0
06	SV-11	4/28/21	0925	1325	-29.27	-8.90	SV	JSW	6L	2054	01389	X					0.0
07	DUP 042821	4/28/21	0945	1345	-29.30	-7.64	SV	JSW	6L	2477	01785	X					0.0

**\*SAMPLE MATRIX CODES**

AA = Ambient Air (Indoor/Outdoor)  
 SV = Soil Vapor/Landfill Gas/SVE  
 Other = Please Specify

**Container Type**

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Relinquished By:  
 Jeremy Wolf  
 R Cunningham  
 C. J. [unclear]  
 Kelly [unclear]

Date/Time

4/30/21 12:00  
 5/1/21 08:20

Received By:

R Cunningham  
 [unclear]  
 [unclear]

Date/Time:

4/30/21 12:00  
 5/1/21 01:15  
 5-1-21 8:20  
 5-1-21 10:25



**Exhibit B**  
**Laboratory Report**  
**(Full Category B Packages)**  
**(Provided Electronically)**

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**Exhibit C**  
**Data Usability Summary Report**  
**(DUSR)**

# **DATA USABILITY SUMMARY REPORT (DUSR)**

**Site: DLS/Modock Road Springs  
Victor, NY  
Project #: 21-006c**

**SDGs: L2122351**  
7 Air Samples

Prepared for:

**Marks Engineering  
42 Beeman Street  
Canandaigua, NY 14424  
Attention: Jeremy Wolf**

**May 2021**



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<b>APPENDIX A</b>	Validated Analytical Results
<b>APPENDIX B</b>	Laboratory QC Documentation
<b>APPENDIX C</b>	Validator Qualifications

## *Tables*

Table 4-1	Data Validation Guidance Documents
Table 4-2	Quality Control Criteria for Validating Laboratory Analytical Data

## **Summaries of Validated Results**

Table 6-1	TO-15-SIM
-----------	-----------

**REVIEWER'S NARRATIVE**

**SDG L2122351 Marks Engineering DLS/Modock Road Springs**

The data associated with this Sample Delivery Group (SDG), analyzed by Alpha Analytical Westborough, MA have been reviewed in accordance with assessment criteria provided by the New York State Department of Environmental Conservation following the review procedures provided in the USEPA Functional Guidelines for evaluating organic and inorganic data.

All analytical results reported by the laboratory are considered valid and acceptable except results that have been qualified as rejected, "R". Results qualified as estimated "J", or as non-detects, "U", are considered usable for the purpose of evaluating water and/or soil quality. However, these qualifiers indicate that the accuracy and/or precision of the analytical result is questionable. A summary of all data that have been qualified and the reasons for qualification are provided in the following data usability summary report (DUSR).

Two facts should be noted by all data users. First, the "R" qualifier means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the analyte is present or not. Values qualified with an "R" should not appear on the final data tables because they cannot be relied upon, even as the last resort. Second, no analyte concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error.

Reviewer's Signature: Michael K. Perry Date: 5/10/2021  
Michael K. Perry  
Chemist

## 1.0 SUMMARY

<b>SITE:</b>	DLS/Modock Road Springs Victor, NY Project No. 21-006c
<b>SAMPLING DATE:</b>	April 28 and 29, 2021
<b>SAMPLE TYPE:</b>	7 air samples
<b>LABORATORY:</b>	Alpha Analytical Westborough, MA
<b>SDG No.:</b>	L2122351

## 2.0 INTRODUCTION

This data usability summary report (DUSR) was prepared in accordance with guidance provided by the New York State Department of Environmental Conservation (NYSDEC). The DUSR is based on a review and evaluation of the laboratory analytical data package. Specifically, the NYSDEC guidance recommends review and evaluation of the following elements of the data package:

- Completeness of the data package as defined under the requirements of the NYSDEC Analytical Services Protocols (ASP) Category B or the United States Environmental Protection Agency (USEPA) Contract Laboratory Program (CLP) deliverables,
- Compliance with established analyte holding times,
- Adherence to quality control (QC) limits and specifications for blanks, instrument tuning and calibration, surrogate recoveries, spike recoveries, laboratory duplicate analyses, and other QC criteria,
- Adherence to established analytical protocols,
- Conformance of data summary sheets with raw analytical data, and
- Use of correct data qualifiers.

Data deficiencies, analytical protocol deviations, and quality control problems identified using the review criteria above and their effect on the analytical results are discussed in this report.

### **3.0 SAMPLE AND ANALYSIS SUMMARY**

The data package consists of analytical results for seven air samples collected on April 28 and 29, 2021. These samples were analyzed for TO-15 Volatile Organic Compounds.

All laboratory analyses were performed by ALPHA Analytical, Westborough, MA and analyzed as SDG L2122351. The analytical results were provided in NYSDEC ASP Category B format, which includes all raw analytical data and laboratory QC data.

### **4.0 GUIDANCE DOCUMENTS AND DATA REVIEW CRITERIA**

The guidance documents used for reviewing laboratory quality control (QC) data and assigning data qualifiers (flags) to analytical results are listed in Table 4-1. The QC limits established in the documents applicable to this data review were used to assess the quality of the analytical results. In some cases, however, QC limits established internally by the laboratory were taken into account to determine data quality.

The QC criteria considered for assessing the usability of the reported analytical results provided for each analyte type (i.e. VOCs, SVOCs, metals, etc.) are listed in Table 4-2. These criteria may vary with the analytical method utilized by the laboratory. These criteria comply with the guidance recommended in Section 2.0 above.

### **5.0 DATA VALIDATION QUALIFIERS**

The letter qualifiers (flags) used to define data usability are described briefly below. These letters are assigned by the data validator to analytical results having questionable accuracy and/or precision as determined by reviewing the laboratory QC data associated with the analytical results.

**TABLE 4-1****DATA VALIDATION GUIDANCE DOCUMENTS**

<b>Analyte Type</b>	<b>Validation Guidance</b>
VOCs	USEPA, 2008, Validating Volatile Organic Compounds By Gas Chromatography/Mass Spectrometry; SW-846 Method 8260B; SOP # HW-24, Rev. 2.  USEPA, 2008, Statement of Work for Organic Analysis of Low/Medium Concentration of Volatile Organic Compounds SQM01.2; SOP HW-33, Rev. 2.
SVOCs	USEPA, 2007, Statement of Work for Organic Analysis of Low/Medium Concentration of Semivolatile Organic Compounds SQM01.2; SOP HW-35, Rev. 1.
Pesticides/PCBs	USEPA, 2006, CLP Organics Data Review and Preliminary Review (CLP/SOW OLMO 4.3); SOP # HW-6, Rev. 14, Part C.
Metals	USEPA, 2006, Validation of Metals for the Contract Laboratory Program (CLP) based on SOW ILMO 5.3 (SOP Revision 13), SOP # HW-2, Rev. 13.
Gen Chemistry	NYSDEC, 2005, Analytical Services Protocols (ASP)
VOCs (Ambient air)	USEPA, 2006, Validating Air Samples, Volatile Organic Analysis of Ambient Air in Canister by Method TO-15; SOP # HW-31, Rev. 4.
Perfluoroalkyl Substances (PFASs)	USEPA, 2018, Data Review and Validation Guidelines for Perfluoroalkyl Substances (PFASs) Analyzed Using EPA Method 537



**TABLE 4-2**

**QUALITY CONTROL CRITERIA USED FOR VALIDATING  
LABORATORY ANALYTICAL DATA**

<b>VOCs</b>	<b>SVOCs</b>	<b>Pesticides/PCBs</b>	<b>Metals</b>	<b>Gen Chemistry</b>	<b>Method TO-15</b>
Completeness of Pkg Sample Preservation Holding Time System Monitoring Compounds Lab Control Sample Matrix Spikes Blanks Instrument Tuning Internal Standards Initial Calibration Continuing Calibration Lab Qualifiers Field Duplicate	Completeness of Pkg Sample Preservation Holding Time Surrogate Recoveries Lab Control Sample Matrix Spikes Blanks Instrument Tuning Internal Standards Initial Calibration Continuing Calibration Lab Qualifiers Field Duplicate	Completeness of Pkg Sample Preservation Holding Time Surrogate Recoveries Matrix Spikes Blanks Instrument Calibration & Verification Analyte ID Lab Qualifiers Field Duplicate	Completeness of Pkg Sample Preservation Holding Time Initial/Continuing Calibration CRDL Standards Blanks Interference Check Sample Spike Recoveries Lab Duplicate Lab Control Sample ICP Serial Dilutions Lab Qualifiers Field Duplicate	Completeness of Pkg Sample Preservation Holding Times Calibration Lab Control Samples Blanks Spike Recoveries Lab Duplicates	Completeness of Pkg Sample Preservation Holding Time Canister Certification Lab Control Sample Instrument Tuning Blanks Initial Calibration & System Performance Daily Calibration Field Duplicate

<b>PFASs</b>
Completeness of Pkg Sample Preservation Holding Time Instr Performance Check Initial Calibration Continuing Calibration Blanks Surrogates Lab Fortified Blank Matrix Spikes Internal Standards

The laboratory may also use various letters and symbols to flag analytical results generated when QC limits were exceeded. The meanings of these flags may differ from those used by the independent data validator. Those used by the laboratory are provided with the analytical results.

**NOTE:** The assignment of data qualifiers by the data reviewer (validator) to laboratory analytical results should not necessarily be interpreted by the data user as a measure of laboratory ability or proficiency. Rather, the qualifiers are intended to provide a measure of data accuracy and precision to the data user, which, for example, may provide a level of confidence in determining whether or not standards or cleanup objectives have been met.

- U** The analyte was analyzed for but was not detected at or above the sample quantitation limit.
- J** The analyte was positively identified; the associated numerical value is the *approximate* concentration of the analyte in the sample. (The magnitude of any  $\pm$  value associated with the result is not determined by data validation).
- UJ** The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is *approximate* and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R** The sample result is rejected (i.e., is unusable) due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.
- N** The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
- JN** The analyte is considered to be "presumptively present." The associated numerical value represents its *approximate* concentration.

The validated analytical results are attached to this report. Validation qualifiers (flags) are indicated using red ink. Data sheets having qualified data are signed and dated by the data reviewer.

## **6.0 RESULTS OF THE DATA REVIEW**

The results of the data review are summarized in Table 6-1. The table lists the samples where QC criteria were found to exceed acceptable limits and the actions taken to qualify the associated analytical results.

## **7.0 TOTAL USABLE DATA**

For SDG L2122351, seven samples were analyzed and results were reported for 462 analytes. Even though some results were flagged with a “J” as estimated, all results (100 %) are considered usable. See the summary table for the analyses that have been rejected and the associated QC reasons.

