



**2018**

**GROUNDWATER MONITORING REPORT**

**FOR**

**FORMER DOWCRAFT FACILITY**

**NYSDEC SITE #907020**

**FALCONER, CHAUTAUQUA COUNTY, NEW YORK**

Prepared by:



**C&S ENGINEERS, INC.**  
141 ELM STREET  
BUFFALO, NEW YORK 14203

Prepared for:

JAMESTOWN CONTAINER COMPANIES  
14 DEMING DRIVE  
FALCONER, NEW YORK 14733

**MAY 2018**

## TABLE OF CONTENTS

|            |                                                |          |
|------------|------------------------------------------------|----------|
| <b>1</b>   | <b><u>INTRODUCTION</u></b>                     | <b>1</b> |
| <b>1.1</b> | <b>BACKGROUND AND SITE DESCRIPTION</b>         | <b>1</b> |
| <b>1.2</b> | <b>PROJECT OBJECTIVES</b>                      | <b>2</b> |
| <b>2</b>   | <b><u>SUBSURFACE CONDITIONS</u></b>            | <b>3</b> |
| <b>2.1</b> | <b>CONTAMINANTS OF CONCERN</b>                 | <b>3</b> |
| <b>2.2</b> | <b>GEOLOGY AND HYDROGEOLOGY</b>                | <b>4</b> |
| <b>2.3</b> | <b>EXTENT OF CONTAMINATION</b>                 | <b>5</b> |
| <b>3</b>   | <b><u>JUNE 2017 GROUNDWATER MONITORING</u></b> | <b>6</b> |
| <b>3.1</b> | <b>FIELD SAMPLING PROGRAM</b>                  | <b>6</b> |
| 3.1.1      | MONITORING WELL ARRAY                          | 6        |
| 3.1.2      | GROUNDWATER SAMPLING                           | 6        |
| 3.1.3      | WATER LEVEL MONITORING                         | 7        |
| 3.1.4      | WELL PURGING                                   | 7        |
| 3.1.5      | GROUNDWATER SAMPLE COLLECTION AND ANALYSIS     | 7        |
| <b>3.2</b> | <b>GROUNDWATER RESULTS</b>                     | <b>8</b> |
| 3.2.1      | LABORATORY ANALYSIS                            | 8        |
| 3.2.2      | GROUNDWATER ELEVATIONS                         | 8        |
| 3.2.3      | GROUNDWATER ANALYTICAL RESULTS                 | 8        |
| <b>4</b>   | <b><u>TREATMENT EFFECTIVENESS</u></b>          | <b>8</b> |
| <b>4.1</b> | <b>GROUNDWATER MONITORING RECOMMENDATIONS</b>  | <b>9</b> |

### **TABLES**

TABLE 1 – GROUNDWATER ELEVATIONS

TABLE 2 – GROUNDWATER ANALYTICAL RESULTS

TABLE 3 – VOC CONCENTRATION CHANGES

TABLE 4 – FIELD PARAMETER SUMMARY

### **FIGURES**

FIGURE 1 – HISTORIC AND EXISTING SITE FEATURES

FIGURE 2 – JUNE 2017 GROUNDWATER CONTOUR MAP

FIGURE 3 – JUNE 2017 GROUNDWATER RESULTS

**APPENDICES**

**APPENDIX A – GROUNDWATER ANALYTICAL RESULTS**

**ACRONYM LIST**

|        |                                                         |
|--------|---------------------------------------------------------|
| C&S    | C&S ENGINEERS, INC.                                     |
| JCC    | JAMESTOWN CONTAINER COMPANIES                           |
| SITE   | FORMER DOWCRAFT FACILITY                                |
| TCE    | TRICHLOROETHENE                                         |
| IRM    | INTERIM REMEDIAL MEASURES                               |
| NYSDEC | NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION |
| ROD    | RECORD OF DECISION                                      |
| CRA    | CONESTOGA-ROVERS & ASSOCIATES                           |
| RI     | REMEDIAL INVESTIGATION                                  |
| SCO    | SOIL CLEANUP OBJECTIVES                                 |
| SVOC   | SEMI-VOLATILE ORGANIC COMPOUNDS                         |
| VOC    | VOLATILE ORGANIC COMPOUNDS                              |
| NYSDOH | NEW YORK STATE DEPARTMENT OF HEALTH                     |

## 1 INTRODUCTION

C&S Engineers, Inc. (C&S) has prepared this Groundwater Monitoring Report on behalf of Jamestown Container Companies (JCC) for the former Dowcraft facility (the Site).

### 1.1 Background and Site Description

The Dowcraft Site is located at 65 South Dow Street in Falconer, New York and occupies approximately 2.2 acres of land situated immediately east of South Dow Street and approximately 100 feet south of the Chadakoin River (Site). The Jamestown Container manufacturing building is situated between the Site and the Chadakoin River.

The property was first developed in 1890 as a woolen mill until 1939 when it was converted into a factory which manufactured steel partitions used for offices. As part of this manufacturing process, a vapor degreaser was used which included the use of chemicals such as trichloroethene (TCE). This work continued until 1999 when the facility was closed, a portion of the Site was demolished, and the property was sold to JCC.

**Figure 1** presents present and historic site features.

The Site was the subject of environmental investigations in the early 1990s, at which time contaminated groundwater was discovered on site. An interim remedial measure (IRM) was subsequently put in place in 1994 which consisted of groundwater extraction and treatment. In 2000, the use of additional groundwater remediation technologies was approved by the NYSDEC which involved in-situ chemical oxidation of TCE through the injection of potassium permanganate into the overburden groundwater. In 2003, a Record of Decision (ROD) was approved that selected the following remedy:

- ) In-situ groundwater treatment through chemical oxidation, by injection of potassium permanganate dissolved in water, through existing well points into the shallow overburden groundwater table;
- ) Overburden groundwater monitoring to verify the effectiveness of the treatment;
- ) Institutional controls to prevent the use of groundwater as a source of potable water; and
- ) Annual certification to NYSDEC to certify that institutional controls remain in place.

Conestoga-Rovers & Associates (CRA) conducted nine injection treatments between May 2000 and July 2006, totaling 21,500 pounds of potassium permanganate.

Previous injection treatments were successful in oxidizing some TCE; however, the concentrations of TCE in the source area remain high.

## **1.2 Project Objectives**

As stated in the 2003 ROD, the remedial goals selected for this Site are:

- J Treat the source area of groundwater contamination by oxidative de-chlorination of the contaminants in place;
- J Prevent exposure of human receptors to contaminated groundwater in the sand and gravel unit under Site;
- J Prevent or mitigate, to the maximum extent practicable, COC migration via groundwater so that releases from the underlying sand and gravel unit to the Chadakoin River do not exceed applicable standards, criteria and guidance.

To help satisfy these project objectives, periodic groundwater sampling is required. Additionally, the New York State Department of Health (NYSDOH) requested the performance of soil vapor sampling to evaluate potential impacts to air quality by the contamination underlying the Site. This report describes the results from the recent groundwater sampling event that occurred on April 25 and 26, 2016.

## **2 SUBSURFACE CONDITIONS**

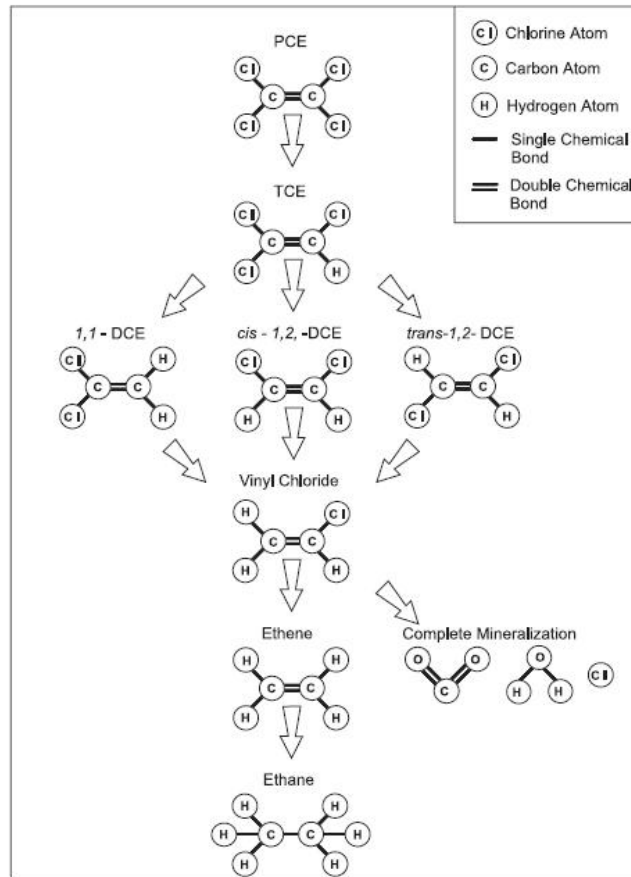
### **2.1 Contaminants of Concern**

Chlorinated solvents, primarily, trichloroethene (TCE) and its daughter compounds, were identified as the contaminants of concern (COC) for this Site. TCE is a man-made volatile organic compound used for degreasing metal and electronic parts. Remedial considerations for TCE include its low solubility value and heavy molecular weight. TCE is in a class of chemicals called dense non-aqueous phase liquids (DNAPL) that sink through the water column until they encounter an impermeable barrier.

Groundwater contaminant plumes with TCE can undergo a process of reductive dechlorination, during which chlorine atoms are stripped from TCE and daughter compounds are produced. The rate of dechlorination can vary based on:

- ) Amount of TCE in the subsurface;
- ) Amount of organic material; and
- ) Type and concentration of electron acceptors available in the system.

The process of TCE reductive dechlorination is shown below:



## 2.2 Geology and Hydrogeology

Site geology consists of fill material overlying two sand/gravel layers separated by a silt/clay lens. Fill material consists of a mixed matrix of sand, cinders, silt, gravel, brick, concrete, coal, slag and metal. The fill unit ranges in thickness from 2 to over 14 feet with an average thickness of 8 feet.

The upper sand/gravel layer ranges from 10 to 20 feet in thickness. Underlying the upper sand/gravel layer is a silt/clay lens that ranges from 4 to 8 feet in thickness. The lower sand/gravel layer is 10 to 18 feet thick. Underlying the lower sand layer is a second silt/clay layer that starts approximately 43 feet below ground surface (BGS). This unit is estimated to be 60 feet in thickness according to regional geology.

The average depth to groundwater is 10 feet BGS within the upper sand/gravel layer. Groundwater flow within the upper sand/gravel layer is to the north-northeast at approximately 2.7 feet per year. **Figure 2** shows the inferred groundwater flow direction in the upper sand/gravel layer. The silt/clay layer overlying the lower sand/gravel layer is acting as an aquitard for deeper groundwater and is creating a semi-confined aquifer.

### **2.3 Extent of Contamination**

According to previous environmental reports, the area of former degreaser pit (area of groundwater monitoring wells PW-3 and PW-3R) is a likely source area for the COC plume. The plume originates from the degreaser area and has affected groundwater in the upper and lower sand/gravel layers. The plume extends from the degreaser area to the north, under the JCC building and up to the area of the Chadakoin River. This is an area of approximately one acre. The rate of movement is approximately 2 to 3 feet per year to the north.



### **3 MAY 208 GROUNDWATER MONITORING**

#### **3.1 Field Sampling Program**

##### **3.1.1 Monitoring Well Array**

The Site contains a total of 23 monitoring wells installed in November 1990, November 1991, and April 1992. The monitoring wells below have been shown to be directly within the contaminant plume.

|          |           |
|----------|-----------|
| ESI - 1  | ESI - 11  |
| ESI - 2  | ESI - 12  |
| ESI - 3  | ESI - 13R |
| ESI - 6  | PW - 1    |
| ESI - 7  | PW - 3R   |
| ESI - 10 |           |

It should be noted that PW-2 has been previously sampled by other consultants; however, during groundwater monitoring conducted by C&S on July 2, 2013, PW-2 could not be developed and sampled because piping was located in the well that could not be removed. Monitoring well ESI - 6 is located within six feet of PW-2 and was developed and sampled as a substitute for PW-2.

##### **3.1.2 Groundwater Sampling**

The following groundwater sampling events have been conducted by C&S.

|                             |                                |
|-----------------------------|--------------------------------|
| July 2, 2013                | Baseline Monitoring            |
| October 21, 22 and 29, 2014 | Pre-treatment                  |
| April 21 and 22, 2015       | 1 <sup>st</sup> Post-treatment |
| November 2 and 3, 2015      | 2 <sup>nd</sup> Post-treatment |
| April 25 and 26, 2016       | 3 <sup>rd</sup> Post-treatment |
| October 20 and 21, 2016     | 4 <sup>th</sup> Post-treatment |
| June 7 and 8, 2017          | 5 <sup>th</sup> Post-treatment |

May 7 and 8, 2018

6<sup>th</sup> Post-treatment  
(1<sup>st</sup> Annual Sample  
Event under OM&M)

The groundwater monitoring activities included the collection of depth-to-water measurements at each monitoring well and the collection of groundwater samples for laboratory analysis.

Groundwater sampling was conducted in accordance with the U.S. Environmental Protection Agency (USEPA) low flow sample procedure. All equipment used for well purging and sampling was thoroughly washed with tap water and laboratory detergent, Alconox, prior to and after use.

### 3.1.3 Water Level Monitoring

Prior to purging and sampling each monitoring well was measured with an electronic water level indicator used to measure depth to water and total depth of each well. Measurements were referenced to the top of the well casing. All water levels and total depth measurements were taken to the nearest 0.01 foot.

### 3.1.4 Well Purging

Water quality parameters were tracked as groundwater was removed from monitoring wells. A Monsoon pump was used to purge monitoring wells until water quality parameters (temperature, specific conductivity, pH, oxygen reduction potential dissolved oxygen and turbidity) were stabilized. **Table 4** presents field water quality parameter data. Purge water was transferred into five-gallon buckets. Collected purge water was treated through an activated carbon system prior to discharge on the ground surface.

### 3.1.5 Groundwater Sample Collection and Analysis

Samples were collected from each well immediately after water quality parameters were stabilized. Samples were collected from polyethylene tubing into appropriate sample jars. The sample containers were chemically preserved by the laboratory prior to the field activities. Samples collected for volatile organics analysis were overfilled to form a convex meniscus and, after collection, the sample container was inverted to check for the presence of air bubbles in the sample. All samples were placed in coolers on ice to maintain samples at 4 degrees Celsius. A chain-of-custody manifest was completed on-site and accompanied the samples to the lab. Samples were analyzed for:

| <i>Parameter</i>           | <i>EPA Method</i> |
|----------------------------|-------------------|
| Volatile Organic Compounds | 8260C             |

## 3.2 Groundwater Results

### 3.2.1 Laboratory Analysis

Samples were received by Alpha Analytical Labs on May 7-8, 2018. The following presents observations associated with the samples:

- ) The lab confirmed that samples were obtained intact
- ) On ice and cooler temperature was acceptable
- ) Chain-of-custody was filled out with all pertinent information
- ) No discrepancy with sample ID and chain-of-custody
- ) Samples were received within holding times
- ) VOA sample vials did not have headspace or bubble is < 6mm in diameter
- ) Sample bottles were completely filled

### 3.2.2 Groundwater Elevations

Groundwater elevations are provided in **Table 1** and shown on **Figure 2**. These elevations show that groundwater is generally flowing to the north and east.

### 3.2.3 Groundwater Analytical Results

Four out of the eleven wells that were sampled contained groundwater that exceeded water quality standard for TCE (5 ug/L). Analytical results for TCE in these wells ranged from 7.3 ug/L to 450 ug/L. Other chlorinated compounds, including TCE daughter compounds (cis-1,2-dichloroethene, trans-1,2-dichloroethane and vinyl chloride) were detected in five of the eleven wells. Analytical results for daughter compounds in these wells ranged from 1.3 ug/L to 507 ug/L. The highest concentration of cis-1,2-Dichloroethene was detected in ESI-6 (480 ug/L). Vinyl chloride was detected in one well, PW-3R, at 110 ug/L.

The analytical results are summarized in **Table 2**. The June 2018 analytical results are presented on **Figure 3**. The groundwater results were compared to NYSDEC T.O.G.S 1.1.1 Ambient Water Quality Standards.

## 4 TREATMENT EFFECTIVENESS

Potassium permanganate was used to treat TCE and other chlorinated volatile organic compounds within a plume that extends adjacent and partially underneath the JCC building. Two methods were implemented in treating the contaminated groundwater. The first method included the injection of a solution of potassium permanganate in ten borings. The second method included the placement of potassium permanganate cylinders as a treatment adjacent to PW-3R and installation of cylinders in monitoring wells inside the main JCC building. Treatment was applied on December 1 through 9, 2014. After sampling was completed on April 2016, potassium permanganate cylinders were placed in ESI-2 and ESI-6. Three cylinders were placed in each monitoring well.

**Table 3** presents a comparison of total VOC concentrations from each monitoring well and the percent change from pre-treatment and post-treatment groundwater monitoring.

Out of eleven monitoring wells, ten wells show significant decreases, over 50%, in TCE and other chlorinated compounds. Continued decreases of TCE and other chlorinated compounds were observed in wells on the outside of the contaminant plume (ESI-1, ESI-7 and ESI-13R) and inside the JCC building (ESI-10, ESI-11 and ESI-12). No TCE or other chlorinated compounds were detected above NYS T.O.G.S in samples from within the JCC building. PW-3R shows a significant reduction in TCE, DCE and vinyl chloride from the June 2017 sample event.

One well showed a slight rebound of chlorinated compounds from the December 2014 treatment event. ESI-2 still contains elevated levels of TCE and daughter compounds. Elevated concentrations were observed in sampling events conducted from April 2015 through October 2016. The reason for this observation is not clear, although a possible explanation is the injections caused the migration of groundwater with higher concentrations towards certain monitoring wells, or the ISCO materials may have increased the mobilization of contaminants that may have adhered to soil particles. However, these monitoring wells have increased levels of daughter compounds of TCE, indicating that reductive de-chlorination of TCE is taking place as a result of the potassium permanganate treatment.

ESI-2 shows a trend in chlorinated contaminants back to pre-treatment levels, indicating that this area is still in the process of reductive de-chlorination.

#### **4.1 Groundwater Monitoring Recommendations**

The sixth round of post-treatment sampling suggests that the potassium permanganate injections/cylinders and natural attenuation appear to be effective in treating the groundwater contaminants in many wells. As outlined in the OM&M Work Plan, C&S will continue to annually monitor groundwater for the next four years. The next submittal is the annual Periodic Review Report due in November 2018.

---

# TABLES

---

**TABLE 1: GROUNDWATER MONITORING  
FORMER DOWCRAFT FACILITY  
FALCONER, NEW YORK**

| <b>May 2018</b>            |                           |                         |                             |                                  |
|----------------------------|---------------------------|-------------------------|-----------------------------|----------------------------------|
| <i>Monitoring<br/>Well</i> | <i>Depth to<br/>Water</i> | <i>Boring<br/>Depth</i> | <i>Casing<br/>Elevation</i> | <i>Groundwater<br/>Elevation</i> |
| ESI-1                      | 8.5                       | 15                      | 1264.17                     | 1255.67                          |
| ESI-2                      | 9.75                      | 13.8                    | 1264.6                      | 1254.85                          |
| ESI-3                      | 8.72                      | 14.2                    | 1264.89                     | 1256.17                          |
| ESI-6                      | 10                        | 13.75                   | 1264.66                     | 1254.66                          |
| ESI-7                      | 9.25                      | 14                      | 1264.93                     | 1255.68                          |
| ESI-10                     | 9.8                       | 14.95                   | 1265.08                     | 1255.28                          |
| ESI-11                     | 9.5                       | 15.6                    | 1265.09                     | 1255.59                          |
| ESI-12                     | 9.25                      | 15.1                    | 1264.95                     | 1255.7                           |
| ESI-13R                    | 8.9                       | 15.2                    | 1263.31                     | 1254.41                          |
| PW-1                       | 8.63                      | 19.6                    | 1264.6                      | 1255.97                          |
| PW-3R                      | 9.35                      | 36.4                    | 1265.04                     | 1255.69                          |

TABLE 2: GROUNDWATER ANALYTICAL RESULTS - VOLATILE ORGANIC COMPOUNDS  
FORMER DOWCRAFT FACILITY  
FALCONER, NEW YORK

| Location ID<br>Sample Matrix<br>Date Sampled<br>Units<br><br>NYSDEC Groundwater<br>Standards & Guidance<br>Values | ESI-1      | ESI-1      | ESI-1      | ESI-1      | ESI-1      | ESI-1      | ESI-1      | ESI-2      | ESI-2      | ESI-2      | ESI-2      | ESI-2      | ESI-2      | ESI-2      |      |      |
|-------------------------------------------------------------------------------------------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------|------|
|                                                                                                                   | WG         | WG         | WG         | WG         | WG         | WG         | WG         | WG         | WG         | WG         | WG         | WG         | WG         | WG         |      |      |
|                                                                                                                   | 12/02/2014 | 04/21/2015 | 11/03/2015 | 04/25/2016 | 10/20/2016 | 06/07/2017 | 05/07/2018 | 12/02/2014 | 04/22/2015 | 11/03/2015 | 04/25/2016 | 10/21/2016 | 06/08/2017 | 05/08/2018 |      |      |
|                                                                                                                   | ug/l       | ug/l       | ug/l       | ug/l       | ug/l       | ug/l       | ug/l       | ug/l       | ug/l       | ug/l       | ug/l       | ug/l       | ug/l       | ug/l       |      |      |
| 1,1,1-Trichloroethane                                                                                             | 5.0 ug/l   | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       |      |      |
| 1,1-Dichloroethane                                                                                                | 5.0 ug/l   | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       |      |      |
| 1,1-Dichloroethene                                                                                                | 5.0 ug/l   | -- U       | -- U,*     | -- U       | -- U       | -- U       | -- U       | 1.1        | -- U,*     | 12         | -- U       | -- U       | -- U       | -- U       |      |      |
| 1,2-Dichlorobenzene                                                                                               | 3.0 ug/l   | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       |      |      |
| 1,2-Dichloroethane                                                                                                | 0.6 ug/l   | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       |      |      |
| 1,3-Dichlorobenzene                                                                                               | 3.0 ug/l   | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       |      |      |
| 1,4-Dichlorobenzene                                                                                               | 3.0 ug/l   | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       |      |      |
| Bromoform                                                                                                         | 50.0 ug/l  | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       |      |      |
| Dibromochloromethane                                                                                              | 50.0 ug/l  | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       |      |      |
| Acetone                                                                                                           | 50.0 ug/l  | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       |      |      |
| Benzene                                                                                                           | 1.0 ug/l   | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       |      |      |
| Carbon Tetrachloride                                                                                              | 5.0 ug/l   | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U,*     | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       |      |      |
| Chlorobenzene                                                                                                     | 5.0 ug/l   | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       |      |      |
| Chloroform                                                                                                        | 7.0 ug/l   | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       |      |      |
| Cis-1,2-Dichloroethylene                                                                                          | 5.0 ug/l   | -- U       | 4.4        | -- U       | -- U       | -- U       | -- U       | 540        | E          | 740        | 4400       | E          | 5290       | 592        |      |      |
| Ethylbenzene                                                                                                      | 5.0 ug/l   | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       |      |      |
| Methylene Chloride                                                                                                | 5.0 ug/l   | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | 7.9        | J          | -- U       | -- U       | -- U       | -- U       |      |      |
| Tetrachloroethylene (PCE)                                                                                         | 5.0 ug/l   | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | 0.48       | J          | -- U       | -- U       | -- U       | -- U       | -- U       |      |      |
| Toluene                                                                                                           | 5.0 ug/l   | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       |      |      |
| Trans-1,2-Dichloroethene                                                                                          | 5.0 ug/l   | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | 4.5        | -- U       | 19         | -- U       | -- U       | -- U       | 27         |      |      |
| Trichloroethylene (TCE)                                                                                           | 5.0 ug/l   | 8.9        | 15         | 12         | 4.89       | 6.52       | 3.68       | 4.40       | 130        | E          | 110        | 1100       | E          | 1260       | 303  | 450  |
| Vinyl Chloride                                                                                                    | 2.0 ug/l   | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | 130        | E          | 130        | 320        | 289        | -- U       | -- U | -- U |
| Xylenes                                                                                                           | 5.0 ug/l   | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U | -- U |

WELL CAP DAMAGED. SAMPLE NOT COLLECTED.

WELL CAP DAMAGED. SAMPLE NOT COLLECTED.

TABLE 2: GROUNDWATER ANALYTICAL RESULTS - VOLATILE ORGANIC COMPOUNDS  
FORMER DOWCRAFT FACILITY  
FALCONER, NEW YORK

| Location ID               | ESI-3                                          | ESI-3      | ESI-3      | ESI-3      | ESI-3      | ESI-3      | ESI-3      | ESI-6      | ESI-6      | ESI-6      | ESI-6      | ESI-6      | ESI-6      | ESI-6       |
|---------------------------|------------------------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------|
|                           | WG                                             | WG         | WG         | WG         | WG         | WG         | WG         | WG         | WG         | WG         | WG         | WG         | WG         | WG          |
|                           | 10/21/2014                                     | 04/22/2015 | 11/02/2015 | 04/25/2016 | 10/20/2016 | 06/07/2017 | 05/08/2018 | 10/29/2014 | 04/22/2015 | 11/02/2015 | 04/25/2016 | 10/21/2016 | 06/08/2017 | 05/08/2018  |
|                           | ug/l                                           | ug/l       | ug/l       | ug/l       | ug/l       | ug/l       | ug/l       | ug/l       | ug/l       | ug/l       | ug/l       | ug/l       | ug/l       | ug/l        |
|                           | NYSDEC Groundwater Standards & Guidance Values |            |            |            |            |            |            |            |            |            |            |            |            |             |
| 1,1,1-Trichloroethane     | 5.0 ug/l                                       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U        |
| 1,1-Dichloroethane        | 5.0 ug/l                                       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U        |
| 1,1-Dichloroethene        | 5.0 ug/l                                       | -- U       | -- U,*     | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | 1.6        | -- U       | 3.9        | -- U        |
| 1,2-Dichlorobenzene       | 3.0 ug/l                                       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U        |
| 1,2-Dichloroethane        | 0.6 ug/l                                       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U        |
| 1,3-Dichlorobenzene       | 3.0 ug/l                                       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U        |
| 1,4-Dichlorobenzene       | 3.0 ug/l                                       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U        |
| Bromoform                 | 50.0 ug/l                                      | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U        |
| Dibromochloromethane      | 50.0 ug/l                                      | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U        |
| Acetone                   | 50.0 ug/l                                      | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | 2.4 J       |
| Benzene                   | 1.0 ug/l                                       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U        |
| Carbon Tetrachloride      | 5.0 ug/l                                       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U,*     | -- U       | -- U       | -- U        |
| Chlorobenzene             | 5.0 ug/l                                       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U        |
| Chloroform                | 7.0 ug/l                                       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U        |
| Cis-1,2-Dichloroethylene  | 5.0 ug/l                                       | -- U       | -- U       | -- U       | -- U       | 1.40 J     | -- U       | -- U       | -- U       | 210 E      | 1100       | 1000 E     | 322        | 626 181 5.3 |
| Ethylbenzene              | 5.0 ug/l                                       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U        |
| Methylene Chloride        | 5.0 ug/l                                       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | 10 J       | -- U       | -- U       | -- U        |
| Tetrachloroethylene (PCE) | 5.0 ug/l                                       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | 1.1        | -- U       | 5.8        | -- U       | 1.4         |
| Toluene                   | 5.0 ug/l                                       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U        |
| Trans-1,2-Dichloroethene  | 5.0 ug/l                                       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | 2.2        | -- U       | 4.0        | -- U       | 11.1 J      |
| Trichloroethylene (TCE)   | 5.0 ug/l                                       | 4.8        | 2.5        | 4.8        | 1.06 J     | 6.99       | -- U       | 0.3 U      | 200 E      | 810        | 1500 E     | 924        | 1060       | 431 40      |
| Vinyl Chloride            | 2.0 ug/l                                       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | 160 E      | 100        | *,^        | 68         | 21.7       | -- U        |
| Xylenes                   | 5.0 ug/l                                       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U        |



