# Appendix K
# COPIES OF SELECTED REPORTS AND DATA SUMMARIES RELATED TO INVESTIGATION OF THE FORMER ITT ROCHESTER FORM MACHINE FACILITY SITE

**Table 2 from:**

**Monthly Status Report #111 – August 2013**
**Former ITT Rochester Form Machine Facility, Site # 8-28-112, Town of Gates,**
**Monroe County, Order on Consent: Index # B8-0614-02-05**
**O'Brien & Gere Engineers, Inc., September 10, 2013**

**Table 2**
**2013 Periodic Groundwater Monitoring**
**Groundwater Level Summary Table**
**Former ITT Rochester Form Machine Facility**
**Site #8-28-112**
**Town of Gates, New York**

| Well Number | Northing | Easting | Ground Elevation (ft amsl) | Datum Elevation (ft amsl) | June 17, 2013 | |
|---|---|---|---|---|---|---|
| | | | | | Depth to Water (ft b datum) | Groundwater Elevation (ft amsl) |
| **Monitoring Well - Former RFM Site** | | | | | | |
| ITT-DBW-2 | 1146108.962 | 1380537.767 | 565.4 | 565.02 | 98.65 | 466.37 |
| ITT-DBW-5 | 1146106.697 | 1380362.713 | 564.7 | 564.48 | 0.05 | 564.43 |
| ITT-DBW-8 | 1145716.494 | 1380543.446 | 563.4 | 563.11 | 10.05 | 553.06 |
| ITT-IBW-20 | 1146078.0261 | 1380540.9246 | 565.1 | 564.77 | 8.71 | 556.06 |
| ITT-MW-1 | 1145695.177 | 1380343.149 | 561.1 | 560.71 | 3.04 | 557.67 |
| ITT-MW-4 | 1145917.14 | 1380390.764 | 563.7 | 563.36 | 6.51 | 556.85 |
| ITT-SBW-1A | 1146138.744 | 1380494.072 | 564.6 | 564.19 | 7.57 | 556.62 |
| ITT-SBW-2 | 1146091.491 | 1380537.923 | 565.3 | 564.96 | 8.33 | 556.63 |
| ITT-SBW-4 | 1145696.225 | 1380347.228 | 561.1 | 560.59 | 3.33 | 557.26 |
| ITT-SBW-5A | 1146106.42 | 1380387.515 | 564.6 | 564.39 | 7.70 | 556.69 |
| ITT-SBW-6 | 1145891.447 | 1380569.518 | 564.2 | 563.74 | 7.14 | 556.60 |
| ITT-SBW-7 | 1145993.44 | 1380564.979 | 564.6 | 564.16 | 7.56 | 556.60 |
| ITT-SBW-8 | 1145709.069 | 1380543.598 | 562.9 | 562.44 | 5.57 | 556.87 |
| ITT-SBW-9 | 1146063.342 | 1380482.136 | 565.2 | 564.85 | 8.22 | 556.63 |
| ITT-SBW-10 | 1146052.223 | 1380392.675 | 565.0 | 564.65 | 7.89 | 556.76 |
| ITT-SBW-11 | 1145839.791 | 1380505.247 | 564.9 | 564.60 | 7.82 | 556.78 |
| ITT-SBW-12 | 1145818.059 | 1380417.461 | 564.9 | 564.37 | 7.39 | 556.98 |
| ITT-SBW-23 | 1146048.3023 | 1380328.7497 | 564.2 | 563.73 | 7.11 | 556.62 |
| **Recharge Well** | | | | | | |
| ITT-W-1 | 1145709.7 | 1380363.08 | 561.3 | 561.01 | 3.33 | 557.68 |
| **Monitoring Well - Cinemark Property** | | | | | | |
| ITT-IBW-19 | 1146258.3762 | 1380560.0153 | 572.6 | 572.24 | 16.20 | 556.04 |
| ITT-SBW-13 | 1146258.556 | 1380551.778 | 572.5 | 571.99 | 15.42 | 556.57 |
| ITT-SBW-14 | 1146257.482 | 1380754.066 | 571.6 | 571.25 | 14.72 | 556.53 |
| ITT-SBW-15 | 1146256.007 | 1380959.084 | 573.7 | 573.13 | 16.73 | 556.40 |
| ITT-SBW-16 | 1146233.328 | 1380402.418 | 572.2 | 571.74 | 15.12 | 556.62 |
| ITT-SBW-17 | 1146712.7050 | 1380918.0355 | 568.8 | 568.23 | 10.27 | 557.96 |
| ITT-SBW-18 | 1146718.6576 | 1380645.5321 | 570.0 | 569.56 | 12.89 | 556.67 |
| **Monitoring Well - Former AMSF Site** | | | | | | |
| AMSF-MW-1D | 1146149.243 | 1380621.217 | 564.2 | 564.42 | 26.25 | 538.17 |
| AMSF-MW-1S | 1146148.052 | 1380610.116 | 563.8 | 566.02 | 9.44 | 556.58 |
| AMSF-MW-3D[(1)] | 1145735.729 | 1380951.165 | 561.4 | 560.93 | 14.58 | 546.35 |
| AMSF-MW-3S | 1145734.901 | 1380936.917 | 561.3 | 561.06 | 4.71 | 556.35 |
| AMSF-MW-4[(1)] | 1145785.564 | 1380687.629 | 564.1 | 564.22 | 7.34 | 556.88 |
| AMSF-MW-5D | 1146162.0129 | 1380953.5248 | 568.0 | 571.00 | 23.68 | 547.32 |
| AMSF-MW-7 | 1146093.6638 | 1380586.4304 | 563.2 | 563.97 | 7.39 | 556.58 |
| AMSF-MW-8D | 1145707.5507 | 1380601.3767 | 560.2 | 562.30 | 16.57 | 545.73 |
| AMSF-MW-9S | 1145894.677 | 1380676.075 | 565.3 | 565.00 | 8.44 | 556.56 |
| AMSF-MW-10 | 1145712.942 | 1380819.872 | 561.4 | 561.07 | 4.60 | 556.47 |
| AMSF-MW-11S | 1146107.387 | 1380679.47 | 563.4 | 563.18 | 6.68 | 556.50 |
| AMSF-MW-12S | 1146100.019 | 1380648.446 | 564.0 | 563.53 | 6.99 | 556.54 |
| AMSF-MW-13S | 1146056.109 | 1380644.247 | 564.5 | 563.95 | 7.54 | 556.41 |
| AMSF-MW-15I | 1146049.609 | 1380601.054 | 563.1 | 562.83 | 6.71 | 556.12 |
| AMSF-MW-16I | 1146045.681 | 1380643.358 | 564.6 | 564.27 | 8.18 | 556.09 |
| **Recharge Wells** | | | | | | |
| AMSF-RW-1 | 1145711.4316 | 1380591.7608 | NA | 558.34 | 0.08 | 558.26 |
| AMSF-RW-2 | 1146101.519 | 1380620.204 | 563.4 | 563.28 | 0.92 | 562.36 |
| AMSF-RW-3 | 1146132.417 | 1380800.672 | 565.2 | 565.05 | 3.52 | 561.53 |
| AMSF-RW-4 | 1146148.027 | 1380948.432 | 566.4 | 566.36 | 4.69 | 561.67 |
| AMSF-RW-5 | 1145949.849 | 1381087.204 | 565.4 | 565.46 | 9.85 | 555.61 |
| **Recarge Well - Downey-Goodlein Elevator Corp. Property** | | | | | | |
| RW-6 | 1145905.637 | 1381185.338 | 566.5 | 566.49 | 10.42 | 556.07 |

**Notes:**
Location and elevation surveys conducted on January 29, 2005, February 22, 2005, March 29, 2010, and December 11, 2011.
Horizontal Datum - NAD83 New York State West State Plane (feet)
Vertical Datum - NAVD88 (Feet)
Modifications to the AMSF-RW-2 manhole were observed on 6/17/2005. Recharge well AMSF-RW-2 was resurveyed on 12/11/2011.
(1) - TOC elevations adjusted to reflect hand measured changes to PVC riser as a result of August 1, 2005 repairs.
ITT-W-1 and AMSF-RW-1 through AMSF-RW-6 water level measurements are measured from the top of the manhole.
AMSF - Alliance Metal Stamping and Fabricating
RFM - Rochester Form Machine
ft amsl - Feet above mean sea level
ft b datum - Feet below datum elevation
NA - Not Appliacble

ITT

ENGINEERED FOR LIFE

OCT 15 2013

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October 10, 2013

Mr. Frank Sowers, P.E.
NYSDEC, Region 8
6274 East Avon-Lima Road
Avon, NY 14414-9519

Re: Monthly Status Report #112 – September 2013

Former ITT Rochester Form Machine Facility
Site #8-28-112
Town of Gates, Monroe County
Order on Consent: Index # B8-0614-02-05

Dear Mr. Sowers:

This letter presents the monthly status report for the period ending September 30, 2013 for the Former ITT Rochester Form Machine Facility (#8-28-112) in the Town of Gates, New York. Status reports for the work performed at the Site are a requirement of the Order on Consent Index #B8-0614-02-05 between ITT and the New York State Department of Environmental Conservation (NYSDEC) dated August 19, 2003, with an effective date of August 29, 2003.