L2122351

**Table 6-1 TO-15-SIM**

<b>SAMPLES AFFECTED</b>	<b>ANALYTES</b>	<b>ACTION</b>	<b>QC VIOLATION</b>	<b>COMMENTS</b>
SV-11 DUP 042821	1,1-Dichloroethene 1,1,2-Trichloro-1,2,2-trifluoromethane 2-Butanone 1,2,4-Trimethylbenzene	J detects	Field Dup % D > 30 %	Data are estimated
All samples	Benzyl Chloride	J detects	ICAL RPD > 30 %	No detects

## ACRONYMS

BSP	Blank Spike
CCAL	Continuing Calibration
CCB	Continuing Calibration Blank
CCV	Continuing Calibration Verification
CRDL	Contract Required Detection Limit
CRQL	Contract Required Quantitation Limit
%D	Percent Difference
ICAL	Initial Calibration
ICB	Initial Calibration Blank
IS	Internal Standard
LCS	Laboratory Control Sample
MS/MSD	Matrix Spike/Matrix Spike Duplicate
QA	Quality Assurance
QC	Quality Control
%R	Percent recovery
RPD	Relative Percent Difference
RRF	Relative Response Factor
%RSD	Percent Relative Standard Deviation
TAL	Target Analyte List (metals)
TCL	Target Compound List (organics)

*Appendix A*

---

*Validated  
Analytical  
Results*



[www.alphalab.com](http://www.alphalab.com)



**Alpha Analytical**

**Laboratory Code: 11148**

**SDG Number: L2122351**

*The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.*

**Project Name:** MODOCK RD. SPRINGS/ DLS  
**Project Number:** 21-006C

**Lab Number:** L2122351  
**Report Date:** 05/07/21

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Matrix</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>	<b>Receive Date</b>
L2122351-01	SV-01	SOIL_VAPOR	VICTOR, NY	04/29/21 14:40	04/30/21
L2122351-02	SV-02	SOIL_VAPOR	VICTOR, NY	04/28/21 13:50	04/30/21
L2122351-03	SV-03	SOIL_VAPOR	VICTOR, NY	04/28/21 14:15	04/30/21
L2122351-04	SV-04	SOIL_VAPOR	VICTOR, NY	04/28/21 12:25	04/30/21
L2122351-05	SV-08	SOIL_VAPOR	VICTOR, NY	04/28/21 14:25	04/30/21
L2122351-06	SV-11	SOIL_VAPOR	VICTOR, NY	04/28/21 13:25	04/30/21
L2122351-07	DUP 042821	SOIL_VAPOR	VICTOR, NY	04/28/21 13:45	04/30/21
L2122351-08	UNUSED_CAN#3465	SOIL_VAPOR	VICTOR, NY		04/30/21
L2122351-09	UNUSED_CAN#742	SOIL_VAPOR	VICTOR, NY		04/30/21



**Project Name:** MODOCK RD. SPRINGS/ DLS  
**Project Number:** 21-006C

**Lab Number:** L2122351  
**Report Date:** 05/07/21

**Case Narrative (continued)**

Volatile Organics in Air by SIM

Canisters were released from the laboratory on April 26 and 29, 2021. The canister certification results are provided as an addendum.

L2122351-06D: The sample was re-analyzed on dilution in order to quantitate the results within the calibration range. The result(s) should be considered estimated, and are qualified with an E flag, for any compound(s) that exceeded the calibration range in the initial analysis. The re-analysis was performed only for the compound(s) that exceeded the calibration range.

L2122351-07D: The sample was re-analyzed on dilution in order to quantitate the results within the calibration range. The result(s) should be considered estimated, and are qualified with an E flag, for any compound(s) that exceeded the calibration range in the initial analysis. The re-analysis was performed only for the compound(s) that exceeded the calibration range.

L2122351-03D & -05D: The canister vacuum measured on receipt at the laboratory was > 15 in. Hg. Prior to sample analysis, the canisters were pressurized with UHP Nitrogen in order to facilitate the transfer of sample to the Gas Chromatograph. The addition of Nitrogen resulted in a dilution of the samples. The reporting limits have been elevated accordingly.

Sample Receipt

The canister ID number for the sample designated SV-02 (L2122351-02) is listed on the CoC as 1642 but should be 1645.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: *Christopher J. Anderson*

Report Date: 05/07/21

Title: Technical Director/Representative





# AIR ANALYSIS CHAIN OF CUSTODY

## AIR ANALYSIS

PAGE 1 OF 1

Date Rec'd in Lab: 5-1-21

ALPHA Job #: L2122351

320 Forbes Blvd, Mansfield, MA 02048  
TEL: 508-822-9300 FAX: 508-822-3288**Project Information**Project Name: *Modack Rd Springs/DLS*  
Project Location: *Victor NY*  
Project #: *21-006C*  
Project Manager: *Jeremy Wolf*  
ALPHA Quote #: *10613***Report Information - Data Deliverables** FAX  
 ADEx  
Criteria Checker: \_\_\_\_\_  
*(Default based on Regulatory Criteria Indicated)*  
Other Formats: \_\_\_\_\_  
 EMAIL (standard pdf report)  
 Additional Deliverables:  
*CAT B CMXDEC EPO*  
Report to: *(if different than Project Manager)***Billing Information** Same as Client Info PO #: *21-006C***Client Information**Client: *Marks Engineering*  
Address: *42 Beaman Street  
Canandaigua NY 14424*  
Phone: *585-500-8392*  
Fax: \_\_\_\_\_  
Email: *JWolf@MarksEngineering.com***Turn-Around Time** Standard  RUSH *(only confirmed if pre-approved!)*

Date Due: \_\_\_\_\_ Time: \_\_\_\_\_

**Regulatory Requirements/Report Limits**

State/Fed Program Res / Comm

 These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: *Modack Rd Springs/DLS***ANALYSIS****All Columns Below Must Be Filled Out**

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION					Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller	TO-15	TO-15 SIM	APH <small>Subtract Non-petroleum HCs</small>	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
		End Date	Start Time	End Time	Initial Vacuum	Final Vacuum											
<i>22351-01</i>	<i>SV-01</i>	<i>4/29/21</i>	<i>1240</i>	<i>1440</i>	<i>-29.33</i>	<i>-6.68</i>	<i>SV</i>	<i>JSW</i>	<i>6L</i>	<i>2220</i>	<i>02097</i>	<input checked="" type="checkbox"/>				<i>0.1</i>	
<i>02</i>	<i>SV-02</i>	<i>4/28/21</i>	<i>0950</i>	<i>1350</i>	<i>-29.66</i>	<i>-8.67</i>	<i>SV</i>	<i>JSW</i>	<i>6L</i>	<i>1642</i>	<i>02092</i>	<input checked="" type="checkbox"/>				<i>0.1</i>	
<i>03</i>	<i>SV-03</i>	<i>4/28/21</i>	<i>1015</i>	<i>1415</i>	<i>-29.10</i>	<i>-19.98</i>	<i>SV</i>	<i>JSW</i>	<i>6L</i>	<i>3377</i>	<i>01029</i>	<input checked="" type="checkbox"/>				<i>0.0</i>	
<i>04</i>	<i>SV-04</i>	<i>4/28/21</i>	<i>0825</i>	<i>1225</i>	<i>-29.23</i>	<i>-5.70</i>	<i>SV</i>	<i>JSW</i>	<i>6L</i>	<i>931</i>	<i>0975</i>	<input checked="" type="checkbox"/>				<i>0.0</i>	
<i>05</i>	<i>SV-08</i>	<i>4/28/21</i>	<i>0845</i>	<i>1425</i>	<i>-29.42</i>	<i>-22.62</i>	<i>SV</i>	<i>JSW</i>	<i>6L</i>	<i>1676</i>	<i>0543</i>	<input checked="" type="checkbox"/>				<i>0.0</i>	
<i>06</i>	<i>SV-11</i>	<i>4/28/21</i>	<i>0925</i>	<i>1325</i>	<i>-29.27</i>	<i>-8.90</i>	<i>SV</i>	<i>JSW</i>	<i>6L</i>	<i>2054</i>	<i>01389</i>	<input checked="" type="checkbox"/>				<i>0.0</i>	
<i>07</i>	<i>DUP 042821</i>	<i>4/28/21</i>	<i>0945</i>	<i>1345</i>	<i>-29.30</i>	<i>-7.64</i>	<i>SV</i>	<i>JSW</i>	<i>6L</i>	<i>2477</i>	<i>01785</i>	<input checked="" type="checkbox"/>				<i>0.0</i>	

**\*SAMPLE MATRIX CODES**AA = Ambient Air (Indoor/Outdoor)  
SV = Soil Vapor/Landfill Gas/SVE  
Other = Please Specify

Container Type

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Relinquished By:

Date/Time

Received By:

Date/Time:

*Jeremy Wolf*  
*R Cunningham*  
*C. J. ...*  
*King ... 1023 5/1/21**4/30/21 12:00*  
*5/1/21 08:20**R Cunningham*  
*...*  
*...**4/30/21 12:00*  
*5/1/21 01:15*  
*5/1/21 8:20*  
*5-1-21 1025*

Project Name: MODOCK RD. SPRINGS/ DLS

Lab Number: L2122351

Project Number: 21-006C

Report Date: 05/07/21

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controller Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2122351-01	SV-01	02097	Flow 3	04/29/21	350527		-	-	-	Pass	20.0	18.8	6
L2122351-01	SV-01	2270	6.0L Can	04/29/21	350527	L2118246-03	Pass	-29.3	-6.8	-	-	-	-
L2122351-02	SV-02	02092	Flow 3	04/26/21	349891		-	-	-	Pass	20.0	19.7	2
L2122351-02	SV-02	1645	6.0L Can	04/26/21	349891	L2117928-09	Pass	-29.1	-8.6	-	-	-	-
L2122351-03	SV-03	01029	Flow 4	04/26/21	349891		-	-	-	Pass	20.0	0.5	190
L2122351-03	SV-03	3377	6.0L Can	04/26/21	349891	L2117928-09	Pass	-29.1	-20.5	-	-	-	-
L2122351-04	SV-04	0975	Flow 4	04/26/21	349891		-	-	-	Pass	20.0	19.2	4
L2122351-04	SV-04	931	6.0L Can	04/26/21	349891	L2117928-08	Pass	-29.2	-6.9	-	-	-	-
L2122351-05	SV-08	0543	Flow 3	04/26/21	349891		-	-	-	Pass	20.0	20.3	1
L2122351-05	SV-08	1676	6.0L Can	04/26/21	349891	L2117928-09	Pass	-29.1	-23.1	-	-	-	-
L2122351-06	SV-11	01389	Flow 3	04/26/21	349891		-	-	-	Pass	20.0	19.0	5
L2122351-06	SV-11	2054	6.0L Can	04/26/21	349891	L2117928-09	Pass	-29.1	-9.9	-	-	-	-
L2122351-07	DUP 042821	01785	Flow 3	04/26/21	349891		-	-	-	Pass	20.0	19.8	1
L2122351-07	DUP 042821	3297	6.0L Can	04/26/21	349891	L2117928-09	Pass	-29.2	-8.7	-	-	-	-
L2122351-08	UNUSED_CAN#3465	01526	Flow 3	04/26/21	349891		-	-	-	Pass	20.0	19.9	1