TABLE 2: GROUNDWATER ANALYTICAL RESULTS - VOLATILE ORGANIC COMPOUNDS  
FORMER DOWCRAFT FACILITY  
FALCONER, NEW YORK

| Location ID               | ESI-7                                          | ESI-7      | ESI-7      | ESI-7      | ESI-7      | ESI-7      | ESI-7      | ESI-10     | ESI-10     | ESI-10     | ESI-10     | ESI-10     | ESI-10     | ESI-10     |            |
|---------------------------|------------------------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
|                           | WG                                             | WG         | WG         | WG         | WG         | WG         | WG         | WG         | WG         | WG         | WG         | WG         | WG         | WG         |            |
|                           | Date Sampled                                   | 10/21/2014 | 04/21/2015 | 11/02/2015 | 04/25/2016 | 10/20/2016 | 06/08/2017 | 05/07/2018 | 10/29/2014 | 04/21/2015 | 11/03/2015 | 04/26/2016 | 10/20/2016 | 06/07/2017 | 05/07/2018 |
|                           | Units                                          | ug/l       | ug/l       | ug/l       | ug/l       | ug/l       | ug/l       | ug/l       | ug/l       | ug/l       | ug/l       | ug/l       | ug/l       | ug/l       | ug/l       |
|                           | NYSDEC Groundwater Standards & Guidance Values |            |            |            |            |            |            |            |            |            |            |            |            |            |            |
| 1,1,1-Trichloroethane     | 5.0 ug/l                                       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       |
| 1,1-Dichloroethane        | 5.0 ug/l                                       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       |
| 1,1-Dichloroethene        | 5.0 ug/l                                       | -- U       | -- U,*     | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | 0.61 J     | -- U       | -- U       | -- U       | -- U       |
| 1,2-Dichlorobenzene       | 3.0 ug/l                                       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       |
| 1,2-Dichloroethane        | 0.6 ug/l                                       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       |
| 1,3-Dichlorobenzene       | 3.0 ug/l                                       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       |
| 1,4-Dichlorobenzene       | 3.0 ug/l                                       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       |
| Bromoform                 | 50.0 ug/l                                      | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | 3.01       | -- U       |
| Dibromochloromethane      | 50.0 ug/l                                      | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       |
| Acetone                   | 50.0 ug/l                                      | -- U       | -- U       | -- U       | -- U       | 6.89 J     | 10.10      | -- U       | -- U       | 8.5 J      | 5.9 J      | 7.16 J     | 7.11 J     | -- U       | -- U       |
| Benzene                   | 1.0 ug/l                                       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       |
| Carbon Tetrachloride      | 5.0 ug/l                                       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U,*     | -- U       | -- U       | -- U       | -- U       | -- U       |
| Chlorobenzene             | 5.0 ug/l                                       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       |
| Chloroform                | 7.0 ug/l                                       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       |
| Cis-1,2-Dichloroethylene  | 5.0 ug/l                                       | 78         | 25         | 12         | 8.30       | 24.5       | 5.15       | 30         | 240        | E          | -- U       | -- U       | -- U       | -- U       | -- U       |
| Ethylbenzene              | 5.0 ug/l                                       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       |
| Methylene Chloride        | 5.0 ug/l                                       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       |
| Tetrachloroethylene (PCE) | 5.0 ug/l                                       | 0.39 J     | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       |
| Toluene                   | 5.0 ug/l                                       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       |
| Trans-1,2-Dichloroethene  | 5.0 ug/l                                       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | 2.5        | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       |
| Trichloroethylene (TCE)   | 5.0 ug/l                                       | 150        | E          | 78         | 57         | 42.9       | 106        | 21.1       | 52         | 62         | -- U       | -- U       | -- U       | -- U       | 0.94       |
| Vinyl Chloride            | 2.0 ug/l                                       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | 37         | -- U,*     | -- U       | -- U       | -- U       | -- U       | -- U       |
| Xylenes                   | 5.0 ug/l                                       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       |

TABLE 2: GROUNDWATER ANALYTICAL RESULTS - VOLATILE ORGANIC COMPOUNDS  
FORMER DOWCRAFT FACILITY  
FALCONER, NEW YORK

| Location ID               | ESI-11                                         | ESI-11     | ESI-11     | ESI-11     | ESI-11     | ESI-11     | ESI-11     | ESI-12     | ESI-12     | ESI-12     | ESI-12     | ESI-12     | ESI-12     | ESI-12     |
|---------------------------|------------------------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
|                           | WG                                             | WG         | WG         | WG         | WG         | WG         | WG         | WG         | WG         | WG         | WG         | WG         | WG         | WG         |
|                           | 10/29/2014                                     | 04/21/2015 | 11/03/2015 | 04/26/2016 | 10/20/2016 | 06/07/2017 | 05/07/2018 | 10/22/2014 | 04/21/2015 | 11/03/2015 | 04/26/2016 | 10/21/2016 | 06/07/2017 | 05/08/2018 |
|                           | ug/l                                           | ug/l       | ug/l       | ug/l       | ug/l       | ug/l       | ug/l       | ug/l       | ug/l       | ug/l       | ug/l       | ug/l       | ug/l       | ug/l       |
|                           | NYSDEC Groundwater Standards & Guidance Values |            |            |            |            |            |            |            |            |            |            |            |            |            |
| 1,1,1-Trichloroethane     | 5.0 ug/l                                       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       |
| 1,1-Dichloroethane        | 5.0 ug/l                                       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       |
| 1,1-Dichloroethene        | 5.0 ug/l                                       | -- U       | -- U,*     | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- UM      | -- UM      | -- U       | -- U       |
| 1,2-Dichlorobenzene       | 3.0 ug/l                                       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       |
| 1,2-Dichloroethane        | 0.6 ug/l                                       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       |
| 1,3-Dichlorobenzene       | 3.0 ug/l                                       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       |
| 1,4-Dichlorobenzene       | 3.0 ug/l                                       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       |
| Bromoform                 | 50.0 ug/l                                      | -- U       | -- U       | -- U       | -- U       | -- U       | 4.78       | -- U       | -- U       | -- U       | -- U       | -- U       | 14.5       | -- U       |
| Dibromochloromethane      | 50.0 ug/l                                      | -- U       | -- U       | -- U       | -- U       | -- U       | 1.09       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       |
| Acetone                   | 50.0 ug/l                                      | -- U       | 3.9 J      | 7.0 J      | 32.4       | -- U       | -- U       | 2.6 J      | -- U       | -- U       | 5.6 J      | 5.85 J     | 6.19 J     | -- U       |
| Benzene                   | 1.0 ug/l                                       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       |
| Carbon Tetrachloride      | 5.0 ug/l                                       | -- U,*     | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       |
| Chlorobenzene             | 5.0 ug/l                                       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       |
| Chloroform                | 7.0 ug/l                                       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       |
| Cis-1,2-Dichloroethylene  | 5.0 ug/l                                       | 76         | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | 71         | 1.2        | -- U       | -- U       | -- U       |
| Ethylbenzene              | 5.0 ug/l                                       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- UM      | -- UM      | -- UM      | -- UM      |
| Methylene Chloride        | 5.0 ug/l                                       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       |
| Tetrachloroethylene (PCE) | 5.0 ug/l                                       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | 0.48 J     | 0.54 J     | -- U       | -- U       | -- U       |
| Toluene                   | 5.0 ug/l                                       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- UM      | -- UM      | -- UM      | -- UM      |
| Trans-1,2-Dichloroethene  | 5.0 ug/l                                       | 2.0        | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- UM      | -- UM      | -- UM      | -- UM      |
| Trichloroethylene (TCE)   | 5.0 ug/l                                       | 55         | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | 140        | E          | 10         | -- UM      | -- UM      |
| Vinyl Chloride            | 2.0 ug/l                                       | 24         | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | U,*        | -- UM      | -- UM      | -- UM      |
| Xylenes                   | 5.0 ug/l                                       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       |

TABLE 2: GROUNDWATER ANALYTICAL RESULTS - VOLATILE ORGANIC COMPOUNDS  
FORMER DOWCRAFT FACILITY  
FALCONER, NEW YORK

| Location ID               | Location ID                                    | ESI-13R    | ESI-13R    | ESI-13R    | ESI-13R    | ESI-13R    | ESI-13R    | ESI-13R    | PW-1       | PW-1       | PW-1       | PW-1       | PW-1       | PW-1       | PW-1       |  |
|---------------------------|------------------------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|--|
|                           | Sample Matrix                                  | WG         | WG         | WG         | WG         | WG         | WG         | WG         | WG         | WG         | WG         | WG         | WG         | WG         | WG         |  |
|                           | Date Sampled                                   | 10/21/2014 | 04/21/2015 | 11/02/2015 | 04/25/2016 | 10/20/2016 | 06/07/2017 | 05/08/2018 | 10/21/2014 | 04/21/2015 | 11/02/2015 | 04/25/2016 | 10/20/2016 | 06/08/2017 | 05/08/2018 |  |
|                           | Units                                          | ug/l       | ug/l       | ug/l       | ug/l       | ug/l       | ug/l       | ug/l       | ug/l       | ug/l       | ug/l       | ug/l       | ug/l       | ug/l       | ug/l       |  |
|                           | NYSDEC Groundwater Standards & Guidance Values |            |            |            |            |            |            |            |            |            |            |            |            |            |            |  |
| 1,1,1-Trichloroethane     | 5.0 ug/l                                       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       |  |
| 1,1-Dichloroethane        | 5.0 ug/l                                       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       |  |
| 1,1-Dichloroethene        | 5.0 ug/l                                       | -- U       | -- U,*     | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U,*     | -- U       | -- U       | -- U       | -- U       | -- U       |  |
| 1,2-Dichlorobenzene       | 3.0 ug/l                                       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       |  |
| 1,2-Dichloroethane        | 0.6 ug/l                                       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       |  |
| 1,3-Dichlorobenzene       | 3.0 ug/l                                       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       |  |
| 1,4-Dichlorobenzene       | 3.0 ug/l                                       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       |  |
| Bromoform                 | 50.0 ug/l                                      | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       |  |
| Dibromochloromethane      | 50.0 ug/l                                      | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       |  |
| Acetone                   | 50.0 ug/l                                      | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | 8.09       | J          |  |
| Benzene                   | 1.0 ug/l                                       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       |  |
| Carbon Tetrachloride      | 5.0 ug/l                                       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       |  |
| Chlorobenzene             | 5.0 ug/l                                       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       |  |
| Chloroform                | 7.0 ug/l                                       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       |  |
| Cis-1,2-Dichloroethylene  | 5.0 ug/l                                       | 18         | 18         | 8.3        | 7.51       | 9.41       | -- U       | 1.3        | J          | 1.9        | 8.8        | 2.4        | 5.03       | 7.14       | 3.88       |  |
| Ethylbenzene              | 5.0 ug/l                                       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       |  |
| Methylene Chloride        | 5.0 ug/l                                       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       |  |
| Tetrachloroethylene (PCE) | 5.0 ug/l                                       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       |  |
| Toluene                   | 5.0 ug/l                                       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       |  |
| Trans-1,2-Dichloroethene  | 5.0 ug/l                                       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       |  |
| Trichloroethylene (TCE)   | 5.0 ug/l                                       | 22         | 46         | 19         | 21.0       | 13.1       | 7.37       | 7.3        | 15         | 3.3        | 11         | 6.96       | 22.1       | 8.39       | 0.84       |  |
| Vinyl Chloride            | 2.0 ug/l                                       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       |  |
| Xylenes                   | 5.0 ug/l                                       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       | -- U       |  |

**TABLE 2: GROUNDWATER ANALYTICAL RESULTS - VOLATILE ORGANIC COMPOUNDS  
FORMER DOWCRAFT FACILITY  
FALCONER, NEW YORK**

|                                                | Location ID   | PW-3R      |     | PW-3R      |     | PW-3R      |      | PW-3R      |   | PW-3R      |   | PW-3R      |   | PW-3R      |   |
|------------------------------------------------|---------------|------------|-----|------------|-----|------------|------|------------|---|------------|---|------------|---|------------|---|
|                                                | Sample Matrix | WG         |     | WG         |     | WG         |      | WG         |   | WG         |   | WG         |   | WG         |   |
|                                                | Date Sampled  | 10/29/2014 |     | 04/22/2015 |     | 11/03/2015 |      | 04/26/2016 |   | 10/21/2016 |   | 06/08/2017 |   | 05/08/2018 |   |
|                                                | Units         | ug/l       |     | ug/l       |     | ug/l       |      | ug/l       |   | ug/l       |   | ug/l       |   | ug/l       |   |
| NYSDEC Groundwater Standards & Guidance Values |               |            |     |            |     |            |      |            |   |            |   |            |   |            |   |
| 1,1,1-Trichloroethane                          | 5.0 ug/l      | --         | U   | --         | U   | --         | U    | --         | U | --         | U | --         | U | --         | U |
| 1,1-Dichloroethane                             | 5.0 ug/l      | 5.1        |     | 4.0        |     | --         | U    | --         | U | --         | U | --         | U | --         | U |
| 1,1-Dichloroethene                             | 5.0 ug/l      | --         | U   | --         | U,* | --         | U    | --         | U | --         | U | --         | U | --         | U |
| 1,2-Dichlorobenzene                            | 3.0 ug/l      | --         | U   | --         | U   | --         | U    | --         | U | --         | U | --         | U | --         | U |
| 1,2-Dichloroethane                             | 0.6 ug/l      | --         | U   | --         | U   | --         | U    | --         | U | --         | U | --         | U | --         | U |
| 1,3-Dichlorobenzene                            | 3.0 ug/l      | --         | U   | --         | U   | --         | U    | --         | U | --         | U | --         | U | --         | U |
| 1,4-Dichlorobenzene                            | 3.0 ug/l      | --         | U   | --         | U   | --         | U    | --         | U | --         | U | --         | U | --         | U |
| Bromoform                                      | 50.0 ug/l     | --         | U   | --         | U   | --         | U    | --         | U | --         | U | --         | U | --         | U |
| Dibromochloromethane                           | 50.0 ug/l     | --         | U   | --         | U   | --         | U    | --         | U | --         | U | --         | U | --         | U |
| Acetone                                        | 50.0 ug/l     | 12         |     | 16         |     | --         | U    | 11.3       | J | 12.3       | J | --         | U | 9          |   |
| Benzene                                        | 1.0 ug/l      | 0.61       | J   | 0.53       | J   | --         | U    | --         | U | --         | U | --         | U | --         | U |
| Carbon Tetrachloride                           | 5.0 ug/l      | --         | U,* | --         | U   | --         | U    | --         | U | --         | U | --         | U | --         | U |
| Chlorobenzene                                  | 5.0 ug/l      | --         | U   | --         | U   | --         | U    | --         | U | --         | U | --         | U | --         | U |
| Chloroform                                     | 7.0 ug/l      | --         | U   | --         | U   | --         | U    | --         | U | --         | U | --         | U | --         | U |
| Cis-1,2-Dichloroethylene                       | 5.0 ug/l      | 21         |     | 1.6        |     | 140        |      | 242        |   | 1450       |   | 1,990      |   | 70         |   |
| Ethylbenzene                                   | 5.0 ug/l      | --         | U   | --         | U   | --         | U    | --         | U | --         | U | --         | U | --         | U |
| Methylene Chloride                             | 5.0 ug/l      | --         | U   | --         | U   | --         | U    | --         | U | --         | U | --         | U | --         | U |
| Tetrachloroethylene (PCE)                      | 5.0 ug/l      | --         | U   | --         | U   | --         | U    | --         | U | --         | U | --         | U | --         | U |
| Toluene                                        | 5.0 ug/l      | 8.1        |     | 6.9        |     | 8.0        | J    | 4.90       |   | --         | U | --         | U | 4.6        |   |
| Trans-1,2-Dichloroethene                       | 5.0 ug/l      | 39         |     | --         | U   | --         | U    | --         | U | --         | U | 10.2       |   | 2.2        |   |
| Trichloroethylene (TCE)                        | 5.0 ug/l      | 0.79       | J   | --         | U   | --         | U    | 17.2       |   | 84.4       |   | 229        |   | 2.1        |   |
| Vinyl Chloride                                 | 2.0 ug/l      | 1800       | E   | 120        | E   | 790        | ^,F1 | 134        |   | 751        |   | 861        |   | 110        |   |
| Xylenes                                        | 5.0 ug/l      | 2.3        |     | 1.1        | J   | --         | U    |            |   |            |   |            |   | 1.1        | J |

TABLE NOTES

WG - Groundwater  
ug/l - micrograms per liter  
S.U. - Standard Unit

Qualifier Key

J - Result is less than the Reporting Limit but greater than or equal to the Method Detection Limit and the concentration is an approximate value.  
NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.  
C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

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.)

I - The lower value for the two columns has been reported due to obvious interference.  
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.  
A - Spectra identified as "Aldol Condensation Product".  
E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.  
H- The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.  
F - Denotes a parameter for which Paradigm does not carry cerification, the results for which should therefore only be used where ELAP certification is required, such as personal exposure assessment.  
RE - Analytical results are from sample re-extraction.  
R - Analytical results are from sample re-analysis.  
D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.  
P - The RPD between the results for the two columns exceeds the method-specified criteria.  
U - Not detected at the reported detection limit for the sample.  
M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.  
S - Analytical results are from modified screening analysis.

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).  
\* - Indicates any recoveries outside associated acceptance windows. Surrogate ouliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.  
< - Analyzed for but not detected at or above the quantitation limit  
1 - Indicates data from primary column used for QC calculation.

**TABLE 3: CHANGE IN TOTAL VOC CONCENTRATIONS  
FORMER DOWCRAFT FACILITY  
FALCONER, NEW YORK**

| <i>Monitoring Well</i> | <i>Total VOC Concentration (ug/L)</i> |               |               |               |               |               |               | <i>Percent Change<br/>Oct. 2014 to May<br/>2018</i> |
|------------------------|---------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|-----------------------------------------------------|
|                        | <i>Oct-14</i>                         | <i>Apr-15</i> | <i>Nov-15</i> | <i>Apr-16</i> | <i>Oct-16</i> | <i>Apr-17</i> | <i>May-18</i> |                                                     |
| ESI-1                  | 8.9                                   | 19.4          | 12            | 4.89          | 6.52          | 3.68          | 4.4           | -50.56%                                             |
| ESI-2                  | 816.08                                | 987.9         | 6,151         | 6,839         | 895           | --            | 957           | 17.27%                                              |
| ESI-3                  | 4.8                                   | 2.5           | 4.8           | 1.06          | 8.39          | 0             | 0.3           | -100%                                               |
| ESI-6                  | 575.22                                | 2,020         | 3,281.70      | 1,267.70      | 1,697.10      | 612           | 49.1          | -91.46%                                             |
| ESI-7                  | 208.39                                | 103           | 69            | 51.2          | 137.36        | 36.35         | 82            | -60.65%                                             |
| ESI-10 <sup>1</sup>    | 352.11                                | 8.5           | 5.9           | 7.16          | 7.11          | 3.01          | 0.94          | -99.73%                                             |
| ESI-11 <sup>1</sup>    | 157                                   | 3.9           | 7             | 32.4          | 0             | 5.87          | 2.6           | -98.34%                                             |
| ESI-12 <sup>1</sup>    | 221.48                                | 11.74         | 5.6           | 5.85          | 5.85          | 14.2          | 3             | -98.65%                                             |
| ESI-13R                | 40                                    | 64            | 27.3          | 28.51         | 28.28         | 7.37          | 8.6           | -78.50%                                             |
| PW-1                   | 16.9                                  | 12.1          | 13.4          | 11.99         | 29.24         | 20.36         | 0.84          | -95.0%                                              |
| PW-3R                  | 2,609.30                              | 147.71        | 938           | 409.4         | 2285.4        | 3090.2        | 199           | -92.37%                                             |

<sup>1</sup> Only bromoform and dibromochloromethane was detected in the sample and results were below NYSDEC standards.



| TABLE 4: FIELD PARAMETER SUMMARY<br>FORMER DOWCRAFT FACILITY<br>FALCONER, NEW YORK |          |          |               |              |             |                                     |                    |                               |
|------------------------------------------------------------------------------------|----------|----------|---------------|--------------|-------------|-------------------------------------|--------------------|-------------------------------|
| Well ID                                                                            | Date     | Time     | Temp.<br>(°C) | pH<br>(s.u.) | ORP<br>(mV) | Specific<br>Conductivity<br>(mS/cm) | Turbidity<br>(NTU) | Dissolved<br>Oxygen<br>(mg/L) |
| ESI-3                                                                              | 5/7/2018 | 8:44:41  | 11.31         | 7.02         | 31          | 1.17                                | 202                | 12.22                         |
|                                                                                    |          | 8:45:11  | 10.51         | 7.06         | 47          | 1.21                                | 85.8               | 12.45                         |
|                                                                                    |          | 8:45:41  | 10.18         | 7.08         | 56          | 1.23                                | 36.8               | 12.1                          |
|                                                                                    |          | 8:46:11  | 10            | 7.1          | 63          | 1.23                                | 25.1               | 11.72                         |
|                                                                                    |          | 8:46:41  | 9.9           | 7.1          | 69          | 1.24                                | 19.9               | 11.39                         |
|                                                                                    |          | 8:47:11  | 9.82          | 7.11         | 73          | 1.24                                | 15.7               | 11.11                         |
|                                                                                    |          | 8:47:41  | 9.9           | 7.12         | 77          | 1.23                                | 14.7               | 10.81                         |
|                                                                                    |          | 8:48:11  | 10.12         | 7.12         | 79          | 1.24                                | 13.4               | 10.45                         |
|                                                                                    |          | 8:48:41  | 10.33         | 7.12         | 82          | 1.23                                | 13.5               | 10.25                         |
|                                                                                    |          | 8:49:11  | 10.51         | 7.12         | 84          | 1.23                                | 12.9               | 10.1                          |
|                                                                                    |          | 8:49:41  | 10.63         | 7.12         | 85          | 1.23                                | 11.8               | 10.03                         |
|                                                                                    |          | 8:50:11  | 10.69         | 7.13         | 87          | 1.23                                | 10.6               | 10.07                         |
|                                                                                    |          | 8:50:41  | 10.71         | 7.12         | 89          | 1.23                                | 9.52               | 10.09                         |
|                                                                                    |          | 8:51:11  | 10.75         | 7.13         | 90          | 1.23                                | 8.41               | 10.06                         |
| PW-1                                                                               | 5/7/2018 | 9:55:41  | 12.61         | 7.11         | 68          | 1.28                                | 148                | 8.36                          |
|                                                                                    |          | 9:56:11  | 12.63         | 7.1          | 68          | 1.28                                | 148                | 8.33                          |
|                                                                                    |          | 9:56:41  | 12.61         | 7.1          | 69          | 1.28                                | 147                | 8.32                          |
|                                                                                    |          | 9:57:11  | 12.61         | 7.09         | 69          | 1.28                                | 145                | 8.31                          |
|                                                                                    |          | 9:57:41  | 12.61         | 7.09         | 70          | 1.28                                | 143                | 8.29                          |
|                                                                                    |          | 9:58:11  | 12.6          | 7.09         | 70          | 1.28                                | 141                | 8.28                          |
|                                                                                    |          | 9:58:41  | 12.58         | 7.08         | 70          | 1.28                                | 138                | 8.28                          |
|                                                                                    |          | 9:59:11  | 12.58         | 7.08         | 71          | 1.28                                | 132                | 8.29                          |
|                                                                                    |          | 9:59:41  | 12.58         | 7.08         | 71          | 1.28                                | 134                | 8.29                          |
|                                                                                    |          | 10:00:11 | 12.6          | 7.08         | 71          | 1.28                                | 132                | 8.26                          |
|                                                                                    |          | 10:00:41 | 12.63         | 7.08         | 71          | 1.28                                | 128                | 8.26                          |
|                                                                                    |          | 10:01:11 | 12.61         | 7.08         | 71          | 1.28                                | 129                | 8.26                          |
|                                                                                    |          | 10:01:41 | 12.58         | 7.08         | 71          | 1.28                                | 126                | 8.25                          |
|                                                                                    |          | 10:02:11 | 12.57         | 7.08         | 72          | 1.28                                | 119                | 8.25                          |
|                                                                                    |          | 10:02:41 | 12.56         | 7.08         | 72          | 1.27                                | 121                | 8.24                          |
|                                                                                    |          | 10:03:11 | 12.53         | 7.08         | 72          | 1.27                                | 121                | 8.24                          |
|                                                                                    |          | 10:03:41 | 12.51         | 7.08         | 72          | 1.27                                | 120                | 8.24                          |
|                                                                                    |          | 10:04:11 | 12.55         | 7.08         | 72          | 1.28                                | 120                | 8.23                          |
|                                                                                    |          | 10:04:41 | 12.6          | 7.08         | 72          | 1.28                                | 116                | 8.21                          |
|                                                                                    |          | 10:05:11 | 12.64         | 7.08         | 72          | 1.27                                | 117                | 8.21                          |
|                                                                                    |          | 10:05:41 | 12.65         | 7.08         | 72          | 1.27                                | 116                | 8.06                          |
|                                                                                    |          | 10:06:11 | 12.65         | 7.08         | 72          | 1.27                                | 115                | 8.06                          |
| ESI-12                                                                             | 5/7/2018 | 10:48:38 | 16.22         | 7.88         | 432         | 0.965                               | 133                | 7.16                          |
|                                                                                    |          | 10:49:08 | 15.59         | 7.8          | 452         | 0.961                               | 118                | 6.46                          |
|                                                                                    |          | 10:49:38 | 15.14         | 7.74         | 463         | 0.968                               | 102                | 6.34                          |
|                                                                                    |          | 10:50:08 | 14.85         | 7.7          | 471         | 0.973                               | 94.4               | 6.28                          |
|                                                                                    |          | 10:50:38 | 14.64         | 7.66         | 478         | 0.978                               | 88.5               | 6.26                          |
|                                                                                    |          | 10:51:08 | 14.42         | 7.63         | 484         | 0.983                               | 80                 | 6.33                          |
|                                                                                    |          | 10:51:38 | 14.28         | 7.6          | 490         | 0.988                               | 74.1               | 6.36                          |
|                                                                                    |          | 10:52:08 | 14.15         | 7.58         | 495         | 0.991                               | 68.9               | 6.37                          |
|                                                                                    |          | 10:52:38 | 14.07         | 7.55         | 499         | 0.994                               | 63.4               | 6.38                          |
|                                                                                    |          | 10:53:08 | 14.01         | 7.53         | 503         | 0.997                               | 57.4               | 6.39                          |
|                                                                                    |          | 10:53:38 | 13.93         | 7.51         | 507         | 0.999                               | 57                 | 6.4                           |
|                                                                                    |          | 10:54:08 | 13.88         | 7.5          | 511         | 1                                   | 49.5               | 6.41                          |
|                                                                                    |          | 10:54:38 | 13.7          | 7.34         | 522         | 1.01                                | 49.3               | 6.47                          |
|                                                                                    |          | 10:55:08 | 13.65         | 7.38         | 522         | 1.01                                | 38.4               | 6.52                          |
|                                                                                    |          | 10:55:38 | 13.7          | 7.42         | 522         | 1.01                                | 33.1               | 6.46                          |
|                                                                                    |          | 10:56:08 | 13.7          | 7.42         | 522         | 1.01                                | 38.3               | 6.47                          |
|                                                                                    |          | 10:56:38 | 13.69         | 7.42         | 524         | 1.01                                | 38.1               | 6.46                          |
|                                                                                    |          | 10:57:08 | 13.69         | 7.25         | 537         | 1.01                                | 39.5               | 6.45                          |
|                                                                                    |          | 10:57:38 | 13.7          | 7.16         | 544         | 1.01                                | 39                 | 6.44                          |
|                                                                                    |          | 10:58:08 | 13.72         | 7.13         | 548         | 1.02                                | 38.1               | 6.42                          |
| ESI-11                                                                             | 5/7/2018 | 11:26:16 | 17.89         | 8.35         | 455         | 0.997                               | 631                | 7.83                          |
|                                                                                    |          | 11:26:46 | 16.49         | 7.98         | 533         | 1.07                                | 573                | 2.44                          |
|                                                                                    |          | 11:27:16 | 16.27         | 7.85         | 550         | 1.07                                | 497                | 1.45                          |
|                                                                                    |          | 11:27:46 | 15.73         | 7.76         | 562         | 1.08                                | 391                | 1.16                          |
|                                                                                    |          | 11:28:16 | 15.34         | 7.71         | 571         | 1.07                                | 339                | 0.93                          |
|                                                                                    |          | 11:28:46 | 15.07         | 7.66         | 577         | 1.07                                | 285                | 0.82                          |
|                                                                                    |          | 11:29:16 | 14.93         | 7.62         | 581         | 1.06                                | 252                | 0.79                          |
|                                                                                    |          | 11:29:46 | 14.82         | 7.58         | 584         | 1.05                                | 222                | 0.8                           |
|                                                                                    |          | 11:30:16 | 14.73         | 7.55         | 587         | 1.03                                | 192                | 0.8                           |
|                                                                                    |          | 11:30:46 | 14.69         | 7.53         | 589         | 1.02                                | 176                | 0.79                          |
|                                                                                    |          | 11:31:16 | 14.63         | 7.5          | 591         | 1.02                                | 165                | 0.77                          |
|                                                                                    |          | 11:31:46 | 14.6          | 7.47         | 592         | 1.01                                | 154                | 0.76                          |
|                                                                                    |          | 11:32:16 | 14.58         | 7.45         | 593         | 1                                   | 141                | 0.75                          |
|                                                                                    |          | 11:32:46 | 14.54         | 7.43         | 594         | 1                                   | 130                | 0.74                          |
|                                                                                    |          | 11:33:16 | 14.5          | 7.31         | 601         | 0.996                               | 117                | 0.73                          |
|                                                                                    |          | 11:33:46 | 14.5          | 7.28         | 602         | 0.993                               | 106                | 0.71                          |
|                                                                                    |          | 11:34:16 | 14.48         | 7.25         | 603         | 0.99                                | 96.5               | 0.71                          |
|                                                                                    |          | 11:34:46 | 14.47         | 7.23         | 604         | 0.987                               | 93.4               | 0.7                           |