***1. Work Performed:***

- The Remedial Investigation Report (RIR) was submitted to NYSDEC on June 25, 2012. NYSDEC comments to the RIR were received on February 14, 2013. On March 27, 2013, NYSDEC informed ITT, via e-mail, that the New York State Department of Health (NYSDOH) had completed review of, and had no comments on, Appendix R of the RIR, Human Health Risk Assessment (HHRA). On April 17, 2013, NYSDEC provided final comments to the RIR. On May 13, 2013, ITT submitted a letter to NYSDEC indicating that ITT intends to modify the RIR to address NYSDEC comments and submit a revised RIR by October 9, 2013. During a phone conversation with the NYSDEC on September 17, 2013 and in a letter submitted to the NYSDEC on September 30, 2013, ITT requested an extension on the submission of the Remedial Investigation Report (RIR) to incorporate the utility tracing and surveying work conducted at the site the week of September 23, 2013, and to facilitate additional discussions with NYSDEC on comments and revisions to the RIR. As noted in the letter, ITT will propose a new due date for the revised RIR to the NYSDEC no later than October 30, 2013. NYSDEC approved this request in an email dated October 1, 2013.
- From September 23 through September 25, 2013 field efforts were completed to locate the subsurface utilities in association with the Utility Tracing and Surveying Work Plan as approved by the NYSDEC in a September 6, 2013 letter.

- No additional field work was performed this period.

2. ***Results of Sampling, Testing and Other Data Received:***

- On September 13, 2013, the data usability summary report associated with the 2013 Periodic Groundwater Monitoring analytical results was received from the data validator.
- No other results were received this period.

3. ***Deliverables completed and submitted:***

- Monthly Status Report #111 for the period through August 31, 2013 was submitted on September 10, 2013.
- A validated analytical results summary table (Table 1) and data usability summary report (Attachment 1) for the periodic groundwater samples collected from June 18 to July 1, 2013 are provided as an attachment to this Monthly Status Report.
- No other deliverables were required for completion and/or submittal for the period ending September 30, 2013.

4. ***Upcoming Work Activities (10/1/13 through 10/31/13):***

- Work on modifying the RIR to address NYSDEC comments.
- Complete the survey of utility mark outs associated with the utility tracing efforts completed on September 25, 2013.
- No other upcoming work activities are planned for the period between September 1, 2013 and September 31, 2013.

5. ***Percent complete and unresolved delays:***

- <u>RI/FS Work Plan</u>
  - With the exception of the modifications noted below, 100% of the NYSDEC approved RI Work Plan (dated June 17, 2004) field activities have been completed to date.

- <u>Phase II RI Work Plan Addendum</u>
  - 100% of the RI Phase II field activities have been completed to date. Field activities have been completed in accordance with the following documents, approved by NYSDEC: Remedial Investigation (RI) Phase II Work Plan dated August 2007; RI Work Plan Addendum Proposed Modification dated January 7, 2008; RI Phase II Work Plan Addendum Proposed Modification 2 Revised dated September 4, 2009; and RI Phase II Work Plan Addendum Proposed Modification 3 dated February 12, 2010.

6. ***Work Plan Modifications:***
   - The information previously included in Work Plan Modifications has been deleted as of the May 2013 Monthly Status Report and can be found in previous status reports.

7. ***Citizens Participation Plan (CPP):***
   - There have been no recent activities by ITT in support of the CPP.

Please contact me at (914) 304-1675 if you have any questions regarding this information.

Sincerely,

Lisa A. Hall

Lisa A. Hall, P.E.
Technical Manager, Environmental Affairs
ITT Corporation

cc: J. Kenney – NYSDOH
J. Frazer – Monroe County Department of Public Health
D. Loew – NYSDEC
M. Peters – Stockli Slevin & Peters, LLP
G. Swenson – O'Brien & Gere
J. Danzinger – Day Environmental

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Table 1
DRAFT 2013 Periodic Groundwater Sampling Results
Former ITT Rochester Form Machine Facility
Site #8-28-112
Town of Gates, New York