**Project Name:** MODOCK RD. SPRINGS/ DLS

**Lab Number:** L2122351

**Project Number:** 21-006C

**Report Date:** 05/07/21

**Canister and Flow Controller Information**

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controller Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2122351-08	UNUSED_CAN#3465	3465	6.0L Can	04/26/21	349891	L2117928-09	Pass	-28.8	0.0	-	-	-	-
L2122351-09	UNUSED_CAN#742	742	6.0L Can	04/29/21	350527	L2118246-03	Pass	-29.3	-30.1	-	-	-	-

**GC/MS VOA**  
**Air Analysis**  
**Selective Ion Monitoring**

# Results Summary Form 1 Volatile Organics in Air by SIM

Client : Marks Engineering, PC  
 Project Name : MODOCK RD. SPRINGS/ DLS  
 Lab ID : L2122351-01  
 Client ID : SV-01  
 Sample Location : VICTOR, NY  
 Sample Matrix : SOIL\_VAPOR  
 Analytical Method : 48,TO-15-SIM  
 Lab File ID : R1525740\_EV2  
 Sample Amount : 250 ml

Lab Number : L2122351  
 Project Number : 21-006C  
 Date Collected : 04/29/21 14:40  
 Date Received : 04/30/21  
 Date Analyzed : 05/06/21 00:00  
 Dilution Factor : 1  
 Analyst : RY  
 Instrument ID : AIRLAB15  
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.452	0.200	--	2.24	0.989	--	
74-87-3	Chloromethane	ND	0.200	--	ND	0.413	--	U
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.050	--	ND	0.349	--	U
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
106-99-0	1,3-Butadiene	ND	0.020	--	ND	0.044	--	U
74-83-9	Bromomethane	ND	0.020	--	ND	0.078	--	U
75-00-3	Chloroethane	ND	0.100	--	ND	0.264	--	U
64-17-5	Ethyl Alcohol	ND	5.00	--	ND	9.42	--	U
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	5.46	1.00	--	13.0	2.38	--	
75-69-4	Trichlorofluoromethane	0.260	0.050	--	1.46	0.281	--	
67-63-0	iso-Propyl Alcohol	ND	0.500	--	ND	1.23	--	U
75-35-4	1,1-Dichloroethene	1.22	0.020	--	4.84	0.079	--	
75-65-0	tert-Butyl Alcohol	ND	0.500	--	ND	1.52	--	U
540-59-0	1,2-Dichloroethene (total)	ND	0.020	--	ND	0.079	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
542-75-6	1,3-Dichloropropene, Total	ND	0.020	--	ND	0.091	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	0.069	0.050	--	0.529	0.383	--	
156-60-5	trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
75-34-3	1,1-Dichloroethane	0.044	0.020	--	0.178	0.081	--	
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	2.35	0.500	--	6.93	1.47	--	
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U



# Results Summary

## Form 1

### Volatile Organics in Air by SIM

Client : Marks Engineering, PC  
 Project Name : MODOCK RD. SPRINGS/ DLS  
 Lab ID : L2122351-01  
 Client ID : SV-01  
 Sample Location : VICTOR, NY  
 Sample Matrix : SOIL\_VAPOR  
 Analytical Method : 48,TO-15-SIM  
 Lab File ID : R1525740\_EV2  
 Sample Amount : 250 ml

Lab Number : L2122351  
 Project Number : 21-006C  
 Date Collected : 04/29/21 14:40  
 Date Received : 04/30/21  
 Date Analyzed : 05/06/21 00:00  
 Dilution Factor : 1  
 Analyst : RY  
 Instrument ID : AIRLAB15  
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
67-66-3	Chloroform	0.067	0.020	--	0.327	0.098	--	
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U
107-06-2	1,2-Dichloroethane	ND	0.020	--	ND	0.081	--	U
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U
71-55-6	1,1,1-Trichloroethane	31.1	0.020	--	170	0.109	--	
71-43-2	Benzene	ND	0.100	--	ND	0.319	--	U
56-23-5	Carbon tetrachloride	0.064	0.020	--	0.403	0.126	--	
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.020	--	ND	0.092	--	U
75-27-4	Bromodichloromethane	ND	0.020	--	ND	0.134	--	U
123-91-1	1,4-Dioxane	ND	0.100	--	ND	0.360	--	U
79-01-6	Trichloroethene	2.13	0.020	--	11.4	0.107	--	
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--	U
108-88-3	Toluene	0.091	0.050	--	0.343	0.188	--	
591-78-6	2-Hexanone	0.466	0.200	--	1.91	0.820	--	
124-48-1	Dibromochloromethane	ND	0.020	--	ND	0.170	--	U
106-93-4	1,2-Dibromoethane	ND	0.020	--	ND	0.154	--	U
127-18-4	Tetrachloroethene	ND	0.020	--	ND	0.136	--	U
108-90-7	Chlorobenzene	ND	0.100	--	ND	0.461	--	U
100-41-4	Ethylbenzene	0.097	0.020	--	0.421	0.087	--	
179601-23-1	p/m-Xylene	1.07	0.040	--	4.65	0.174	--	



# Results Summary

## Form 1

### Volatile Organics in Air by SIM

Client : Marks Engineering, PC  
 Project Name : MODOCK RD. SPRINGS/ DLS  
 Lab ID : L2122351-01  
 Client ID : SV-01  
 Sample Location : VICTOR, NY  
 Sample Matrix : SOIL\_VAPOR  
 Analytical Method : 48,TO-15-SIM  
 Lab File ID : R1525740\_EV2  
 Sample Amount : 250 ml

Lab Number : L2122351  
 Project Number : 21-006C  
 Date Collected : 04/29/21 14:40  
 Date Received : 04/30/21  
 Date Analyzed : 05/06/21 00:00  
 Dilution Factor : 1  
 Analyst : RY  
 Instrument ID : AIRLAB15  
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-25-2	Bromoform	ND	0.020	--	ND	0.207	--	U
1330-20-7	Xylene (Total)	1.47	0.020	--	6.39	0.087	--	
100-42-5	Styrene	ND	0.020	--	ND	0.085	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--	U
95-47-6	o-Xylene	0.393	0.020	--	1.71	0.087	--	
622-96-8	4-Ethyltoluene	0.446	0.020	--	2.19	0.098	--	
108-67-8	1,3,5-Trimethylbenzene	0.491	0.020	--	2.41	0.098	--	
95-63-6	1,2,4-Trimethylbenzene	1.15	0.020	--	5.65	0.098	--	
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--	U
106-46-7	1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--	U
87-68-3	Hexachlorobutadiene	ND	0.050	--	ND	0.533	--	U





# Results Summary

## Form 1

### Volatile Organics in Air by SIM

Client : Marks Engineering, PC  
 Project Name : MODOCK RD. SPRINGS/ DLS  
 Lab ID : L2122351-02  
 Client ID : SV-02  
 Sample Location : VICTOR, NY  
 Sample Matrix : SOIL\_VAPOR  
 Analytical Method : 48,TO-15-SIM  
 Lab File ID : R1525741\_EV2  
 Sample Amount : 250 ml

Lab Number : L2122351  
 Project Number : 21-006C  
 Date Collected : 04/28/21 13:50  
 Date Received : 04/30/21  
 Date Analyzed : 05/06/21 00:39  
 Dilution Factor : 1  
 Analyst : RY  
 Instrument ID : AIRLAB15  
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.414	0.200	--	2.05	0.989	--	
74-87-3	Chloromethane	ND	0.200	--	ND	0.413	--	U
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.050	--	ND	0.349	--	U
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
106-99-0	1,3-Butadiene	0.037	0.020	--	0.082	0.044	--	
74-83-9	Bromomethane	ND	0.020	--	ND	0.078	--	U
75-00-3	Chloroethane	ND	0.100	--	ND	0.264	--	U
64-17-5	Ethyl Alcohol	ND	5.00	--	ND	9.42	--	U
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	14.7	1.00	--	34.9	2.38	--	
75-69-4	Trichlorofluoromethane	0.233	0.050	--	1.31	0.281	--	
67-63-0	iso-Propyl Alcohol	0.607	0.500	--	1.49	1.23	--	
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
75-65-0	tert-Butyl Alcohol	10.1	0.500	--	30.6	1.52	--	
540-59-0	1,2-Dichloroethene (total)	0.022	0.020	--	0.087	0.079	--	
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	32.4	0.200	--	101	0.623	--	
542-75-6	1,3-Dichloropropene, Total	ND	0.020	--	ND	0.091	--	U
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	0.059	0.050	--	0.452	0.383	--	
156-60-5	trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
75-34-3	1,1-Dichloroethane	ND	0.020	--	ND	0.081	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	24.1	0.500	--	71.1	1.47	--	
156-59-2	cis-1,2-Dichloroethene	0.022	0.020	--	0.087	0.079	--	
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U



# Results Summary

## Form 1

### Volatile Organics in Air by SIM

Client : Marks Engineering, PC  
 Project Name : MODOCK RD. SPRINGS/ DLS  
 Lab ID : L2122351-02  
 Client ID : SV-02  
 Sample Location : VICTOR, NY  
 Sample Matrix : SOIL\_VAPOR  
 Analytical Method : 48,TO-15-SIM  
 Lab File ID : R1525741\_EV2  
 Sample Amount : 250 ml

Lab Number : L2122351  
 Project Number : 21-006C  
 Date Collected : 04/28/21 13:50  
 Date Received : 04/30/21  
 Date Analyzed : 05/06/21 00:39  
 Dilution Factor : 1  
 Analyst : RY  
 Instrument ID : AIRLAB15  
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
67-66-3	Chloroform	ND	0.020	--	ND	0.098	--	U
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U
107-06-2	1,2-Dichloroethane	ND	0.020	--	ND	0.081	--	U
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U
71-55-6	1,1,1-Trichloroethane	0.512	0.020	--	2.79	0.109	--	
71-43-2	Benzene	ND	0.100	--	ND	0.319	--	U
56-23-5	Carbon tetrachloride	0.032	0.020	--	0.201	0.126	--	
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.020	--	ND	0.092	--	U
75-27-4	Bromodichloromethane	ND	0.020	--	ND	0.134	--	U
123-91-1	1,4-Dioxane	ND	0.100	--	ND	0.360	--	U
79-01-6	Trichloroethene	0.059	0.020	--	0.317	0.107	--	
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--	U
108-88-3	Toluene	0.428	0.050	--	1.61	0.188	--	
591-78-6	2-Hexanone	1.48	0.200	--	6.07	0.820	--	
124-48-1	Dibromochloromethane	ND	0.020	--	ND	0.170	--	U
106-93-4	1,2-Dibromoethane	ND	0.020	--	ND	0.154	--	U
127-18-4	Tetrachloroethene	0.041	0.020	--	0.278	0.136	--	
108-90-7	Chlorobenzene	ND	0.100	--	ND	0.461	--	U
100-41-4	Ethylbenzene	0.168	0.020	--	0.730	0.087	--	
179601-23-1	p/m-Xylene	0.798	0.040	--	3.47	0.174	--	