| TABLE 4: FIELD PARAMETER SUMMARY<br>FORMER DOWCRAFT FACILITY<br>FALCONER, NEW YORK |          |          |               |              |             |                                     |                    |                               |
|------------------------------------------------------------------------------------|----------|----------|---------------|--------------|-------------|-------------------------------------|--------------------|-------------------------------|
| Well ID                                                                            | Date     | Time     | Temp.<br>(°C) | pH<br>(s.u.) | ORP<br>(mV) | Specific<br>Conductivity<br>(mS/cm) | Turbidity<br>(NTU) | Dissolved<br>Oxygen<br>(mg/L) |
|                                                                                    |          | 11:35:16 | 14.42         | 7.2          | 605         | 0.986                               | 92.6               | 0.7                           |
|                                                                                    |          | 11:35:46 | 14.43         | 7.18         | 606         | 0.984                               | 87.1               | 0.7                           |
|                                                                                    |          | 11:36:16 | 14.44         | 7.16         | 607         | 0.982                               | 79.4               | 0.7                           |
|                                                                                    |          | 11:36:46 | 14.42         | 7.14         | 608         | 0.98                                | 76                 | 0.69                          |
|                                                                                    |          | 11:37:16 | 14.41         | 7.12         | 609         | 0.98                                | 74                 | 0.69                          |
|                                                                                    |          | 11:37:46 | 14.4          | 7.1          | 610         | 0.979                               | 70.2               | 0.69                          |
|                                                                                    |          | 11:38:16 | 14.39         | 7.09         | 611         | 0.977                               | 64.9               | 0.69                          |
|                                                                                    |          | 11:38:46 | 14.46         | 7.06         | 612         | 0.976                               | 68.3               | 0.68                          |
|                                                                                    |          | 11:39:16 | 14.49         | 7.06         | 612         | 0.975                               | 61.8               | 0.68                          |
|                                                                                    |          | 11:39:46 | 14.49         | 7.06         | 612         | 0.974                               | 51.1               | 0.68                          |
|                                                                                    |          | 11:40:16 | 14.52         | 6.96         | 617         | 0.973                               | 52.9               | 0.67                          |
|                                                                                    |          | 11:40:46 | 14.55         | 6.95         | 617         | 0.973                               | 56.7               | 0.66                          |
| ESI-10                                                                             | 5/7/2018 | 12:22:27 | 17.77         | 8.03         | 458         | 0.801                               | 826                | 4.14                          |
|                                                                                    |          | 12:22:57 | 16.63         | 7.74         | 529         | 0.805                               | 832                | 1.73                          |
|                                                                                    |          | 12:23:27 | 16.01         | 7.55         | 565         | 0.809                               | 806                | 1.17                          |
|                                                                                    |          | 12:23:57 | 15.51         | 7.43         | 587         | 0.813                               | 737                | 1                             |
|                                                                                    |          | 12:24:27 | 15.21         | 7.33         | 602         | 0.816                               | 621                | 0.91                          |
|                                                                                    |          | 12:24:57 | 14.97         | 7.25         | 613         | 0.819                               | 506                | 0.84                          |
|                                                                                    |          | 12:25:27 | 14.75         | 7.17         | 621         | 0.824                               | 422                | 0.8                           |
|                                                                                    |          | 12:25:57 | 14.65         | 7.11         | 628         | 0.826                               | 365                | 0.76                          |
|                                                                                    |          | 12:26:27 | 14.55         | 7.05         | 634         | 0.828                               | 320                | 0.73                          |
|                                                                                    |          | 12:26:57 | 14.52         | 7            | 638         | 0.829                               | 280                | 0.7                           |
|                                                                                    |          | 12:27:27 | 14.42         | 6.95         | 642         | 0.833                               | 245                | 0.67                          |
|                                                                                    |          | 12:27:57 | 14.34         | 6.9          | 646         | 0.835                               | 217                | 0.69                          |
|                                                                                    |          | 12:28:27 | 14.3          | 6.86         | 649         | 0.839                               | 188                | 0.81                          |
|                                                                                    |          | 12:28:57 | 14.28         | 6.82         | 652         | 0.841                               | 168                | 0.83                          |
|                                                                                    |          | 12:29:27 | 14.25         | 6.79         | 654         | 0.843                               | 156                | 0.83                          |
|                                                                                    |          | 12:29:57 | 14.19         | 6.76         | 656         | 0.845                               | 144                | 0.83                          |
|                                                                                    |          | 12:30:27 | 14.17         | 6.73         | 657         | 0.847                               | 133                | 0.82                          |
|                                                                                    |          | 12:30:57 | 14.15         | 6.7          | 659         | 0.849                               | 124                | 0.81                          |
|                                                                                    |          | 12:31:27 | 14.14         | 6.68         | 660         | 0.851                               | 115                | 0.81                          |
|                                                                                    |          | 12:31:57 | 14.15         | 6.65         | 661         | 0.852                               | 108                | 0.8                           |
|                                                                                    |          | 12:32:27 | 14.11         | 6.63         | 662         | 0.854                               | 101                | 0.79                          |
|                                                                                    |          | 12:32:57 | 14.09         | 6.61         | 662         | 0.856                               | 94.7               | 0.78                          |
|                                                                                    |          | 12:33:27 | 14.03         | 6.59         | 663         | 0.859                               | 86                 | 0.78                          |
|                                                                                    |          | 12:33:57 | 14.05         | 6.57         | 664         | 0.861                               | 80.4               | 0.77                          |
|                                                                                    |          | 12:34:27 | 14.01         | 6.55         | 664         | 0.864                               | 74.2               | 0.76                          |
|                                                                                    |          | 12:34:57 | 14.02         | 6.54         | 664         | 0.867                               | 73                 | 0.75                          |
|                                                                                    |          | 12:35:27 | 14.01         | 6.53         | 664         | 0.87                                | 70                 | 0.75                          |
|                                                                                    |          | 12:35:57 | 14.02         | 6.52         | 664         | 0.873                               | 64.6               | 0.74                          |
|                                                                                    |          | 12:36:27 | 14.01         | 6.51         | 664         | 0.874                               | 60.9               | 0.73                          |
| ESI-1                                                                              | 5/7/2018 | 14:01:55 | 12.96         | 7.37         | 479         | 0.84                                | 502                | 7.36                          |
|                                                                                    |          | 14:02:25 | 13.13         | 7.37         | 479         | 0.839                               | 487                | 7.18                          |
|                                                                                    |          | 14:02:55 | 13.28         | 7.36         | 479         | 0.837                               | 479                | 7.03                          |
|                                                                                    |          | 14:03:25 | 13.43         | 7.36         | 479         | 0.836                               | 461                | 6.9                           |
|                                                                                    |          | 14:03:55 | 13.56         | 7.35         | 479         | 0.835                               | 470                | 6.79                          |
|                                                                                    |          | 14:04:25 | 13.68         | 7.35         | 479         | 0.835                               | 462                | 6.71                          |
|                                                                                    |          | 14:04:55 | 13.8          | 7.35         | 479         | 0.835                               | 452                | 6.64                          |
|                                                                                    |          | 14:05:25 | 13.92         | 7.34         | 479         | 0.834                               | 449                | 6.56                          |
|                                                                                    |          | 14:05:55 | 14.04         | 7.34         | 479         | 0.834                               | 436                | 6.5                           |
|                                                                                    |          | 14:06:25 | 14.15         | 7.34         | 479         | 0.834                               | 444                | 6.43                          |
|                                                                                    |          | 14:06:55 | 14.26         | 7.33         | 478         | 0.834                               | 433                | 6.36                          |
|                                                                                    |          | 14:07:25 | 14.36         | 7.33         | 478         | 0.834                               | 431                | 6.31                          |
|                                                                                    |          | 14:07:55 | 14.46         | 7.33         | 478         | 0.834                               | 428                | 6.26                          |
|                                                                                    |          | 14:08:25 | 14.57         | 7.33         | 478         | 0.834                               | 427                | 6.21                          |
|                                                                                    |          | 14:08:55 | 14.66         | 7.32         | 478         | 0.834                               | 425                | 6.17                          |
|                                                                                    |          | 14:09:25 | 14.76         | 7.32         | 478         | 0.834                               | 419                | 6.12                          |
|                                                                                    |          | 14:09:55 | 14.86         | 7.32         | 478         | 0.834                               | 416                | 6.08                          |
|                                                                                    |          | 14:10:25 | 14.95         | 7.31         | 478         | 0.834                               | 408                | 6.03                          |
|                                                                                    |          | 14:10:55 | 15.05         | 7.31         | 477         | 0.834                               | 404                | 5.98                          |
|                                                                                    |          | 14:11:25 | 15.14         | 7.31         | 477         | 0.834                               | 413                | 5.93                          |
| ESI-7                                                                              | 5/7/2018 | 14:11:55 | 15.23         | 7.31         | 477         | 0.834                               | 401                | 5.88                          |
|                                                                                    |          | 14:35:48 | 21.08         | 8.35         | 322         | 0.606                               | 681                | 7.96                          |
|                                                                                    |          | 14:36:18 | 18.06         | 8.11         | 348         | 0.684                               | 524                | 8.34                          |
|                                                                                    |          | 14:36:48 | 17.33         | 8            | 366         | 0.693                               | 401                | 8.28                          |
|                                                                                    |          | 14:37:18 | 16.82         | 7.94         | 380         | 0.697                               | 321                | 8.22                          |
|                                                                                    |          | 14:37:48 | 16.42         | 7.89         | 391         | 0.7                                 | 279                | 8.19                          |
|                                                                                    |          | 14:38:18 | 16.29         | 7.85         | 401         | 0.7                                 | 235                | 8.1                           |
|                                                                                    |          | 14:38:48 | 16.14         | 7.82         | 409         | 0.701                               | 209                | 8.07                          |
|                                                                                    |          | 14:39:18 | 16.12         | 7.78         | 417         | 0.702                               | 195                | 8.04                          |
|                                                                                    |          | 14:39:48 | 16.03         | 7.75         | 423         | 0.701                               | 169                | 8.15                          |
|                                                                                    |          | 14:40:18 | 15.97         | 7.73         | 429         | 0.701                               | 148                | 8.18                          |
|                                                                                    |          | 14:40:48 | 15.91         | 7.7          | 433         | 0.7                                 | 144                | 8.21                          |
|                                                                                    |          | 14:41:18 | 15.85         | 7.68         | 438         | 0.698                               | 120                | 8.22                          |



| TABLE 4: FIELD PARAMETER SUMMARY<br>FORMER DOWCRAFT FACILITY<br>FALCONER, NEW YORK |          |          |               |              |             |                                     |                    |                               |
|------------------------------------------------------------------------------------|----------|----------|---------------|--------------|-------------|-------------------------------------|--------------------|-------------------------------|
| Well ID                                                                            | Date     | Time     | Temp.<br>(°C) | pH<br>(s.u.) | ORP<br>(mV) | Specific<br>Conductivity<br>(mS/cm) | Turbidity<br>(NTU) | Dissolved<br>Oxygen<br>(mg/L) |
|                                                                                    |          | 14:41:48 | 15.78         | 7.66         | 442         | 0.696                               | 110                | 8.21                          |
|                                                                                    |          | 14:42:18 | 15.7          | 7.64         | 445         | 0.694                               | 94.8               | 8.21                          |
|                                                                                    |          | 14:42:48 | 15.62         | 7.62         | 448         | 0.694                               | 92.3               | 8.22                          |
|                                                                                    |          | 14:43:18 | 15.53         | 7.6          | 451         | 0.694                               | 77.9               | 8.26                          |
|                                                                                    |          | 14:43:48 | 15.53         | 7.59         | 453         | 0.693                               | 68.8               | 8.26                          |
|                                                                                    |          | 14:44:18 | 15.54         | 7.57         | 455         | 0.693                               | 59.8               | 8.26                          |
|                                                                                    |          | 14:44:48 | 15.54         | 7.55         | 458         | 0.693                               | 53.7               | 8.27                          |
|                                                                                    |          | 14:45:18 | 15.57         | 7.54         | 459         | 0.692                               | 50.1               | 8.28                          |
|                                                                                    |          | 14:45:48 | 15.58         | 7.53         | 461         | 0.691                               | 45.5               | 8.28                          |
|                                                                                    |          | 14:46:18 | 15.62         | 7.51         | 463         | 0.69                                | 39.7               | 8.28                          |
|                                                                                    |          | 14:46:48 | 15.63         | 7.5          | 464         | 0.688                               | 39.8               | 8.28                          |
|                                                                                    |          | 14:47:18 | 15.61         | 7.47         | 466         | 0.687                               | 37.3               | 8.26                          |
| ESI-13R                                                                            | 5/8/2018 | 10:16:48 | 11.72         | 7.22         | 453         | 0.699                               | 201                | 7.84                          |
|                                                                                    |          | 10:17:18 | 11.76         | 7.21         | 453         | 0.699                               | 189                | 7.83                          |
|                                                                                    |          | 10:17:48 | 11.8          | 7.21         | 453         | 0.7                                 | 180                | 7.82                          |
|                                                                                    |          | 10:18:18 | 11.83         | 7.21         | 453         | 0.7                                 | 173                | 7.82                          |
|                                                                                    |          | 10:18:48 | 11.86         | 7.2          | 453         | 0.7                                 | 164                | 7.81                          |
|                                                                                    |          | 10:19:18 | 11.89         | 7.2          | 453         | 0.701                               | 155                | 7.82                          |
|                                                                                    |          | 10:19:48 | 11.93         | 7.19         | 452         | 0.7                                 | 155                | 7.79                          |
|                                                                                    |          | 10:20:18 | 11.94         | 7.19         | 452         | 0.7                                 | 146                | 7.8                           |
|                                                                                    |          | 10:20:48 | 11.98         | 7.19         | 452         | 0.699                               | 147                | 7.77                          |
|                                                                                    |          | 10:21:18 | 11.99         | 7.19         | 452         | 0.699                               | 134                | 7.8                           |
|                                                                                    |          | 10:21:48 | 12            | 7.18         | 452         | 0.699                               | 132                | 7.82                          |
|                                                                                    |          | 10:22:18 | 12.06         | 7.18         | 452         | 0.698                               | 131                | 7.78                          |
|                                                                                    |          | 10:22:48 | 12.05         | 7.18         | 452         | 0.698                               | 124                | 7.78                          |
|                                                                                    |          | 10:23:18 | 12.06         | 7.18         | 451         | 0.697                               | 112                | 7.77                          |
|                                                                                    |          | 10:23:48 | 12.08         | 7.17         | 451         | 0.698                               | 109                | 7.75                          |
|                                                                                    |          | 10:24:18 | 12.13         | 7.17         | 451         | 0.697                               | 102                | 7.75                          |
|                                                                                    |          | 10:24:48 | 12.17         | 7.15         | 452         | 0.696                               | 105                | 7.7                           |
|                                                                                    |          | 10:25:18 | 12.17         | 7.14         | 452         | 0.698                               | 99.3               | 7.74                          |
|                                                                                    |          | 10:25:48 | 12.24         | 7.14         | 453         | 0.697                               | 100                | 7.72                          |
|                                                                                    |          | 10:26:18 | 12.38         | 7.13         | 453         | 0.695                               | 22.9               | 7.7                           |
| ESI-6                                                                              | 5/8/2018 | 11:03:14 | 12.18         | 7.55         | 598         | 1.24                                | 98.5               | 1.22                          |
|                                                                                    |          | 11:03:44 | 12.16         | 7.54         | 598         | 1.24                                | 89.4               | 1.21                          |
|                                                                                    |          | 11:04:14 | 12.17         | 7.53         | 598         | 1.23                                | 81.1               | 1.21                          |
|                                                                                    |          | 11:04:44 | 12.15         | 7.51         | 598         | 1.23                                | 71.7               | 1.19                          |
|                                                                                    |          | 11:05:14 | 12.1          | 7.5          | 599         | 1.23                                | 69.5               | 1.19                          |
|                                                                                    |          | 11:05:44 | 12.11         | 7.49         | 598         | 1.23                                | 64.7               | 1.18                          |
|                                                                                    |          | 11:06:14 | 12.11         | 7.48         | 598         | 1.23                                | 57.6               | 1.18                          |
|                                                                                    |          | 11:06:44 | 12.13         | 7.47         | 597         | 1.23                                | 54.5               | 1.18                          |
|                                                                                    |          | 11:07:14 | 12.14         | 7.45         | 597         | 1.23                                | 49.9               | 1.17                          |
|                                                                                    |          | 11:07:44 | 12.14         | 7.44         | 597         | 1.23                                | 46.5               | 1.17                          |
|                                                                                    |          | 11:08:14 | 12.1          | 7.44         | 597         | 1.23                                | 44                 | 1.17                          |
|                                                                                    |          | 11:08:44 | 12.13         | 7.42         | 597         | 1.23                                | 41.6               | 1.17                          |
|                                                                                    |          | 11:09:14 | 12.16         | 7.41         | 597         | 1.23                                | 39.4               | 1.17                          |
|                                                                                    |          | 11:09:44 | 12.15         | 7.39         | 598         | 1.23                                | 38                 | 1.17                          |
|                                                                                    |          | 11:10:14 | 12.18         | 7.37         | 598         | 1.23                                | 36.7               | 1.17                          |
|                                                                                    |          | 11:10:44 | 12.19         | 7.35         | 599         | 1.23                                | 36.4               | 1.17                          |
|                                                                                    |          | 11:11:14 | 12.14         | 7.34         | 599         | 1.23                                | 35.3               | 1.17                          |
|                                                                                    |          | 11:11:44 | 12.17         | 7.32         | 599         | 1.23                                | 35.3               | 1.17                          |
|                                                                                    |          | 11:12:14 | 12.2          | 7.31         | 600         | 1.23                                | 34.9               | 1.17                          |
|                                                                                    |          | 11:12:44 | 12.17         | 7.29         | 600         | 1.23                                | 35.2               | 1.17                          |
|                                                                                    |          | 11:13:14 | 12.22         | 7.27         | 601         | 1.23                                | 35.2               | 1.17                          |
| ESI-2                                                                              | 5/8/2018 | 11:42:15 | 15.98         | 8.46         | 556         | 1.23                                | 575                | 1.92                          |
|                                                                                    |          | 11:42:45 | 15.34         | 8.32         | 575         | 1.23                                | 497                | 1.85                          |
|                                                                                    |          | 11:43:15 | 15.17         | 8.22         | 587         | 1.24                                | 426                | 1.81                          |
|                                                                                    |          | 11:43:45 | 14.87         | 8.15         | 594         | 1.24                                | 382                | 1.91                          |
|                                                                                    |          | 11:44:15 | 14.68         | 8.08         | 599         | 1.24                                | 343                | 2.01                          |
|                                                                                    |          | 11:44:45 | 14.46         | 8.03         | 602         | 1.24                                | 304                | 2.14                          |
|                                                                                    |          | 11:45:15 | 14.23         | 8            | 604         | 1.24                                | 252                | 2.35                          |
|                                                                                    |          | 11:45:45 | 14.05         | 7.96         | 606         | 1.24                                | 214                | 2.77                          |
|                                                                                    |          | 11:46:15 | 13.86         | 7.93         | 607         | 1.24                                | 185                | 2.93                          |
|                                                                                    |          | 11:46:45 | 13.7          | 7.9          | 607         | 1.24                                | 164                | 3.05                          |
|                                                                                    |          | 11:47:15 | 13.62         | 7.88         | 608         | 1.24                                | 143                | 3.12                          |
|                                                                                    |          | 11:47:45 | 13.47         | 7.85         | 608         | 1.24                                | 128                | 3.2                           |
|                                                                                    |          | 11:48:15 | 13.38         | 7.83         | 608         | 1.24                                | 113                | 3.26                          |
|                                                                                    |          | 11:48:45 | 13.38         | 7.81         | 608         | 1.24                                | 102                | 3.3                           |
|                                                                                    |          | 11:49:15 | 13.33         | 7.78         | 608         | 1.25                                | 91.5               | 3.34                          |
|                                                                                    |          | 11:49:45 | 13.27         | 7.76         | 608         | 1.25                                | 83.5               | 3.39                          |
|                                                                                    |          | 11:50:15 | 13.27         | 7.74         | 607         | 1.25                                | 76.1               | 3.41                          |
|                                                                                    |          | 11:50:45 | 13.23         | 7.72         | 607         | 1.25                                | 68.8               | 3.44                          |
|                                                                                    |          | 11:51:15 | 13.24         | 7.7          | 607         | 1.25                                | 63.4               | 3.47                          |
|                                                                                    |          | 11:51:45 | 13.21         | 7.68         | 606         | 1.25                                | 58.9               | 3.5                           |
|                                                                                    |          | 11:52:15 | 13.23         | 7.66         | 605         | 1.25                                | 53.7               | 3.53                          |

TABLE 4: FIELD PARAMETER SUMMARY  
FORMER DOWCRAFT FACILITY  
FALCONER, NEW YORK

| Well ID | Date     | Time     | Temp.<br>(°C) | pH<br>(s.u.) | ORP<br>(mV) | Specific<br>Conductivity<br>(mS/cm) | Turbidity<br>(NTU) | Dissolved<br>Oxygen<br>(mg/L) |
|---------|----------|----------|---------------|--------------|-------------|-------------------------------------|--------------------|-------------------------------|
|         |          | 11:52:45 | 13.24         | 7.64         | 605         | 1.25                                | 50                 | 3.55                          |
|         |          | 11:53:15 | 13.23         | 7.63         | 604         | 1.25                                | 46                 | 3.56                          |
|         |          | 11:53:45 | 13.17         | 7.61         | 604         | 1.25                                | 42.6               | 3.59                          |
|         |          | 11:54:15 | 13.19         | 7.6          | 604         | 1.25                                | 39.9               | 3.61                          |
|         |          | 11:54:45 | 13.18         | 7.58         | 603         | 1.25                                | 38.7               | 3.63                          |
|         |          | 11:55:15 | 13.18         | 7.57         | 602         | 1.25                                | 35.9               | 3.65                          |
|         |          | 11:55:45 | 13.16         | 7.55         | 602         | 1.25                                | 34.1               | 3.67                          |
|         |          | 11:56:15 | 13.15         | 7.53         | 602         | 1.25                                | 32.1               | 3.69                          |
| PW-3R   | 5/8/2018 | 12:51:33 | 11.5          | 6.95         | -53         | 1.67                                | 78.4               | 1.8                           |
|         |          | 12:52:03 | 11.49         | 6.93         | -53         | 1.68                                | 76.4               | 1.79                          |
|         |          | 12:52:33 | 11.45         | 6.92         | -53         | 1.68                                | 75.5               | 1.78                          |
|         |          | 12:53:03 | 11.43         | 6.89         | -52         | 1.68                                | 70.6               | 1.78                          |
|         |          | 12:53:33 | 11.45         | 6.92         | -54         | 1.68                                | 70.4               | 1.77                          |
|         |          | 12:54:03 | 11.38         | 6.91         | -55         | 1.67                                | 68                 | 1.77                          |
|         |          | 12:54:33 | 11.38         | 6.9          | -55         | 1.67                                | 68.3               | 1.76                          |
|         |          | 12:55:03 | 11.36         | 6.9          | -55         | 1.67                                | 71.4               | 1.76                          |
|         |          | 12:55:33 | 11.36         | 6.9          | -56         | 1.68                                | 68.4               | 1.75                          |
|         |          | 12:56:03 | 11.35         | 6.9          | -57         | 1.68                                | 68.5               | 1.74                          |
|         |          | 12:56:33 | 11.32         | 6.9          | -57         | 1.68                                | 65.1               | 1.74                          |
|         |          | 12:57:03 | 11.24         | 6.9          | -57         | 1.68                                | 72.1               | 1.74                          |
|         |          | 12:57:33 | 11.43         | 6.92         | -59         | 1.68                                | 71.5               | 1.71                          |
|         |          | 12:58:03 | 11.7          | 6.92         | -59         | 1.67                                | 79.1               | 1.68                          |
|         |          | 12:58:33 | 11.83         | 6.91         | -60         | 1.67                                | 81                 | 1.67                          |
|         |          | 12:59:03 | 11.89         | 6.91         | -60         | 1.67                                | 84                 | 1.66                          |
|         |          | 12:59:33 | 11.88         | 6.91         | -60         | 1.67                                | 87.6               | 1.66                          |
|         |          | 13:00:03 | 11.91         | 6.9          | -61         | 1.66                                | 89.1               | 1.66                          |

Notes:

- mV

Millivolts
- mS/cm

Milliseimens per centimeter
- s.u.

Standard Unit
- mg/L

Milligrams per Liter
- NTU

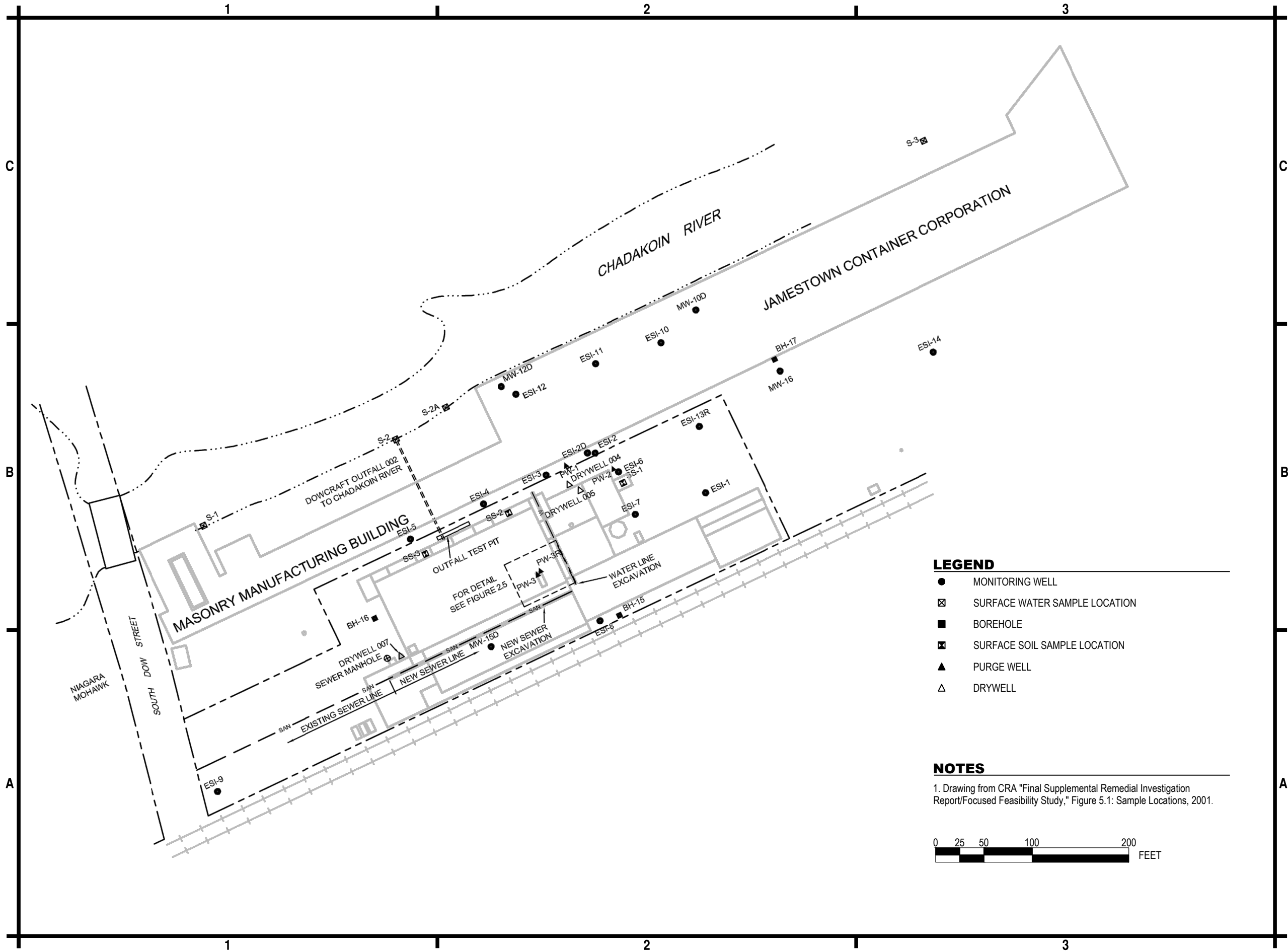
Nephelometric Turbidity Unit

---

# FIGURES

---

f:\Project\30 - jamestown container\environmental\CADD-GIS\Sheet Files\FIGURE 1 HISTORIC AND EXISTING SITE FEATURES.dwg



C&S Engineers, Inc.  
141 Elm Street.  
Buffalo, New York 14203  
Phone: 716-847-1630  
Fax: 716-847-1454  
www.cscos.com