| | Location Code | AMSF-MW-1D | AMSF-MW-1S | AMSF-MW-3D | AMSF-MW-3S | AMSF-MW-5D | AMSF-MW-7 | AMSF-MW-8D | AMSF-MW-9S | AMSF-MW-10 |
|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Name | AMSF-MW-1D-062813 | AMSF-MW-1S-062013 | AMSF-MW-3D-062013 | AMSF-MW-3S-062013 | AMSF-MW-5D-062513 | AMSF-MW-7-062813 | AMSF-MW-8D-070113 | AMSF-MW-9S-061813 | AMSF-MW-10-062013 |
| | Sample Type | N | N | N | N | N | N | N | N | N |
| | Sample Date | 06/28/2013 | 06/20/2013 | 06/20/2013 | 06/20/2013 | 06/25/2013 | 06/28/2013 | 07/01/2013 | 06/18/2013 | 06/20/2013 |
| **Analyte** | **Criteria** [1] | | | | | | | | | |
| **Volatile Organic Compounds** | | | | | | | | | | |
| 1,1,1-Trichloroethane | 5 | 2 U | **120** | 5 U | 3 J | **200 J** | **830** | 5 U | **540** | 3.3 J |
| 1,1,2,2-Tetrachloroethane | NC | 2 U | 5 U | 5 U | 5 U | 2 U | 5 U | 5 U | 25 U | 5 U |
| 1,1,2-Trichloroethane | 1 | 2 U | 5 U | 5 U | 5 U | 2 U | 5 U | 5 U | **4.1 J** | 5 U |
| 1,1-Dichloroethane | 5 | 3.3 | **23** | 2.3 J | 0.61 J | **11** | **31** | 0.76 J | **110** | 1.1 J |
| 1,1-Dichloroethene | 5 | 2 U | **9** | 5 U | 5 U | **8** | **23** | 5 U | **71** | 5 U |
| 1,2-Dibromo-3-chloropropane (DBCP) | 0.04 | 4 U | 5 U | 5 U | 5 U | 4 U | 10 U | 5 U | 25 U | 5 U |
| 1,2-Dibromoethane (Ethylene Dibromide) | 0.0006 | 2 U | 5 U | 5 U | 5 U | 2 U | 5 U | 5 U | 25 U | 5 U |
| 1,2-Dichloroethane | 0.6 | 2 U | 5 U | 5 U | 5 U | 2 U | 5 U | 5 U | 25 U | 5 U |
| 1,2-Dichloropropane | 1 | 2 U | 5 U | 5 U | 5 U | 2 U | 5 U | 5 U | 25 U | 5 U |
| 2-Butanone (Methyl Ethyl Ketone) | 50 | **100** | 10 U | 10 U | 10 U | 10 U | 25 U | 10 U | 50 U | 10 U |
| 2-Hexanone | 50 | 3.4 J | 10 U | 10 U | 10 U | 10 U | 25 U | 10 U | 50 U | 10 U |
| 4-Methyl-2-pentanone (Methyl Isobutyl Ketone) | NC | 5 J | 10 U | 10 U | 10 U | 10 U | 25 U | 10 U | 50 U | 10 U |
| Acetone | 50 | **140** | 10 U | 10 U | 10 U | 10 U | 25 U | 10 UJ | 50 U | 10 U |
| Benzene | 1 | **340** | 5 U | 5 U | 5 U | 2 U | 5 U | 0.65 J | 25 U | 5 U |
| Bromodichloromethane | 50 | 2 U | 5 U | 5 U | 5 U | 2 U | 5 U | 5 U | 25 U | 5 U |
| Bromoform | 50 | 2 U | 5 U | 5 U | 5 U | 2 U | 5 U | 5 U | 25 U | 5 U |
| Bromomethane (Methyl Bromide) | 5 | 2 UJ | 5 UJ | 5 U | 5 U | 2 UJ | 5 UJ | 5 U | 25 U | 5 UJ |
| Carbon Disulfide | 60 | **7** | 10 U | 10 U | 10 U | 2 U | 11 | 0.66 J | 50 U | 10 U |
| Carbon Tetrachloride | 5 | 2 U | 5 U | 5 U | 5 U | 2 U | 5 U | 5 U | 25 U | 5 U |
| Chlorobenzene | 5 | 2 U | 5 U | 5 U | 5 U | 2 U | 5 U | 5 U | 25 U | 5 U |
| Chlorobromomethane | 5 | 2 U | 5 U | 5 U | 5 U | 2 U | 5 U | 5 U | 25 U | 5 U |
| Chloroethane | 5 | 2 U | 0.51 J | 0.27 J | 5 U | 2 U | **8.3** | 5 U | 4.1 J | 5 U |
| Chloroform (Trichloromethane) | **7** | 2 U | 5 U | 5 U | 5 U | 2 U | 5 U | 5 U | 25 U | 5 U |
| Chloromethane (Methyl Chloride) | 5 | 2 UJ | 5 U | 5 U | 5 U | 2 UJ | 5 UJ | 5 UJ | 25 U | 5 U |
| cis-1,2-Dichloroethene | NC | 2 U | 0.37 J | 1.1 J | 0.65 J | 2 U | 5 U | 5 U | **65** | 5 U |
| cis-1,3-Dichloropropene | 0.4 | 2 U | 5 U | 5 U | 5 U | 2 U | 5 U | 5 U | 25 U | 5 U |
| Dibromochloromethane | 50 | 2 U | 5 U | 5 U | 5 U | 2 U | 5 U | 5 U | 25 U | 5 U |
| Ethylbenzene | 5 | **17** | 5 U | 5 U | 5 U | 2 U | 5 U | 5 U | 25 U | 5 U |
| Methylene chloride | 5 | 2 U | 5 U | 5 U | 5 U | 2 U | 5 U | 5 U | 25 U | 5 U |
| o-Xylene | 5 | **34** | 5 U | 5 U | 5 U | 2 U | 5 U | 5 U | 25 U | 5 U |
| Styrene | 5 | 2 U | 5 U | 5 U | 5 U | 2 U | 5 U | 5 U | 25 U | 5 U |
| Tetrachloroethene | 5 | 2 U | 5 U | 0.32 J | **99** | 2 J | 5 U | 5 U | **99** | **26** |
| Toluene | 5 | **270** | 5 U | 5 U | 5 U | 2 U | 5 U | 0.24 J | 25 U | 5 U |
| trans-1,2-Dichloroethene | 5 | 2 U | 5 U | 5 U | 5 U | 2 U | 5 U | 5 U | 25 U | 5 U |
| trans-1,3-Dichloropropene | 0.4 | 2 U | 5 U | 5 U | 5 U | 2 U | 5 U | 5 U | 25 U | 5 U |
| Trichloroethene | 5 | 2 U | 0.38 J | 5 U | 1.5 J | 1.3 J | 4 J | 5 U | **52** | 0.53 J |
| Trichlorofluoromethane (CFC-11) | 5 | 2 U | 5 U | 5 U | 5 U | 2 U | 5 U | 5 U | 25 U | 5 U |
| Vinyl Chloride | 2 | 2 U | 0.92 J | 0.49 J | 5 U | 2 U | 5 U | 5 U | 25 U | 5 U |
| Xylene (m,p) | 5 | **80** | 5 U | 5 U | 5 U | 4 U | 10 U | 0.36 J | 25 U | 5 U |
| **Other Compounds** | | | | | | | | | | |
| 1,4-Dioxane | NC | 3.3 | 2.1 | 0.2 U | 0.34 NJ | 6.3 | 6.6 | 0.2 U | 230 | 0.44 |

Notes:
**BOLD** - Exceedes New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values.
Sample type N = Normal, FD = Field Duplicate
[1] New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values, Revised June 1998.
NC - No criteria exists
U - Not Detected at the Detection Limit shown, J - Estimated Value, NJ - Tentative in Identification and Estimated in Value

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Table 1
DRAFT 2013 Periodic Groundwater Sampling Results
Former ITT Rochester Form Machine Facility
Site #8-28-112
Town of Gates, New York