# Results Summary

## Form 1

### Volatile Organics in Air by SIM

**Client** : Marks Engineering, PC  
**Project Name** : MODOCK RD. SPRINGS/ DLS  
**Lab ID** : L2122351-02  
**Client ID** : SV-02  
**Sample Location** : VICTOR, NY  
**Sample Matrix** : SOIL\_VAPOR  
**Analytical Method** : 48,TO-15-SIM  
**Lab File ID** : R1525741\_EV2  
**Sample Amount** : 250 ml

**Lab Number** : L2122351  
**Project Number** : 21-006C  
**Date Collected** : 04/28/21 13:50  
**Date Received** : 04/30/21  
**Date Analyzed** : 05/06/21 00:39  
**Dilution Factor** : 1  
**Analyst** : RY  
**Instrument ID** : AIRLAB15  
**GC Column** : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-25-2	Bromoform	ND	0.020	--	ND	0.207	--	U
1330-20-7	Xylene (Total)	1.27	0.020	--	5.52	0.087	--	
100-42-5	Styrene	0.101	0.020	--	0.430	0.085	--	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--	U
95-47-6	o-Xylene	0.476	0.020	--	2.07	0.087	--	
622-96-8	4-Ethyltoluene	0.103	0.020	--	0.506	0.098	--	
108-67-8	1,3,5-Trimethylbenzene	0.219	0.020	--	1.08	0.098	--	
95-63-6	1,2,4-Trimethylbenzene	0.697	0.020	--	3.43	0.098	--	
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	0.033	0.020	--	0.198	0.120	--	
106-46-7	1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--	U
87-68-3	Hexachlorobutadiene	ND	0.050	--	ND	0.533	--	U



# Results Summary

## Form 1

### Volatile Organics in Air by SIM

Client : Marks Engineering, PC  
 Project Name : MODOCK RD. SPRINGS/ DLS  
 Lab ID : L2122351-03D  
 Client ID : SV-03  
 Sample Location : VICTOR, NY  
 Sample Matrix : SOIL\_VAPOR  
 Analytical Method : 48,TO-15-SIM  
 Lab File ID : R1525742\_EV2  
 Sample Amount : 115 ml

Lab Number : L2122351  
 Project Number : 21-006C  
 Date Collected : 04/28/21 14:15  
 Date Received : 04/30/21  
 Date Analyzed : 05/06/21 01:19  
 Dilution Factor : 2.174  
 Analyst : RY  
 Instrument ID : AIRLAB15  
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.443	0.435	--	2.19	2.15	--	
74-87-3	Chloromethane	ND	0.435	--	ND	0.898	--	U
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.109	--	ND	0.762	--	U
75-01-4	Vinyl chloride	ND	0.044	--	ND	0.111	--	U
106-99-0	1,3-Butadiene	ND	0.044	--	ND	0.096	--	U
74-83-9	Bromomethane	ND	0.044	--	ND	0.169	--	U
75-00-3	Chloroethane	ND	0.217	--	ND	0.573	--	U
64-17-5	Ethyl Alcohol	ND	10.9	--	ND	20.5	--	U
593-60-2	Vinyl bromide	ND	0.435	--	ND	1.90	--	U
67-64-1	Acetone	72.2	2.17	--	172	5.15	--	
75-69-4	Trichlorofluoromethane	0.226	0.109	--	1.27	0.613	--	
67-63-0	iso-Propyl Alcohol	1.33	1.09	--	3.27	2.68	--	
75-35-4	1,1-Dichloroethene	ND	0.044	--	ND	0.172	--	U
75-65-0	tert-Butyl Alcohol	ND	1.09	--	ND	3.30	--	U
75-09-2	Methylene chloride	ND	1.09	--	ND	3.79	--	U
540-59-0	1,2-Dichloroethene (total)	ND	0.044	--	ND	0.172	--	U
107-05-1	3-Chloropropene	ND	0.435	--	ND	1.36	--	U
542-75-6	1,3-Dichloropropene, Total	ND	0.044	--	ND	0.197	--	U
75-15-0	Carbon disulfide	0.898	0.435	--	2.80	1.35	--	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.109	--	ND	0.835	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.044	--	ND	0.172	--	U
75-34-3	1,1-Dichloroethane	ND	0.044	--	ND	0.176	--	U
1634-04-4	Methyl tert butyl ether	ND	0.435	--	ND	1.57	--	U
78-93-3	2-Butanone	13.9	1.09	--	41.0	3.21	--	
156-59-2	cis-1,2-Dichloroethene	ND	0.044	--	ND	0.172	--	U
141-78-6	Ethyl Acetate	ND	1.09	--	ND	3.93	--	U



# Results Summary

## Form 1

### Volatile Organics in Air by SIM

Client : Marks Engineering, PC  
 Project Name : MODOCK RD. SPRINGS/ DLS  
 Lab ID : L2122351-03D  
 Client ID : SV-03  
 Sample Location : VICTOR, NY  
 Sample Matrix : SOIL\_VAPOR  
 Analytical Method : 48,TO-15-SIM  
 Lab File ID : R1525742\_EV2  
 Sample Amount : 115 ml

Lab Number : L2122351  
 Project Number : 21-006C  
 Date Collected : 04/28/21 14:15  
 Date Received : 04/30/21  
 Date Analyzed : 05/06/21 01:19  
 Dilution Factor : 2.174  
 Analyst : RY  
 Instrument ID : AIRLAB15  
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
67-66-3	Chloroform	ND	0.044	--	ND	0.212	--	U
109-99-9	Tetrahydrofuran	ND	1.09	--	ND	3.21	--	U
107-06-2	1,2-Dichloroethane	ND	0.044	--	ND	0.176	--	U
110-54-3	n-Hexane	ND	0.435	--	ND	1.53	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.044	--	ND	0.237	--	U
71-43-2	Benzene	0.493	0.217	--	1.57	0.693	--	
56-23-5	Carbon tetrachloride	ND	0.044	--	ND	0.274	--	U
110-82-7	Cyclohexane	ND	0.435	--	ND	1.50	--	U
78-87-5	1,2-Dichloropropane	ND	0.044	--	ND	0.201	--	U
75-27-4	Bromodichloromethane	ND	0.044	--	ND	0.291	--	U
123-91-1	1,4-Dioxane	ND	0.217	--	ND	0.782	--	U
79-01-6	Trichloroethene	0.122	0.044	--	0.656	0.234	--	
540-84-1	2,2,4-Trimethylpentane	ND	0.435	--	ND	2.03	--	U
142-82-5	Heptane	ND	0.435	--	ND	1.78	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.044	--	ND	0.197	--	U
108-10-1	4-Methyl-2-pentanone	ND	1.09	--	ND	4.47	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.044	--	ND	0.197	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.044	--	ND	0.237	--	U
108-88-3	Toluene	0.113	0.109	--	0.426	0.411	--	
591-78-6	2-Hexanone	2.33	0.435	--	9.55	1.78	--	
124-48-1	Dibromochloromethane	ND	0.044	--	ND	0.371	--	U
106-93-4	1,2-Dibromoethane	ND	0.044	--	ND	0.334	--	U
127-18-4	Tetrachloroethene	0.063	0.044	--	0.427	0.295	--	
108-90-7	Chlorobenzene	ND	0.217	--	ND	0.999	--	U
100-41-4	Ethylbenzene	ND	0.044	--	ND	0.189	--	U
179601-23-1	p/m-Xylene	0.113	0.087	--	0.491	0.378	--	



# Results Summary

## Form 1

### Volatile Organics in Air by SIM

**Client** : Marks Engineering, PC  
**Project Name** : MODOCK RD. SPRINGS/ DLS  
**Lab ID** : L2122351-03D  
**Client ID** : SV-03  
**Sample Location** : VICTOR, NY  
**Sample Matrix** : SOIL\_VAPOR  
**Analytical Method** : 48,TO-15-SIM  
**Lab File ID** : R1525742\_EV2  
**Sample Amount** : 115 ml

**Lab Number** : L2122351  
**Project Number** : 21-006C  
**Date Collected** : 04/28/21 14:15  
**Date Received** : 04/30/21  
**Date Analyzed** : 05/06/21 01:19  
**Dilution Factor** : 2.174  
**Analyst** : RY  
**Instrument ID** : AIRLAB15  
**GC Column** : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-25-2	Bromoform	ND	0.044	--	ND	0.450	--	U
1330-20-7	Xylene (Total)	0.174	0.044	--	0.756	0.189	--	
100-42-5	Styrene	ND	0.044	--	ND	0.185	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.044	--	ND	0.299	--	U
95-47-6	o-Xylene	0.061	0.044	--	0.265	0.189	--	
622-96-8	4-Ethyltoluene	ND	0.044	--	ND	0.214	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.044	--	ND	0.214	--	U
95-63-6	1,2,4-Trimethylbenzene	0.050	0.044	--	0.246	0.214	--	
100-44-7	Benzyl chloride	ND	0.435	--	ND	2.25	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.044	--	ND	0.262	--	U
106-46-7	1,4-Dichlorobenzene	ND	0.044	--	ND	0.262	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.044	--	ND	0.262	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.109	--	ND	0.809	--	U
87-68-3	Hexachlorobutadiene	ND	0.109	--	ND	1.16	--	U



# Results Summary

## Form 1

### Volatile Organics in Air by SIM

Client : Marks Engineering, PC  
 Project Name : MODOCK RD. SPRINGS/ DLS  
 Lab ID : L2122351-04  
 Client ID : SV-04  
 Sample Location : VICTOR, NY  
 Sample Matrix : SOIL\_VAPOR  
 Analytical Method : 48,TO-15-SIM  
 Lab File ID : R1525743\_EV2  
 Sample Amount : 250 ml