**FORMER DOWCRAFT FACILITY  
GROUNDWATER REMEDIATION**

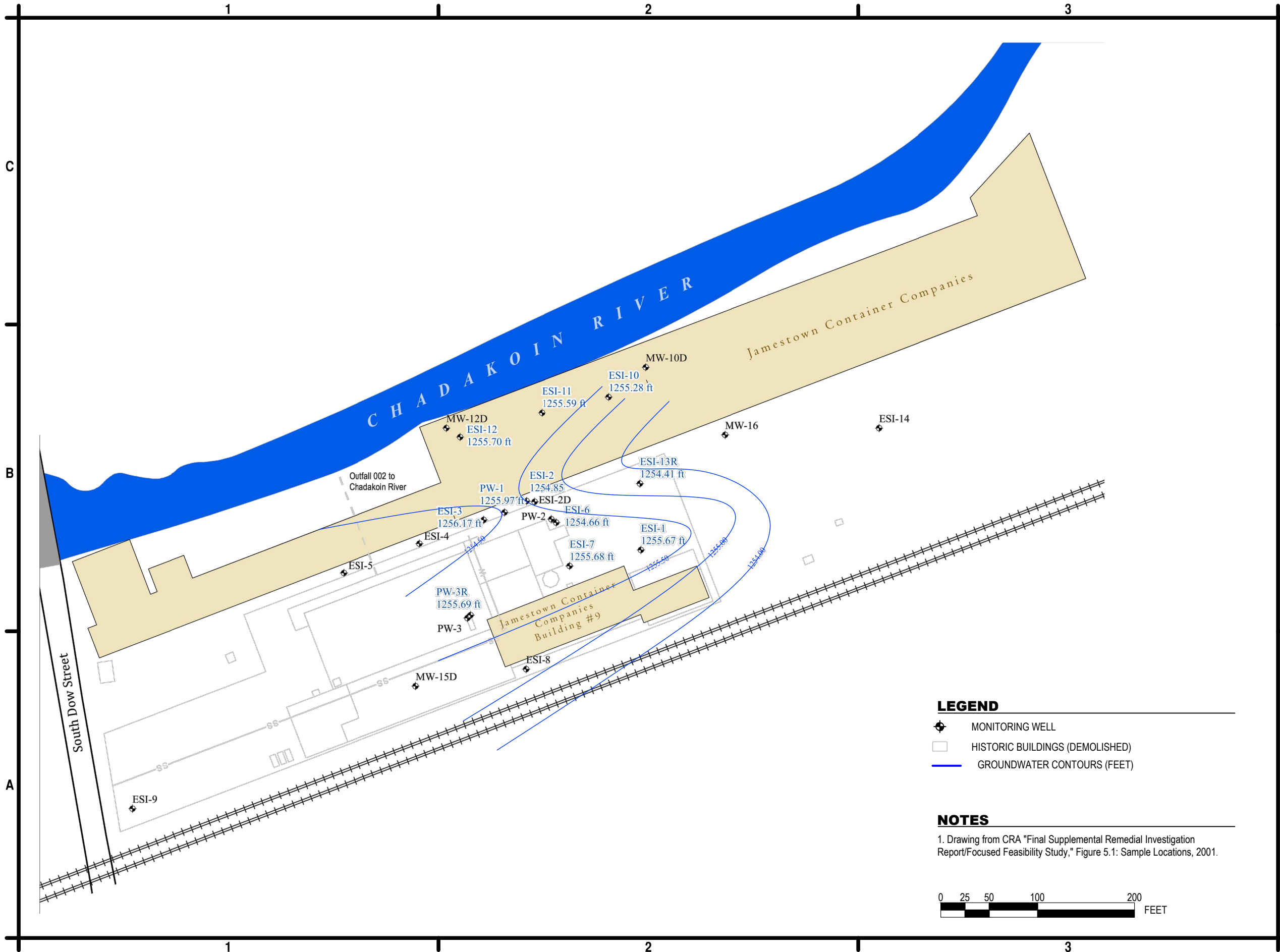
**FALCONER, NEW YORK**

| MARK                                                                                                             | DATE | DESCRIPTION |
|------------------------------------------------------------------------------------------------------------------|------|-------------|
| REVISIONS                                                                                                        |      |             |
| PROJECT NO: N30.001.001                                                                                          |      |             |
| DATE: JUNE 6, 2016                                                                                               |      |             |
| DRAWN BY: C. MARTIN                                                                                              |      |             |
| DESIGNED BY: C. MARTIN                                                                                           |      |             |
| CHECKED BY: D. RIKER                                                                                             |      |             |
| NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK EDUCATION LAW |      |             |

HISTORIC AND  
EXISTING SITE  
FEATURES

FIGURE 1

f:\Project\30 - Jamestown Container Environmental\CADD-GIS\Sheet Files\FIGURE X MAY 2018 GROUNDWATER ELEVATIONS.dwg



C&S Engineers, Inc.  
141 Elm Street.  
Buffalo, New York 14203  
Phone: 716-847-1630  
Fax: 716-847-1454  
www.cscos.com

**FORMER DOWCRAFT FACILITY  
GROUNDWATER REMEDIATION**

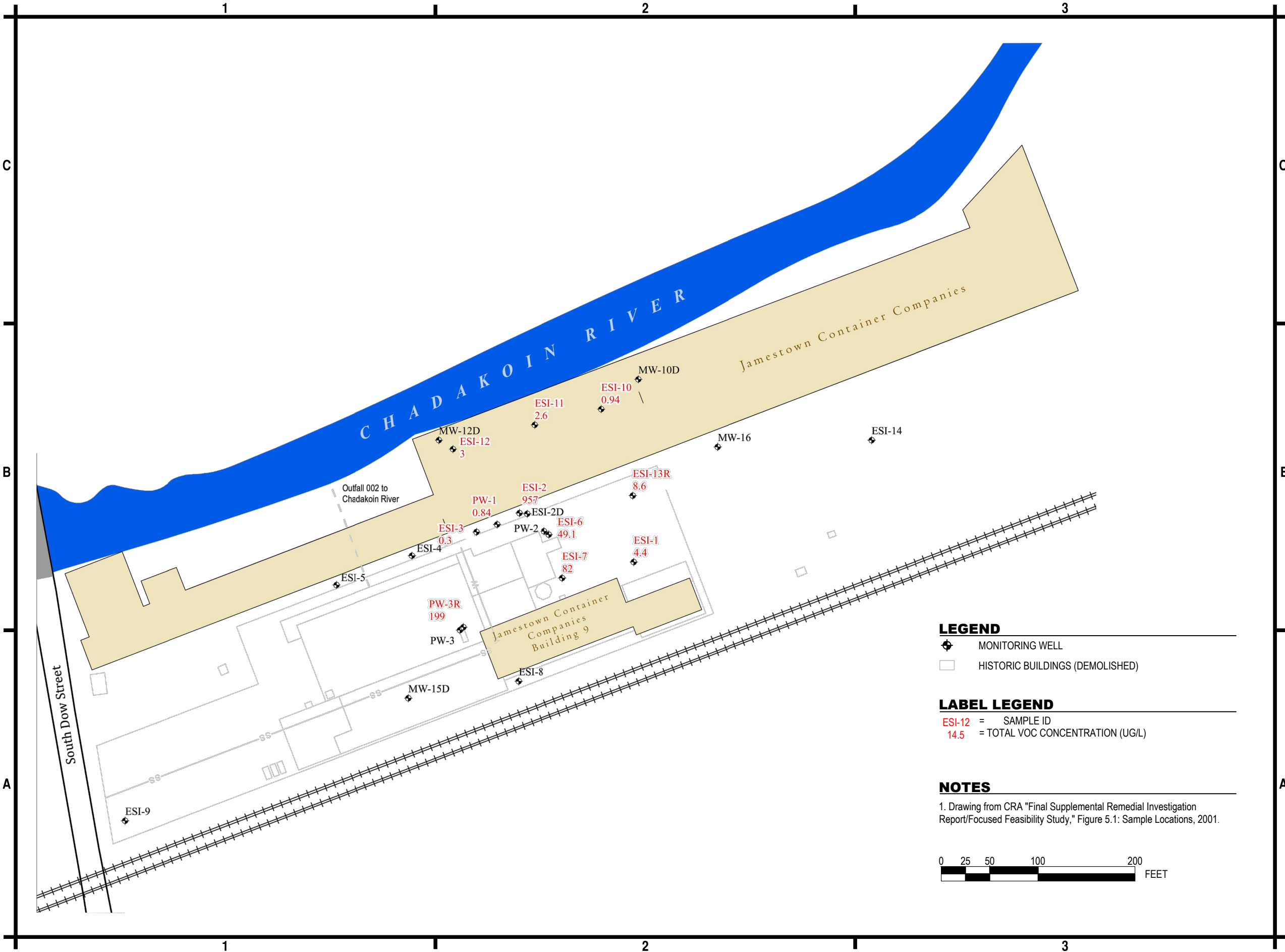
**FALCONER, NEW YORK**

| MARK                                                                                                             | DATE | DESCRIPTION |
|------------------------------------------------------------------------------------------------------------------|------|-------------|
| REVISIONS                                                                                                        |      |             |
| PROJECT NO: N30.001.001                                                                                          |      |             |
| DATE: JUNE 19, 2017                                                                                              |      |             |
| DRAWN BY: C. MARTIN                                                                                              |      |             |
| DESIGNED BY: C. MARTIN                                                                                           |      |             |
| CHECKED BY: D. RIKER                                                                                             |      |             |
| NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK EDUCATION LAW |      |             |

**JUNE 2017  
GROUNDWATER  
ELEVATIONS**

**FIGURE 2**

f:\Project\h30 - jamestown container\environmental\CADD-GIS\Sheet Files\FIGURE X APRIL 2016 GROUNDWATER RESULTS.dwg



**LEGEND**

◆ MONITORING WELL

□ HISTORIC BUILDINGS (DEMOLISHED)

**LABEL LEGEND**

ESI-12 = SAMPLE ID

14.5 = TOTAL VOC CONCENTRATION (UG/L)

**NOTES**

1. Drawing from CRA "Final Supplemental Remedial Investigation Report/Focused Feasibility Study," Figure 5.1: Sample Locations, 2001.

0 25 50 100 200 FEET

C&S Engineers, Inc.  
141 Elm Street.  
Buffalo, New York 14203  
Phone: 716-847-1630  
Fax: 716-847-1454  
www.cscos.com

**FORMER DOWCRAFT FACILITY  
GROUNDWATER REMEDIATION**

**FALCONER, NEW YORK**

| MARK                                                                                                             | DATE | DESCRIPTION |
|------------------------------------------------------------------------------------------------------------------|------|-------------|
| REVISIONS                                                                                                        |      |             |
| PROJECT NO: N30.001.001                                                                                          |      |             |
| DATE: JUNE 1, 2018                                                                                               |      |             |
| DRAWN BY: C. MARTIN                                                                                              |      |             |
| DESIGNED BY: C. MARTIN                                                                                           |      |             |
| CHECKED BY: D. RIKER                                                                                             |      |             |
| NO ALTERATION PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK EDUCATION LAW |      |             |

**MAY 2018  
GROUNDWATER  
RESULTS**

**FIGURE 3**

---

# APPENDICES

---



---

## APPENDIX A

# GROUNDWATER ANALYTICAL RESULTS

---





## ANALYTICAL REPORT

|                 |                                                                 |
|-----------------|-----------------------------------------------------------------|
| Lab Number:     | L1816596                                                        |
| Client:         | C&S Companies<br>141 Elm Street, Suite 100<br>Buffalo, NY 14203 |
| ATTN:           | Cody Martin                                                     |
| Phone:          | (716) 847-1630                                                  |
| Project Name:   | JAMESTOWN CONTAINER                                             |
| Project Number: | N30001001                                                       |
| Report Date:    | 05/15/18                                                        |

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-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

---

Eight Walkup Drive, Westborough, MA 01581-1019  
508-898-9220 (Fax) 508-898-9193 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)



**Project Name:** JAMESTOWN CONTAINER  
**Project Number:** N30001001

**Lab Number:** L1816596  
**Report Date:** 05/15/18

| <b>Alpha<br/>Sample ID</b> | <b>Client ID</b> | <b>Matrix</b> | <b>Sample<br/>Location</b> | <b>Collection<br/>Date/Time</b> | <b>Receive Date</b> |
|----------------------------|------------------|---------------|----------------------------|---------------------------------|---------------------|
| L1816596-01                | ESI-3-050718     | WATER         | 14 DEMING DRIVE            | 05/07/18 10:50                  | 05/08/18            |
| L1816596-02                | PW-1-050718      | WATER         | 14 DEMING DRIVE            | 05/07/18 12:00                  | 05/08/18            |
| L1816596-03                | ESI-12-050718    | WATER         | 14 DEMING DRIVE            | 05/07/18 12:55                  | 05/08/18            |
| L1816596-04                | ESI-11-050718    | WATER         | 14 DEMING DRIVE            | 05/07/18 13:40                  | 05/08/18            |
| L1816596-05                | ESI-10-050718    | WATER         | 14 DEMING DRIVE            | 05/07/18 14:40                  | 05/08/18            |
| L1816596-06                | ESI-1-050718     | WATER         | 14 DEMING DRIVE            | 05/07/18 16:15                  | 05/08/18            |
| L1816596-07                | ESI-7-050718     | WATER         | 14 DEMING DRIVE            | 05/07/18 04:50                  | 05/08/18            |
| L1816596-08                | DUP-050718       | WATER         | 14 DEMING DRIVE            | 05/07/18 12:10                  | 05/08/18            |
| L1816596-09                | ESI-13R-050818   | WATER         | 14 DEMING DRIVE            | 05/08/18 10:15                  | 05/08/18            |
| L1816596-10                | ESI-6-050818     | WATER         | 14 DEMING DRIVE            | 05/08/18 11:10                  | 05/08/18            |
| L1816596-11                | ESI-2-050818     | WATER         | 14 DEMING DRIVE            | 05/08/18 11:55                  | 05/08/18            |
| L1816596-12                | PW-3R-050818     | WATER         | 14 DEMING DRIVE            | 05/08/18 13:00                  | 05/08/18            |
| L1816596-13                | TRIP BLANK       | WATER         | 14 DEMING DRIVE            | 05/08/18 12:00                  | 05/08/18            |

**Project Name:** JAMESTOWN CONTAINER  
**Project Number:** N30001001

**Lab Number:** L1816596  
**Report Date:** 05/15/18

### 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. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated 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.

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 table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

#### 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 Client Service Representative 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 Client Services at 800-624-9220 with any questions.

**Project Name:** JAMESTOWN CONTAINER  
**Project Number:** N30001001

**Lab Number:** L1816596  
**Report Date:** 05/15/18

### Case Narrative (continued)

#### Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

#### Sample Receipt

L1816596-04: The collection date and time on the chain of custody was 07-MAY-18 13:40; however, the collection date/time on the container label was 07-MAY-18 13:45. At the client's request, the collection date/time is reported as 07-MAY-18 13:40.

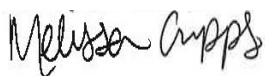
L1816596-10: The collection date was obtained from the container labels.

#### Volatile Organics

The WG1115382-6/-7 MS/MSD recoveries, performed on L1816596-10, are below the acceptance criteria for trans-1,3-dichloropropene (0%/0%), vinyl chloride (0%/0%), trans-1,2-dichloroethene (0%/0%) and styrene (0%/0%) due to the concentrations of these compounds falling below the reported detection limits.

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:

 Melissa Cripps

Title: Technical Director/Representative

Date: 05/15/18

# ORGANICS

# VOLATILES

**Project Name:** JAMESTOWN CONTAINER**Lab Number:** L1816596**Project Number:** N30001001**Report Date:** 05/15/18**SAMPLE RESULTS**

Lab ID: L1816596-01  
 Client ID: ESI-3-050718  
 Sample Location: 14 DEMING DRIVE

Date Collected: 05/07/18 10:50  
 Date Received: 05/08/18  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 1,8260C  
 Analytical Date: 05/11/18 17:35  
 Analyst: MKS

| Parameter                                    | Result | Qualifier | Units | RL   | MDL  | Dilution Factor |
|----------------------------------------------|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab |        |           |       |      |      |                 |
| Methylene chloride                           | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| 1,1-Dichloroethane                           | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Chloroform                                   | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Carbon tetrachloride                         | ND     |           | ug/l  | 0.50 | 0.13 | 1               |
| 1,2-Dichloropropane                          | ND     |           | ug/l  | 1.0  | 0.14 | 1               |
| Dibromochloromethane                         | ND     |           | ug/l  | 0.50 | 0.15 | 1               |
| 1,1,2-Trichloroethane                        | ND     |           | ug/l  | 1.5  | 0.50 | 1               |
| Tetrachloroethene                            | ND     |           | ug/l  | 0.50 | 0.18 | 1               |
| Chlorobenzene                                | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Trichlorofluoromethane                       | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| 1,2-Dichloroethane                           | ND     |           | ug/l  | 0.50 | 0.13 | 1               |
| 1,1,1-Trichloroethane                        | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Bromodichloromethane                         | ND     |           | ug/l  | 0.50 | 0.19 | 1               |
| trans-1,3-Dichloropropene                    | ND     |           | ug/l  | 0.50 | 0.16 | 1               |
| cis-1,3-Dichloropropene                      | ND     |           | ug/l  | 0.50 | 0.14 | 1               |
| Bromoform                                    | ND     |           | ug/l  | 2.0  | 0.65 | 1               |
| 1,1,2,2-Tetrachloroethane                    | ND     |           | ug/l  | 0.50 | 0.17 | 1               |
| Benzene                                      | ND     |           | ug/l  | 0.50 | 0.16 | 1               |
| Toluene                                      | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Ethylbenzene                                 | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Chloromethane                                | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Bromomethane                                 | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Vinyl chloride                               | ND     |           | ug/l  | 1.0  | 0.07 | 1               |
| Chloroethane                                 | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| 1,1-Dichloroethene                           | ND     |           | ug/l  | 0.50 | 0.17 | 1               |
| trans-1,2-Dichloroethene                     | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Trichloroethene                              | 0.30   | J         | ug/l  | 0.50 | 0.18 | 1               |
| 1,2-Dichlorobenzene                          | ND     |           | ug/l  | 2.5  | 0.70 | 1               |

Project Name: JAMESTOWN CONTAINER

Lab Number: L1816596

Project Number: N30001001

Report Date: 05/15/18

## SAMPLE RESULTS

Lab ID: L1816596-01  
 Client ID: ESI-3-050718  
 Sample Location: 14 DEMING DRIVE

Date Collected: 05/07/18 10:50  
 Date Received: 05/08/18  
 Field Prep: Not Specified

Sample Depth:

| Parameter                                    | Result | Qualifier | Units | RL  | MDL  | Dilution Factor |
|----------------------------------------------|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab |        |           |       |     |      |                 |
| 1,3-Dichlorobenzene                          | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| 1,4-Dichlorobenzene                          | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| Methyl tert butyl ether                      | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| p/m-Xylene                                   | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| o-Xylene                                     | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| cis-1,2-Dichloroethene                       | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| Styrene                                      | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| Dichlorodifluoromethane                      | ND     |           | ug/l  | 5.0 | 1.0  | 1               |
| Acetone                                      | ND     |           | ug/l  | 5.0 | 1.5  | 1               |
| Carbon disulfide                             | ND     |           | ug/l  | 5.0 | 1.0  | 1               |
| 2-Butanone                                   | ND     |           | ug/l  | 5.0 | 1.9  | 1               |
| 4-Methyl-2-pentanone                         | ND     |           | ug/l  | 5.0 | 1.0  | 1               |
| 2-Hexanone                                   | ND     |           | ug/l  | 5.0 | 1.0  | 1               |
| Bromochloromethane                           | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| 1,2-Dibromoethane                            | ND     |           | ug/l  | 2.0 | 0.65 | 1               |
| 1,2-Dibromo-3-chloropropane                  | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| Isopropylbenzene                             | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| 1,2,3-Trichlorobenzene                       | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| 1,2,4-Trichlorobenzene                       | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| Methyl Acetate                               | ND     |           | ug/l  | 2.0 | 0.23 | 1               |
| Cyclohexane                                  | ND     |           | ug/l  | 10  | 0.27 | 1               |
| 1,4-Dioxane                                  | ND     |           | ug/l  | 250 | 61.  | 1               |
| Freon-113                                    | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| Methyl cyclohexane                           | ND     |           | ug/l  | 10  | 0.40 | 1               |

| Surrogate             | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 95         |           | 70-130              |
| Toluene-d8            | 101        |           | 70-130              |
| 4-Bromofluorobenzene  | 97         |           | 70-130              |
| Dibromofluoromethane  | 93         |           | 70-130              |



**Project Name:** JAMESTOWN CONTAINER**Lab Number:** L1816596**Project Number:** N30001001**Report Date:** 05/15/18**SAMPLE RESULTS**

Lab ID: L1816596-02  
 Client ID: PW-1-050718  
 Sample Location: 14 DEMING DRIVE

Date Collected: 05/07/18 12:00  
 Date Received: 05/08/18  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 1,8260C  
 Analytical Date: 05/11/18 18:03  
 Analyst: MKS

| Parameter                                    | Result | Qualifier | Units | RL   | MDL  | Dilution Factor |
|----------------------------------------------|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab |        |           |       |      |      |                 |
| Methylene chloride                           | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| 1,1-Dichloroethane                           | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Chloroform                                   | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Carbon tetrachloride                         | ND     |           | ug/l  | 0.50 | 0.13 | 1               |
| 1,2-Dichloropropane                          | ND     |           | ug/l  | 1.0  | 0.14 | 1               |
| Dibromochloromethane                         | ND     |           | ug/l  | 0.50 | 0.15 | 1               |
| 1,1,2-Trichloroethane                        | ND     |           | ug/l  | 1.5  | 0.50 | 1               |
| Tetrachloroethene                            | ND     |           | ug/l  | 0.50 | 0.18 | 1               |
| Chlorobenzene                                | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Trichlorofluoromethane                       | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| 1,2-Dichloroethane                           | ND     |           | ug/l  | 0.50 | 0.13 | 1               |
| 1,1,1-Trichloroethane                        | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Bromodichloromethane                         | ND     |           | ug/l  | 0.50 | 0.19 | 1               |
| trans-1,3-Dichloropropene                    | ND     |           | ug/l  | 0.50 | 0.16 | 1               |
| cis-1,3-Dichloropropene                      | ND     |           | ug/l  | 0.50 | 0.14 | 1               |
| Bromoform                                    | ND     |           | ug/l  | 2.0  | 0.65 | 1               |
| 1,1,2,2-Tetrachloroethane                    | ND     |           | ug/l  | 0.50 | 0.17 | 1               |
| Benzene                                      | ND     |           | ug/l  | 0.50 | 0.16 | 1               |
| Toluene                                      | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Ethylbenzene                                 | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Chloromethane                                | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Bromomethane                                 | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Vinyl chloride                               | ND     |           | ug/l  | 1.0  | 0.07 | 1               |
| Chloroethane                                 | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| 1,1-Dichloroethene                           | ND     |           | ug/l  | 0.50 | 0.17 | 1               |
| trans-1,2-Dichloroethene                     | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Trichloroethene                              | 0.84   |           | ug/l  | 0.50 | 0.18 | 1               |
| 1,2-Dichlorobenzene                          | ND     |           | ug/l  | 2.5  | 0.70 | 1               |

Project Name: JAMESTOWN CONTAINER

Lab Number: L1816596

Project Number: N30001001

Report Date: 05/15/18

## SAMPLE RESULTS

Lab ID: L1816596-02  
 Client ID: PW-1-050718  
 Sample Location: 14 DEMING DRIVE

Date Collected: 05/07/18 12:00  
 Date Received: 05/08/18  
 Field Prep: Not Specified

Sample Depth:

| Parameter                                    | Result | Qualifier | Units | RL  | MDL  | Dilution Factor |
|----------------------------------------------|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab |        |           |       |     |      |                 |
| 1,3-Dichlorobenzene                          | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| 1,4-Dichlorobenzene                          | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| Methyl tert butyl ether                      | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| p/m-Xylene                                   | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| o-Xylene                                     | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| cis-1,2-Dichloroethene                       | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| Styrene                                      | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| Dichlorodifluoromethane                      | ND     |           | ug/l  | 5.0 | 1.0  | 1               |
| Acetone                                      | ND     |           | ug/l  | 5.0 | 1.5  | 1               |
| Carbon disulfide                             | ND     |           | ug/l  | 5.0 | 1.0  | 1               |
| 2-Butanone                                   | ND     |           | ug/l  | 5.0 | 1.9  | 1               |
| 4-Methyl-2-pentanone                         | ND     |           | ug/l  | 5.0 | 1.0  | 1               |
| 2-Hexanone                                   | ND     |           | ug/l  | 5.0 | 1.0  | 1               |
| Bromochloromethane                           | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| 1,2-Dibromoethane                            | ND     |           | ug/l  | 2.0 | 0.65 | 1               |
| 1,2-Dibromo-3-chloropropane                  | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| Isopropylbenzene                             | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| 1,2,3-Trichlorobenzene                       | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| 1,2,4-Trichlorobenzene                       | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| Methyl Acetate                               | ND     |           | ug/l  | 2.0 | 0.23 | 1               |
| Cyclohexane                                  | ND     |           | ug/l  | 10  | 0.27 | 1               |
| 1,4-Dioxane                                  | ND     |           | ug/l  | 250 | 61.  | 1               |
| Freon-113                                    | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| Methyl cyclohexane                           | ND     |           | ug/l  | 10  | 0.40 | 1               |

| Surrogate             | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 96         |           | 70-130              |
| Toluene-d8            | 101        |           | 70-130              |
| 4-Bromofluorobenzene  | 99         |           | 70-130              |
| Dibromofluoromethane  | 93         |           | 70-130              |

**Project Name:** JAMESTOWN CONTAINER**Lab Number:** L1816596**Project Number:** N30001001**Report Date:** 05/15/18**SAMPLE RESULTS**

Lab ID: L1816596-03  
 Client ID: ESI-12-050718  
 Sample Location: 14 DEMING DRIVE

Date Collected: 05/07/18 12:55  
 Date Received: 05/08/18  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 1,8260C  
 Analytical Date: 05/11/18 18:30  
 Analyst: MKS

| Parameter                                    | Result | Qualifier | Units | RL   | MDL  | Dilution Factor |
|----------------------------------------------|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab |        |           |       |      |      |                 |
| Methylene chloride                           | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| 1,1-Dichloroethane                           | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Chloroform                                   | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Carbon tetrachloride                         | ND     |           | ug/l  | 0.50 | 0.13 | 1               |
| 1,2-Dichloropropane                          | ND     |           | ug/l  | 1.0  | 0.14 | 1               |
| Dibromochloromethane                         | ND     |           | ug/l  | 0.50 | 0.15 | 1               |
| 1,1,2-Trichloroethane                        | ND     |           | ug/l  | 1.5  | 0.50 | 1               |
| Tetrachloroethene                            | ND     |           | ug/l  | 0.50 | 0.18 | 1               |
| Chlorobenzene                                | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Trichlorofluoromethane                       | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| 1,2-Dichloroethane                           | ND     |           | ug/l  | 0.50 | 0.13 | 1               |
| 1,1,1-Trichloroethane                        | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Bromodichloromethane                         | ND     |           | ug/l  | 0.50 | 0.19 | 1               |
| trans-1,3-Dichloropropene                    | ND     |           | ug/l  | 0.50 | 0.16 | 1               |
| cis-1,3-Dichloropropene                      | ND     |           | ug/l  | 0.50 | 0.14 | 1               |
| Bromoform                                    | ND     |           | ug/l  | 2.0  | 0.65 | 1               |
| 1,1,2,2-Tetrachloroethane                    | ND     |           | ug/l  | 0.50 | 0.17 | 1               |
| Benzene                                      | ND     |           | ug/l  | 0.50 | 0.16 | 1               |
| Toluene                                      | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Ethylbenzene                                 | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Chloromethane                                | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Bromomethane                                 | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Vinyl chloride                               | ND     |           | ug/l  | 1.0  | 0.07 | 1               |
| Chloroethane                                 | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| 1,1-Dichloroethene                           | ND     |           | ug/l  | 0.50 | 0.17 | 1               |
| trans-1,2-Dichloroethene                     | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Trichloroethene                              | ND     |           | ug/l  | 0.50 | 0.18 | 1               |
| 1,2-Dichlorobenzene                          | ND     |           | ug/l  | 2.5  | 0.70 | 1               |

**Project Name:** JAMESTOWN CONTAINER**Lab Number:** L1816596**Project Number:** N30001001**Report Date:** 05/15/18**SAMPLE RESULTS**

Lab ID: L1816596-03  
 Client ID: ESI-12-050718  
 Sample Location: 14 DEMING DRIVE

Date Collected: 05/07/18 12:55  
 Date Received: 05/08/18  
 Field Prep: Not Specified

Sample Depth:

| Parameter                                    | Result | Qualifier | Units | RL  | MDL  | Dilution Factor |
|----------------------------------------------|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab |        |           |       |     |      |                 |
| 1,3-Dichlorobenzene                          | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| 1,4-Dichlorobenzene                          | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| Methyl tert butyl ether                      | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| p/m-Xylene                                   | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| o-Xylene                                     | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| cis-1,2-Dichloroethene                       | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| Styrene                                      | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| Dichlorodifluoromethane                      | ND     |           | ug/l  | 5.0 | 1.0  | 1               |
| Acetone                                      | 3.0    | J         | ug/l  | 5.0 | 1.5  | 1               |
| Carbon disulfide                             | ND     |           | ug/l  | 5.0 | 1.0  | 1               |
| 2-Butanone                                   | ND     |           | ug/l  | 5.0 | 1.9  | 1               |
| 4-Methyl-2-pentanone                         | ND     |           | ug/l  | 5.0 | 1.0  | 1               |
| 2-Hexanone                                   | ND     |           | ug/l  | 5.0 | 1.0  | 1               |
| Bromochloromethane                           | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| 1,2-Dibromoethane                            | ND     |           | ug/l  | 2.0 | 0.65 | 1               |
| 1,2-Dibromo-3-chloropropane                  | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| Isopropylbenzene                             | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| 1,2,3-Trichlorobenzene                       | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| 1,2,4-Trichlorobenzene                       | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| Methyl Acetate                               | ND     |           | ug/l  | 2.0 | 0.23 | 1               |
| Cyclohexane                                  | ND     |           | ug/l  | 10  | 0.27 | 1               |
| 1,4-Dioxane                                  | ND     |           | ug/l  | 250 | 61.  | 1               |
| Freon-113                                    | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| Methyl cyclohexane                           | ND     |           | ug/l  | 10  | 0.40 | 1               |

| Surrogate             | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 96         |           | 70-130              |
| Toluene-d8            | 100        |           | 70-130              |
| 4-Bromofluorobenzene  | 100        |           | 70-130              |
| Dibromofluoromethane  | 94         |           | 70-130              |