| | Location Code | AMSF-MW-11S | AMSF-MW-12S | AMSF-MW-13S | AMSF-MW-15I | AMSF-MW-16I | ITT-DBW-2 | ITT-DBW-8 | ITT-IBW-19 | ITT-IBW-20 |
|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Name | AMSF-MW-11S-062613 | AMSF-MW-12S-062713 | AMSF-MW-13S-062713 | AMSF-MW-15I-062613 | AMSF-MW-16I-062713 | ITT-DBW-2-062613 | ITT-DBW-8-062613 | ITT-IBW-19-061913 | ITT-FD-2-062513 |
| | Sample Type | N | N | N | N | N | N | N | N | FD |
| | Sample Date | 06/26/2013 | 06/27/2013 | 06/27/2013 | 06/26/2013 | 06/27/2013 | 06/26/2013 | 06/26/2013 | 06/19/2013 | 06/25/2013 |
| **Analyte** | **Criteria** [1] | | | | | | | | | |
| **Volatile Organic Compounds** | | | | | | | | | | |
| 1,1,1-Trichloroethane | 5 | **220** | **280** | **1900** | **1900** | **4300** | 1 U | 1 U | **7.6** | **1900** |
| 1,1,2,2-Tetrachloroethane | NC | 1 U | 2 U | 20 U | 10 U | 5 U | 1 U | 1 U | 5 U | 1 U |
| 1,1,2-Trichloroethane | 1 | 1 U | 2 U | 20 U | 10 U | 5 U | 1 U | 1 U | 5 U | 1 U |
| 1,1-Dichloroethane | 5 | **46** | **41** | **140** | **150** | **280** | 0.45 J | **23** | **21** | **110** |
| 1,1-Dichloroethene | 5 | **15** | **12** | **18 J** | **14** | **25** | 1 U | 1 U | 5 U | **14** |
| 1,2-Dibromo-3-chloropropane (DBCP) | 0.04 | 2 U | 4 U | 40 U | 20 U | 10 U | 2 U | 2 U | 5 U | 2 U |
| 1,2-Dibromoethane (Ethylene Dibromide) | 0.0006 | 1 U | 2 U | 20 U | 10 U | 5 U | 1 U | 1 U | 5 U | 1 U |
| 1,2-Dichloroethane | 0.6 | 1 U | 2 U | 20 U | 10 U | 5 U | 1 U | 1 U | 5 U | 1 U |
| 1,2-Dichloropropane | 1 | 1 U | 2 U | 20 U | 10 U | 5 U | 1 U | 1 U | 5 U | 1 U |
| 2-Butanone (Methyl Ethyl Ketone) | 50 | 5 U | 10 U | 100 U | 50 U | 25 U | 3.9 J | 21 | 10 U | 5 U |
| 2-Hexanone | 50 | 5 U | 10 U | 100 U | 50 U | 25 U | 5 U | 5 U | 10 U | 5 U |
| 4-Methyl-2-pentanone (Methyl Isobutyl Ketone) | NC | 5 U | 10 U | 100 U | 50 U | 25 U | 5 U | 5 U | 10 U | 5 U |
| Acetone | 50 | 5 UJ | 10 U | 100 UJ | 50 UJ | 25 UJ | 15 | **74 J** | 10 U | 5 UJ |
| Benzene | 1 | 1 U | 2 U | 20 U | 10 U | 5 U | **85** | **170** | 5 U | 1 U |
| Bromodichloromethane | 50 | 1 U | 2 U | 20 U | 10 U | 5 U | 1 U | 1 U | 5 U | 1 U |
| Bromoform | 50 | 1 U | 2 U | 20 U | 10 U | 5 U | 1 U | 1 U | 5 U | 1 U |
| Bromomethane (Methyl Bromide) | 5 | 1 UJ | 2 UJ | 20 UJ | 10 UJ | 5 UJ | 1 UJ | 1 UJ | 5 U | 1 UJ |
| Carbon Disulfide | 60 | 1 U | 2 U | 20 U | 10 U | 5 U | 1 U | 2.1 | 10 U | 0.25 J |
| Carbon Tetrachloride | 5 | 1 U | 2 U | 20 U | 10 U | 5 U | 1 U | 1 U | 5 U | 1 U |
| Chlorobenzene | 5 | 1 U | 2 U | 20 U | 10 U | 5 U | 1 U | 1 U | 5 U | 1 U |
| Chlorobromomethane | 5 | 1 U | 2 U | 20 U | 10 U | 5 U | 1 U | 1 U | 5 U | 1 U |
| Chloroethane | 5 | 1.5 | 0.64 J | 20 U | 10 U | 1.8 J | 1 U | 1 U | 0.43 **J** | 1 U |
| Chloroform (Trichloromethane) | 7 | 1 U | 0.82 J | 8.2 J | 10 U | 5 U | 1 U | 1 U | 5 U | 1 U |
| Chloromethane (Methyl Chloride) | 5 | 1 U | 2 UJ | 20 U | 10 U | 5 U | 1 UJ | 1 U | 5 U | 1 U |
| cis-1,2-Dichloroethene | NC | 2.1 | 1.1 J | 20 U | 10 U | 2.8 J | 1 U | 1 U | 0.48 J | 1.2 |
| cis-1,3-Dichloropropene | 0.4 | 1 U | 2 U | 20 U | 10 U | 5 U | 1 U | 1 U | 5 U | 1 U |
| Dibromochloromethane | 50 | 1 U | 2 U | 20 U | 10 U | 5 U | 1 U | 1 U | 5 U | 1 U |
| Ethylbenzene | 5 | 1 U | 2 U | 20 U | 10 U | 5 U | 1.2 | **8** | 5 U | 1 U |
| Methylene chloride | 5 | 1 U | 2 U | 20 U | 10 U | 5 U | 1 U | 1 U | 5 U | 1 U |
| o-Xylene | 5 | 1 U | 2 U | 20 U | 10 U | 5 U | 4.5 | **10** | 5 U | 1 U |
| Styrene | 5 | 1 U | 2 U | 20 U | 10 U | 5 U | 1 U | 1 U | 5 U | 1 U |
| Tetrachloroethene | 5 | 2.7 | 1 J | 20 U | 10 U | 5 U | 1 U | 1 U | 5 U | 1 U |
| Toluene | 5 | 1 U | 2 U | 20 U | 10 U | 5 U | 3 | **46** | 5 U | 1 U |
| trans-1,2-Dichloroethene | 5 | 1 U | 2 U | 20 U | 10 U | 5 U | 1 U | 1 U | 5 U | 1 U |
| trans-1,3-Dichloropropene | 0.4 | 1 U | 2 U | 20 U | 10 U | 5 U | 1 U | 1 U | 5 U | 1 U |
| Trichloroethene | 5 | 3.8 | 2.4 | **15 J** | **8.8 J** | **13** | 1 U | 1 U | 5 U | **6.8** |
| Trichlorofluoromethane (CFC-11) | 5 | 1 U | 2 U | 20 U | 10 U | 5 U | 1 U | 1 U | 5 U | 1 U |
| Vinyl Chloride | 2 | 1.3 | 0.78 J | 20 U | 10 U | 5 U | 1 U | 1 U | 0.32 J | 0.41 J |
| Xylene (m,p) | 5 | 2 U | 4 U | 40 U | 20 U | 10 U | 3.7 | **23** | 5 U | 2 U |
| **Other Compounds** | | | | | | | | | | |
| 1,4-Dioxane | NC | 27 | 9 | 17 | 3.9 | 2.9 | 0.2 U | 0.2 U | 2.7 | 1.9 |

Notes:
**BOLD** - Exceedes New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values.
Sample type N = Normal, FD = Field Duplicate
[1] New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values, Revised June 1998.
NC - No criteria exists
U - Not Detected at the Detection Limit shown, J - Estimated Value, NJ - Tentative in Identification and Estimated in Value

O'BRIEN & GERE

Table 1
DRAFT 2013 Periodic Groundwater Sampling Results
Former ITT Rochester Form Machine Facility
Site #8-28-112
Town of Gates, New York

| | Location Code | ITT-IBW-20 | ITT-SBW-2 | ITT-SBW-4 | ITT-SBW-5A | ITT-SBW-7 | ITT-SBW-8 | ITT-SBW-9 | ITT-SBW-10 | ITT-SBW-12 |
|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Name | ITT-IBW-20-062513 | ITT-SBW-2-062113 | ITT-SBW-4-061813 | ITT-SBW-5A-062513 | ITT-SBW-7-062413 | ITT-SBW-8-061913 | ITT-SBW-9-062113 | ITT-SBW-10-062713 | ITT-SBW-12-062013 |
| | Sample Type | N | N | N | N | N | N | N | N | N |
| | Sample Date | 06/25/2013 | 06/21/2013 | 06/18/2013 | 06/25/2013 | 06/24/2013 | 06/19/2013 | 06/21/2013 | 06/27/2013 | 06/20/2013 |
| **Analyte** | **Criteria** [1] | | | | | | | | | |
| **Volatile Organic Compounds** | | | | | | | | | | |
| 1,1,1-Trichloroethane | 5 | **2200** | **760** | 5 U | **30** | 1 U | 5 U | **250** | **110** | 3.4 J |
| 1,1,2,2-Tetrachloroethane | NC | 5 U | 5 U | 5 U | 1 U | 1 U | 5 U | 5 U | 1 U | 5 U |
| 1,1,2-Trichloroethane | 1 | 5 U | 5 U | 5 U | 1 U | 1 U | 5 U | 5 U | 1 U | 5 U |
| 1,1-Dichloroethane | 5 | **110** | **18** | 5 U | 1.9 | 1.4 | 0.29 J | **19** | **6.2** | 2.3 J |
| 1,1-Dichloroethene | 5 | **13** | **31** | 5 U | 1.8 | 1.3 | 5 U | **50** | 3.2 | 2.2 J |
| 1,2-Dibromo-3-chloropropane (DBCP) | 0.04 | 10 U | 5 U | 5 U | 2 U | 2 U | 5 U | 5 U | 2 U | 5 U |
| 1,2-Dibromoethane (Ethylene Dibromide) | 0.0006 | 5 U | 5 U | 5 U | 1 U | 1 U | 5 U | 5 U | 1 U | 5 U |
| 1,2-Dichloroethane | 0.6 | 5 U | 5 U | 5 U | 1 U | 1 U | 5 U | 5 U | 1 U | 5 U |
| 1,2-Dichloropropane | 1 | 5 U | 5 U | 5 U | 1 U | 1 U | 5 U | 5 U | 1 U | 5 U |
| 2-Butanone (Methyl Ethyl Ketone) | 50 | 25 U | 10 U | 10 U | 5 U | 5 U | 10 U | 10 U | 5 U | 10 U |
| 2-Hexanone | 50 | 25 U | 10 U | 10 U | 5 U | 5 U | 10 U | 10 U | 5 U | 10 U |
| 4-Methyl-2-pentanone (Methyl Isobutyl Ketone) | NC | 25 U | 10 U | 10 U | 5 U | 5 U | 10 U | 10 U | 5 U | 10 U |
| Acetone | 50 | 25 UJ | 10 U | 10 U | 5 UJ | 5 U | 10 U | 1.9 J | 5 U | 10 U |
| Benzene | 1 | 5 U | 5 U | 5 U | 1 U | 1 U | 5 U | 5 U | 1 U | 5 U |
| Bromodichloromethane | 50 | 5 U | 5 U | 5 U | 1 U | 1 U | 5 U | 5 U | 1 U | 5 U |
| Bromoform | 50 | 5 U | 5 U | 5 U | 1 U | 1 U | 5 U | 5 U | 1 U | 5 U |
| Bromomethane (Methyl Bromide) | 5 | 5 UJ | 5 UJ | 5 U | 1 UJ | 1 UJ | 5 U | 5 UJ | 1 UJ | 5 UJ |
| Carbon Disulfide | 60 | 5 U | 10 U | 10 U | 1 U | 1 U | 10 U | 10 U | 1 U | 10 U |
| Carbon Tetrachloride | 5 | 5 U | 5 U | 5 U | 1 U | 1 U | 5 U | 5 U | 1 U | 5 U |
| Chlorobenzene | 5 | 5 U | 5 U | 5 U | 1 U | 1 U | 5 U | 5 U | 1 U | 5 U |
| Chlorobromomethane | 5 | 5 U | 5 U | 5 U | 1 U | 1 U | 5 U | 5 U | 1 U | 5 U |
| Chloroethane | 5 | 5 U | 0.55 J | 5 U | 1 U | 1 U | 5 U | 5 U | 1 U | 5 U |
| Chloroform (Trichloromethane) | 7 | 5 U | 5 U | 5 U | 1 U | 1 U | 5 U | 5 U | 1 U | 5 U |
| Chloromethane (Methyl Chloride) | 5 | 5 U | 5 U | 5 U | 1 U | 1 U | 5 U | 5 U | 1 UJ | 5 U |
| cis-1,2-Dichloroethene | NC | 5 U | 0.59 J | 5 U | 1 U | 1 U | 5 U | 0.61 J | 0.64 J | 5 U |
| cis-1,3-Dichloropropene | 0.4 | 5 U | 5 U | 5 U | 1 U | 1 U | 5 U | 5 U | 1 U | 5 U |
| Dibromochloromethane | 50 | 5 U | 5 U | 5 U | 1 U | 1 U | 5 U | 5 U | 1 U | 5 U |
| Ethylbenzene | 5 | 5 U | 5 U | 5 U | 1 U | 1 U | 5 U | 5 U | 1 U | 5 U |
| Methylene chloride | 5 | 5 U | 5 U | 5 U | 1 U | 1 U | 5 U | 5 U | 1 U | 5 U |
| o-Xylene | 5 | 5 U | 5 U | 5 U | 1 U | 1 U | 5 U | 5 U | 1 U | 5 U |
| Styrene | 5 | 5 U | 5 U | 5 U | 1 U | 1 U | 5 U | 5 U | 1 U | 5 U |
| Tetrachloroethene | 5 | 5 U | 5 U | 5 U | 1.2 | 1 U | 5 U | **10** | **5.1** | 0.34 J |
| Toluene | 5 | 5 U | 5 U | 5 U | 1 U | 1 U | 5 U | 5 U | 1 U | 5 U |
| trans-1,2-Dichloroethene | 5 | 5 U | 5 U | 5 U | 1 U | 1 U | 5 U | 5 U | 1 U | 5 U |
| trans-1,3-Dichloropropene | 0.4 | 5 U | 5 U | 5 U | 1 U | 1 U | 5 U | 5 U | 1 U | 5 U |
| Trichloroethene | 5 | **6.2** | 1.1 J | 5 U | 0.48 J | 1 U | 5 U | **5.3** | 2.1 | 0.24 J |
| Trichlorofluoromethane (CFC-11) | 5 | 5 U | 5 U | 5 U | 1 U | 1 U | 5 U | 5 U | 1 U | 5 U |
| Vinyl Chloride | 2 | 5 U | 1.4 J | 5 U | 1 U | 1 U | 5 U | 5 U | 1 U | 5 U |
| Xylene (m,p) | 5 | 10 U | 5 U | 5 U | 2 U | 2 U | 5 U | 5 U | 2 U | 5 U |
| **Other Compounds** | | | | | | | | | | |
| 1,4-Dioxane | NC | 2.3 | 7.5 | 0.2 U | 0.52 | 0.69 | 0.2 U | 17 | 3.9 | 0.75 |