Lab Number : L2122351  
 Project Number : 21-006C  
 Date Collected : 04/28/21 12:25  
 Date Received : 04/30/21  
 Date Analyzed : 05/06/21 01:58  
 Dilution Factor : 1  
 Analyst : RY  
 Instrument ID : AIRLAB15  
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	1.24	0.200	--	6.13	0.989	--	
74-87-3	Chloromethane	ND	0.200	--	ND	0.413	--	U
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.050	--	ND	0.349	--	U
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
106-99-0	1,3-Butadiene	0.036	0.020	--	0.080	0.044	--	
74-83-9	Bromomethane	ND	0.020	--	ND	0.078	--	U
75-00-3	Chloroethane	ND	0.100	--	ND	0.264	--	U
64-17-5	Ethyl Alcohol	ND	5.00	--	ND	9.42	--	U
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	12.1	1.00	--	28.7	2.38	--	
75-69-4	Trichlorofluoromethane	0.211	0.050	--	1.19	0.281	--	
67-63-0	iso-Propyl Alcohol	1.00	0.500	--	2.46	1.23	--	
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
75-65-0	tert-Butyl Alcohol	1.79	0.500	--	5.43	1.52	--	
540-59-0	1,2-Dichloroethene (total)	ND	0.020	--	ND	0.079	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
542-75-6	1,3-Dichloropropene, Total	ND	0.020	--	ND	0.091	--	U
75-15-0	Carbon disulfide	0.693	0.200	--	2.16	0.623	--	
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	0.062	0.050	--	0.475	0.383	--	
156-60-5	trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
75-34-3	1,1-Dichloroethane	ND	0.020	--	ND	0.081	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	39.1	0.500	--	115	1.47	--	
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U



# Results Summary

## Form 1

### Volatile Organics in Air by SIM

Client : Marks Engineering, PC  
 Project Name : MODOCK RD. SPRINGS/ DLS  
 Lab ID : L2122351-04  
 Client ID : SV-04  
 Sample Location : VICTOR, NY  
 Sample Matrix : SOIL\_VAPOR  
 Analytical Method : 48,TO-15-SIM  
 Lab File ID : R1525743\_EV2  
 Sample Amount : 250 ml

Lab Number : L2122351  
 Project Number : 21-006C  
 Date Collected : 04/28/21 12:25  
 Date Received : 04/30/21  
 Date Analyzed : 05/06/21 01:58  
 Dilution Factor : 1  
 Analyst : RY  
 Instrument ID : AIRLAB15  
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
67-66-3	Chloroform	ND	0.020	--	ND	0.098	--	U
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U
107-06-2	1,2-Dichloroethane	ND	0.020	--	ND	0.081	--	U
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U
71-55-6	1,1,1-Trichloroethane	1.15	0.020	--	6.27	0.109	--	
71-43-2	Benzene	ND	0.100	--	ND	0.319	--	U
56-23-5	Carbon tetrachloride	ND	0.020	--	ND	0.126	--	U
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.020	--	ND	0.092	--	U
75-27-4	Bromodichloromethane	ND	0.020	--	ND	0.134	--	U
123-91-1	1,4-Dioxane	ND	0.100	--	ND	0.360	--	U
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--	U
108-88-3	Toluene	0.101	0.050	--	0.381	0.188	--	
591-78-6	2-Hexanone	1.44	0.200	--	5.90	0.820	--	
124-48-1	Dibromochloromethane	ND	0.020	--	ND	0.170	--	U
106-93-4	1,2-Dibromoethane	ND	0.020	--	ND	0.154	--	U
127-18-4	Tetrachloroethene	ND	0.020	--	ND	0.136	--	U
108-90-7	Chlorobenzene	ND	0.100	--	ND	0.461	--	U
100-41-4	Ethylbenzene	0.043	0.020	--	0.187	0.087	--	
179601-23-1	p/m-Xylene	0.343	0.040	--	1.49	0.174	--	





# Results Summary

## Form 1

### Volatile Organics in Air by SIM

Client : Marks Engineering, PC  
 Project Name : MODOCK RD. SPRINGS/ DLS  
 Lab ID : L2122351-04  
 Client ID : SV-04  
 Sample Location : VICTOR, NY  
 Sample Matrix : SOIL\_VAPOR  
 Analytical Method : 48,TO-15-SIM  
 Lab File ID : R1525743\_EV2  
 Sample Amount : 250 ml

Lab Number : L2122351  
 Project Number : 21-006C  
 Date Collected : 04/28/21 12:25  
 Date Received : 04/30/21  
 Date Analyzed : 05/06/21 01:58  
 Dilution Factor : 1  
 Analyst : RY  
 Instrument ID : AIRLAB15  
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-25-2	Bromoform	ND	0.020	--	ND	0.207	--	U
1330-20-7	Xylene (Total)	0.596	0.020	--	2.59	0.087	--	
100-42-5	Styrene	0.028	0.020	--	0.119	0.085	--	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--	U
95-47-6	o-Xylene	0.253	0.020	--	1.10	0.087	--	
622-96-8	4-Ethyltoluene	0.167	0.020	--	0.821	0.098	--	
108-67-8	1,3,5-Trimethylbenzene	0.426	0.020	--	2.09	0.098	--	
95-63-6	1,2,4-Trimethylbenzene	0.595	0.020	--	2.93	0.098	--	
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--	U
106-46-7	1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--	U
87-68-3	Hexachlorobutadiene	ND	0.050	--	ND	0.533	--	U



# Results Summary

## Form 1

### Volatile Organics in Air by SIM

Client : Marks Engineering, PC  
 Project Name : MODOCK RD. SPRINGS/ DLS  
 Lab ID : L2122351-05D  
 Client ID : SV-08  
 Sample Location : VICTOR, NY  
 Sample Matrix : SOIL\_VAPOR  
 Analytical Method : 48,TO-15-SIM  
 Lab File ID : R1525745\_EV2  
 Sample Amount : 83.3 ml

Lab Number : L2122351  
 Project Number : 21-006C  
 Date Collected : 04/28/21 14:25  
 Date Received : 04/30/21  
 Date Analyzed : 05/06/21 03:16  
 Dilution Factor : 3  
 Analyst : RY  
 Instrument ID : AIRLAB15  
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	ND	0.600	--	ND	2.97	--	U
74-87-3	Chloromethane	ND	0.600	--	ND	1.24	--	U
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.150	--	ND	1.05	--	U
75-01-4	Vinyl chloride	ND	0.060	--	ND	0.153	--	U
106-99-0	1,3-Butadiene	0.063	0.060	--	0.139	0.133	--	
74-83-9	Bromomethane	ND	0.060	--	ND	0.233	--	U
75-00-3	Chloroethane	ND	0.300	--	ND	0.792	--	U
64-17-5	Ethyl Alcohol	ND	15.0	--	ND	28.3	--	U
593-60-2	Vinyl bromide	ND	0.600	--	ND	2.62	--	U
67-64-1	Acetone	22.8	3.00	--	54.2	7.13	--	
75-69-4	Trichlorofluoromethane	0.390	0.150	--	2.19	0.843	--	
67-63-0	iso-Propyl Alcohol	ND	1.50	--	ND	3.69	--	U
75-35-4	1,1-Dichloroethene	ND	0.060	--	ND	0.238	--	U
75-65-0	tert-Butyl Alcohol	26.7	1.50	--	80.9	4.55	--	
75-09-2	Methylene chloride	ND	1.50	--	ND	5.21	--	U
540-59-0	1,2-Dichloroethene (total)	ND	0.060	--	ND	0.238	--	U
107-05-1	3-Chloropropene	ND	0.600	--	ND	1.88	--	U
542-75-6	1,3-Dichloropropene, Total	ND	0.060	--	ND	0.272	--	U
75-15-0	Carbon disulfide	ND	0.600	--	ND	1.87	--	U
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.150	--	ND	1.15	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.060	--	ND	0.238	--	U
75-34-3	1,1-Dichloroethane	ND	0.060	--	ND	0.243	--	U
1634-04-4	Methyl tert butyl ether	ND	0.600	--	ND	2.16	--	U
78-93-3	2-Butanone	36.5	1.50	--	108	4.42	--	
156-59-2	cis-1,2-Dichloroethene	ND	0.060	--	ND	0.238	--	U
141-78-6	Ethyl Acetate	ND	1.50	--	ND	5.41	--	U



# Results Summary

## Form 1

### Volatile Organics in Air by SIM

Client : Marks Engineering, PC  
 Project Name : MODOCK RD. SPRINGS/ DLS  
 Lab ID : L2122351-05D  
 Client ID : SV-08  
 Sample Location : VICTOR, NY  
 Sample Matrix : SOIL\_VAPOR  
 Analytical Method : 48,TO-15-SIM  
 Lab File ID : R1525745\_EV2  
 Sample Amount : 83.3 ml

Lab Number : L2122351  
 Project Number : 21-006C  
 Date Collected : 04/28/21 14:25  
 Date Received : 04/30/21  
 Date Analyzed : 05/06/21 03:16  
 Dilution Factor : 3  
 Analyst : RY  
 Instrument ID : AIRLAB15  
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
67-66-3	Chloroform	0.324	0.060	--	1.58	0.293	--	
109-99-9	Tetrahydrofuran	ND	1.50	--	ND	4.42	--	U
107-06-2	1,2-Dichloroethane	ND	0.060	--	ND	0.243	--	U
110-54-3	n-Hexane	ND	0.600	--	ND	2.11	--	U
71-55-6	1,1,1-Trichloroethane	7.12	0.060	--	38.8	0.327	--	
71-43-2	Benzene	ND	0.300	--	ND	0.958	--	U
56-23-5	Carbon tetrachloride	ND	0.060	--	ND	0.377	--	U
110-82-7	Cyclohexane	ND	0.600	--	ND	2.07	--	U
78-87-5	1,2-Dichloropropane	ND	0.060	--	ND	0.277	--	U
75-27-4	Bromodichloromethane	ND	0.060	--	ND	0.402	--	U
123-91-1	1,4-Dioxane	ND	0.300	--	ND	1.08	--	U
79-01-6	Trichloroethene	0.075	0.060	--	0.403	0.322	--	
540-84-1	2,2,4-Trimethylpentane	0.720	0.600	--	3.36	2.80	--	
142-82-5	Heptane	0.924	0.600	--	3.79	2.46	--	
10061-01-5	cis-1,3-Dichloropropene	ND	0.060	--	ND	0.272	--	U
108-10-1	4-Methyl-2-pentanone	ND	1.50	--	ND	6.15	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.060	--	ND	0.272	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.060	--	ND	0.327	--	U
108-88-3	Toluene	ND	0.150	--	ND	0.565	--	U
591-78-6	2-Hexanone	ND	0.600	--	ND	2.46	--	U
124-48-1	Dibromochloromethane	ND	0.060	--	ND	0.511	--	U
106-93-4	1,2-Dibromoethane	ND	0.060	--	ND	0.461	--	U
127-18-4	Tetrachloroethene	ND	0.060	--	ND	0.407	--	U
108-90-7	Chlorobenzene	ND	0.300	--	ND	1.38	--	U
100-41-4	Ethylbenzene	ND	0.060	--	ND	0.261	--	U
179601-23-1	p/m-Xylene	0.186	0.120	--	0.808	0.521	--	