**Project Name:** JAMESTOWN CONTAINER**Lab Number:** L1816596**Project Number:** N30001001**Report Date:** 05/15/18**SAMPLE RESULTS**

Lab ID: L1816596-04  
 Client ID: ESI-11-050718  
 Sample Location: 14 DEMING DRIVE

Date Collected: 05/07/18 13:40  
 Date Received: 05/08/18  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 1,8260C  
 Analytical Date: 05/11/18 18:58  
 Analyst: MKS

| Parameter                                    | Result | Qualifier | Units | RL   | MDL  | Dilution Factor |
|----------------------------------------------|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab |        |           |       |      |      |                 |
| Methylene chloride                           | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| 1,1-Dichloroethane                           | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Chloroform                                   | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Carbon tetrachloride                         | ND     |           | ug/l  | 0.50 | 0.13 | 1               |
| 1,2-Dichloropropane                          | ND     |           | ug/l  | 1.0  | 0.14 | 1               |
| Dibromochloromethane                         | ND     |           | ug/l  | 0.50 | 0.15 | 1               |
| 1,1,2-Trichloroethane                        | ND     |           | ug/l  | 1.5  | 0.50 | 1               |
| Tetrachloroethene                            | ND     |           | ug/l  | 0.50 | 0.18 | 1               |
| Chlorobenzene                                | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Trichlorofluoromethane                       | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| 1,2-Dichloroethane                           | ND     |           | ug/l  | 0.50 | 0.13 | 1               |
| 1,1,1-Trichloroethane                        | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Bromodichloromethane                         | ND     |           | ug/l  | 0.50 | 0.19 | 1               |
| trans-1,3-Dichloropropene                    | ND     |           | ug/l  | 0.50 | 0.16 | 1               |
| cis-1,3-Dichloropropene                      | ND     |           | ug/l  | 0.50 | 0.14 | 1               |
| Bromoform                                    | ND     |           | ug/l  | 2.0  | 0.65 | 1               |
| 1,1,2,2-Tetrachloroethane                    | ND     |           | ug/l  | 0.50 | 0.17 | 1               |
| Benzene                                      | ND     |           | ug/l  | 0.50 | 0.16 | 1               |
| Toluene                                      | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Ethylbenzene                                 | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Chloromethane                                | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Bromomethane                                 | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Vinyl chloride                               | ND     |           | ug/l  | 1.0  | 0.07 | 1               |
| Chloroethane                                 | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| 1,1-Dichloroethene                           | ND     |           | ug/l  | 0.50 | 0.17 | 1               |
| trans-1,2-Dichloroethene                     | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Trichloroethene                              | ND     |           | ug/l  | 0.50 | 0.18 | 1               |
| 1,2-Dichlorobenzene                          | ND     |           | ug/l  | 2.5  | 0.70 | 1               |

**Project Name:** JAMESTOWN CONTAINER**Lab Number:** L1816596**Project Number:** N30001001**Report Date:** 05/15/18**SAMPLE RESULTS**

Lab ID: L1816596-04  
 Client ID: ESI-11-050718  
 Sample Location: 14 DEMING DRIVE

Date Collected: 05/07/18 13:40  
 Date Received: 05/08/18  
 Field Prep: Not Specified

Sample Depth:

| Parameter                                    | Result | Qualifier | Units | RL  | MDL  | Dilution Factor |
|----------------------------------------------|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab |        |           |       |     |      |                 |
| 1,3-Dichlorobenzene                          | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| 1,4-Dichlorobenzene                          | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| Methyl tert butyl ether                      | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| p/m-Xylene                                   | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| o-Xylene                                     | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| cis-1,2-Dichloroethene                       | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| Styrene                                      | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| Dichlorodifluoromethane                      | ND     |           | ug/l  | 5.0 | 1.0  | 1               |
| Acetone                                      | 2.6    | J         | ug/l  | 5.0 | 1.5  | 1               |
| Carbon disulfide                             | ND     |           | ug/l  | 5.0 | 1.0  | 1               |
| 2-Butanone                                   | ND     |           | ug/l  | 5.0 | 1.9  | 1               |
| 4-Methyl-2-pentanone                         | ND     |           | ug/l  | 5.0 | 1.0  | 1               |
| 2-Hexanone                                   | ND     |           | ug/l  | 5.0 | 1.0  | 1               |
| Bromochloromethane                           | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| 1,2-Dibromoethane                            | ND     |           | ug/l  | 2.0 | 0.65 | 1               |
| 1,2-Dibromo-3-chloropropane                  | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| Isopropylbenzene                             | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| 1,2,3-Trichlorobenzene                       | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| 1,2,4-Trichlorobenzene                       | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| Methyl Acetate                               | ND     |           | ug/l  | 2.0 | 0.23 | 1               |
| Cyclohexane                                  | ND     |           | ug/l  | 10  | 0.27 | 1               |
| 1,4-Dioxane                                  | ND     |           | ug/l  | 250 | 61.  | 1               |
| Freon-113                                    | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| Methyl cyclohexane                           | ND     |           | ug/l  | 10  | 0.40 | 1               |

| Surrogate             | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 93         |           | 70-130              |
| Toluene-d8            | 100        |           | 70-130              |
| 4-Bromofluorobenzene  | 99         |           | 70-130              |
| Dibromofluoromethane  | 92         |           | 70-130              |

**Project Name:** JAMESTOWN CONTAINER**Lab Number:** L1816596**Project Number:** N30001001**Report Date:** 05/15/18**SAMPLE RESULTS**

Lab ID: L1816596-05  
 Client ID: ESI-10-050718  
 Sample Location: 14 DEMING DRIVE

Date Collected: 05/07/18 14:40  
 Date Received: 05/08/18  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 1,8260C  
 Analytical Date: 05/11/18 19:26  
 Analyst: MKS

| Parameter                                    | Result | Qualifier | Units | RL   | MDL  | Dilution Factor |
|----------------------------------------------|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab |        |           |       |      |      |                 |
| Methylene chloride                           | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| 1,1-Dichloroethane                           | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Chloroform                                   | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Carbon tetrachloride                         | ND     |           | ug/l  | 0.50 | 0.13 | 1               |
| 1,2-Dichloropropane                          | ND     |           | ug/l  | 1.0  | 0.14 | 1               |
| Dibromochloromethane                         | ND     |           | ug/l  | 0.50 | 0.15 | 1               |
| 1,1,2-Trichloroethane                        | ND     |           | ug/l  | 1.5  | 0.50 | 1               |
| Tetrachloroethene                            | ND     |           | ug/l  | 0.50 | 0.18 | 1               |
| Chlorobenzene                                | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Trichlorofluoromethane                       | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| 1,2-Dichloroethane                           | ND     |           | ug/l  | 0.50 | 0.13 | 1               |
| 1,1,1-Trichloroethane                        | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Bromodichloromethane                         | ND     |           | ug/l  | 0.50 | 0.19 | 1               |
| trans-1,3-Dichloropropene                    | ND     |           | ug/l  | 0.50 | 0.16 | 1               |
| cis-1,3-Dichloropropene                      | ND     |           | ug/l  | 0.50 | 0.14 | 1               |
| Bromoform                                    | ND     |           | ug/l  | 2.0  | 0.65 | 1               |
| 1,1,2,2-Tetrachloroethane                    | ND     |           | ug/l  | 0.50 | 0.17 | 1               |
| Benzene                                      | ND     |           | ug/l  | 0.50 | 0.16 | 1               |
| Toluene                                      | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Ethylbenzene                                 | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Chloromethane                                | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Bromomethane                                 | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Vinyl chloride                               | ND     |           | ug/l  | 1.0  | 0.07 | 1               |
| Chloroethane                                 | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| 1,1-Dichloroethene                           | ND     |           | ug/l  | 0.50 | 0.17 | 1               |
| trans-1,2-Dichloroethene                     | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Trichloroethene                              | 0.94   |           | ug/l  | 0.50 | 0.18 | 1               |
| 1,2-Dichlorobenzene                          | ND     |           | ug/l  | 2.5  | 0.70 | 1               |

**Project Name:** JAMESTOWN CONTAINER**Lab Number:** L1816596**Project Number:** N30001001**Report Date:** 05/15/18**SAMPLE RESULTS**

Lab ID: L1816596-05  
 Client ID: ESI-10-050718  
 Sample Location: 14 DEMING DRIVE

Date Collected: 05/07/18 14:40  
 Date Received: 05/08/18  
 Field Prep: Not Specified

Sample Depth:

| Parameter                                    | Result | Qualifier | Units | RL  | MDL  | Dilution Factor |
|----------------------------------------------|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab |        |           |       |     |      |                 |
| 1,3-Dichlorobenzene                          | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| 1,4-Dichlorobenzene                          | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| Methyl tert butyl ether                      | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| p/m-Xylene                                   | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| o-Xylene                                     | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| cis-1,2-Dichloroethene                       | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| Styrene                                      | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| Dichlorodifluoromethane                      | ND     |           | ug/l  | 5.0 | 1.0  | 1               |
| Acetone                                      | ND     |           | ug/l  | 5.0 | 1.5  | 1               |
| Carbon disulfide                             | ND     |           | ug/l  | 5.0 | 1.0  | 1               |
| 2-Butanone                                   | ND     |           | ug/l  | 5.0 | 1.9  | 1               |
| 4-Methyl-2-pentanone                         | ND     |           | ug/l  | 5.0 | 1.0  | 1               |
| 2-Hexanone                                   | ND     |           | ug/l  | 5.0 | 1.0  | 1               |
| Bromochloromethane                           | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| 1,2-Dibromoethane                            | ND     |           | ug/l  | 2.0 | 0.65 | 1               |
| 1,2-Dibromo-3-chloropropane                  | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| Isopropylbenzene                             | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| 1,2,3-Trichlorobenzene                       | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| 1,2,4-Trichlorobenzene                       | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| Methyl Acetate                               | ND     |           | ug/l  | 2.0 | 0.23 | 1               |
| Cyclohexane                                  | ND     |           | ug/l  | 10  | 0.27 | 1               |
| 1,4-Dioxane                                  | ND     |           | ug/l  | 250 | 61.  | 1               |
| Freon-113                                    | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| Methyl cyclohexane                           | ND     |           | ug/l  | 10  | 0.40 | 1               |

| Surrogate             | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 98         |           | 70-130              |
| Toluene-d8            | 101        |           | 70-130              |
| 4-Bromofluorobenzene  | 99         |           | 70-130              |
| Dibromofluoromethane  | 95         |           | 70-130              |



**Project Name:** JAMESTOWN CONTAINER**Lab Number:** L1816596**Project Number:** N30001001**Report Date:** 05/15/18**SAMPLE RESULTS**

Lab ID: L1816596-06  
 Client ID: ESI-1-050718  
 Sample Location: 14 DEMING DRIVE

Date Collected: 05/07/18 16:15  
 Date Received: 05/08/18  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 1,8260C  
 Analytical Date: 05/11/18 19:54  
 Analyst: MKS

| Parameter                                    | Result | Qualifier | Units | RL   | MDL  | Dilution Factor |
|----------------------------------------------|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab |        |           |       |      |      |                 |
| Methylene chloride                           | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| 1,1-Dichloroethane                           | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Chloroform                                   | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Carbon tetrachloride                         | ND     |           | ug/l  | 0.50 | 0.13 | 1               |
| 1,2-Dichloropropane                          | ND     |           | ug/l  | 1.0  | 0.14 | 1               |
| Dibromochloromethane                         | ND     |           | ug/l  | 0.50 | 0.15 | 1               |
| 1,1,2-Trichloroethane                        | ND     |           | ug/l  | 1.5  | 0.50 | 1               |
| Tetrachloroethene                            | ND     |           | ug/l  | 0.50 | 0.18 | 1               |
| Chlorobenzene                                | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Trichlorofluoromethane                       | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| 1,2-Dichloroethane                           | ND     |           | ug/l  | 0.50 | 0.13 | 1               |
| 1,1,1-Trichloroethane                        | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Bromodichloromethane                         | ND     |           | ug/l  | 0.50 | 0.19 | 1               |
| trans-1,3-Dichloropropene                    | ND     |           | ug/l  | 0.50 | 0.16 | 1               |
| cis-1,3-Dichloropropene                      | ND     |           | ug/l  | 0.50 | 0.14 | 1               |
| Bromoform                                    | ND     |           | ug/l  | 2.0  | 0.65 | 1               |
| 1,1,2,2-Tetrachloroethane                    | ND     |           | ug/l  | 0.50 | 0.17 | 1               |
| Benzene                                      | ND     |           | ug/l  | 0.50 | 0.16 | 1               |
| Toluene                                      | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Ethylbenzene                                 | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Chloromethane                                | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Bromomethane                                 | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Vinyl chloride                               | ND     |           | ug/l  | 1.0  | 0.07 | 1               |
| Chloroethane                                 | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| 1,1-Dichloroethene                           | ND     |           | ug/l  | 0.50 | 0.17 | 1               |
| trans-1,2-Dichloroethene                     | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Trichloroethene                              | 4.4    |           | ug/l  | 0.50 | 0.18 | 1               |
| 1,2-Dichlorobenzene                          | ND     |           | ug/l  | 2.5  | 0.70 | 1               |

Project Name: JAMESTOWN CONTAINER

Lab Number: L1816596

Project Number: N30001001

Report Date: 05/15/18

## SAMPLE RESULTS

Lab ID: L1816596-06  
 Client ID: ESI-1-050718  
 Sample Location: 14 DEMING DRIVE

Date Collected: 05/07/18 16:15  
 Date Received: 05/08/18  
 Field Prep: Not Specified

Sample Depth:

| Parameter                                    | Result | Qualifier | Units | RL  | MDL  | Dilution Factor |
|----------------------------------------------|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab |        |           |       |     |      |                 |
| 1,3-Dichlorobenzene                          | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| 1,4-Dichlorobenzene                          | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| Methyl tert butyl ether                      | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| p/m-Xylene                                   | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| o-Xylene                                     | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| cis-1,2-Dichloroethene                       | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| Styrene                                      | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| Dichlorodifluoromethane                      | ND     |           | ug/l  | 5.0 | 1.0  | 1               |
| Acetone                                      | ND     |           | ug/l  | 5.0 | 1.5  | 1               |
| Carbon disulfide                             | ND     |           | ug/l  | 5.0 | 1.0  | 1               |
| 2-Butanone                                   | ND     |           | ug/l  | 5.0 | 1.9  | 1               |
| 4-Methyl-2-pentanone                         | ND     |           | ug/l  | 5.0 | 1.0  | 1               |
| 2-Hexanone                                   | ND     |           | ug/l  | 5.0 | 1.0  | 1               |
| Bromochloromethane                           | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| 1,2-Dibromoethane                            | ND     |           | ug/l  | 2.0 | 0.65 | 1               |
| 1,2-Dibromo-3-chloropropane                  | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| Isopropylbenzene                             | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| 1,2,3-Trichlorobenzene                       | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| 1,2,4-Trichlorobenzene                       | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| Methyl Acetate                               | ND     |           | ug/l  | 2.0 | 0.23 | 1               |
| Cyclohexane                                  | ND     |           | ug/l  | 10  | 0.27 | 1               |
| 1,4-Dioxane                                  | ND     |           | ug/l  | 250 | 61.  | 1               |
| Freon-113                                    | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| Methyl cyclohexane                           | ND     |           | ug/l  | 10  | 0.40 | 1               |

| Surrogate             | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 99         |           | 70-130              |
| Toluene-d8            | 101        |           | 70-130              |
| 4-Bromofluorobenzene  | 98         |           | 70-130              |
| Dibromofluoromethane  | 95         |           | 70-130              |

**Project Name:** JAMESTOWN CONTAINER**Lab Number:** L1816596**Project Number:** N30001001**Report Date:** 05/15/18**SAMPLE RESULTS**

Lab ID: L1816596-07  
 Client ID: ESI-7-050718  
 Sample Location: 14 DEMING DRIVE

Date Collected: 05/07/18 04:50  
 Date Received: 05/08/18  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 1,8260C  
 Analytical Date: 05/11/18 20:22  
 Analyst: MKS

| Parameter                                    | Result | Qualifier | Units | RL   | MDL  | Dilution Factor |
|----------------------------------------------|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab |        |           |       |      |      |                 |
| Methylene chloride                           | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| 1,1-Dichloroethane                           | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Chloroform                                   | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Carbon tetrachloride                         | ND     |           | ug/l  | 0.50 | 0.13 | 1               |
| 1,2-Dichloropropane                          | ND     |           | ug/l  | 1.0  | 0.14 | 1               |
| Dibromochloromethane                         | ND     |           | ug/l  | 0.50 | 0.15 | 1               |
| 1,1,2-Trichloroethane                        | ND     |           | ug/l  | 1.5  | 0.50 | 1               |
| Tetrachloroethene                            | 0.30   | J         | ug/l  | 0.50 | 0.18 | 1               |
| Chlorobenzene                                | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Trichlorofluoromethane                       | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| 1,2-Dichloroethane                           | ND     |           | ug/l  | 0.50 | 0.13 | 1               |
| 1,1,1-Trichloroethane                        | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Bromodichloromethane                         | ND     |           | ug/l  | 0.50 | 0.19 | 1               |
| trans-1,3-Dichloropropene                    | ND     |           | ug/l  | 0.50 | 0.16 | 1               |
| cis-1,3-Dichloropropene                      | ND     |           | ug/l  | 0.50 | 0.14 | 1               |
| Bromoform                                    | ND     |           | ug/l  | 2.0  | 0.65 | 1               |
| 1,1,2,2-Tetrachloroethane                    | ND     |           | ug/l  | 0.50 | 0.17 | 1               |
| Benzene                                      | ND     |           | ug/l  | 0.50 | 0.16 | 1               |
| Toluene                                      | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Ethylbenzene                                 | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Chloromethane                                | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Bromomethane                                 | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Vinyl chloride                               | ND     |           | ug/l  | 1.0  | 0.07 | 1               |
| Chloroethane                                 | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| 1,1-Dichloroethene                           | ND     |           | ug/l  | 0.50 | 0.17 | 1               |
| trans-1,2-Dichloroethene                     | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Trichloroethene                              | 52     |           | ug/l  | 0.50 | 0.18 | 1               |
| 1,2-Dichlorobenzene                          | ND     |           | ug/l  | 2.5  | 0.70 | 1               |

Project Name: JAMESTOWN CONTAINER

Lab Number: L1816596

Project Number: N30001001

Report Date: 05/15/18

## SAMPLE RESULTS

Lab ID: L1816596-07  
 Client ID: ESI-7-050718  
 Sample Location: 14 DEMING DRIVE

Date Collected: 05/07/18 04:50  
 Date Received: 05/08/18  
 Field Prep: Not Specified

Sample Depth:

| Parameter                                    | Result | Qualifier | Units | RL  | MDL  | Dilution Factor |
|----------------------------------------------|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab |        |           |       |     |      |                 |
| 1,3-Dichlorobenzene                          | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| 1,4-Dichlorobenzene                          | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| Methyl tert butyl ether                      | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| p/m-Xylene                                   | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| o-Xylene                                     | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| cis-1,2-Dichloroethene                       | 30     |           | ug/l  | 2.5 | 0.70 | 1               |
| Styrene                                      | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| Dichlorodifluoromethane                      | ND     |           | ug/l  | 5.0 | 1.0  | 1               |
| Acetone                                      | ND     |           | ug/l  | 5.0 | 1.5  | 1               |
| Carbon disulfide                             | ND     |           | ug/l  | 5.0 | 1.0  | 1               |
| 2-Butanone                                   | ND     |           | ug/l  | 5.0 | 1.9  | 1               |
| 4-Methyl-2-pentanone                         | ND     |           | ug/l  | 5.0 | 1.0  | 1               |
| 2-Hexanone                                   | ND     |           | ug/l  | 5.0 | 1.0  | 1               |
| Bromochloromethane                           | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| 1,2-Dibromoethane                            | ND     |           | ug/l  | 2.0 | 0.65 | 1               |
| 1,2-Dibromo-3-chloropropane                  | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| Isopropylbenzene                             | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| 1,2,3-Trichlorobenzene                       | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| 1,2,4-Trichlorobenzene                       | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| Methyl Acetate                               | ND     |           | ug/l  | 2.0 | 0.23 | 1               |
| Cyclohexane                                  | ND     |           | ug/l  | 10  | 0.27 | 1               |
| 1,4-Dioxane                                  | ND     |           | ug/l  | 250 | 61.  | 1               |
| Freon-113                                    | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| Methyl cyclohexane                           | ND     |           | ug/l  | 10  | 0.40 | 1               |

| Surrogate             | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 96         |           | 70-130              |
| Toluene-d8            | 100        |           | 70-130              |
| 4-Bromofluorobenzene  | 100        |           | 70-130              |
| Dibromofluoromethane  | 92         |           | 70-130              |

**Project Name:** JAMESTOWN CONTAINER**Lab Number:** L1816596**Project Number:** N30001001**Report Date:** 05/15/18**SAMPLE RESULTS**

Lab ID: L1816596-08  
 Client ID: DUP-050718  
 Sample Location: 14 DEMING DRIVE

Date Collected: 05/07/18 12:10  
 Date Received: 05/08/18  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 1,8260C  
 Analytical Date: 05/11/18 20:01  
 Analyst: MKS

| Parameter                                    | Result | Qualifier | Units | RL   | MDL  | Dilution Factor |
|----------------------------------------------|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab |        |           |       |      |      |                 |
| Methylene chloride                           | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| 1,1-Dichloroethane                           | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Chloroform                                   | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Carbon tetrachloride                         | ND     |           | ug/l  | 0.50 | 0.13 | 1               |
| 1,2-Dichloropropane                          | ND     |           | ug/l  | 1.0  | 0.14 | 1               |
| Dibromochloromethane                         | ND     |           | ug/l  | 0.50 | 0.15 | 1               |
| 1,1,2-Trichloroethane                        | ND     |           | ug/l  | 1.5  | 0.50 | 1               |
| Tetrachloroethene                            | ND     |           | ug/l  | 0.50 | 0.18 | 1               |
| Chlorobenzene                                | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Trichlorofluoromethane                       | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| 1,2-Dichloroethane                           | ND     |           | ug/l  | 0.50 | 0.13 | 1               |
| 1,1,1-Trichloroethane                        | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Bromodichloromethane                         | ND     |           | ug/l  | 0.50 | 0.19 | 1               |
| trans-1,3-Dichloropropene                    | ND     |           | ug/l  | 0.50 | 0.16 | 1               |
| cis-1,3-Dichloropropene                      | ND     |           | ug/l  | 0.50 | 0.14 | 1               |
| Bromoform                                    | ND     |           | ug/l  | 2.0  | 0.65 | 1               |
| 1,1,2,2-Tetrachloroethane                    | ND     |           | ug/l  | 0.50 | 0.17 | 1               |
| Benzene                                      | ND     |           | ug/l  | 0.50 | 0.16 | 1               |
| Toluene                                      | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Ethylbenzene                                 | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Chloromethane                                | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Bromomethane                                 | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Vinyl chloride                               | ND     |           | ug/l  | 1.0  | 0.07 | 1               |
| Chloroethane                                 | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| 1,1-Dichloroethene                           | ND     |           | ug/l  | 0.50 | 0.17 | 1               |
| trans-1,2-Dichloroethene                     | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Trichloroethene                              | 0.82   |           | ug/l  | 0.50 | 0.18 | 1               |
| 1,2-Dichlorobenzene                          | ND     |           | ug/l  | 2.5  | 0.70 | 1               |

Project Name: JAMESTOWN CONTAINER

Lab Number: L1816596

Project Number: N30001001

Report Date: 05/15/18

## SAMPLE RESULTS

Lab ID: L1816596-08  
 Client ID: DUP-050718  
 Sample Location: 14 DEMING DRIVE

Date Collected: 05/07/18 12:10  
 Date Received: 05/08/18  
 Field Prep: Not Specified

Sample Depth:

| Parameter                                    | Result | Qualifier | Units | RL  | MDL  | Dilution Factor |
|----------------------------------------------|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab |        |           |       |     |      |                 |
| 1,3-Dichlorobenzene                          | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| 1,4-Dichlorobenzene                          | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| Methyl tert butyl ether                      | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| p/m-Xylene                                   | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| o-Xylene                                     | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| cis-1,2-Dichloroethene                       | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| Styrene                                      | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| Dichlorodifluoromethane                      | ND     |           | ug/l  | 5.0 | 1.0  | 1               |
| Acetone                                      | ND     |           | ug/l  | 5.0 | 1.5  | 1               |
| Carbon disulfide                             | ND     |           | ug/l  | 5.0 | 1.0  | 1               |
| 2-Butanone                                   | ND     |           | ug/l  | 5.0 | 1.9  | 1               |
| 4-Methyl-2-pentanone                         | ND     |           | ug/l  | 5.0 | 1.0  | 1               |
| 2-Hexanone                                   | ND     |           | ug/l  | 5.0 | 1.0  | 1               |
| Bromochloromethane                           | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| 1,2-Dibromoethane                            | ND     |           | ug/l  | 2.0 | 0.65 | 1               |
| 1,2-Dibromo-3-chloropropane                  | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| Isopropylbenzene                             | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| 1,2,3-Trichlorobenzene                       | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| 1,2,4-Trichlorobenzene                       | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| Methyl Acetate                               | ND     |           | ug/l  | 2.0 | 0.23 | 1               |
| Cyclohexane                                  | ND     |           | ug/l  | 10  | 0.27 | 1               |
| 1,4-Dioxane                                  | ND     |           | ug/l  | 250 | 61.  | 1               |
| Freon-113                                    | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| Methyl cyclohexane                           | ND     |           | ug/l  | 10  | 0.40 | 1               |

| Surrogate             | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 100        |           | 70-130              |
| Toluene-d8            | 94         |           | 70-130              |
| 4-Bromofluorobenzene  | 96         |           | 70-130              |
| Dibromofluoromethane  | 99         |           | 70-130              |

**Project Name:** JAMESTOWN CONTAINER**Lab Number:** L1816596**Project Number:** N30001001**Report Date:** 05/15/18**SAMPLE RESULTS**

Lab ID: L1816596-09  
 Client ID: ESI-13R-050818  
 Sample Location: 14 DEMING DRIVE

Date Collected: 05/08/18 10:15  
 Date Received: 05/08/18  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 1,8260C  
 Analytical Date: 05/11/18 20:26  
 Analyst: MKS

| Parameter                                    | Result | Qualifier | Units | RL   | MDL  | Dilution Factor |
|----------------------------------------------|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab |        |           |       |      |      |                 |
| Methylene chloride                           | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| 1,1-Dichloroethane                           | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Chloroform                                   | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Carbon tetrachloride                         | ND     |           | ug/l  | 0.50 | 0.13 | 1               |
| 1,2-Dichloropropane                          | ND     |           | ug/l  | 1.0  | 0.14 | 1               |
| Dibromochloromethane                         | ND     |           | ug/l  | 0.50 | 0.15 | 1               |
| 1,1,2-Trichloroethane                        | ND     |           | ug/l  | 1.5  | 0.50 | 1               |
| Tetrachloroethene                            | ND     |           | ug/l  | 0.50 | 0.18 | 1               |
| Chlorobenzene                                | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Trichlorofluoromethane                       | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| 1,2-Dichloroethane                           | ND     |           | ug/l  | 0.50 | 0.13 | 1               |
| 1,1,1-Trichloroethane                        | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Bromodichloromethane                         | ND     |           | ug/l  | 0.50 | 0.19 | 1               |
| trans-1,3-Dichloropropene                    | ND     |           | ug/l  | 0.50 | 0.16 | 1               |
| cis-1,3-Dichloropropene                      | ND     |           | ug/l  | 0.50 | 0.14 | 1               |
| Bromoform                                    | ND     |           | ug/l  | 2.0  | 0.65 | 1               |
| 1,1,2,2-Tetrachloroethane                    | ND     |           | ug/l  | 0.50 | 0.17 | 1               |
| Benzene                                      | ND     |           | ug/l  | 0.50 | 0.16 | 1               |
| Toluene                                      | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Ethylbenzene                                 | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Chloromethane                                | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Bromomethane                                 | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Vinyl chloride                               | ND     |           | ug/l  | 1.0  | 0.07 | 1               |
| Chloroethane                                 | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| 1,1-Dichloroethene                           | ND     |           | ug/l  | 0.50 | 0.17 | 1               |
| trans-1,2-Dichloroethene                     | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Trichloroethene                              | 7.3    |           | ug/l  | 0.50 | 0.18 | 1               |
| 1,2-Dichlorobenzene                          | ND     |           | ug/l  | 2.5  | 0.70 | 1               |

**Project Name:** JAMESTOWN CONTAINER**Lab Number:** L1816596**Project Number:** N30001001**Report Date:** 05/15/18**SAMPLE RESULTS**

Lab ID: L1816596-09  
 Client ID: ESI-13R-050818  
 Sample Location: 14 DEMING DRIVE

Date Collected: 05/08/18 10:15  
 Date Received: 05/08/18  
 Field Prep: Not Specified