Notes:
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NC - No criteria exists
U - Not Detected at the Detection Limit shown, J - Estimated Value, NJ - Tentative in Identification and Estimated in Value

O'BRIEN & GERE

Table 1
DRAFT 2013 Periodic Groundwater Sampling Results
Former ITT Rochester Form Machine Facility
Site #8-28-112
Town of Gates, New York

| | Location Code | ITT-SBW-13 | ITT-SBW-14 | ITT-SBW-15 | ITT-SBW-16 | ITT-SBW-17 | ITT-SBW-18 | ITT-SBW-23 | ITT-SBW-23 |
|---|---|---|---|---|---|---|---|---|---|
| | Sample Name | ITT-SBW-13-062413 | ITT-SBW-14-062113 | ITT-SBW-15-062413 | ITT-SBW-16-061913 | ITT-SBW-17-061813 | ITT-SBW-18-061813 | ITT-FD-1-061913 | ITT-SBW-23-061913 |
| | Sample Type | N | N | N | N | N | N | FD | N |
| | Sample Date | 06/24/2013 | 06/21/2013 | 06/24/2013 | 06/19/2013 | 06/18/2013 | 06/18/2013 | 06/19/2013 | 06/19/2013 |
| **Analyte** | **Criteria** [1] | | | | | | | | |
| **Volatile Organic Compounds** | | | | | | | | | |
| 1,1,1-Trichloroethane | 5 | 3.1 | **23** | **8.6** | 0.92 J | 5 U | 5 U | 5 U | 5 U |
| 1,1,2,2-Tetrachloroethane | NC | 1 U | 5 U | 1 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,1,2-Trichloroethane | 1 | 1 U | 5 U | 1 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,1-Dichloroethane | 5 | 2.4 | **11** | 0.25 J | 5 U | 0.2 J | 5 U | 1.8 J | 1.8 J |
| 1,1-Dichloroethene | 5 | 1 U | 2.1 J | 1 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,2-Dibromo-3-chloropropane (DBCP) | 0.04 | 2 U | 5 U | 2 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,2-Dibromoethane (Ethylene Dibromide) | 0.0006 | 1 U | 5 U | 1 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,2-Dichloroethane | 0.6 | 1 U | 5 U | 1 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 1,2-Dichloropropane | 1 | 1 U | 5 U | 1 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 2-Butanone (Methyl Ethyl Ketone) | 50 | 5 U | 10 U | 5 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2-Hexanone | 50 | 5 U | 10 U | 5 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 4-Methyl-2-pentanone (Methyl Isobutyl Ketone) | NC | 5 U | 10 U | 5 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Acetone | 50 | 5 U | 2.8 J | 5 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Benzene | 1 | 1 U | 5 U | 1 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Bromodichloromethane | 50 | 1 U | 5 U | 1 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Bromoform | 50 | 1 U | 5 U | 1 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Bromomethane (Methyl Bromide) | 5 | 1 UJ | 5 UJ | 1 UJ | 5 U | 5 U | 5 U | 5 U | 5 U |
| Carbon Disulfide | 60 | 1 U | 10 U | 1 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| Carbon Tetrachloride | 5 | 1 U | 5 U | 1 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Chlorobenzene | 5 | 1 U | 5 U | 1 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Chlorobromomethane | 5 | 1 U | 5 U | 1 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Chloroethane | 5 | 1 U | 0.55 J | 1 U | 5 U | 5 U | 5 U | 0.35 J | 0.24 J |
| Chloroform (Trichloromethane) | 7 | 1 U | 5 U | 1 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Chloromethane (Methyl Chloride) | 5 | 1 U | 5 U | 1 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| cis-1,2-Dichloroethene | NC | 0.34 J | 0.35 J | 1 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| cis-1,3-Dichloropropene | 0.4 | 1 U | 5 U | 1 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Dibromochloromethane | 50 | 1 U | 5 U | 1 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Ethylbenzene | 5 | 1 U | 5 U | 1 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Methylene chloride | 5 | 1 U | 5 U | 1 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| o-Xylene | 5 | 1 U | 5 U | 1 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Styrene | 5 | 1 U | 5 U | 1 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Tetrachloroethene | 5 | 1 U | 5 U | 0.33 J | 5 U | 5 U | 5 U | 5 U | 5 U |
| Toluene | 5 | 1 U | 5 U | 1 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| trans-1,2-Dichloroethene | 5 | 1 U | 5 U | 1 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| trans-1,3-Dichloropropene | 0.4 | 1 U | 5 U | 1 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Trichloroethene | 5 | 1 U | 5 U | 1 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Trichlorofluoromethane (CFC-11) | 5 | 1 U | 5 U | 1 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Vinyl Chloride | 2 | 0.71 J | 0.84 J | 1 U | 5 U | 5 U | 5 U | 0.66 J | 0.65 J |
| Xylene (m,p) | 5 | 2 U | 5 U | 2 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| **Other Compounds** | | | | | | | | | |
| 1,4-Dioxane | NC | 0.71 | 2.4 | 0.2 U | 0.2 U | 0.2 U | 0.2 U | 0.3 | 0.31 |

Notes:
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U - Not Detected at the Detection Limit shown, J - Estimated Value, NJ - Tentative in Identification and Estimated in Value

# Data Validation Services

**120 Cobble Creek Road P. O. Box 208**
**North Creek, NY 12853**
**Phone (518) 251-4429**
**harry@frontiernet.net**

October 9, 2013

Paul Freyer
O'Brien & Gere Engineers
333 West Washington St
Syracuse, NY 13221

RE: Validation of the Former ITT Rochester Form Machine Facility 2013 Periodic Groundwater Sampling Analytical Data
Data Usability Summary Report (DUSR)
ALS Submission Nos. R1304470, R1304653, and R1304824

Dear Mr. Freyer:

Review has been completed for the data packages noted above, generated by ALS, that pertain to the samples collected between 06/18/13 and 07/01/13 at the ITT RFM site. Thirty-three aqueous samples and two field duplicates were analyzed for TCL volatiles by USEPA method 8260C and 1,4-dioxane by method 8270D.