# Results Summary

## Form 1

### Volatile Organics in Air by SIM

**Client** : Marks Engineering, PC  
**Project Name** : MODOCK RD. SPRINGS/ DLS  
**Lab ID** : L2122351-05D  
**Client ID** : SV-08  
**Sample Location** : VICTOR, NY  
**Sample Matrix** : SOIL\_VAPOR  
**Analytical Method** : 48,TO-15-SIM  
**Lab File ID** : R1525745\_EV2  
**Sample Amount** : 83.3 ml

**Lab Number** : L2122351  
**Project Number** : 21-006C  
**Date Collected** : 04/28/21 14:25  
**Date Received** : 04/30/21  
**Date Analyzed** : 05/06/21 03:16  
**Dilution Factor** : 3  
**Analyst** : RY  
**Instrument ID** : AIRLAB15  
**GC Column** : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-25-2	Bromoform	ND	0.060	--	ND	0.620	--	U
1330-20-7	Xylene (Total)	0.279	0.060	--	1.21	0.261	--	
100-42-5	Styrene	ND	0.060	--	ND	0.255	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.060	--	ND	0.412	--	U
95-47-6	o-Xylene	0.093	0.060	--	0.404	0.261	--	
622-96-8	4-Ethyltoluene	ND	0.060	--	ND	0.295	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.060	--	ND	0.295	--	U
95-63-6	1,2,4-Trimethylbenzene	0.063	0.060	--	0.310	0.295	--	
100-44-7	Benzyl chloride	ND	0.600	--	ND	3.11	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.060	--	ND	0.361	--	U
106-46-7	1,4-Dichlorobenzene	ND	0.060	--	ND	0.361	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.060	--	ND	0.361	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.150	--	ND	1.11	--	U
87-68-3	Hexachlorobutadiene	ND	0.150	--	ND	1.60	--	U



# Results Summary

## Form 1

### Volatile Organics in Air by SIM

Client : Marks Engineering, PC  
 Project Name : MODOCK RD. SPRINGS/ DLS  
 Lab ID : L2122351-06  
 Client ID : SV-11  
 Sample Location : VICTOR, NY  
 Sample Matrix : SOIL\_VAPOR  
 Analytical Method : 48,TO-15-SIM  
 Lab File ID : R1525746\_EV2  
 Sample Amount : 250 ml

Lab Number : L2122351  
 Project Number : 21-006C  
 Date Collected : 04/28/21 13:25  
 Date Received : 04/30/21  
 Date Analyzed : 05/06/21 03:55  
 Dilution Factor : 1  
 Analyst : RY  
 Instrument ID : AIRLAB15  
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.429	0.200	--	2.12	0.989	--	
74-87-3	Chloromethane	0.253	0.200	--	0.522	0.413	--	
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.050	--	ND	0.349	--	U
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
106-99-0	1,3-Butadiene	0.022	0.020	--	0.049	0.044	--	
74-83-9	Bromomethane	ND	0.020	--	ND	0.078	--	U
75-00-3	Chloroethane	ND	0.100	--	ND	0.264	--	U
64-17-5	Ethyl Alcohol	5.28	5.00	--	9.95	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	53.0	1.00	--	126	2.38	--	
75-69-4	Trichlorofluoromethane	0.218	0.050	--	1.23	0.281	--	
67-63-0	iso-Propyl Alcohol	0.904	0.500	--	2.22	1.23	--	
75-35-4	1,1-Dichloroethene	0.311	0.020	--	1.23	0.079	--	J
75-65-0	tert-Butyl Alcohol	0.824	0.500	--	2.50	1.52	--	
540-59-0	1,2-Dichloroethene (total)	ND	0.020	--	ND	0.079	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
542-75-6	1,3-Dichloropropene, Total	ND	0.020	--	ND	0.091	--	U
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	0.616	0.050	--	4.72	0.383	--	J
156-60-5	trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
75-34-3	1,1-Dichloroethane	ND	0.020	--	ND	0.081	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	9.10	0.500	--	26.8	1.47	--	J
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U

MKP 5/10/2021



# Results Summary

## Form 1

### Volatile Organics in Air by SIM

Client : Marks Engineering, PC  
 Project Name : MODOCK RD. SPRINGS/ DLS  
 Lab ID : L2122351-06  
 Client ID : SV-11  
 Sample Location : VICTOR, NY  
 Sample Matrix : SOIL\_VAPOR  
 Analytical Method : 48,TO-15-SIM  
 Lab File ID : R1525746\_EV2  
 Sample Amount : 250 ml

Lab Number : L2122351  
 Project Number : 21-006C  
 Date Collected : 04/28/21 13:25  
 Date Received : 04/30/21  
 Date Analyzed : 05/06/21 03:55  
 Dilution Factor : 1  
 Analyst : RY  
 Instrument ID : AIRLAB15  
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
67-66-3	Chloroform	0.022	0.020	--	0.107	0.098	--	
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U
107-06-2	1,2-Dichloroethane	ND	0.020	--	ND	0.081	--	U
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U
71-55-6	1,1,1-Trichloroethane	64.5	0.020	--	352	0.109	--	E
71-43-2	Benzene	0.212	0.100	--	0.677	0.319	--	
56-23-5	Carbon tetrachloride	0.057	0.020	--	0.359	0.126	--	
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.020	--	ND	0.092	--	U
75-27-4	Bromodichloromethane	ND	0.020	--	ND	0.134	--	U
123-91-1	1,4-Dioxane	ND	0.100	--	ND	0.360	--	U
79-01-6	Trichloroethene	0.025	0.020	--	0.134	0.107	--	
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	0.564	0.200	--	2.31	0.820	--	
10061-01-5	cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--	U
108-88-3	Toluene	0.526	0.050	--	1.98	0.188	--	
591-78-6	2-Hexanone	1.12	0.200	--	4.59	0.820	--	
124-48-1	Dibromochloromethane	ND	0.020	--	ND	0.170	--	U
106-93-4	1,2-Dibromoethane	ND	0.020	--	ND	0.154	--	U
127-18-4	Tetrachloroethene	ND	0.020	--	ND	0.136	--	U
108-90-7	Chlorobenzene	ND	0.100	--	ND	0.461	--	U
100-41-4	Ethylbenzene	0.124	0.020	--	0.539	0.087	--	
179601-23-1	p/m-Xylene	0.584	0.040	--	2.54	0.174	--	



# Results Summary

## Form 1

### Volatile Organics in Air by SIM

Client : Marks Engineering, PC  
 Project Name : MODOCK RD. SPRINGS/ DLS  
 Lab ID : L2122351-06  
 Client ID : SV-11  
 Sample Location : VICTOR, NY  
 Sample Matrix : SOIL\_VAPOR  
 Analytical Method : 48,TO-15-SIM  
 Lab File ID : R1525746\_EV2  
 Sample Amount : 250 ml

Lab Number : L2122351  
 Project Number : 21-006C  
 Date Collected : 04/28/21 13:25  
 Date Received : 04/30/21  
 Date Analyzed : 05/06/21 03:55  
 Dilution Factor : 1  
 Analyst : RY  
 Instrument ID : AIRLAB15  
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-25-2	Bromoform	ND	0.020	--	ND	0.207	--	U
1330-20-7	Xylene (Total)	0.786	0.020	--	3.41	0.087	--	
100-42-5	Styrene	0.117	0.020	--	0.498	0.085	--	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--	U
95-47-6	o-Xylene	0.202	0.020	--	0.877	0.087	--	
622-96-8	4-Ethyltoluene	0.081	0.020	--	0.398	0.098	--	
108-67-8	1,3,5-Trimethylbenzene	0.075	0.020	--	0.369	0.098	--	
95-63-6	1,2,4-Trimethylbenzene	0.346	0.020	--	1.70	0.098	--	J
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--	U
106-46-7	1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--	U
87-68-3	Hexachlorobutadiene	ND	0.050	--	ND	0.533	--	U

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**Results Summary**  
**Form 1**  
**Volatile Organics in Air by SIM**

Client : Marks Engineering, PC  
 Project Name : MODOCK RD. SPRINGS/ DLS  
 Lab ID : L2122351-06D  
 Client ID : SV-11  
 Sample Location : VICTOR, NY  
 Sample Matrix : SOIL\_VAPOR  
 Analytical Method : 48,TO-15-SIM  
 Lab File ID : R1525748\_EV2  
 Sample Amount : 75.0 ml

Lab Number : L2122351  
 Project Number : 21-006C  
 Date Collected : 04/28/21 13:25  
 Date Received : 04/30/21  
 Date Analyzed : 05/06/21 08:41  
 Dilution Factor : 3.333  
 Analyst : RY  
 Instrument ID : AIRLAB15  
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
71-55-6	1,1,1-Trichloroethane	65.4	0.067	--	357	0.364	--	





# Results Summary Form 1 Volatile Organics in Air by SIM

Client : Marks Engineering, PC  
 Project Name : MODOCK RD. SPRINGS/ DLS  
 Lab ID : L2122351-07  
 Client ID : DUP 042821  
 Sample Location : VICTOR, NY  
 Sample Matrix : SOIL\_VAPOR  
 Analytical Method : 48,TO-15-SIM  
 Lab File ID : R1525747\_EV2  
 Sample Amount : 250 ml

Lab Number : L2122351  
 Project Number : 21-006C  
 Date Collected : 04/28/21 13:45  
 Date Received : 04/30/21  
 Date Analyzed : 05/06/21 04:34  
 Dilution Factor : 1  
 Analyst : RY  
 Instrument ID : AIRLAB15  
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.390	0.200	--	1.93	0.989	--	
74-87-3	Chloromethane	ND	0.200	--	ND	0.413	--	U
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.050	--	ND	0.349	--	U
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
106-99-0	1,3-Butadiene	0.036	0.020	--	0.080	0.044	--	
74-83-9	Bromomethane	ND	0.020	--	ND	0.078	--	U
75-00-3	Chloroethane	ND	0.100	--	ND	0.264	--	U
64-17-5	Ethyl Alcohol	6.27	5.00	--	11.8	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	77.6	1.00	--	184	2.38	--	
75-69-4	Trichlorofluoromethane	0.215	0.050	--	1.21	0.281	--	
67-63-0	iso-Propyl Alcohol	ND	0.500	--	ND	1.23	--	U
75-35-4	1,1-Dichloroethene	0.460	0.020	--	1.82	0.079	--	J
75-65-0	tert-Butyl Alcohol	1.07	0.500	--	3.24	1.52	--	
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
540-59-0	1,2-Dichloroethene (total)	ND	0.020	--	ND	0.079	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
542-75-6	1,3-Dichloropropene, Total	ND	0.020	--	ND	0.091	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	1,1,2-Trichloro-1,2,2-Trifluoroethane	0.865	0.050	--	6.63	0.383	--	J
156-60-5	trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
75-34-3	1,1-Dichloroethane	ND	0.020	--	ND	0.081	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	13.2	0.500	--	38.9	1.47	--	J
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U