Sample Depth:

| Parameter                                    | Result | Qualifier | Units | RL  | MDL  | Dilution Factor |
|----------------------------------------------|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab |        |           |       |     |      |                 |
| 1,3-Dichlorobenzene                          | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| 1,4-Dichlorobenzene                          | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| Methyl tert butyl ether                      | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| p/m-Xylene                                   | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| o-Xylene                                     | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| cis-1,2-Dichloroethene                       | 1.3    | J         | ug/l  | 2.5 | 0.70 | 1               |
| Styrene                                      | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| Dichlorodifluoromethane                      | ND     |           | ug/l  | 5.0 | 1.0  | 1               |
| Acetone                                      | ND     |           | ug/l  | 5.0 | 1.5  | 1               |
| Carbon disulfide                             | ND     |           | ug/l  | 5.0 | 1.0  | 1               |
| 2-Butanone                                   | ND     |           | ug/l  | 5.0 | 1.9  | 1               |
| 4-Methyl-2-pentanone                         | ND     |           | ug/l  | 5.0 | 1.0  | 1               |
| 2-Hexanone                                   | ND     |           | ug/l  | 5.0 | 1.0  | 1               |
| Bromochloromethane                           | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| 1,2-Dibromoethane                            | ND     |           | ug/l  | 2.0 | 0.65 | 1               |
| 1,2-Dibromo-3-chloropropane                  | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| Isopropylbenzene                             | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| 1,2,3-Trichlorobenzene                       | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| 1,2,4-Trichlorobenzene                       | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| Methyl Acetate                               | ND     |           | ug/l  | 2.0 | 0.23 | 1               |
| Cyclohexane                                  | ND     |           | ug/l  | 10  | 0.27 | 1               |
| 1,4-Dioxane                                  | ND     |           | ug/l  | 250 | 61.  | 1               |
| Freon-113                                    | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| Methyl cyclohexane                           | ND     |           | ug/l  | 10  | 0.40 | 1               |

| Surrogate             | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 101        |           | 70-130              |
| Toluene-d8            | 94         |           | 70-130              |
| 4-Bromofluorobenzene  | 94         |           | 70-130              |
| Dibromofluoromethane  | 101        |           | 70-130              |



**Project Name:** JAMESTOWN CONTAINER**Lab Number:** L1816596**Project Number:** N30001001**Report Date:** 05/15/18**SAMPLE RESULTS**

Lab ID: L1816596-10  
 Client ID: ESI-6-050818  
 Sample Location: 14 DEMING DRIVE

Date Collected: 05/08/18 11:10  
 Date Received: 05/08/18  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 1,8260C  
 Analytical Date: 05/12/18 16:11  
 Analyst: KD

| Parameter                                    | Result | Qualifier | Units | RL   | MDL  | Dilution Factor |
|----------------------------------------------|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab |        |           |       |      |      |                 |
| Methylene chloride                           | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| 1,1-Dichloroethane                           | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Chloroform                                   | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Carbon tetrachloride                         | ND     |           | ug/l  | 0.50 | 0.13 | 1               |
| 1,2-Dichloropropane                          | ND     |           | ug/l  | 1.0  | 0.14 | 1               |
| Dibromochloromethane                         | ND     |           | ug/l  | 0.50 | 0.15 | 1               |
| 1,1,2-Trichloroethane                        | ND     |           | ug/l  | 1.5  | 0.50 | 1               |
| Tetrachloroethene                            | 1.4    |           | ug/l  | 0.50 | 0.18 | 1               |
| Chlorobenzene                                | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Trichlorofluoromethane                       | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| 1,2-Dichloroethane                           | ND     |           | ug/l  | 0.50 | 0.13 | 1               |
| 1,1,1-Trichloroethane                        | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Bromodichloromethane                         | ND     |           | ug/l  | 0.50 | 0.19 | 1               |
| trans-1,3-Dichloropropene                    | ND     |           | ug/l  | 0.50 | 0.16 | 1               |
| cis-1,3-Dichloropropene                      | ND     |           | ug/l  | 0.50 | 0.14 | 1               |
| Bromoform                                    | ND     |           | ug/l  | 2.0  | 0.65 | 1               |
| 1,1,2,2-Tetrachloroethane                    | ND     |           | ug/l  | 0.50 | 0.17 | 1               |
| Benzene                                      | ND     |           | ug/l  | 0.50 | 0.16 | 1               |
| Toluene                                      | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Ethylbenzene                                 | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Chloromethane                                | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Bromomethane                                 | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Vinyl chloride                               | ND     |           | ug/l  | 1.0  | 0.07 | 1               |
| Chloroethane                                 | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| 1,1-Dichloroethene                           | ND     |           | ug/l  | 0.50 | 0.17 | 1               |
| trans-1,2-Dichloroethene                     | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Trichloroethene                              | 40     |           | ug/l  | 0.50 | 0.18 | 1               |
| 1,2-Dichlorobenzene                          | ND     |           | ug/l  | 2.5  | 0.70 | 1               |

Project Name: JAMESTOWN CONTAINER

Lab Number: L1816596

Project Number: N30001001

Report Date: 05/15/18

## SAMPLE RESULTS

Lab ID: L1816596-10  
 Client ID: ESI-6-050818  
 Sample Location: 14 DEMING DRIVE

Date Collected: 05/08/18 11:10  
 Date Received: 05/08/18  
 Field Prep: Not Specified

Sample Depth:

| Parameter                                    | Result | Qualifier | Units | RL  | MDL  | Dilution Factor |
|----------------------------------------------|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab |        |           |       |     |      |                 |
| 1,3-Dichlorobenzene                          | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| 1,4-Dichlorobenzene                          | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| Methyl tert butyl ether                      | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| p/m-Xylene                                   | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| o-Xylene                                     | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| cis-1,2-Dichloroethene                       | 5.3    |           | ug/l  | 2.5 | 0.70 | 1               |
| Styrene                                      | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| Dichlorodifluoromethane                      | ND     |           | ug/l  | 5.0 | 1.0  | 1               |
| Acetone                                      | 2.4    | J         | ug/l  | 5.0 | 1.5  | 1               |
| Carbon disulfide                             | ND     |           | ug/l  | 5.0 | 1.0  | 1               |
| 2-Butanone                                   | ND     |           | ug/l  | 5.0 | 1.9  | 1               |
| 4-Methyl-2-pentanone                         | ND     |           | ug/l  | 5.0 | 1.0  | 1               |
| 2-Hexanone                                   | ND     |           | ug/l  | 5.0 | 1.0  | 1               |
| Bromochloromethane                           | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| 1,2-Dibromoethane                            | ND     |           | ug/l  | 2.0 | 0.65 | 1               |
| 1,2-Dibromo-3-chloropropane                  | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| Isopropylbenzene                             | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| 1,2,3-Trichlorobenzene                       | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| 1,2,4-Trichlorobenzene                       | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| Methyl Acetate                               | ND     |           | ug/l  | 2.0 | 0.23 | 1               |
| Cyclohexane                                  | ND     |           | ug/l  | 10  | 0.27 | 1               |
| 1,4-Dioxane                                  | ND     |           | ug/l  | 250 | 61.  | 1               |
| Freon-113                                    | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| Methyl cyclohexane                           | ND     |           | ug/l  | 10  | 0.40 | 1               |

| Surrogate             | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 107        |           | 70-130              |
| Toluene-d8            | 98         |           | 70-130              |
| 4-Bromofluorobenzene  | 98         |           | 70-130              |
| Dibromofluoromethane  | 102        |           | 70-130              |

**Project Name:** JAMESTOWN CONTAINER**Lab Number:** L1816596**Project Number:** N30001001**Report Date:** 05/15/18**SAMPLE RESULTS**

Lab ID: L1816596-11 D

Date Collected: 05/08/18 11:55

Client ID: ESI-2-050818

Date Received: 05/08/18

Sample Location: 14 DEMING DRIVE

Field Prep: Not Specified

Sample Depth:

Matrix: Water

Analytical Method: 1,8260C

Analytical Date: 05/11/18 21:42

Analyst: NLK

| Parameter                                    | Result | Qualifier | Units | RL  | MDL  | Dilution Factor |
|----------------------------------------------|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab |        |           |       |     |      |                 |
| Methylene chloride                           | ND     |           | ug/l  | 12  | 3.5  | 5               |
| 1,1-Dichloroethane                           | ND     |           | ug/l  | 12  | 3.5  | 5               |
| Chloroform                                   | ND     |           | ug/l  | 12  | 3.5  | 5               |
| Carbon tetrachloride                         | ND     |           | ug/l  | 2.5 | 0.67 | 5               |
| 1,2-Dichloropropane                          | ND     |           | ug/l  | 5.0 | 0.68 | 5               |
| Dibromochloromethane                         | ND     |           | ug/l  | 2.5 | 0.74 | 5               |
| 1,1,2-Trichloroethane                        | ND     |           | ug/l  | 7.5 | 2.5  | 5               |
| Tetrachloroethene                            | ND     |           | ug/l  | 2.5 | 0.90 | 5               |
| Chlorobenzene                                | ND     |           | ug/l  | 12  | 3.5  | 5               |
| Trichlorofluoromethane                       | ND     |           | ug/l  | 12  | 3.5  | 5               |
| 1,2-Dichloroethane                           | ND     |           | ug/l  | 2.5 | 0.66 | 5               |
| 1,1,1-Trichloroethane                        | ND     |           | ug/l  | 12  | 3.5  | 5               |
| Bromodichloromethane                         | ND     |           | ug/l  | 2.5 | 0.96 | 5               |
| trans-1,3-Dichloropropene                    | ND     |           | ug/l  | 2.5 | 0.82 | 5               |
| cis-1,3-Dichloropropene                      | ND     |           | ug/l  | 2.5 | 0.72 | 5               |
| Bromoform                                    | ND     |           | ug/l  | 10  | 3.2  | 5               |
| 1,1,2,2-Tetrachloroethane                    | ND     |           | ug/l  | 2.5 | 0.84 | 5               |
| Benzene                                      | ND     |           | ug/l  | 2.5 | 0.80 | 5               |
| Toluene                                      | ND     |           | ug/l  | 12  | 3.5  | 5               |
| Ethylbenzene                                 | ND     |           | ug/l  | 12  | 3.5  | 5               |
| Chloromethane                                | ND     |           | ug/l  | 12  | 3.5  | 5               |
| Bromomethane                                 | ND     |           | ug/l  | 12  | 3.5  | 5               |
| Vinyl chloride                               | ND     |           | ug/l  | 5.0 | 0.36 | 5               |
| Chloroethane                                 | ND     |           | ug/l  | 12  | 3.5  | 5               |
| 1,1-Dichloroethene                           | ND     |           | ug/l  | 2.5 | 0.84 | 5               |
| trans-1,2-Dichloroethene                     | 27     |           | ug/l  | 12  | 3.5  | 5               |
| Trichloroethene                              | 450    |           | ug/l  | 2.5 | 0.88 | 5               |
| 1,2-Dichlorobenzene                          | ND     |           | ug/l  | 12  | 3.5  | 5               |

**Project Name:** JAMESTOWN CONTAINER**Lab Number:** L1816596**Project Number:** N30001001**Report Date:** 05/15/18**SAMPLE RESULTS**

Lab ID: L1816596-11 D

Date Collected: 05/08/18 11:55

Client ID: ESI-2-050818

Date Received: 05/08/18

Sample Location: 14 DEMING DRIVE

Field Prep: Not Specified

Sample Depth:

| Parameter                                    | Result | Qualifier | Units | RL   | MDL | Dilution Factor |
|----------------------------------------------|--------|-----------|-------|------|-----|-----------------|
| Volatile Organics by GC/MS - Westborough Lab |        |           |       |      |     |                 |
| 1,3-Dichlorobenzene                          | ND     |           | ug/l  | 12   | 3.5 | 5               |
| 1,4-Dichlorobenzene                          | ND     |           | ug/l  | 12   | 3.5 | 5               |
| Methyl tert butyl ether                      | ND     |           | ug/l  | 12   | 3.5 | 5               |
| p/m-Xylene                                   | ND     |           | ug/l  | 12   | 3.5 | 5               |
| o-Xylene                                     | ND     |           | ug/l  | 12   | 3.5 | 5               |
| cis-1,2-Dichloroethene                       | 480    |           | ug/l  | 12   | 3.5 | 5               |
| Styrene                                      | ND     |           | ug/l  | 12   | 3.5 | 5               |
| Dichlorodifluoromethane                      | ND     |           | ug/l  | 25   | 5.0 | 5               |
| Acetone                                      | ND     |           | ug/l  | 25   | 7.3 | 5               |
| Carbon disulfide                             | ND     |           | ug/l  | 25   | 5.0 | 5               |
| 2-Butanone                                   | ND     |           | ug/l  | 25   | 9.7 | 5               |
| 4-Methyl-2-pentanone                         | ND     |           | ug/l  | 25   | 5.0 | 5               |
| 2-Hexanone                                   | ND     |           | ug/l  | 25   | 5.0 | 5               |
| Bromochloromethane                           | ND     |           | ug/l  | 12   | 3.5 | 5               |
| 1,2-Dibromoethane                            | ND     |           | ug/l  | 10   | 3.2 | 5               |
| 1,2-Dibromo-3-chloropropane                  | ND     |           | ug/l  | 12   | 3.5 | 5               |
| Isopropylbenzene                             | ND     |           | ug/l  | 12   | 3.5 | 5               |
| 1,2,3-Trichlorobenzene                       | ND     |           | ug/l  | 12   | 3.5 | 5               |
| 1,2,4-Trichlorobenzene                       | ND     |           | ug/l  | 12   | 3.5 | 5               |
| Methyl Acetate                               | ND     |           | ug/l  | 10   | 1.2 | 5               |
| Cyclohexane                                  | ND     |           | ug/l  | 50   | 1.4 | 5               |
| 1,4-Dioxane                                  | ND     |           | ug/l  | 1200 | 300 | 5               |
| Freon-113                                    | ND     |           | ug/l  | 12   | 3.5 | 5               |
| Methyl cyclohexane                           | ND     |           | ug/l  | 50   | 2.0 | 5               |

| Surrogate             | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 106        |           | 70-130              |
| Toluene-d8            | 95         |           | 70-130              |
| 4-Bromofluorobenzene  | 94         |           | 70-130              |
| Dibromofluoromethane  | 103        |           | 70-130              |

**Project Name:** JAMESTOWN CONTAINER**Lab Number:** L1816596**Project Number:** N30001001**Report Date:** 05/15/18**SAMPLE RESULTS**

Lab ID: L1816596-12  
 Client ID: PW-3R-050818  
 Sample Location: 14 DEMING DRIVE

Date Collected: 05/08/18 13:00  
 Date Received: 05/08/18  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 1,8260C  
 Analytical Date: 05/11/18 20:52  
 Analyst: NLK

| Parameter                                    | Result | Qualifier | Units | RL   | MDL  | Dilution Factor |
|----------------------------------------------|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab |        |           |       |      |      |                 |
| Methylene chloride                           | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| 1,1-Dichloroethane                           | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Chloroform                                   | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Carbon tetrachloride                         | ND     |           | ug/l  | 0.50 | 0.13 | 1               |
| 1,2-Dichloropropane                          | 0.16   | J         | ug/l  | 1.0  | 0.14 | 1               |
| Dibromochloromethane                         | ND     |           | ug/l  | 0.50 | 0.15 | 1               |
| 1,1,2-Trichloroethane                        | ND     |           | ug/l  | 1.5  | 0.50 | 1               |
| Tetrachloroethene                            | ND     |           | ug/l  | 0.50 | 0.18 | 1               |
| Chlorobenzene                                | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Trichlorofluoromethane                       | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| 1,2-Dichloroethane                           | ND     |           | ug/l  | 0.50 | 0.13 | 1               |
| 1,1,1-Trichloroethane                        | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Bromodichloromethane                         | ND     |           | ug/l  | 0.50 | 0.19 | 1               |
| trans-1,3-Dichloropropene                    | ND     |           | ug/l  | 0.50 | 0.16 | 1               |
| cis-1,3-Dichloropropene                      | ND     |           | ug/l  | 0.50 | 0.14 | 1               |
| Bromoform                                    | ND     |           | ug/l  | 2.0  | 0.65 | 1               |
| 1,1,2,2-Tetrachloroethane                    | ND     |           | ug/l  | 0.50 | 0.17 | 1               |
| Benzene                                      | ND     |           | ug/l  | 0.50 | 0.16 | 1               |
| Toluene                                      | 4.6    |           | ug/l  | 2.5  | 0.70 | 1               |
| Ethylbenzene                                 | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Chloromethane                                | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Bromomethane                                 | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Vinyl chloride                               | 110    |           | ug/l  | 1.0  | 0.07 | 1               |
| Chloroethane                                 | 1.5    | J         | ug/l  | 2.5  | 0.70 | 1               |
| 1,1-Dichloroethene                           | ND     |           | ug/l  | 0.50 | 0.17 | 1               |
| trans-1,2-Dichloroethene                     | 2.2    | J         | ug/l  | 2.5  | 0.70 | 1               |
| Trichloroethene                              | 2.1    |           | ug/l  | 0.50 | 0.18 | 1               |
| 1,2-Dichlorobenzene                          | ND     |           | ug/l  | 2.5  | 0.70 | 1               |

Project Name: JAMESTOWN CONTAINER

Lab Number: L1816596

Project Number: N30001001

Report Date: 05/15/18

## SAMPLE RESULTS

Lab ID: L1816596-12  
 Client ID: PW-3R-050818  
 Sample Location: 14 DEMING DRIVE

Date Collected: 05/08/18 13:00  
 Date Received: 05/08/18  
 Field Prep: Not Specified

Sample Depth:

| Parameter                                    | Result | Qualifier | Units | RL  | MDL  | Dilution Factor |
|----------------------------------------------|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab |        |           |       |     |      |                 |
| 1,3-Dichlorobenzene                          | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| 1,4-Dichlorobenzene                          | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| Methyl tert butyl ether                      | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| p/m-Xylene                                   | 1.1    | J         | ug/l  | 2.5 | 0.70 | 1               |
| o-Xylene                                     | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| cis-1,2-Dichloroethene                       | 70     |           | ug/l  | 2.5 | 0.70 | 1               |
| Styrene                                      | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| Dichlorodifluoromethane                      | ND     |           | ug/l  | 5.0 | 1.0  | 1               |
| Acetone                                      | 9.0    |           | ug/l  | 5.0 | 1.5  | 1               |
| Carbon disulfide                             | ND     |           | ug/l  | 5.0 | 1.0  | 1               |
| 2-Butanone                                   | ND     |           | ug/l  | 5.0 | 1.9  | 1               |
| 4-Methyl-2-pentanone                         | ND     |           | ug/l  | 5.0 | 1.0  | 1               |
| 2-Hexanone                                   | ND     |           | ug/l  | 5.0 | 1.0  | 1               |
| Bromochloromethane                           | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| 1,2-Dibromoethane                            | ND     |           | ug/l  | 2.0 | 0.65 | 1               |
| 1,2-Dibromo-3-chloropropane                  | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| Isopropylbenzene                             | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| 1,2,3-Trichlorobenzene                       | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| 1,2,4-Trichlorobenzene                       | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| Methyl Acetate                               | ND     |           | ug/l  | 2.0 | 0.23 | 1               |
| Cyclohexane                                  | ND     |           | ug/l  | 10  | 0.27 | 1               |
| 1,4-Dioxane                                  | ND     |           | ug/l  | 250 | 61.  | 1               |
| Freon-113                                    | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| Methyl cyclohexane                           | ND     |           | ug/l  | 10  | 0.40 | 1               |

| Surrogate             | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 103        |           | 70-130              |
| Toluene-d8            | 94         |           | 70-130              |
| 4-Bromofluorobenzene  | 97         |           | 70-130              |
| Dibromofluoromethane  | 104        |           | 70-130              |

**Project Name:** JAMESTOWN CONTAINER**Lab Number:** L1816596**Project Number:** N30001001**Report Date:** 05/15/18**SAMPLE RESULTS**

Lab ID: L1816596-13  
 Client ID: TRIP BLANK  
 Sample Location: 14 DEMING DRIVE

Date Collected: 05/08/18 12:00  
 Date Received: 05/08/18  
 Field Prep: Not Specified

Sample Depth:

Matrix: Water  
 Analytical Method: 1,8260C  
 Analytical Date: 05/11/18 21:17  
 Analyst: NLK

| Parameter                                    | Result | Qualifier | Units | RL   | MDL  | Dilution Factor |
|----------------------------------------------|--------|-----------|-------|------|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab |        |           |       |      |      |                 |
| Methylene chloride                           | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| 1,1-Dichloroethane                           | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Chloroform                                   | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Carbon tetrachloride                         | ND     |           | ug/l  | 0.50 | 0.13 | 1               |
| 1,2-Dichloropropane                          | ND     |           | ug/l  | 1.0  | 0.14 | 1               |
| Dibromochloromethane                         | ND     |           | ug/l  | 0.50 | 0.15 | 1               |
| 1,1,2-Trichloroethane                        | ND     |           | ug/l  | 1.5  | 0.50 | 1               |
| Tetrachloroethene                            | ND     |           | ug/l  | 0.50 | 0.18 | 1               |
| Chlorobenzene                                | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Trichlorofluoromethane                       | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| 1,2-Dichloroethane                           | ND     |           | ug/l  | 0.50 | 0.13 | 1               |
| 1,1,1-Trichloroethane                        | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Bromodichloromethane                         | ND     |           | ug/l  | 0.50 | 0.19 | 1               |
| trans-1,3-Dichloropropene                    | ND     |           | ug/l  | 0.50 | 0.16 | 1               |
| cis-1,3-Dichloropropene                      | ND     |           | ug/l  | 0.50 | 0.14 | 1               |
| Bromoform                                    | ND     |           | ug/l  | 2.0  | 0.65 | 1               |
| 1,1,2,2-Tetrachloroethane                    | ND     |           | ug/l  | 0.50 | 0.17 | 1               |
| Benzene                                      | ND     |           | ug/l  | 0.50 | 0.16 | 1               |
| Toluene                                      | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Ethylbenzene                                 | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Chloromethane                                | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Bromomethane                                 | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Vinyl chloride                               | ND     |           | ug/l  | 1.0  | 0.07 | 1               |
| Chloroethane                                 | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| 1,1-Dichloroethene                           | ND     |           | ug/l  | 0.50 | 0.17 | 1               |
| trans-1,2-Dichloroethene                     | ND     |           | ug/l  | 2.5  | 0.70 | 1               |
| Trichloroethene                              | ND     |           | ug/l  | 0.50 | 0.18 | 1               |
| 1,2-Dichlorobenzene                          | ND     |           | ug/l  | 2.5  | 0.70 | 1               |

**Project Name:** JAMESTOWN CONTAINER**Lab Number:** L1816596**Project Number:** N30001001**Report Date:** 05/15/18**SAMPLE RESULTS**

Lab ID: L1816596-13  
 Client ID: TRIP BLANK  
 Sample Location: 14 DEMING DRIVE

Date Collected: 05/08/18 12:00  
 Date Received: 05/08/18  
 Field Prep: Not Specified

Sample Depth:

| Parameter                                    | Result | Qualifier | Units | RL  | MDL  | Dilution Factor |
|----------------------------------------------|--------|-----------|-------|-----|------|-----------------|
| Volatile Organics by GC/MS - Westborough Lab |        |           |       |     |      |                 |
| 1,3-Dichlorobenzene                          | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| 1,4-Dichlorobenzene                          | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| Methyl tert butyl ether                      | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| p/m-Xylene                                   | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| o-Xylene                                     | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| cis-1,2-Dichloroethene                       | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| Styrene                                      | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| Dichlorodifluoromethane                      | ND     |           | ug/l  | 5.0 | 1.0  | 1               |
| Acetone                                      | ND     |           | ug/l  | 5.0 | 1.5  | 1               |
| Carbon disulfide                             | ND     |           | ug/l  | 5.0 | 1.0  | 1               |
| 2-Butanone                                   | ND     |           | ug/l  | 5.0 | 1.9  | 1               |
| 4-Methyl-2-pentanone                         | ND     |           | ug/l  | 5.0 | 1.0  | 1               |
| 2-Hexanone                                   | ND     |           | ug/l  | 5.0 | 1.0  | 1               |
| Bromochloromethane                           | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| 1,2-Dibromoethane                            | ND     |           | ug/l  | 2.0 | 0.65 | 1               |
| 1,2-Dibromo-3-chloropropane                  | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| Isopropylbenzene                             | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| 1,2,3-Trichlorobenzene                       | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| 1,2,4-Trichlorobenzene                       | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| Methyl Acetate                               | ND     |           | ug/l  | 2.0 | 0.23 | 1               |
| Cyclohexane                                  | ND     |           | ug/l  | 10  | 0.27 | 1               |
| 1,4-Dioxane                                  | ND     |           | ug/l  | 250 | 61.  | 1               |
| Freon-113                                    | ND     |           | ug/l  | 2.5 | 0.70 | 1               |
| Methyl cyclohexane                           | ND     |           | ug/l  | 10  | 0.40 | 1               |

| Surrogate             | % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 101        |           | 70-130              |
| Toluene-d8            | 93         |           | 70-130              |
| 4-Bromofluorobenzene  | 95         |           | 70-130              |
| Dibromofluoromethane  | 102        |           | 70-130              |



Project Name: JAMESTOWN CONTAINER

Lab Number: L1816596

Project Number: N30001001

Report Date: 05/15/18

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C  
 Analytical Date: 05/11/18 11:05  
 Analyst: PK

| Parameter                                                                            | Result | Qualifier | Units | RL   | MDL  |
|--------------------------------------------------------------------------------------|--------|-----------|-------|------|------|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-07 Batch: WG1115056-5 |        |           |       |      |      |
| Methylene chloride                                                                   | ND     |           | ug/l  | 2.5  | 0.70 |
| 1,1-Dichloroethane                                                                   | ND     |           | ug/l  | 2.5  | 0.70 |
| Chloroform                                                                           | ND     |           | ug/l  | 2.5  | 0.70 |
| Carbon tetrachloride                                                                 | ND     |           | ug/l  | 0.50 | 0.13 |
| 1,2-Dichloropropane                                                                  | ND     |           | ug/l  | 1.0  | 0.14 |
| Dibromochloromethane                                                                 | ND     |           | ug/l  | 0.50 | 0.15 |
| 1,1,2-Trichloroethane                                                                | ND     |           | ug/l  | 1.5  | 0.50 |
| Tetrachloroethene                                                                    | ND     |           | ug/l  | 0.50 | 0.18 |
| Chlorobenzene                                                                        | ND     |           | ug/l  | 2.5  | 0.70 |
| Trichlorofluoromethane                                                               | ND     |           | ug/l  | 2.5  | 0.70 |
| 1,2-Dichloroethane                                                                   | ND     |           | ug/l  | 0.50 | 0.13 |
| 1,1,1-Trichloroethane                                                                | ND     |           | ug/l  | 2.5  | 0.70 |
| Bromodichloromethane                                                                 | ND     |           | ug/l  | 0.50 | 0.19 |
| trans-1,3-Dichloropropene                                                            | ND     |           | ug/l  | 0.50 | 0.16 |
| cis-1,3-Dichloropropene                                                              | ND     |           | ug/l  | 0.50 | 0.14 |
| Bromoform                                                                            | ND     |           | ug/l  | 2.0  | 0.65 |
| 1,1,2,2-Tetrachloroethane                                                            | ND     |           | ug/l  | 0.50 | 0.17 |
| Benzene                                                                              | ND     |           | ug/l  | 0.50 | 0.16 |
| Toluene                                                                              | ND     |           | ug/l  | 2.5  | 0.70 |
| Ethylbenzene                                                                         | ND     |           | ug/l  | 2.5  | 0.70 |
| Chloromethane                                                                        | ND     |           | ug/l  | 2.5  | 0.70 |
| Bromomethane                                                                         | ND     |           | ug/l  | 2.5  | 0.70 |
| Vinyl chloride                                                                       | ND     |           | ug/l  | 1.0  | 0.07 |
| Chloroethane                                                                         | ND     |           | ug/l  | 2.5  | 0.70 |
| 1,1-Dichloroethene                                                                   | ND     |           | ug/l  | 0.50 | 0.17 |
| trans-1,2-Dichloroethene                                                             | ND     |           | ug/l  | 2.5  | 0.70 |
| Trichloroethene                                                                      | ND     |           | ug/l  | 0.50 | 0.18 |
| 1,2-Dichlorobenzene                                                                  | ND     |           | ug/l  | 2.5  | 0.70 |
| 1,3-Dichlorobenzene                                                                  | ND     |           | ug/l  | 2.5  | 0.70 |