Full data validation was performed in accordance with the project QAPP dated May 2004 and the addendum of August 2007, with use of the USEPA Region II Data Validation SOPs HW-22 and HW-24, and with consideration for the specific requirements of the analytical methodologies.
The following items were reviewed:

* Data Completeness
* Case Narrative
* Custody Documentation
* Holding Times
* Surrogate and Internal Standard Recoveries
* Method Blank
* Matrix Spike Recoveries/Duplicate Correlation
* Laboratory Control Samples (LCS)
* Instrument Performance
* Initial and Continuing Calibration Standards
* Method Compliance
* Sample Result Verification

The data review includes evaluation of the specific items noted in The NYS DER-10 Appendix B section 2.0 (c). The items listed above that show deficiencies are discussed within the text of this narrative. The laboratory QC forms illustrating the excursions can be found within the laboratory data packages.

**In summary,** sample results are usable either as reported, or with minor qualification, with the exception that the results for 1,4-dioxane generated by the volatile analysis are rejected. However, the results for that analyte by the semivolatile procedure are usable, and project objectives are met.

The QAPP requirements precision, accuracy, representativeness, completeness, sensitivity, and comparability were met. There is no evidence of a significant matrix effect on analyte recoveries.

Copies of the client sample identifications and the laboratory case narratives are attached to this text, and should be reviewed in conjunction with this report. Also included with the submission are the qualified client Equis EDD deliverables.

**Sample Receipt**

The chain-of-custody and log in form for samples collected 06/21/13 show a laboratory receipt date of 06/21/13. The laboratory system has a receipt date of 06/22/13.

Although some of the cooler temperatures at sample receipt are slightly elevated, those associated samples were received within two hours of collection, and were in the process of cooling down.

**Blind Field Duplicates**

Field duplicates were collected at locations ITT-SBW-23-061913 and ITT-IBW-20-062513. Correlations fall within validation guidelines.

**Volatile Analyses by EPA 8260C**

The detections of 2-hexanone and 4-methyl-2-pentanone are edited to non-detection due to very poor mass spectral quality.

The matrix spike of ITT-SBW-18-061813 shows acceptable recoveries; the matrix spike duplicate exhibits nine analytes with slightly low recoveries (all >= 74%). No qualification of the parent sample data is indicated.

The matrix spikes of AMSF-MW-5D-062513 show low recoveries (41% to 72%) for chloromethane and 1,1,1-trichloroethane, and an elevated duplicate correlations (54%RPD) for the former. Results for those two compounds in the parent sample have been qualified as estimated in value.

The result for analytes initially reported with the laboratory "E" flag are derived from the dilution analyses of those samples, thus reflecting responses within the established linear range of the instruments.

Acetone and/or methylene chloride were detected in some of the trip, equipment, and method blanks. Those analytes were not detected in associated field samples, and results are unaffected.

The results for 1,4-dioxane that report no detection are not usable due to very poor response that is inherent in the 8260C methodology (RRF<0.01).

Other calibration standards showed acceptable responses, with the following exceptions, results for which are to be qualified as estimated in the indicated samples:

- cyclohexane (21%D) in ITT-TB-061813, ITT-SBW-17-061813, ITT-SBW-18-061813, ITT-SBW-4-061813, AMSF-MW-9S-061813, ITT-IBW-19-061913, ITT-SBW-16-061913, ITT-SBW-8-061913, ITT-SBW-23-061913, ITT-FD-1-061913, ITT-TB-061913, ITT-TB-062013, ITT-EB-1-062013, AMSF-MW-3D-062013 and AMSF-MW-3S-062013

- bromomethane (31%D and 39%D) in ITT-TB-062113, AMSF-MW-1S-062013, AMSF-MW-10-062013, ITT-SBW-12-062013, ITT-SBW-14-062113, ITT-SBW-2-062113, ITT-SBW-9-062113, and ITT-TB-062813
- acetone and bromomethane (22%D to 28%D) in ITT-SBW-5A-062513, ITT-IBW-20-062513, ITT-FD-2-062513, ITT-DBW-8-062613, AMSF-MW-15I-062613, AMSF-MW-l1S-062613, ITT-TB-062713, ITT-EB-2-062713, AMSF-MW-16I-062713 and AMSF-MW-13S-062713
- bromomethane and chloromethane (21%D to 33%D) in ITT-TB-062613, ITT-DBW-2-062613, ITT-SBW-10-062713, AMSF-MW-5D-062513, AMSF-MW-12S-062713, AMSF-MW-lD-062813, AMSF-MW-7-062813, and ITT-TB-070113
- acetone, methyl acetate and chloromethane (22%D to 27%D) in AMSF-MW-8D-070113

**1,4-Dioxane by EPA 8270D**

The detected results for 1,4-dioxane in ITT-SBW-17-061813, ITT-SBW-18-061813, ITT-SBW-16-061913, ITT-SBW-8-061913, and ITT-EB-1-062013 are considered external contamination due to presence in the associated method blank. Those detections have been edited to non-detection.

Due to poor mass spectral quality, the result for 1,4-dioxane in AMSF-MW-3S-062013 is qualified as tentative in identification and estimated in value.

Due to very poor mass spectral quality, the results for 1,4-dioxane in AMSF-MW-8D-070113 are edited to reflect non-detection.

Surrogate recoveries were within acceptance ranges, and internal standard responses are within the required range.

Matrix spikes of AMSF-MW-5D-062513 and AMSF-MW-8D-070113 fall within laboratory acceptance limits.

Calibration standards show acceptable responses.

Please do not hesitate to contact me if questions or comments arise during your review of this report.

Very truly yours,

Judy Harry

Att: Validation Qualifier Definitions
Client and Laboratory Sample Identifications
Laboratory Case Narratives

## VALIDATION DATA QUALIFIER DEFINITIONS

| | |
|---|---|
| **U** | The analyte was analyzed for, but was not detected above the level of the associated reported quantitation limit. |
| **J** | The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample. |
| **UJ** | The analyte was not detected. The associated reported quantitation limit is an estimate and may be inaccurate or imprecise. |
| **NJ** | The detection is tentative in identification and estimated in value. Although there is presumptive evidence of the analyte, the result should be used with caution as a potential false positive and/or elevated quantitative value. |
| **R** | The data are unusable. The analyte may or may not be present. |
| **EMPC** | The results do not meet all criteria for a confirmed identification. The quantitative value represents the Estimated Maximum Possible Concentration of the analyte in the sample. |