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# Results Summary

## Form 1

### Volatile Organics in Air by SIM

Client : Marks Engineering, PC  
 Project Name : MODOCK RD. SPRINGS/ DLS  
 Lab ID : L2122351-07  
 Client ID : DUP 042821  
 Sample Location : VICTOR, NY  
 Sample Matrix : SOIL\_VAPOR  
 Analytical Method : 48,TO-15-SIM  
 Lab File ID : R1525747\_EV2  
 Sample Amount : 250 ml

Lab Number : L2122351  
 Project Number : 21-006C  
 Date Collected : 04/28/21 13:45  
 Date Received : 04/30/21  
 Date Analyzed : 05/06/21 04:34  
 Dilution Factor : 1  
 Analyst : RY  
 Instrument ID : AIRLAB15  
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
67-66-3	Chloroform	0.028	0.020	--	0.137	0.098	--	
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U
107-06-2	1,2-Dichloroethane	ND	0.020	--	ND	0.081	--	U
110-54-3	n-Hexane	0.231	0.200	--	0.814	0.705	--	
71-55-6	1,1,1-Trichloroethane	96.9	0.020	--	529	0.109	--	E
71-43-2	Benzene	0.262	0.100	--	0.837	0.319	--	
56-23-5	Carbon tetrachloride	0.045	0.020	--	0.283	0.126	--	
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.020	--	ND	0.092	--	U
75-27-4	Bromodichloromethane	ND	0.020	--	ND	0.134	--	U
123-91-1	1,4-Dioxane	ND	0.100	--	ND	0.360	--	U
79-01-6	Trichloroethene	0.038	0.020	--	0.204	0.107	--	
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	0.773	0.200	--	3.17	0.820	--	
10061-01-5	cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--	U
108-88-3	Toluene	0.585	0.050	--	2.20	0.188	--	
591-78-6	2-Hexanone	1.83	0.200	--	7.50	0.820	--	
124-48-1	Dibromochloromethane	ND	0.020	--	ND	0.170	--	U
106-93-4	1,2-Dibromoethane	ND	0.020	--	ND	0.154	--	U
127-18-4	Tetrachloroethene	ND	0.020	--	ND	0.136	--	U
108-90-7	Chlorobenzene	ND	0.100	--	ND	0.461	--	U
100-41-4	Ethylbenzene	0.153	0.020	--	0.665	0.087	--	
179601-23-1	p/m-Xylene	0.740	0.040	--	3.21	0.174	--	



# Results Summary

## Form 1

### Volatile Organics in Air by SIM

Client : Marks Engineering, PC  
 Project Name : MODOCK RD. SPRINGS/ DLS  
 Lab ID : L2122351-07  
 Client ID : DUP 042821  
 Sample Location : VICTOR, NY  
 Sample Matrix : SOIL\_VAPOR  
 Analytical Method : 48,TO-15-SIM  
 Lab File ID : R1525747\_EV2  
 Sample Amount : 250 ml

Lab Number : L2122351  
 Project Number : 21-006C  
 Date Collected : 04/28/21 13:45  
 Date Received : 04/30/21  
 Date Analyzed : 05/06/21 04:34  
 Dilution Factor : 1  
 Analyst : RY  
 Instrument ID : AIRLAB15  
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-25-2	Bromoform	ND	0.020	--	ND	0.207	--	U
1330-20-7	Xylene (Total)	0.988	0.020	--	4.29	0.087	--	
100-42-5	Styrene	0.094	0.020	--	0.400	0.085	--	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--	U
95-47-6	o-Xylene	0.248	0.020	--	1.08	0.087	--	
622-96-8	4-Ethyltoluene	0.116	0.020	--	0.570	0.098	--	
108-67-8	1,3,5-Trimethylbenzene	0.095	0.020	--	0.467	0.098	--	
95-63-6	1,2,4-Trimethylbenzene	0.489	0.020	--	2.40	0.098	--	J
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--	U
106-46-7	1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--	U
87-68-3	Hexachlorobutadiene	ND	0.050	--	ND	0.533	--	U

MKP 5/10/2021



**Results Summary**  
**Form 1**  
**Volatile Organics in Air by SIM**

Client : Marks Engineering, PC  
 Project Name : MODOCK RD. SPRINGS/ DLS  
 Lab ID : L2122351-07D  
 Client ID : DUP 042821  
 Sample Location : VICTOR, NY  
 Sample Matrix : SOIL\_VAPOR  
 Analytical Method : 48,TO-15-SIM  
 Lab File ID : R1525749\_EV2  
 Sample Amount : 50.0 ml

Lab Number : L2122351  
 Project Number : 21-006C  
 Date Collected : 04/28/21 13:45  
 Date Received : 04/30/21  
 Date Analyzed : 05/06/21 09:17  
 Dilution Factor : 5  
 Analyst : RY  
 Instrument ID : AIRLAB15  
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
71-55-6	1,1,1-Trichloroethane	85.0	0.100	--	464	0.546	--	



*Appendix B*

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*Laboratory  
QC  
Documentation*

# Initial Calibration Summary

## Form 6

### Air Volatiles

**Client** : Marks Engineering, PC  
**Project Name** : MODOCK RD. SPRINGS/ DLS  
**Instrument ID** : AIRLAB15  
**Calibration dates** : 04/27/21 17:40 04/27/21 23:36

**Lab Number** : L2122351  
**Project Number** : 21-006C  
**Ical Ref** : ICAL17884

Calibration Files

0.02=r1525574\_Ev2.D 0.05=r1525575\_Ev2.D 0.1 =r1525576\_Ev2.D 0.2 =r1525577\_Ev2.D 0.5 =r1525578\_Ev2.D  
 1.0 =r1525579\_Ev2.D 5.0 =r1525580\_Ev2.D 10.0=r1525581\_Ev2.D 20.0=r1525582\_Ev2.D 50.0=r1525583\_Ev2.D

Compound	0.02	0.05	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
73) 1,2,4-trimethylbenzene	4.404	4.398	4.081	5.222	5.043	4.929	5.001	4.699	5.248	4.891	4.7915	8.08
74) C Benzyl Chloride			1.102	1.531	1.476	1.581	2.259	2.606	3.283	3.563	2.1752	41.68#
75) 1,3-dichlorobenzene	2.236	2.309	2.240	2.695	2.662	2.709	2.862	2.955	3.348	3.321	2.7337	14.77
76) C 1,4-dichlorobenzene	2.411	2.272	2.057	2.725	2.753	2.651	2.870	2.918	3.176	3.189	2.7022	13.67
77) sec-butylbenzene				7.652	7.279	7.027	6.921	6.654	7.250	6.843	7.0894	4.68
78) p-isopropyltoluene				5.715	5.669	5.515	5.456	5.232	6.105	5.835	5.6467	4.99
79) 1,2-dichlorobenzene	2.343	2.135	1.979	2.473	2.378	2.363	2.507	2.452	2.842	2.812	2.4285	10.89
80) n-butylbenzene				4.510	4.546	4.420	4.441	4.132	4.956	4.929	4.5620	6.41
81) 1,2-dibromo-3-chloropr...				0.879	0.913	0.897	1.055	1.051	1.305	1.312	1.0590	17.45
82) C 1,2,4-trichlorobenzene	0.883	0.767	1.009	0.904	0.889	1.055	1.137	1.501	1.678	1.0915		28.00
83) naphthalene	2.110	1.999	2.322	2.513	2.549	2.813	2.962	3.828	4.279	2.8193		27.35
84) 1,2,3-trichlorobenzene	0.779	0.843	0.945	0.881	0.863	0.977	1.036	1.280	1.460	1.0072		22.22
85) C hexachlorobutadiene	1.412	1.420	1.542	1.503	1.492	1.568	1.622	1.774	1.826	1.5733		9.22



## *Appendix C*

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### *Validator Qualifications*

**KENNETH R. APPLIN**  
**Geochemist/Data Validator**

Ph.D., Geochemistry and Mineralogy, The Pennsylvania State University

M.S., Geochemistry and Mineralogy, The Pennsylvania State University

B.A., Geological Sciences, SUNY at Geneseo, NY

Dr. Applin has over 35 years of experience working with the geochemistry of natural waters. His prior experience includes working as an Assistant Professor of Geology at the University of Missouri-Columbia and as Chief Hydrogeologist and Geochemist with a leading engineering firm in Rochester, NY. In 1993, he established KR Applin and Associates, a small consulting business that focuses on the geochemistry of natural waters, especially as applied to problems involving the contamination of groundwater and surface water.

Dr. Applin is also an experienced analytical data validator and has provided data validation services since 1994 to a variety of clients performing brownfield cleanup projects, hazardous waste remediation, groundwater monitoring at solid waste facilities, and other projects requiring third-party data validation. Dr. Applin has several years of hands-on experience with the laboratory analysis of natural waters and has successfully completed the USEPA Region II certification courses for performing inorganic and organic analytical data validation.



**MICHAEL K. PERRY**  
**Chemist/Data Validator**

B.S. Chemistry, Georgia State University, Atlanta, GA

A.A.S., Chemical Technology, Alfred State College, Alfred, NY

Mr. Perry has over 30 years of experience in the analytical laboratory business. During his early career, he spent several years as a laboratory analyst performing the analysis of soil, water, and air samples for inorganic and organic chemical parameters. During his last 20 years in the environmental laboratory business, he managed and directed two major analytical laboratories in Rochester, NY. His management responsibilities included oversight of the daily operations of the lab, staff training and supervision, the selection, purchase, and maintenance of analytical instruments, the introduction of new laboratory methods, analytical quality assurance and quality control, data acquisition and management, and other business-related activities.

Mr. Perry has an extensive working knowledge of the methods and procedures used for sampling and analyzing both inorganic and organic analytes in soil, water, and air. He is an accomplished laboratory chemist and is familiar with the analytical methods and procedures established under the USEPA Contract Laboratory Protocols (CLP), the NYSDEC Analytical Services Protocols (ASP), and the NYSDOH Environmental Laboratory Approval Program (ELAP).



**Exhibit D**  
**Electronic Data Deliverables**  
**(EDDs)**  
**(Provided Electronically)**

## **JWolf@marksengineering.com**

---

**From:** Noll, Rebecca <rnoll@LaBellaPC.com>  
**Sent:** Friday, June 25, 2021 9:47 AM  
**To:** dec.sm.NYENVDATA (NYENVDATA@dec.ny.gov); Gregory, Charles T (DEC)  
**Cc:** jwolf@marksengineering.com  
**Subject:** EDD set for Modock Springs-DLS Sand and Gravel, Inc., Site 835013  
**Attachments:** 20210625 0944.835013.NYSDEC\_MERGE.zip

Attached please find a new EDD set for Modock Springs-DLS Sand and Gravel, Inc., Site 835013.