Project Name: JAMESTOWN CONTAINER

Lab Number: L1816596

Project Number: N30001001

Report Date: 05/15/18

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C  
 Analytical Date: 05/11/18 11:05  
 Analyst: PK

| Parameter                                                                            | Result | Qualifier | Units | RL  | MDL  |
|--------------------------------------------------------------------------------------|--------|-----------|-------|-----|------|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-07 Batch: WG1115056-5 |        |           |       |     |      |
| 1,4-Dichlorobenzene                                                                  | ND     |           | ug/l  | 2.5 | 0.70 |
| Methyl tert butyl ether                                                              | ND     |           | ug/l  | 2.5 | 0.70 |
| p/m-Xylene                                                                           | ND     |           | ug/l  | 2.5 | 0.70 |
| o-Xylene                                                                             | ND     |           | ug/l  | 2.5 | 0.70 |
| cis-1,2-Dichloroethene                                                               | ND     |           | ug/l  | 2.5 | 0.70 |
| Styrene                                                                              | ND     |           | ug/l  | 2.5 | 0.70 |
| Dichlorodifluoromethane                                                              | ND     |           | ug/l  | 5.0 | 1.0  |
| Acetone                                                                              | ND     |           | ug/l  | 5.0 | 1.5  |
| Carbon disulfide                                                                     | ND     |           | ug/l  | 5.0 | 1.0  |
| 2-Butanone                                                                           | ND     |           | ug/l  | 5.0 | 1.9  |
| 4-Methyl-2-pentanone                                                                 | ND     |           | ug/l  | 5.0 | 1.0  |
| 2-Hexanone                                                                           | ND     |           | ug/l  | 5.0 | 1.0  |
| Bromochloromethane                                                                   | ND     |           | ug/l  | 2.5 | 0.70 |
| 1,2-Dibromoethane                                                                    | ND     |           | ug/l  | 2.0 | 0.65 |
| 1,2-Dibromo-3-chloropropane                                                          | ND     |           | ug/l  | 2.5 | 0.70 |
| Isopropylbenzene                                                                     | ND     |           | ug/l  | 2.5 | 0.70 |
| 1,2,3-Trichlorobenzene                                                               | ND     |           | ug/l  | 2.5 | 0.70 |
| 1,2,4-Trichlorobenzene                                                               | ND     |           | ug/l  | 2.5 | 0.70 |
| Methyl Acetate                                                                       | ND     |           | ug/l  | 2.0 | 0.23 |
| Cyclohexane                                                                          | ND     |           | ug/l  | 10  | 0.27 |
| 1,4-Dioxane                                                                          | ND     |           | ug/l  | 250 | 61.  |
| Freon-113                                                                            | ND     |           | ug/l  | 2.5 | 0.70 |
| Methyl cyclohexane                                                                   | ND     |           | ug/l  | 10  | 0.40 |

**Project Name:** JAMESTOWN CONTAINER**Lab Number:** L1816596**Project Number:** N30001001**Report Date:** 05/15/18**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C

Analytical Date: 05/11/18 11:05

Analyst: PK

| Parameter                                                                            | Result | Qualifier | Units | RL | MDL |
|--------------------------------------------------------------------------------------|--------|-----------|-------|----|-----|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-07 Batch: WG1115056-5 |        |           |       |    |     |

| Surrogate             | %Recovery | Qualifier | Acceptance<br>Criteria |
|-----------------------|-----------|-----------|------------------------|
| 1,2-Dichloroethane-d4 | 95        |           | 70-130                 |
| Toluene-d8            | 99        |           | 70-130                 |
| 4-Bromofluorobenzene  | 97        |           | 70-130                 |
| Dibromofluoromethane  | 95        |           | 70-130                 |

Project Name: JAMESTOWN CONTAINER

Lab Number: L1816596

Project Number: N30001001

Report Date: 05/15/18

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C  
 Analytical Date: 05/11/18 14:32  
 Analyst: MKS

| Parameter                                                                                  | Result | Qualifier | Units | RL   | MDL  |
|--------------------------------------------------------------------------------------------|--------|-----------|-------|------|------|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 08-09,11-13 Batch: WG1115250-5 |        |           |       |      |      |
| Methylene chloride                                                                         | ND     |           | ug/l  | 2.5  | 0.70 |
| 1,1-Dichloroethane                                                                         | ND     |           | ug/l  | 2.5  | 0.70 |
| Chloroform                                                                                 | ND     |           | ug/l  | 2.5  | 0.70 |
| Carbon tetrachloride                                                                       | ND     |           | ug/l  | 0.50 | 0.13 |
| 1,2-Dichloropropane                                                                        | ND     |           | ug/l  | 1.0  | 0.14 |
| Dibromochloromethane                                                                       | ND     |           | ug/l  | 0.50 | 0.15 |
| 1,1,2-Trichloroethane                                                                      | ND     |           | ug/l  | 1.5  | 0.50 |
| Tetrachloroethene                                                                          | ND     |           | ug/l  | 0.50 | 0.18 |
| Chlorobenzene                                                                              | ND     |           | ug/l  | 2.5  | 0.70 |
| Trichlorofluoromethane                                                                     | ND     |           | ug/l  | 2.5  | 0.70 |
| 1,2-Dichloroethane                                                                         | ND     |           | ug/l  | 0.50 | 0.13 |
| 1,1,1-Trichloroethane                                                                      | ND     |           | ug/l  | 2.5  | 0.70 |
| Bromodichloromethane                                                                       | ND     |           | ug/l  | 0.50 | 0.19 |
| trans-1,3-Dichloropropene                                                                  | ND     |           | ug/l  | 0.50 | 0.16 |
| cis-1,3-Dichloropropene                                                                    | ND     |           | ug/l  | 0.50 | 0.14 |
| Bromoform                                                                                  | ND     |           | ug/l  | 2.0  | 0.65 |
| 1,1,2,2-Tetrachloroethane                                                                  | ND     |           | ug/l  | 0.50 | 0.17 |
| Benzene                                                                                    | ND     |           | ug/l  | 0.50 | 0.16 |
| Toluene                                                                                    | ND     |           | ug/l  | 2.5  | 0.70 |
| Ethylbenzene                                                                               | ND     |           | ug/l  | 2.5  | 0.70 |
| Chloromethane                                                                              | ND     |           | ug/l  | 2.5  | 0.70 |
| Bromomethane                                                                               | ND     |           | ug/l  | 2.5  | 0.70 |
| Vinyl chloride                                                                             | ND     |           | ug/l  | 1.0  | 0.07 |
| Chloroethane                                                                               | ND     |           | ug/l  | 2.5  | 0.70 |
| 1,1-Dichloroethene                                                                         | ND     |           | ug/l  | 0.50 | 0.17 |
| trans-1,2-Dichloroethene                                                                   | ND     |           | ug/l  | 2.5  | 0.70 |
| Trichloroethene                                                                            | ND     |           | ug/l  | 0.50 | 0.18 |
| 1,2-Dichlorobenzene                                                                        | ND     |           | ug/l  | 2.5  | 0.70 |
| 1,3-Dichlorobenzene                                                                        | ND     |           | ug/l  | 2.5  | 0.70 |

Project Name: JAMESTOWN CONTAINER

Lab Number: L1816596

Project Number: N30001001

Report Date: 05/15/18

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C  
 Analytical Date: 05/11/18 14:32  
 Analyst: MKS

| Parameter                                                                                  | Result | Qualifier | Units | RL  | MDL  |
|--------------------------------------------------------------------------------------------|--------|-----------|-------|-----|------|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 08-09,11-13 Batch: WG1115250-5 |        |           |       |     |      |
| 1,4-Dichlorobenzene                                                                        | ND     |           | ug/l  | 2.5 | 0.70 |
| Methyl tert butyl ether                                                                    | ND     |           | ug/l  | 2.5 | 0.70 |
| p/m-Xylene                                                                                 | ND     |           | ug/l  | 2.5 | 0.70 |
| o-Xylene                                                                                   | ND     |           | ug/l  | 2.5 | 0.70 |
| cis-1,2-Dichloroethene                                                                     | ND     |           | ug/l  | 2.5 | 0.70 |
| Styrene                                                                                    | ND     |           | ug/l  | 2.5 | 0.70 |
| Dichlorodifluoromethane                                                                    | ND     |           | ug/l  | 5.0 | 1.0  |
| Acetone                                                                                    | ND     |           | ug/l  | 5.0 | 1.5  |
| Carbon disulfide                                                                           | ND     |           | ug/l  | 5.0 | 1.0  |
| 2-Butanone                                                                                 | ND     |           | ug/l  | 5.0 | 1.9  |
| 4-Methyl-2-pentanone                                                                       | ND     |           | ug/l  | 5.0 | 1.0  |
| 2-Hexanone                                                                                 | ND     |           | ug/l  | 5.0 | 1.0  |
| Bromochloromethane                                                                         | ND     |           | ug/l  | 2.5 | 0.70 |
| 1,2-Dibromoethane                                                                          | ND     |           | ug/l  | 2.0 | 0.65 |
| 1,2-Dibromo-3-chloropropane                                                                | ND     |           | ug/l  | 2.5 | 0.70 |
| Isopropylbenzene                                                                           | ND     |           | ug/l  | 2.5 | 0.70 |
| 1,2,3-Trichlorobenzene                                                                     | ND     |           | ug/l  | 2.5 | 0.70 |
| 1,2,4-Trichlorobenzene                                                                     | ND     |           | ug/l  | 2.5 | 0.70 |
| Methyl Acetate                                                                             | ND     |           | ug/l  | 2.0 | 0.23 |
| Cyclohexane                                                                                | ND     |           | ug/l  | 10  | 0.27 |
| 1,4-Dioxane                                                                                | ND     |           | ug/l  | 250 | 61.  |
| Freon-113                                                                                  | ND     |           | ug/l  | 2.5 | 0.70 |
| Methyl cyclohexane                                                                         | ND     |           | ug/l  | 10  | 0.40 |

**Project Name:** JAMESTOWN CONTAINER**Lab Number:** L1816596**Project Number:** N30001001**Report Date:** 05/15/18

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C  
 Analytical Date: 05/11/18 14:32  
 Analyst: MKS

| Parameter                                                                                  | Result | Qualifier | Units | RL | MDL |
|--------------------------------------------------------------------------------------------|--------|-----------|-------|----|-----|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 08-09,11-13 Batch: WG1115250-5 |        |           |       |    |     |

| Surrogate             | %Recovery | Qualifier | Acceptance Criteria |
|-----------------------|-----------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 101       |           | 70-130              |
| Toluene-d8            | 95        |           | 70-130              |
| 4-Bromofluorobenzene  | 95        |           | 70-130              |
| Dibromofluoromethane  | 99        |           | 70-130              |

Project Name: JAMESTOWN CONTAINER

Lab Number: L1816596

Project Number: N30001001

Report Date: 05/15/18

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C  
 Analytical Date: 05/12/18 08:27  
 Analyst: NLK

| Parameter                                                                         | Result | Qualifier | Units | RL   | MDL  |
|-----------------------------------------------------------------------------------|--------|-----------|-------|------|------|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 10 Batch: WG1115382-5 |        |           |       |      |      |
| Methylene chloride                                                                | ND     |           | ug/l  | 2.5  | 0.70 |
| 1,1-Dichloroethane                                                                | ND     |           | ug/l  | 2.5  | 0.70 |
| Chloroform                                                                        | ND     |           | ug/l  | 2.5  | 0.70 |
| Carbon tetrachloride                                                              | ND     |           | ug/l  | 0.50 | 0.13 |
| 1,2-Dichloropropane                                                               | ND     |           | ug/l  | 1.0  | 0.14 |
| Dibromochloromethane                                                              | ND     |           | ug/l  | 0.50 | 0.15 |
| 1,1,2-Trichloroethane                                                             | ND     |           | ug/l  | 1.5  | 0.50 |
| Tetrachloroethene                                                                 | ND     |           | ug/l  | 0.50 | 0.18 |
| Chlorobenzene                                                                     | ND     |           | ug/l  | 2.5  | 0.70 |
| Trichlorofluoromethane                                                            | ND     |           | ug/l  | 2.5  | 0.70 |
| 1,2-Dichloroethane                                                                | ND     |           | ug/l  | 0.50 | 0.13 |
| 1,1,1-Trichloroethane                                                             | ND     |           | ug/l  | 2.5  | 0.70 |
| Bromodichloromethane                                                              | ND     |           | ug/l  | 0.50 | 0.19 |
| trans-1,3-Dichloropropene                                                         | ND     |           | ug/l  | 0.50 | 0.16 |
| cis-1,3-Dichloropropene                                                           | ND     |           | ug/l  | 0.50 | 0.14 |
| Bromoform                                                                         | ND     |           | ug/l  | 2.0  | 0.65 |
| 1,1,2,2-Tetrachloroethane                                                         | ND     |           | ug/l  | 0.50 | 0.17 |
| Benzene                                                                           | ND     |           | ug/l  | 0.50 | 0.16 |
| Toluene                                                                           | ND     |           | ug/l  | 2.5  | 0.70 |
| Ethylbenzene                                                                      | ND     |           | ug/l  | 2.5  | 0.70 |
| Chloromethane                                                                     | ND     |           | ug/l  | 2.5  | 0.70 |
| Bromomethane                                                                      | ND     |           | ug/l  | 2.5  | 0.70 |
| Vinyl chloride                                                                    | ND     |           | ug/l  | 1.0  | 0.07 |
| Chloroethane                                                                      | ND     |           | ug/l  | 2.5  | 0.70 |
| 1,1-Dichloroethene                                                                | ND     |           | ug/l  | 0.50 | 0.17 |
| trans-1,2-Dichloroethene                                                          | ND     |           | ug/l  | 2.5  | 0.70 |
| Trichloroethene                                                                   | ND     |           | ug/l  | 0.50 | 0.18 |
| 1,2-Dichlorobenzene                                                               | ND     |           | ug/l  | 2.5  | 0.70 |
| 1,3-Dichlorobenzene                                                               | ND     |           | ug/l  | 2.5  | 0.70 |

Project Name: JAMESTOWN CONTAINER

Lab Number: L1816596

Project Number: N30001001

Report Date: 05/15/18

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260C  
 Analytical Date: 05/12/18 08:27  
 Analyst: NLK

| Parameter                                                                         | Result | Qualifier | Units | RL  | MDL  |
|-----------------------------------------------------------------------------------|--------|-----------|-------|-----|------|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 10 Batch: WG1115382-5 |        |           |       |     |      |
| 1,4-Dichlorobenzene                                                               | ND     |           | ug/l  | 2.5 | 0.70 |
| Methyl tert butyl ether                                                           | ND     |           | ug/l  | 2.5 | 0.70 |
| p/m-Xylene                                                                        | ND     |           | ug/l  | 2.5 | 0.70 |
| o-Xylene                                                                          | ND     |           | ug/l  | 2.5 | 0.70 |
| cis-1,2-Dichloroethene                                                            | ND     |           | ug/l  | 2.5 | 0.70 |
| Styrene                                                                           | ND     |           | ug/l  | 2.5 | 0.70 |
| Dichlorodifluoromethane                                                           | ND     |           | ug/l  | 5.0 | 1.0  |
| Acetone                                                                           | ND     |           | ug/l  | 5.0 | 1.5  |
| Carbon disulfide                                                                  | ND     |           | ug/l  | 5.0 | 1.0  |
| 2-Butanone                                                                        | ND     |           | ug/l  | 5.0 | 1.9  |
| 4-Methyl-2-pentanone                                                              | ND     |           | ug/l  | 5.0 | 1.0  |
| 2-Hexanone                                                                        | ND     |           | ug/l  | 5.0 | 1.0  |
| Bromochloromethane                                                                | ND     |           | ug/l  | 2.5 | 0.70 |
| 1,2-Dibromoethane                                                                 | ND     |           | ug/l  | 2.0 | 0.65 |
| 1,2-Dibromo-3-chloropropane                                                       | ND     |           | ug/l  | 2.5 | 0.70 |
| Isopropylbenzene                                                                  | ND     |           | ug/l  | 2.5 | 0.70 |
| 1,2,3-Trichlorobenzene                                                            | ND     |           | ug/l  | 2.5 | 0.70 |
| 1,2,4-Trichlorobenzene                                                            | ND     |           | ug/l  | 2.5 | 0.70 |
| Methyl Acetate                                                                    | ND     |           | ug/l  | 2.0 | 0.23 |
| Cyclohexane                                                                       | ND     |           | ug/l  | 10  | 0.27 |
| 1,4-Dioxane                                                                       | ND     |           | ug/l  | 250 | 61.  |
| Freon-113                                                                         | ND     |           | ug/l  | 2.5 | 0.70 |
| Methyl cyclohexane                                                                | ND     |           | ug/l  | 10  | 0.40 |



**Project Name:** JAMESTOWN CONTAINER**Lab Number:** L1816596**Project Number:** N30001001**Report Date:** 05/15/18**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260C

Analytical Date: 05/12/18 08:27

Analyst: NLK

| Parameter                                                                         | Result | Qualifier | Units | RL | MDL |
|-----------------------------------------------------------------------------------|--------|-----------|-------|----|-----|
| Volatile Organics by GC/MS - Westborough Lab for sample(s): 10 Batch: WG1115382-5 |        |           |       |    |     |

| Surrogate             | %Recovery | Qualifier | Acceptance Criteria |
|-----------------------|-----------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 104       |           | 70-130              |
| Toluene-d8            | 97        |           | 70-130              |
| 4-Bromofluorobenzene  | 97        |           | 70-130              |
| Dibromofluoromethane  | 102       |           | 70-130              |

# **Lab Control Sample Analysis** Batch Quality Control

**Project Name:** JAMESTOWN CONTAINER

**Lab Number:** L1816596

**Project Number:** N30001001

**Report Date:** 05/15/18

| Parameter                                                                                               | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|---------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG1115056-3 WG1115056-4 |                  |      |                   |      |                     |     |      |               |
| Methylene chloride                                                                                      | 97               |      | 91                |      | 70-130              | 6   |      | 20            |
| 1,1-Dichloroethane                                                                                      | 100              |      | 95                |      | 70-130              | 5   |      | 20            |
| Chloroform                                                                                              | 90               |      | 85                |      | 70-130              | 6   |      | 20            |
| Carbon tetrachloride                                                                                    | 87               |      | 81                |      | 63-132              | 7   |      | 20            |
| 1,2-Dichloropropane                                                                                     | 100              |      | 96                |      | 70-130              | 4   |      | 20            |
| Dibromochloromethane                                                                                    | 93               |      | 89                |      | 63-130              | 4   |      | 20            |
| 1,1,2-Trichloroethane                                                                                   | 100              |      | 95                |      | 70-130              | 5   |      | 20            |
| Tetrachloroethene                                                                                       | 87               |      | 80                |      | 70-130              | 8   |      | 20            |
| Chlorobenzene                                                                                           | 94               |      | 89                |      | 75-130              | 5   |      | 20            |
| Trichlorofluoromethane                                                                                  | 88               |      | 79                |      | 62-150              | 11  |      | 20            |
| 1,2-Dichloroethane                                                                                      | 90               |      | 86                |      | 70-130              | 5   |      | 20            |
| 1,1,1-Trichloroethane                                                                                   | 89               |      | 84                |      | 67-130              | 6   |      | 20            |
| Bromodichloromethane                                                                                    | 88               |      | 82                |      | 67-130              | 7   |      | 20            |
| trans-1,3-Dichloropropene                                                                               | 100              |      | 90                |      | 70-130              | 11  |      | 20            |
| cis-1,3-Dichloropropene                                                                                 | 91               |      | 87                |      | 70-130              | 4   |      | 20            |
| Bromoform                                                                                               | 94               |      | 92                |      | 54-136              | 2   |      | 20            |
| 1,1,2,2-Tetrachloroethane                                                                               | 110              |      | 110               |      | 67-130              | 0   |      | 20            |
| Benzene                                                                                                 | 89               |      | 84                |      | 70-130              | 6   |      | 20            |
| Toluene                                                                                                 | 97               |      | 89                |      | 70-130              | 9   |      | 20            |
| Ethylbenzene                                                                                            | 94               |      | 88                |      | 70-130              | 7   |      | 20            |
| Chloromethane                                                                                           | 100              |      | 92                |      | 64-130              | 8   |      | 20            |
| Bromomethane                                                                                            | 48               |      | 45                |      | 39-139              | 6   |      | 20            |
| Vinyl chloride                                                                                          | 70               |      | 64                |      | 55-140              | 9   |      | 20            |

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** JAMESTOWN CONTAINER

**Project Number:** N30001001

**Lab Number:** L1816596

**Report Date:** 05/15/18

| Parameter                                                                                               | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|---------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG1115056-3 WG1115056-4 |                  |      |                   |      |                     |     |      |               |
| Chloroethane                                                                                            | 85               |      | 75                |      | 55-138              | 13  |      | 20            |
| 1,1-Dichloroethene                                                                                      | 91               |      | 85                |      | 61-145              | 7   |      | 20            |
| trans-1,2-Dichloroethene                                                                                | 94               |      | 88                |      | 70-130              | 7   |      | 20            |
| Trichloroethene                                                                                         | 86               |      | 78                |      | 70-130              | 10  |      | 20            |
| 1,2-Dichlorobenzene                                                                                     | 94               |      | 92                |      | 70-130              | 2   |      | 20            |
| 1,3-Dichlorobenzene                                                                                     | 94               |      | 89                |      | 70-130              | 5   |      | 20            |
| 1,4-Dichlorobenzene                                                                                     | 93               |      | 90                |      | 70-130              | 3   |      | 20            |
| Methyl tert butyl ether                                                                                 | 95               |      | 92                |      | 63-130              | 3   |      | 20            |
| p/m-Xylene                                                                                              | 95               |      | 90                |      | 70-130              | 5   |      | 20            |
| o-Xylene                                                                                                | 95               |      | 90                |      | 70-130              | 5   |      | 20            |
| cis-1,2-Dichloroethene                                                                                  | 91               |      | 85                |      | 70-130              | 7   |      | 20            |
| Styrene                                                                                                 | 140              | Q    | 130               |      | 70-130              | 7   |      | 20            |
| Dichlorodifluoromethane                                                                                 | 65               |      | 59                |      | 36-147              | 10  |      | 20            |
| Acetone                                                                                                 | 130              |      | 130               |      | 58-148              | 0   |      | 20            |
| Carbon disulfide                                                                                        | 94               |      | 86                |      | 51-130              | 9   |      | 20            |
| 2-Butanone                                                                                              | 130              |      | 130               |      | 63-138              | 0   |      | 20            |
| 4-Methyl-2-pentanone                                                                                    | 120              |      | 110               |      | 59-130              | 9   |      | 20            |
| 2-Hexanone                                                                                              | 100              |      | 100               |      | 57-130              | 0   |      | 20            |
| Bromochloromethane                                                                                      | 87               |      | 82                |      | 70-130              | 6   |      | 20            |
| 1,2-Dibromoethane                                                                                       | 94               |      | 91                |      | 70-130              | 3   |      | 20            |
| 1,2-Dibromo-3-chloropropane                                                                             | 99               |      | 93                |      | 41-144              | 6   |      | 20            |
| Isopropylbenzene                                                                                        | 98               |      | 93                |      | 70-130              | 5   |      | 20            |
| 1,2,3-Trichlorobenzene                                                                                  | 77               |      | 77                |      | 70-130              | 0   |      | 20            |

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** JAMESTOWN CONTAINER

**Project Number:** N30001001

**Lab Number:** L1816596

**Report Date:** 05/15/18

| Parameter                                                                                               | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|---------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG1115056-3 WG1115056-4 |                  |      |                   |      |                     |     |      |               |
| 1,2,4-Trichlorobenzene                                                                                  | 80               |      | 78                |      | 70-130              | 3   |      | 20            |
| Methyl Acetate                                                                                          | 130              |      | 130               |      | 70-130              | 0   |      | 20            |
| Cyclohexane                                                                                             | 110              |      | 100               |      | 70-130              | 10  |      | 20            |
| 1,4-Dioxane                                                                                             | 190              | Q    | 152               |      | 56-162              | 22  | Q    | 20            |
| Freon-113                                                                                               | 93               |      | 85                |      | 70-130              | 9   |      | 20            |
| Methyl cyclohexane                                                                                      | 91               |      | 84                |      | 70-130              | 8   |      | 20            |

| Surrogate             | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | Acceptance<br>Criteria |
|-----------------------|------------------|------|-------------------|------|------------------------|
| 1,2-Dichloroethane-d4 | 94               |      | 94                |      | 70-130                 |
| Toluene-d8            | 101              |      | 99                |      | 70-130                 |
| 4-Bromofluorobenzene  | 97               |      | 99                |      | 70-130                 |
| Dibromofluoromethane  | 92               |      | 93                |      | 70-130                 |

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** JAMESTOWN CONTAINER

**Project Number:** N30001001

**Lab Number:** L1816596

**Report Date:** 05/15/18

| Parameter                                                                                                     | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|---------------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08-09,11-13 Batch: WG1115250-3 WG1115250-4 |                  |      |                   |      |                     |     |      |               |
| Methylene chloride                                                                                            | 92               |      | 89                |      | 70-130              | 3   |      | 20            |
| 1,1-Dichloroethane                                                                                            | 91               |      | 88                |      | 70-130              | 3   |      | 20            |
| Chloroform                                                                                                    | 90               |      | 87                |      | 70-130              | 3   |      | 20            |
| Carbon tetrachloride                                                                                          | 92               |      | 88                |      | 63-132              | 4   |      | 20            |
| 1,2-Dichloropropane                                                                                           | 90               |      | 89                |      | 70-130              | 1   |      | 20            |
| Dibromochloromethane                                                                                          | 86               |      | 83                |      | 63-130              | 4   |      | 20            |
| 1,1,2-Trichloroethane                                                                                         | 90               |      | 88                |      | 70-130              | 2   |      | 20            |
| Tetrachloroethene                                                                                             | 96               |      | 89                |      | 70-130              | 8   |      | 20            |
| Chlorobenzene                                                                                                 | 90               |      | 85                |      | 75-130              | 6   |      | 20            |
| Trichlorofluoromethane                                                                                        | 110              |      | 100               |      | 62-150              | 10  |      | 20            |
| 1,2-Dichloroethane                                                                                            | 94               |      | 92                |      | 70-130              | 2   |      | 20            |
| 1,1,1-Trichloroethane                                                                                         | 95               |      | 90                |      | 67-130              | 5   |      | 20            |
| Bromodichloromethane                                                                                          | 90               |      | 87                |      | 67-130              | 3   |      | 20            |
| trans-1,3-Dichloropropene                                                                                     | 88               |      | 85                |      | 70-130              | 3   |      | 20            |
| cis-1,3-Dichloropropene                                                                                       | 91               |      | 90                |      | 70-130              | 1   |      | 20            |
| Bromoform                                                                                                     | 83               |      | 86                |      | 54-136              | 4   |      | 20            |
| 1,1,2,2-Tetrachloroethane                                                                                     | 86               |      | 87                |      | 67-130              | 1   |      | 20            |
| Benzene                                                                                                       | 94               |      | 90                |      | 70-130              | 4   |      | 20            |
| Toluene                                                                                                       | 88               |      | 83                |      | 70-130              | 6   |      | 20            |
| Ethylbenzene                                                                                                  | 90               |      | 86                |      | 70-130              | 5   |      | 20            |
| Chloromethane                                                                                                 | 88               |      | 82                |      | 64-130              | 7   |      | 20            |
| Bromomethane                                                                                                  | 73               |      | 72                |      | 39-139              | 1   |      | 20            |
| Vinyl chloride                                                                                                | 88               |      | 84                |      | 55-140              | 5   |      | 20            |

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** JAMESTOWN CONTAINER

**Project Number:** N30001001

**Lab Number:** L1816596

**Report Date:** 05/15/18

| Parameter                                                                                                     | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|---------------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08-09,11-13 Batch: WG1115250-3 WG1115250-4 |                  |      |                   |      |                     |     |      |               |
| Chloroethane                                                                                                  | 87               |      | 86                |      | 55-138              | 1   |      | 20            |
| 1,1-Dichloroethene                                                                                            | 95               |      | 90                |      | 61-145              | 5   |      | 20            |
| trans-1,2-Dichloroethene                                                                                      | 92               |      | 88                |      | 70-130              | 4   |      | 20            |
| Trichloroethene                                                                                               | 97               |      | 93                |      | 70-130              | 4   |      | 20            |
| 1,2-Dichlorobenzene                                                                                           | 83               |      | 83                |      | 70-130              | 0   |      | 20            |
| 1,3-Dichlorobenzene                                                                                           | 85               |      | 83                |      | 70-130              | 2   |      | 20            |
| 1,4-Dichlorobenzene                                                                                           | 84               |      | 82                |      | 70-130              | 2   |      | 20            |
| Methyl tert butyl ether                                                                                       | 100              |      | 100               |      | 63-130              | 0   |      | 20            |
| p/m-Xylene                                                                                                    | 95               |      | 90                |      | 70-130              | 5   |      | 20            |
| o-Xylene                                                                                                      | 95               |      | 90                |      | 70-130              | 5   |      | 20            |
| cis-1,2-Dichloroethene                                                                                        | 89               |      | 87                |      | 70-130              | 2   |      | 20            |
| Styrene                                                                                                       | 95               |      | 90                |      | 70-130              | 5   |      | 20            |
| Dichlorodifluoromethane                                                                                       | 110              |      | 100               |      | 36-147              | 10  |      | 20            |
| Acetone                                                                                                       | 99               |      | 100               |      | 58-148              | 1   |      | 20            |
| Carbon disulfide                                                                                              | 96               |      | 89                |      | 51-130              | 8   |      | 20            |
| 2-Butanone                                                                                                    | 96               |      | 110               |      | 63-138              | 14  |      | 20            |
| 4-Methyl-2-pentanone                                                                                          | 93               |      | 94                |      | 59-130              | 1   |      | 20            |
| 2-Hexanone                                                                                                    | 90               |      | 92                |      | 57-130              | 2   |      | 20            |
| Bromochloromethane                                                                                            | 96               |      | 92                |      | 70-130              | 4   |      | 20            |
| 1,2-Dibromoethane                                                                                             | 88               |      | 87                |      | 70-130              | 1   |      | 20            |
| 1,2-Dibromo-3-chloropropane                                                                                   | 87               |      | 92                |      | 41-144              | 6   |      | 20            |
| Isopropylbenzene                                                                                              | 88               |      | 85                |      | 70-130              | 3   |      | 20            |
| 1,2,3-Trichlorobenzene                                                                                        | 86               |      | 86                |      | 70-130              | 0   |      | 20            |