# CLIENT and LABORATORY SAMPLE IDs and LABORATORY CASE NARRATIVES

# ALS ASP/CLP Batching Form/Login Sheet

| | | | | | |
|---|---|---|---|---|---|
| Client Proj #: | | Batch Complete: | Yes | Date Revised: | |
| Submission: | R1304470 | Diskette Requested: | Yes | Date Due: | ~~7/10/13~~ 7/8/13 tracklaulis |
| Client: | O'Brien & Gere Engineers, Incorpc | Date: | 6/24/13 | Protocol: | SW846 |
| Client Rep: | JJAEGER | Custody Seal: | Present/Absent: | Shipping No.: | |
| Project: | ITT FH-019 RFM | Chain of Custody: | Present/Absent: | SDG #: | ITT-TB-061813 |

| CAS Job # | Client/EPA ID | Matrix | Requested Parameters | Date Sampled | Date Received | pH (Solids) | % Solids | Remarks Sample Condition |
|---|---|---|---|---|---|---|---|---|
| R1304470-001 | ITT-TB-061813 | Water | 8260C | 6/18/13 | 6/18/13 | | | |
| R1304470-002 | ITT-SBW-17-061813 | Water | 8260C, 8270D | 6/18/13 | 6/18/13 | | | |
| R1304470-003QC | ITT-SBW-18-061813 | Water | 8260C, 8270D | 6/18/13 | 6/18/13 | | | |
| R1304470-005 | ITT-SBW-4-061813 | Water | 8260C, 8270D | 6/18/13 | 6/18/13 | | | |
| R1304470-006 | AMSF-MW-9S-061813 | Water | 8260C, 8270D | 6/18/13 | 6/18/13 | | | |
| R1304470-007 | ITT-IBW-19-061913 | Water | 8260C, 8270D | 6/19/13 | 6/19/13 | | | |
| R1304470-008 | ITT-SBW-16-061913 | Water | 8260C, 8270D | 6/19/13 | 6/19/13 | | | |
| R1304470-009 | ITT-SBW-8-061913 | Water | 8260C, 8270D | 6/19/13 | 6/19/13 | | | |
| R1304470-010 | ITT-SBW-23-061913 | Water | 8260C, 8270D | 6/19/13 | 6/19/13 | | | |
| R1304470-011 | ITT-FD-1-061913 | Water | 8260C, 8270D | 6/19/13 | 6/19/13 | | | |
| R1304470-012 | ITT-TB-061913 | Water | 8260C | 6/19/13 | 6/19/13 | | | |
| R1304470-013 | ITT-TB-062013 | Water | 8260C | 6/20/13 | 6/20/13 | | | |
| R1304470-014 | ITT-EB-1-062013 | Water | 8260C, 8270D | 6/20/13 | 6/20/13 | | | |
| R1304470-015 | AMSF-MW-3D-062013 | Water | 8260C, 8270D | 6/20/13 | 6/20/13 | | | |
| R1304470-016 | AMSF-MW-3S-062013 | Water | 8260C, 8270D | 6/20/13 | 6/20/13 | | | |
| R1304470-017 | AMSF-MW-1S-062013 | Water | 8260C, 8270D | 6/20/13 | 6/20/13 | | | |
| R1304470-018 | AMSF-MW-10-062013 | Water | 8260C, 8270D | 6/20/13 | 6/20/13 | | | |
| R1304470-019 | ITT-SBW-12-062013 | Water | 8260C, 8270D | 6/20/13 | 6/20/13 | | | |
| R1304470-020 | ITT-TB-062113 | Water | 8260C | 6/21/13 | 6/22/13 | | | |
| R1304470-021 | ITT-SBW-14-062113 | Water | 8260C, 8270D | 6/21/13 | 6/22/13 | | | |
| R1304470-022 | ITT-SBW-2-062113 | Water | 8260C, 8270D | 6/21/13 | 6/22/13 | | | |
| R1304470-023 | ITT-SBW-9-062113 | Water | 8260C, 8270D | 6/21/13 | 6/22/13 | | | |

Folder Comments:

# ALS ASP/CLP Batching Form/Login Sheet

| | | | | | |
|---|---|---|---|---|---|
| Client Proj #: | | Batch Complete: | Yes | Date Revised: | |
| Submission: | R1304653 | Diskette Requested: | No | Date Due: | 7/23/13 |
| Client: | O'Brien & Gere Engineers, Incorp( | Date: | 7/12/13 | Protocol: | SW846 |
| Client Rep: | JJAEGER | Custody Seal: Present/Absent: | | Shipping No.: | |
| Project: | ITT FH-019 RFM | Chain of Custody: Present/Absent: | | SDG #: | ITT-TB-062413 |

| CAS Job # | Client/EPA ID | Matrix | Requested Parameters | Date Sampled | Date Received | pH (Solids) | % Solids | Remarks Sample Condition |
|---|---|---|---|---|---|---|---|---|
| R1304653-001 | ITT-TB-062413 | Water | 8260C | 6/24/13 | 6/26/13 | | | |
| R1304653-002 | ITT-SBW-7-062413 | Water | 8260C, 8270D | 6/24/13 | 6/26/13 | | | |
| R1304653-003 | ITT-SBW-13-062413 | Water | 8260C, 8270D | 6/24/13 | 6/26/13 | | | |
| R1304653-004 | ITT-SBW-15-062413 | Water | 8260C, 8270D | 6/24/13 | 6/26/13 | | | |
| R1304653-005 | ITT-SBW-5A-062513 | Water | 8260C, 8270D | 6/25/13 | 6/26/13 | | | |
| R1304653-006 | ITT-IBW-20-062513 | Water | 8260C, 8270D | 6/25/13 | 6/26/13 | | | |
| R1304653-006.R01 | ITT-IBW-20-062513 | Water | 8260C | 6/25/13 | 6/26/13 | | | |
| R1304653-007 | AMSF-MW-5D-062513 | Water | 8260C, 8270D | 6/25/13 | 6/26/13 | | | |
| R1304653-008 | ITT-FD-2-062513 | Water | 8260C, 8270D | 6/25/13 | 6/26/13 | | | |
| R1304653-008.R01 | ITT-FD-2-062513 | Water | 8260C | 6/25/13 | 6/26/13 | | | |
| R1304653-009 | ITT-TB-062613 | Water | 8260C | 6/26/13 | 6/26/13 | | | |
| R1304653-010 | ITT-DBW-2-062613 | Water | 8260C, 8270D | 6/26/13 | 6/26/13 | | | |
| R1304653-011 | ITT-DBW-8-062613 | Water | 8260C, 8270D | 6/26/13 | 6/26/13 | | | |
| R1304653-012 | AMSF-MW-15I-062613 | Water | 8260C, 8270D | 6/26/13 | 6/26/13 | | | |
| R1304653-013 | AMSF-MW-11S-062613 | Water | 8260C, 8270D | 6/26/13 | 6/26/13 | | | |
| R1304653-013.R01 | AMSF-MW-11S-062613 | Water | 8260C | 6/26/13 | 6/26/13 | | | |
| R1304653-014 | ITT-TB-062713 | Water | 8260C | 6/27/13 | 6/27/13 | | | |
| R1304653-015 | ITT-EB-2-062713 | Water | 8260C, 8270D | 6/27/13 | 6/27/13 | | | |
| R1304653-016 | AMSF-MW-12S-062713 | Water | 8260C, 8270D | 6/27/13 | 6/27/13 | | | |
| R1304653-017 | AMSF-MW-16I-062713 | Water | 8260C, 8270D | 6/27/13 | 6/27/13 | | | |
| R1304653-017.R01 | AMSF-MW-16I-062713 | Water | 8260C | 6/27/13 | 6/27/13 | | | |
| R1304653-018 | AMSF-MW-13S-062713 | Water | 8260C, 8270D | 6/27/13 | 6/27/13 | | | |
| R1304653-019 | ITT-SBW-10-062713 | Water | 8260C, 8270D | 6/27/13 | 6/27/13 | | | |
| R1304653-020 | ITT-TB-062813 | Water | 8260C | 6/28/13 | 6/28/13 | | | |
| R1304653-021 | AMSF-MW-1D-062813 | Water | 8260C, 8270D | 6/28/13 | 6/28/13 | | | |
| R1304653-022 | AMSF-MW-7-062813 | Water | 8260C, 8270D | 6/28/13 | 6/28/13 | | | |

Folder Comments:

# ALS ASP/CLP Batching Form/Login Sheet

| | | | |
|---|---|---|---|
| Client Proj #: | | Batch Complete: Yes | Date Revised: |
| Submission: | R1304824 | Diskette Requested: Yes | Date Due: 7/24/13 |
| Client: | O'Brien & Gere Engineers, Incorp | Date: 7/12/13 | Protocol: SW846 |
| Client Rep: | JJAEGER | Custody Seal: Present/Absent: | Shipping No.: |
| Project: | ITT FH-019 RFM | Chain of Custody: Present/Absent: | SDG #: |

| CAS Job # | Client/EPA ID | Matrix | Requested Parameters | Date Sampled | Date Received | pH (Solids) | % Solids | Remarks Sample Condition |
|---|---|---|---|---|---|---|---|---|
| R1304824-001 | AMSF-MW-8D-070113 | Water | 8260C, 8270D | 7/1/13 | 7/1/13 | | | |
| R1304824-002 | ITT-TB-070113 | Water | 8260C | 7/1/13 | 7/1/13 | | | |

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Folder Comments:

## CASE NARRATIVE

| | | | |
|---|---|---|---|
| **Client:** | O'Brien & Gere | **Service Request:** | R1304470 |
| **Project:** | ITT FH-019 RFM | **Project Number:** | |
| **Sample Matrix:** | Water | **Date Received:** | 6/18-22/13 |

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier IV deliverables. When appropriate to the method, method blank and LCS results have been reported with each analytical test.