### **Rebecca Noll**

LaBella Associates | GIS & Environmental Specialist



300 State Street, Suite 201  
Rochester, NY 14614  
[labelapc.com](http://labelapc.com)



# **Attachment C – Site-Wide Inspection Form**

**Site-Wide Inspection Form**  
**SSG/Modock Road Springs-Victor, New York**

Item #	Inspection Item	Yes	No	Inspector Comments	Notes
1	Has a change of ownership occurred?		X		NYSDEC must be informed 60 days in advance
2	Has there been any change in Site use?		X		Current Site use is commercial.
3	Have any soil disturbance activities occurred in the past year?	X		Ongoing operations of the site as an active sand & gravel mine	Documentation shall be provided as required in the SMP.
4	Are any soil disturbance activities planned at this time?	X		As above	NYSDEC must be informed 7 days in advance of any soil disturbance activities
5	Is groundwater underlying the Site being used?	X		The groundwater beneath the site is not used for potable purposes however water is used for process purposes	Use of Site groundwater for potable purposes is prohibited without treatment rendering it safe for intended use. Use of groundwater from the Norampac well is allowable for cooling and process purposes.
6	Are there any vegetable gardens or farming at the Site?		X		These activities are prohibited.
7	Is there any activity that will or may tend to interfere with the completed remedy or the continued ability to implement		X		

Name of Inspector: Jeremy Wolf - Marks Engineering

Signature of Inspector: *Jeremy Wolf*

Date of Inspection: 3/21/22

Date of Last Inspection: N/A This is the first inspection required per 2019 SMP

Required Date of Next Inspection: Prior to April 1, 2023

Identify expected inspector for next inspection: Jeremy Wolf, Marks Engineering

Additional comments or drawings:  
 See the Periodic Review Report for additional information, photographs, and figures.



**Attachment D –  
SSDS Inspection Report, June 23, 2022**



April 27, 2022  
Revised June 23, 2022

**VIA ELECTRONIC MAIL**

**Charles T. Gregory**

Project Manager  
Remedial Section D, Remedial Bureau E  
Division of Environmental Remediation  
625 Broadway, 12<sup>th</sup> Floor  
Albany, NY 12233-7017  
Email: [Charles.Gregory@dec.ny.gov](mailto:Charles.Gregory@dec.ny.gov)

**RE:** Letter Report – Sub-Slab Depressurization System (SSDS) Inspections  
Modock Road Springs/DLS Sand & Gravel Inc. (NYSDEC Site No. 835013)  
Marks Engineering Project No. 22-022

Dear Mr. Gregory:

**Marks Engineering, P.C.** (Marks Engineering) is pleased to provide this Sub-Slab Depressurization System (SSDS) Report prepared on behalf of Syracuse Sand and Gravel Inc. (SSG). Marks Engineering conducted inspections of existing Sub-Slab Depressurization Systems (SSDSs) in February through April of 2022 associated with the Modock Rd. Springs/DLS Sand & Gravel, Inc. Site located in the Town of Victor, Ontario County, New York (herein referred to as the "Site").

The Site is a NYSDEC Class 2 Inactive Hazardous Waste Disposal Site (Site No. 8-35-013). The scope of work presented herein is consistent with the Site Management Plan (SMP), and the NYSDEC Record of Decision (ROD), for the Site. Accordingly, Marks Engineering distributed letters on February 18, 2022 (and a second reminder mailing on March 31, 2022) requesting access to perform soil vapor intrusion sampling at four residential homes and inspections of 19 existing SSDSs within residences in or adjacent to the groundwater plume. Two of the four residents granted access to perform soil vapor intrusion sampling and 15 of the 19 residents granted access to inspect their existing SSDS. One resident responded but was not available for SVI sampling at this time. The remaining five residents did not respond to the two mailings, nor to a follow up phone call.

The results of the soil vapor intrusion sampling are pending and will be discussed in a forthcoming report submitted under separate cover. The results of the SSDS inspections are summarized on the attached **Table**. The SSDS inspection forms are also attached. The findings of the SSDS inspections are summarized as follows:

- At 10 of the 19 residents, the existing SSDSs were observed in good working order
- One new residence (7605 Zephyr Heights), not on the SMP mailing list but within or adjacent to the plume, was inspected and the existing SSDS was observed in good working order
- Two residences (7565 Trotwood Lane and 1225 Hunters Run) had noisy SSDS fans, but these SSDSs were otherwise in good working order. The SSDSs fans were replaced by Mitigation Tech, Brockport, New York (EPA listing # 15415-I; NEHA ID# 100722) on April 18, 2022 and June 1, 2022, respectively.
- The residence at 7515 Dryer Road was previously documented to have had an SSDS installed under the Town grant; however, upon inspection, no SSDS was observed at this location. The resident would like an

SSDS installed based on preliminary discussion. SSG will arrange for installation of a SSDS at this residence if the Department concurs.

- The previous owner at 7532 Dryer Rd. elected not to install a SSDS system and was not interested in any follow-up vapor intrusion sampling after initial sampling was conducted in 2007; however, the current owners allowed access to inspect and sample the residence. No SSDS is present at this location and the results of the soil vapor intrusion sampling are pending.
- Lastly, the existing SSDS at 7571 Modock Rd. was in good working order; however, the homeowner requested reimbursement for a SSDS to be installed at a second residential home recently constructed on the property. The homeowner reported that subgrade piping was installed beneath the basement slab by his builder, but the above grade fan and piping trunk system has yet to be installed. SSG will arrange for installation of a SSDS at this residence if the Department concurs.

Should you have questions or concerns about the information presented herein, please do not hesitate to contact me via e-mail at [jwolf@marksengineering.com](mailto:jwolf@marksengineering.com), or via phone at **(585) 500-8392**. Future mailings to residences and SSDS inspections will be conducted at the frequency (either annually or 18 month) as described in the SMP.

Very truly yours,

**Marks Engineering, P.C.**



**Jeremy Wolf**  
**Principal - Environmental Consultant**



**Brennan Marks, PE**

Attachments: Table - Sub-slab Depressurization System and Soil Vapor Intrusion Monitoring, Maintenance and Inspection Summary (adapted from the SMP Table 2)  
SSDS Inspection Forms

EC: Mark Syracuse, SSG  
Tom Walsh, Barclay Damon  
Julia Kenney, NYSDOH  
J. Dyber, DER  
D. Pratt, DER  
A. Guglielmi, OGC



**Table - Sub-slab Depressurization System and Soil Vapor Intrusion Monitoring, Maintenance and Inspection Summary**

CONTINUED MAINTENANCE - MITIGATION LOCATIONS AND SSDS INSTALLED BY NYSDEC DURING RI				INSPECTION DATE	INSPECTION FINDINGS
#	Historic Sample ID	Address	Notes		
1	12	1050 Nature's Way	DEC installed mitigation system	N/A	No response from homeowner
2	15	1239 Hunter's Run	DEC installed mitigation system	4/20/2022	None - SSDS in good working order
3	28	1170 Hunter's Run	DEC installed mitigation system	3/16/2022	None - SSDS in good working order
4	32	7565 Trotwood Lane	DEC installed mitigation system	4/18/2022	Existing fan noisy. Fan replaced by Mitigation Tech on 4/18/22.
5	54	7580 Dryer Road	DEC installed mitigation system	N/A	No response from homeowner
6	59	7560 Trotwood Lane	DEC installed mitigation system	6/17/2022	None - SSDS in good working order
CONTINUED MAINTENANCE - MONITOR LOCATIONS AND SSDS INSTALLED UNDER TOWN GRANT					
#	Historic Sample ID	Address	Notes		
1	3	7510 Surrey Lane	Mitigation system installed by owner for radon and later reimbursed by Town with Senator Grant	3/15/2022	None - SSDS in good working order
2	9	7580 Trotwood Lane	Mitigation System installed by Town with Senator Grant	3/16/2022	None - SSDS in good working order
3	14	7515 Dryer Road	Mitigation System installed by Town with Senator Grant	4/20/2022	No existing SSDS. Owner would like SSDS installed if feasible.
4	29	1225 Hunter's Run	Mitigation System installed by Town with Senator Grant	2/25/2022	Existing fan noisy. Fan replaced by Mitigation Tech on 6/1/22.
5	35	7587 Trotwood Lane	Mitigation System installed by Town with Senator Grant	3/21/2022	None - SSDS in good working order
6	38	7532 Dryer Road	No system installed and not interested in follow-up VI monitoring	3/16/2022	No existing SSDS. Conducted SVI sampling, results and report pending.
SVI SAMPLING - SSG TO PERFORM SVI SAMPLING IN 2018-2019 HEATING SEASON (Provided access is granted by property owner)					
#	Historic Sample ID	Address	Notes		
1	18	1125 Hunter's Run	Town installed SSDS may be installed. Send letter to property owner requesting access to sample.	3/15/2022	Conducted SVI sampling, results and report pending.
2	52	7540 Dryer Road	No SSDS installed and not interested in follow-up VI monitoring. Send letter to property owner requesting access to sample.	N/A	No response from homeowner
3	38	7532 Dryer Road	Send letter to property owner requesting access to sample.	3/16/2022	Conducted SVI sampling, results and report pending.
4		7572 Trotwood	Send letter to property owner requesting access to sample.	N/A	Homeowner available for sampling in summer 2022
EVALUATION OF SSDS STATUS					
#	Sample ID	Address	Notes		
1		7601 Zephyr Heights	Send letter to property owner requesting access to inspect SSDS.	4/18/2022	None - SSDS in good working order
2		7603 Zephyr Heights	Send letter to property owner requesting access to inspect SSDS.	3/15/2022	None - SSDS in good working order
3		7604 Zephyr Heights	Send letter to property owner requesting access to inspect SSDS.	N/A	No response from homeowner
EVALUATION OF NEW STRUCTURES					
TBD			New homes in new housing development near Zephyr Heights and Natures Way (Summerhill Lane)		
		7605 Zephyr Heights		3/15/2022	None - SSDS in good working order
ANNUAL NOTIFICATION FOR THE 4 PRE-EXISTING SYSTEMS WITH POSSIBLE VI SAMPLING TO EVALUATE IF SYSTEM IS NECESSARY					
#	Historic Sample ID	Address	Notes		
1	na	1130 Hunter's Run	Send letter to property owner requesting access to inspect SSDS.	3/16/2022	None - SSDS in good working order
2	na	1165 Hunter's Run	Send letter to property owner requesting access to inspect SSDS.	3/15/2022	None - SSDS in good working order
3	na	1185 Hunter's Run	Send letter to property owner requesting access to inspect SSDS.	N/A	No response from homeowner
4	25	7571 Modock Road	Send letter to property owner requesting access to inspect SSDS.	3/21/2022	Existing SSDS in good working order. Homeowner has requested reimbursement for cost of new SSDS installed in newly constructed second home on property.

**Notes:**

SSDS = Sub-slab Depressurization System

SVI = Soil Vapor Intrusion

Table adapted from Table 2 of the NYSDEC approved Site Management Plan (SMP) dated March 2019.