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** JAMESTOWN CONTAINER

**Project Number:** N30001001

**Lab Number:** L1816596

**Report Date:** 05/15/18

| Parameter                                                                                                     | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|---------------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 08-09,11-13 Batch: WG1115250-3 WG1115250-4 |                  |      |                   |      |                     |     |      |               |
| 1,2,4-Trichlorobenzene                                                                                        | 84               |      | 82                |      | 70-130              | 2   |      | 20            |
| Methyl Acetate                                                                                                | 95               |      | 100               |      | 70-130              | 5   |      | 20            |
| Cyclohexane                                                                                                   | 100              |      | 98                |      | 70-130              | 2   |      | 20            |
| 1,4-Dioxane                                                                                                   | 104              |      | 148               |      | 56-162              | 35  | Q    | 20            |
| Freon-113                                                                                                     | 110              |      | 99                |      | 70-130              | 11  |      | 20            |
| Methyl cyclohexane                                                                                            | 110              |      | 100               |      | 70-130              | 10  |      | 20            |

| Surrogate             | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | Acceptance<br>Criteria |
|-----------------------|------------------|------|-------------------|------|------------------------|
| 1,2-Dichloroethane-d4 | 100              |      | 100               |      | 70-130                 |
| Toluene-d8            | 96               |      | 96                |      | 70-130                 |
| 4-Bromofluorobenzene  | 94               |      | 94                |      | 70-130                 |
| Dibromofluoromethane  | 102              |      | 102               |      | 70-130                 |

# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** JAMESTOWN CONTAINER

**Lab Number:** L1816596

**Project Number:** N30001001

**Report Date:** 05/15/18

| Parameter                                                                                            | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 10 Batch: WG1115382-3 WG1115382-4 |                  |      |                   |      |                     |     |      |               |
| Methylene chloride                                                                                   | 97               |      | 96                |      | 70-130              | 1   |      | 20            |
| 1,1-Dichloroethane                                                                                   | 100              |      | 98                |      | 70-130              | 2   |      | 20            |
| Chloroform                                                                                           | 99               |      | 97                |      | 70-130              | 2   |      | 20            |
| Carbon tetrachloride                                                                                 | 100              |      | 100               |      | 63-132              | 0   |      | 20            |
| 1,2-Dichloropropane                                                                                  | 96               |      | 97                |      | 70-130              | 1   |      | 20            |
| Dibromochloromethane                                                                                 | 92               |      | 92                |      | 63-130              | 0   |      | 20            |
| 1,1,2-Trichloroethane                                                                                | 99               |      | 100               |      | 70-130              | 1   |      | 20            |
| Tetrachloroethene                                                                                    | 100              |      | 98                |      | 70-130              | 2   |      | 20            |
| Chlorobenzene                                                                                        | 100              |      | 97                |      | 75-130              | 3   |      | 20            |
| Trichlorofluoromethane                                                                               | 93               |      | 96                |      | 62-150              | 3   |      | 20            |
| 1,2-Dichloroethane                                                                                   | 98               |      | 100               |      | 70-130              | 2   |      | 20            |
| 1,1,1-Trichloroethane                                                                                | 100              |      | 100               |      | 67-130              | 0   |      | 20            |
| Bromodichloromethane                                                                                 | 94               |      | 96                |      | 67-130              | 2   |      | 20            |
| trans-1,3-Dichloropropene                                                                            | 99               |      | 98                |      | 70-130              | 1   |      | 20            |
| cis-1,3-Dichloropropene                                                                              | 97               |      | 97                |      | 70-130              | 0   |      | 20            |
| Bromoform                                                                                            | 87               |      | 89                |      | 54-136              | 2   |      | 20            |
| 1,1,2,2-Tetrachloroethane                                                                            | 97               |      | 100               |      | 67-130              | 3   |      | 20            |
| Benzene                                                                                              | 100              |      | 98                |      | 70-130              | 2   |      | 20            |
| Toluene                                                                                              | 100              |      | 97                |      | 70-130              | 3   |      | 20            |
| Ethylbenzene                                                                                         | 110              |      | 100               |      | 70-130              | 10  |      | 20            |
| Chloromethane                                                                                        | 100              |      | 96                |      | 64-130              | 4   |      | 20            |
| Bromomethane                                                                                         | 120              |      | 130               |      | 39-139              | 8   |      | 20            |
| Vinyl chloride                                                                                       | 98               |      | 99                |      | 55-140              | 1   |      | 20            |



# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** JAMESTOWN CONTAINER

**Lab Number:** L1816596

**Project Number:** N30001001

**Report Date:** 05/15/18

| Parameter                                                                                            | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 10 Batch: WG1115382-3 WG1115382-4 |                  |      |                   |      |                     |     |      |               |
| Chloroethane                                                                                         | 100              |      | 98                |      | 55-138              | 2   |      | 20            |
| 1,1-Dichloroethene                                                                                   | 95               |      | 94                |      | 61-145              | 1   |      | 20            |
| trans-1,2-Dichloroethene                                                                             | 100              |      | 97                |      | 70-130              | 3   |      | 20            |
| Trichloroethene                                                                                      | 100              |      | 100               |      | 70-130              | 0   |      | 20            |
| 1,2-Dichlorobenzene                                                                                  | 96               |      | 98                |      | 70-130              | 2   |      | 20            |
| 1,3-Dichlorobenzene                                                                                  | 99               |      | 97                |      | 70-130              | 2   |      | 20            |
| 1,4-Dichlorobenzene                                                                                  | 97               |      | 97                |      | 70-130              | 0   |      | 20            |
| Methyl tert butyl ether                                                                              | 95               |      | 100               |      | 63-130              | 5   |      | 20            |
| p/m-Xylene                                                                                           | 110              |      | 100               |      | 70-130              | 10  |      | 20            |
| o-Xylene                                                                                             | 105              |      | 100               |      | 70-130              | 5   |      | 20            |
| cis-1,2-Dichloroethene                                                                               | 100              |      | 98                |      | 70-130              | 2   |      | 20            |
| Styrene                                                                                              | 105              |      | 105               |      | 70-130              | 0   |      | 20            |
| Dichlorodifluoromethane                                                                              | 94               |      | 96                |      | 36-147              | 2   |      | 20            |
| Acetone                                                                                              | 120              |      | 100               |      | 58-148              | 18  |      | 20            |
| Carbon disulfide                                                                                     | 110              |      | 96                |      | 51-130              | 14  |      | 20            |
| 2-Butanone                                                                                           | 100              |      | 110               |      | 63-138              | 10  |      | 20            |
| 4-Methyl-2-pentanone                                                                                 | 100              |      | 100               |      | 59-130              | 0   |      | 20            |
| 2-Hexanone                                                                                           | 100              |      | 100               |      | 57-130              | 0   |      | 20            |
| Bromochloromethane                                                                                   | 99               |      | 100               |      | 70-130              | 1   |      | 20            |
| 1,2-Dibromoethane                                                                                    | 98               |      | 98                |      | 70-130              | 0   |      | 20            |
| 1,2-Dibromo-3-chloropropane                                                                          | 88               |      | 93                |      | 41-144              | 6   |      | 20            |
| Isopropylbenzene                                                                                     | 110              |      | 99                |      | 70-130              | 11  |      | 20            |
| 1,2,3-Trichlorobenzene                                                                               | 160              | Q    | 190               | Q    | 70-130              | 17  |      | 20            |

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** JAMESTOWN CONTAINER

**Project Number:** N30001001

**Lab Number:** L1816596

**Report Date:** 05/15/18

| Parameter                                                                                            | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|------------------------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 10 Batch: WG1115382-3 WG1115382-4 |                  |      |                   |      |                     |     |      |               |
| 1,2,4-Trichlorobenzene                                                                               | 110              |      | 120               |      | 70-130              | 9   |      | 20            |
| Methyl Acetate                                                                                       | 100              |      | 110               |      | 70-130              | 10  |      | 20            |
| Cyclohexane                                                                                          | 100              |      | 96                |      | 70-130              | 4   |      | 20            |
| 1,4-Dioxane                                                                                          | 118              |      | 132               |      | 56-162              | 11  |      | 20            |
| Freon-113                                                                                            | 100              |      | 100               |      | 70-130              | 0   |      | 20            |
| Methyl cyclohexane                                                                                   | 110              |      | 96                |      | 70-130              | 14  |      | 20            |

| Surrogate             | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | Acceptance<br>Criteria |
|-----------------------|------------------|------|-------------------|------|------------------------|
| 1,2-Dichloroethane-d4 | 106              |      | 106               |      | 70-130                 |
| Toluene-d8            | 100              |      | 98                |      | 70-130                 |
| 4-Bromofluorobenzene  | 99               |      | 98                |      | 70-130                 |
| Dibromofluoromethane  | 101              |      | 100               |      | 70-130                 |

# Matrix Spike Analysis

## Batch Quality Control

**Project Name:** JAMESTOWN CONTAINER

**Project Number:** N30001001

**Lab Number:** L1816596

**Report Date:** 05/15/18

| Parameter                                                                                                                                                 | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------|----------|--------------|------|-----------|---------------|------|-----------------|-----|------|------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 10 QC Batch ID: WG1115382-6 WG1115382-7 QC Sample: L1816596-10 Client ID: ESI-6-050818 |               |          |          |              |      |           |               |      |                 |     |      |            |
| Methylene chloride                                                                                                                                        | ND            | 10       | 10       | 100          |      | 10        | 100           |      | 70-130          | 0   |      | 20         |
| 1,1-Dichloroethane                                                                                                                                        | ND            | 10       | 11       | 110          |      | 10        | 100           |      | 70-130          | 10  |      | 20         |
| Chloroform                                                                                                                                                | ND            | 10       | 11       | 110          |      | 10        | 100           |      | 70-130          | 10  |      | 20         |
| Carbon tetrachloride                                                                                                                                      | ND            | 10       | 11       | 110          |      | 10        | 100           |      | 63-132          | 10  |      | 20         |
| 1,2-Dichloropropane                                                                                                                                       | ND            | 10       | 10       | 100          |      | 10        | 100           |      | 70-130          | 0   |      | 20         |
| Dibromochloromethane                                                                                                                                      | ND            | 10       | 9.0      | 90           |      | 9.0       | 90            |      | 63-130          | 0   |      | 20         |
| 1,1,2-Trichloroethane                                                                                                                                     | ND            | 10       | 10       | 100          |      | 10        | 100           |      | 70-130          | 0   |      | 20         |
| Tetrachloroethene                                                                                                                                         | 1.4           | 10       | 12       | 106          |      | 11        | 96            |      | 70-130          | 9   |      | 20         |
| Chlorobenzene                                                                                                                                             | ND            | 10       | 10       | 100          |      | 10        | 100           |      | 75-130          | 0   |      | 20         |
| Trichlorofluoromethane                                                                                                                                    | ND            | 10       | 11       | 110          |      | 11        | 110           |      | 62-150          | 0   |      | 20         |
| 1,2-Dichloroethane                                                                                                                                        | ND            | 10       | 11       | 110          |      | 10        | 100           |      | 70-130          | 10  |      | 20         |
| 1,1,1-Trichloroethane                                                                                                                                     | ND            | 10       | 11       | 110          |      | 11        | 110           |      | 67-130          | 0   |      | 20         |
| Bromodichloromethane                                                                                                                                      | ND            | 10       | 10       | 100          |      | 10        | 100           |      | 67-130          | 0   |      | 20         |
| trans-1,3-Dichloropropene                                                                                                                                 | ND            | 10       | ND       | 0            | Q    | ND        | 0             | Q    | 70-130          | NC  |      | 20         |
| cis-1,3-Dichloropropene                                                                                                                                   | ND            | 10       | 0.46J    | 5            | Q    | 0.15J     | 2             | Q    | 70-130          | 102 | Q    | 20         |
| Bromoform                                                                                                                                                 | ND            | 10       | 9.0      | 90           |      | 8.9       | 89            |      | 54-136          | 1   |      | 20         |
| 1,1,2,2-Tetrachloroethane                                                                                                                                 | ND            | 10       | 9.9      | 99           |      | 9.8       | 98            |      | 67-130          | 1   |      | 20         |
| Benzene                                                                                                                                                   | ND            | 10       | 11       | 110          |      | 10        | 100           |      | 70-130          | 10  |      | 20         |
| Toluene                                                                                                                                                   | ND            | 10       | 8.7      | 87           |      | 8.7       | 87            |      | 70-130          | 0   |      | 20         |
| Ethylbenzene                                                                                                                                              | ND            | 10       | 9.1      | 91           |      | 9.0       | 90            |      | 70-130          | 1   |      | 20         |
| Chloromethane                                                                                                                                             | ND            | 10       | 13       | 130          |      | 12        | 120           |      | 64-130          | 8   |      | 20         |
| Bromomethane                                                                                                                                              | ND            | 10       | 12       | 120          |      | 13        | 130           |      | 39-139          | 8   |      | 20         |
| Vinyl chloride                                                                                                                                            | ND            | 10       | ND       | 0            | Q    | ND        | 0             | Q    | 55-140          | NC  |      | 20         |

# Matrix Spike Analysis

## Batch Quality Control

**Project Name:** JAMESTOWN CONTAINER

**Project Number:** N30001001

**Lab Number:** L1816596

**Report Date:** 05/15/18

| Parameter                                                                                                                                                 | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------|----------|--------------|------|-----------|---------------|------|-----------------|-----|------|------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 10 QC Batch ID: WG1115382-6 WG1115382-7 QC Sample: L1816596-10 Client ID: ESI-6-050818 |               |          |          |              |      |           |               |      |                 |     |      |            |
| Chloroethane                                                                                                                                              | ND            | 10       | 11       | 110          |      | 11        | 110           |      | 55-138          | 0   |      | 20         |
| 1,1-Dichloroethene                                                                                                                                        | ND            | 10       | 7.8      | 78           |      | 6.8       | 68            |      | 61-145          | 14  |      | 20         |
| trans-1,2-Dichloroethene                                                                                                                                  | ND            | 10       | ND       | 0            | Q    | ND        | 0             | Q    | 70-130          | NC  |      | 20         |
| Trichloroethene                                                                                                                                           | 40            | 10       | 80       | 400          | Q    | 75        | 350           | Q    | 70-130          | 6   |      | 20         |
| 1,2-Dichlorobenzene                                                                                                                                       | ND            | 10       | 10       | 100          |      | 10        | 100           |      | 70-130          | 0   |      | 20         |
| 1,3-Dichlorobenzene                                                                                                                                       | ND            | 10       | 10       | 100          |      | 9.8       | 98            |      | 70-130          | 2   |      | 20         |
| 1,4-Dichlorobenzene                                                                                                                                       | ND            | 10       | 9.8      | 98           |      | 9.8       | 98            |      | 70-130          | 0   |      | 20         |
| Methyl tert butyl ether                                                                                                                                   | ND            | 10       | 9.9      | 99           |      | 9.9       | 99            |      | 63-130          | 0   |      | 20         |
| p/m-Xylene                                                                                                                                                | ND            | 20       | 4.6      | 23           | Q    | 5.5       | 28            | Q    | 70-130          | 18  |      | 20         |
| o-Xylene                                                                                                                                                  | ND            | 20       | 6.2      | 31           | Q    | 8.7       | 44            | Q    | 70-130          | 34  | Q    | 20         |
| cis-1,2-Dichloroethene                                                                                                                                    | 5.3           | 10       | 24       | 187          | Q    | 21        | 157           | Q    | 70-130          | 13  |      | 20         |
| Styrene                                                                                                                                                   | ND            | 20       | ND       | 0            | Q    | ND        | 0             | Q    | 70-130          | NC  |      | 20         |
| Dichlorodifluoromethane                                                                                                                                   | ND            | 10       | 11       | 110          |      | 10        | 100           |      | 36-147          | 10  |      | 20         |
| Acetone                                                                                                                                                   | 2.4J          | 10       | 13       | 130          |      | 13        | 130           |      | 58-148          | 0   |      | 20         |
| Carbon disulfide                                                                                                                                          | ND            | 10       | 10       | 100          |      | 9.6       | 96            |      | 51-130          | 4   |      | 20         |
| 2-Butanone                                                                                                                                                | ND            | 10       | 10       | 100          |      | 11        | 110           |      | 63-138          | 10  |      | 20         |
| 4-Methyl-2-pentanone                                                                                                                                      | ND            | 10       | 9.2      | 92           |      | 8.9       | 89            |      | 59-130          | 3   |      | 20         |
| 2-Hexanone                                                                                                                                                | ND            | 10       | 9.1      | 91           |      | 8.4       | 84            |      | 57-130          | 8   |      | 20         |
| Bromochloromethane                                                                                                                                        | ND            | 10       | 11       | 110          |      | 11        | 110           |      | 70-130          | 0   |      | 20         |
| 1,2-Dibromoethane                                                                                                                                         | ND            | 10       | 9.9      | 99           |      | 10        | 100           |      | 70-130          | 1   |      | 20         |
| 1,2-Dibromo-3-chloropropane                                                                                                                               | ND            | 10       | 8.2      | 82           |      | 8.5       | 85            |      | 41-144          | 4   |      | 20         |
| Isopropylbenzene                                                                                                                                          | ND            | 10       | 9.2      | 92           |      | 8.9       | 89            |      | 70-130          | 3   |      | 20         |
| 1,2,3-Trichlorobenzene                                                                                                                                    | ND            | 10       | 15       | 150          | Q    | 15        | 150           | Q    | 70-130          | 0   |      | 20         |

# Matrix Spike Analysis

## Batch Quality Control

**Project Name:** JAMESTOWN CONTAINER

**Project Number:** N30001001

**Lab Number:** L1816596

**Report Date:** 05/15/18

| Parameter                                                                                                                                                 | Native Sample | MS Added | MS Found | MS %Recovery | Qual | MSD Found | MSD %Recovery | Qual | Recovery Limits | RPD | Qual | RPD Limits |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------|----------|--------------|------|-----------|---------------|------|-----------------|-----|------|------------|
| Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 10 QC Batch ID: WG1115382-6 WG1115382-7 QC Sample: L1816596-10 Client ID: ESI-6-050818 |               |          |          |              |      |           |               |      |                 |     |      |            |
| 1,2,4-Trichlorobenzene                                                                                                                                    | ND            | 10       | 11       | 110          |      | 11        | 110           |      | 70-130          | 0   |      | 20         |
| Methyl Acetate                                                                                                                                            | ND            | 10       | 9.5      | 95           |      | 9.4       | 94            |      | 70-130          | 1   |      | 20         |
| Cyclohexane                                                                                                                                               | ND            | 10       | 10       | 100          |      | 9.4J      | 94            |      | 70-130          | 6   |      | 20         |
| 1,4-Dioxane                                                                                                                                               | ND            | 500      | 470      | 94           |      | 600       | 120           |      | 56-162          | 24  | Q    | 20         |
| Freon-113                                                                                                                                                 | ND            | 10       | 11       | 110          |      | 10        | 100           |      | 70-130          | 10  |      | 20         |
| Methyl cyclohexane                                                                                                                                        | ND            | 10       | 9.9J     | 99           |      | 9.0J      | 90            |      | 70-130          | 10  |      | 20         |

| Surrogate             | MS % Recovery | Qualifier | MSD % Recovery | Qualifier | Acceptance Criteria |
|-----------------------|---------------|-----------|----------------|-----------|---------------------|
| 1,2-Dichloroethane-d4 | 106           |           | 105            |           | 70-130              |
| 4-Bromofluorobenzene  | 97            |           | 98             |           | 70-130              |
| Dibromofluoromethane  | 101           |           | 101            |           | 70-130              |
| Toluene-d8            | 98            |           | 98             |           | 70-130              |

**Project Name:** JAMESTOWN CONTAINER**Lab Number:** L1816596**Project Number:** N30001001**Report Date:** 05/15/18**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

**Cooler Information**

|               |                     |
|---------------|---------------------|
| <b>Cooler</b> | <b>Custody Seal</b> |
| A             | 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> |
|---------------------|-----------------------|---------------|-------------------|-----------------|-------------------|-------------|-------------|-------------------------|--------------------|
| L1816596-01A        | Vial HCl preserved    | A             | NA                |                 | 4.6               | Y           | Absent      |                         | NYTCL-8260-R2(14)  |
| L1816596-01B        | Vial HCl preserved    | A             | NA                |                 | 4.6               | Y           | Absent      |                         | NYTCL-8260-R2(14)  |
| L1816596-01C        | Vial HCl preserved    | A             | NA                |                 | 4.6               | Y           | Absent      |                         | NYTCL-8260-R2(14)  |
| L1816596-02A        | Vial HCl preserved    | A             | NA                |                 | 4.6               | Y           | Absent      |                         | NYTCL-8260-R2(14)  |
| L1816596-02B        | Vial HCl preserved    | A             | NA                |                 | 4.6               | Y           | Absent      |                         | NYTCL-8260-R2(14)  |
| L1816596-02C        | Vial HCl preserved    | A             | NA                |                 | 4.6               | Y           | Absent      |                         | NYTCL-8260-R2(14)  |
| L1816596-03A        | Vial HCl preserved    | A             | NA                |                 | 4.6               | Y           | Absent      |                         | NYTCL-8260-R2(14)  |
| L1816596-03B        | Vial HCl preserved    | A             | NA                |                 | 4.6               | Y           | Absent      |                         | NYTCL-8260-R2(14)  |
| L1816596-03C        | Vial HCl preserved    | A             | NA                |                 | 4.6               | Y           | Absent      |                         | NYTCL-8260-R2(14)  |
| L1816596-04A        | Vial HCl preserved    | A             | NA                |                 | 4.6               | Y           | Absent      |                         | NYTCL-8260-R2(14)  |
| L1816596-04B        | Vial HCl preserved    | A             | NA                |                 | 4.6               | Y           | Absent      |                         | NYTCL-8260-R2(14)  |
| L1816596-04C        | Vial HCl preserved    | A             | NA                |                 | 4.6               | Y           | Absent      |                         | NYTCL-8260-R2(14)  |
| L1816596-05A        | Vial HCl preserved    | A             | NA                |                 | 4.6               | Y           | Absent      |                         | NYTCL-8260-R2(14)  |
| L1816596-05B        | Vial HCl preserved    | A             | NA                |                 | 4.6               | Y           | Absent      |                         | NYTCL-8260-R2(14)  |
| L1816596-05C        | Vial HCl preserved    | A             | NA                |                 | 4.6               | Y           | Absent      |                         | NYTCL-8260-R2(14)  |
| L1816596-06A        | Vial HCl preserved    | A             | NA                |                 | 4.6               | Y           | Absent      |                         | NYTCL-8260-R2(14)  |
| L1816596-06B        | Vial HCl preserved    | A             | NA                |                 | 4.6               | Y           | Absent      |                         | NYTCL-8260-R2(14)  |
| L1816596-06C        | Vial HCl preserved    | A             | NA                |                 | 4.6               | Y           | Absent      |                         | NYTCL-8260-R2(14)  |
| L1816596-07A        | Vial HCl preserved    | A             | NA                |                 | 4.6               | Y           | Absent      |                         | NYTCL-8260-R2(14)  |
| L1816596-07B        | Vial HCl preserved    | A             | NA                |                 | 4.6               | Y           | Absent      |                         | NYTCL-8260-R2(14)  |
| L1816596-07C        | Vial HCl preserved    | A             | NA                |                 | 4.6               | Y           | Absent      |                         | NYTCL-8260-R2(14)  |
| L1816596-08A        | Vial HCl preserved    | A             | NA                |                 | 4.6               | Y           | Absent      |                         | NYTCL-8260-R2(14)  |
| L1816596-08B        | Vial HCl preserved    | A             | NA                |                 | 4.6               | Y           | Absent      |                         | NYTCL-8260-R2(14)  |

**Project Name:** JAMESTOWN CONTAINER  
**Project Number:** N30001001

**Serial\_No:** 05151811:56  
**Lab Number:** L1816596  
**Report Date:** 05/15/18

**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> |
|---------------------|-----------------------|---------------|-------------------|-----------------|-------------------|-------------|-------------|-------------------------|--------------------|
| L1816596-08C        | Vial HCl preserved    | A             | NA                |                 | 4.6               | Y           | Absent      |                         | NYTCL-8260-R2(14)  |
| L1816596-09A        | Vial HCl preserved    | A             | NA                |                 | 4.6               | Y           | Absent      |                         | NYTCL-8260-R2(14)  |
| L1816596-09B        | Vial HCl preserved    | A             | NA                |                 | 4.6               | Y           | Absent      |                         | NYTCL-8260-R2(14)  |
| L1816596-09C        | Vial HCl preserved    | A             | NA                |                 | 4.6               | Y           | Absent      |                         | NYTCL-8260-R2(14)  |
| L1816596-10A        | Vial HCl preserved    | A             | NA                |                 | 4.6               | Y           | Absent      |                         | NYTCL-8260-R2(14)  |
| L1816596-10A1       | Vial HCl preserved    | A             | NA                |                 | 4.6               | Y           | Absent      |                         | NYTCL-8260-R2(14)  |
| L1816596-10A2       | Vial HCl preserved    | A             | NA                |                 | 4.6               | Y           | Absent      |                         | NYTCL-8260-R2(14)  |
| L1816596-10B        | Vial HCl preserved    | A             | NA                |                 | 4.6               | Y           | Absent      |                         | NYTCL-8260-R2(14)  |
| L1816596-10B1       | Vial HCl preserved    | A             | NA                |                 | 4.6               | Y           | Absent      |                         | NYTCL-8260-R2(14)  |
| L1816596-10B2       | Vial HCl preserved    | A             | NA                |                 | 4.6               | Y           | Absent      |                         | NYTCL-8260-R2(14)  |
| L1816596-10C        | Vial HCl preserved    | A             | NA                |                 | 4.6               | Y           | Absent      |                         | NYTCL-8260-R2(14)  |
| L1816596-10C1       | Vial HCl preserved    | A             | NA                |                 | 4.6               | Y           | Absent      |                         | NYTCL-8260-R2(14)  |
| L1816596-10C2       | Vial HCl preserved    | A             | NA                |                 | 4.6               | Y           | Absent      |                         | NYTCL-8260-R2(14)  |
| L1816596-11A        | Vial HCl preserved    | A             | NA                |                 | 4.6               | Y           | Absent      |                         | NYTCL-8260-R2(14)  |
| L1816596-11B        | Vial HCl preserved    | A             | NA                |                 | 4.6               | Y           | Absent      |                         | NYTCL-8260-R2(14)  |
| L1816596-11C        | Vial HCl preserved    | A             | NA                |                 | 4.6               | Y           | Absent      |                         | NYTCL-8260-R2(14)  |
| L1816596-12A        | Vial HCl preserved    | A             | NA                |                 | 4.6               | Y           | Absent      |                         | NYTCL-8260-R2(14)  |
| L1816596-12B        | Vial HCl preserved    | A             | NA                |                 | 4.6               | Y           | Absent      |                         | NYTCL-8260-R2(14)  |
| L1816596-12C        | Vial HCl preserved    | A             | NA                |                 | 4.6               | Y           | Absent      |                         | NYTCL-8260-R2(14)  |
| L1816596-13A        | Vial HCl preserved    | A             | NA                |                 | 4.6               | Y           | Absent      |                         | NYTCL-8260-R2(14)  |
| L1816596-13B        | Vial HCl preserved    | A             | NA                |                 | 4.6               | Y           | Absent      |                         | NYTCL-8260-R2(14)  |

**Project Name:** JAMESTOWN CONTAINER  
**Project Number:** N30001001

**Lab Number:** L1816596  
**Report Date:** 05/15/18

## GLOSSARY

### Acronyms

|          |                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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).                        |
| 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.                                                                                                                                                                                                                                                        |
| 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.                                                                                                                                                                                                                                                  |
| 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.                                                                                                                                                                                                                                                                                                                                                                             |
| 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.                                                                                                                                                                                                                                                                                                                                                                                               |
| 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.                                                                                                                                                                                                     |

### 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.

**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.

**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 Condensation Product".
- 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

**Report Format:** DU Report with 'J' Qualifiers





**Project Name:** JAMESTOWN CONTAINER**Lab Number:** L1816596**Project Number:** N30001001**Report Date:** 05/15/18**Data Qualifiers**

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.
- 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.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where 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.
- J** - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- ND** - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

*Report Format:* DU Report with 'J' Qualifiers

**Project Name:** JAMESTOWN CONTAINER  
**Project Number:** N30001001

**Lab Number:** L1816596  
**Report Date:** 05/15/18

## REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

## 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:** m/p-xylene, o-xylene

**EPA 8260C:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

**EPA 8270D:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

**EPA 300:** DW: Bromide

**EPA 6860:** SCM: Perchlorate

**EPA 9010:** NPW and SCM: Amenable Cyanide Distillation

**SM4500:** NPW: Amenable Cyanide, Dissolved Oxygen; 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**

**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, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **EPA 351.1, 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 624:** Volatile Halocarbons & Aromatics,

**EPA 608:** 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:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, SM9222D.**

### Mansfield Facility:

#### Drinking Water

**EPA 200.7:** Al, Ba, Be, Cd, Cr, Cu, 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.**

#### 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, Pb, Mn, Ni, Se, Ag, TL, Zn.

**EPA 245.1 Hg.**

**SM2340B**

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

Page 60 of 61

U1816596

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)