**Sample Receipt**

Samples were collected on 6/18-21/13 and received at ALS on 6/18-22/13 at cooler temperature3 of 3.7-12.5°C in good condition except as noted on the cooler receipt and preservation check form.

**Volatile Organics**

Twenty three water samples were analyzed for a site specific list of Volatiles by methods 8260C from SW-846.

All Initial calibration criteria were met for all analytes. All Continuing Calibration Verification (CCV) standards were within 20% Difference (D) except Cyclohexane on the 06/27/13 CCV, Bromomethane, Isopropylbenzene and 1,2,4-Trichlorobenzene on the 06/28/13 CCV and Bromomethane on the 07/02/13 CCV. All positive detections for these compounds for samples associated with these CCV's should be considered as estimated.

All Tuning criteria and Internal Standard Areas were within QC limits.

All Laboratory Control Sample (LCS) recoveries were within limits except 1,1-Dichloroethene was outside limits high on the 05/09/13 LCS and has been flagged with an "*". No data was affected.

Site specific QC was performed on ITT-SBW-18-061813 and ITT-SBW-2-062113. Various Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries were outside limits and have been flagged with an "*". All RPD's were acceptable.

Various compounds for ITT-SBW-2-062113 and ITT-SBW-9-062113 have been flagged with an "E" as being outside the calibration range of the instrument. The samples were repeated at dilutions and both sets of data have been reported out.

All surrogate standard recoveries were within limits.

The Method blanks associated with these samples were free of contamination.

All samples were extracted and analyzed within recommended holding times.

No other analytical or QC problems were encountered.

**Semivolatile Organics**

Eighteen water samples were analyzed for 1,4-Dioxane by method 8270D from SW-846.

All initial and continuing calibration criteria were met for all analytes.

All Tuning criteria and Internal Standard Areas were within limits.

The LCS/LCSD recoveries and RPD's were acceptable

Site specific QC was performed on ITT-SBW-18-061813 and ITT-SBW-14-062113. All MS/MSD recoveries and RPD's were acceptable.

All surrogate standard recoveries were within limits.

The Method blanks associated with these samples were free of contamination except the 06/24/13 blank had a low level detection for 1,4-Dioxane. All affected data has been flagged with a "B"..

All samples were analyzed within recommended holding times.

No other analytical or QC problems were encountered.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the details conditioned above. Release of the data contained in this data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

## CASE NARRATIVE

| | | | |
|---|---|---|---|
| **Client:** | O'Brien & Gere | **Service Request:** | R1304653 |
| **Project:** | ITT FH-019 RFM | **Project Number:** | |
| **Sample Matrix:** | Water | **Date Received:** | 6/26-28/13 |

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier IV deliverables. When appropriate to the method, method blank and LCS results have been reported with each analytical test.

**Sample Receipt**

Samples were collected on 6/24-28/13 and received at ALS on 6/26-28/13 at cooler temperatures of 3.5-11.2°C in good condition except as noted on the cooler receipt and preservation check form.

**Volatile Organics**

Twenty two water samples were analyzed for a site specific list of Volatiles by methods 8260C from SW-846.

All Initial calibration criteria were met for all analytes. All Continuing Calibration Verification (CCV) standards were within 20% Difference (D) except Acetone and Bromomethane on the 07/02/13 CCV (Run #347532), Bromomethane on the 07/02/13 CCV (Run #347536) and Chloromethane and Bromomethane on the 07/03/13 CCV. All positive detections for these compounds for samples associated with these CCV's should be considered as estimated.

All Tuning criteria and Internal Standard Areas were within QC limits.

All Laboratory Control Sample (LCS) recoveries were within limits.

Site specific QC was performed on AMSF-MW-5D-062513. Various Matrix Spike/Matrix Spike (MS/MSD) recoveries and RPD's were outside limits and have been flagged with an "*".

Various compounds for ITT-IBW-20-062513, ITT-FD-2-062513, AMSF-MW-11S-062613 and AMSF-MW-16I-062713 have been flagged with an "E" as being outside the calibration range of the instrument. The samples were repeated at dilutions and both sets of data have been reported out.

All surrogate standard recoveries were within limits.

The Method blanks associated with these samples were free of contamination.

All samples were extracted and analyzed within recommended holding times.

No other analytical or QC problems were encountered.

**Semivolatile Organics**

Eighteen water samples were analyzed for 1,4-Dioxane by method 8270D from SW-846.

All initial and continuing calibration criteria were met for all analytes.

All Tuning criteria and Internal Standard Areas were within limits.

The LCS/LCSD recoveries and RPD's were acceptable

Site specific QC was performed on AMSF-MW-5D-062513. All MS/MSD recoveries and RPD's were acceptable.

All surrogate standard recoveries were within limits.

The Method blanks associated with these samples were free of contamination.

All samples were analyzed within recommended holding times.

No other analytical or QC problems were encountered.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the details conditioned above. Release of the data contained in this data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

## CASE NARRATIVE

| | | | |
|---|---|---|---|
| **Client:** | O'Brien & Gere | **Service Request:** | R1304824 |
| **Project:** | ITT FH-019 RFM | **Project Number:** | |
| **Sample Matrix:** | Water | **Date Received:** | 7/01/13 |

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier IV deliverables. When appropriate to the method, method blank and LCS results have been reported with each analytical test.

**Sample Receipt**

Samples were collected on 7/01/13 and received at ALS on 7/01/13 at cooler temperatures of 5.9-10.1°C in good condition except as noted on the cooler receipt and preservation check form.

**Volatile Organics**

Two water samples were analyzed for a site specific list of Volatiles by methods 8260C from SW-846.

All Initial calibration criteria were met for all analytes. All Continuing Calibration Verification (CCV) standards were within 20% Difference (D) except Chloromethane and Bromomethane on the 07/10/13 CCV and Chloromethane, Acetone, Methyl acetate and 2-Butanone on the 07/11/13 CCV. All positive detections for these compounds for samples associated with these CCV's should be considered as estimated.

All Tuning criteria and Internal Standard Areas were within QC limits.

All Laboratory Control Sample (LCS) recoveries were within limits except 1,1-Dichloroethene was outside limits high on the 05/09/13 LCS and has been flagged with an "*". No data was affected.

Site specific QC was not requested on these samples.

All surrogate standard recoveries were within limits.

The Method blanks associated with these samples were free of contamination except the 07/10/11 blank had a low level detection for Acetone. All affected data has been flagged with a "B".

All samples were extracted and analyzed within recommended holding times.

No other analytical or QC problems were encountered.

**Semivolatile Organics**

One water sample was analyzed for 1,4-Dioxane by method 8270D from SW-846.

All initial and continuing calibration criteria were met for all analytes.

All Tuning criteria and Internal Standard Areas were within limits.

The LCS/LCSD recoveries and RPD's were acceptable

Site specific QC was performed on AMSF-MW-8D-071113. All MS/MSD recoveries and RPD's were acceptable.

All surrogate standard recoveries were within limits.

The Method blanks associated with these samples were free of contamination.

All samples were analyzed within recommended holding times.

No other analytical or QC problems were encountered.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the details conditioned above. Release of the data contained in this data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

March 19, 2014

**Mr. Dennis P. Maguire**
Maguire Family Properties, Inc.
770 Rock Beach Road
Rochester, NY 14617

RE: 2013-2014 Vapor Intrusion Monitoring Sampling Results – December 5-6, 2013
FILE: 3356/35273

Dear Mr. Maguire:

The content of this letter has been reviewed by the New York State Department of Environmental Conservation (NYSDEC) and the New York State Department of Health (NYSDOH).

As you are aware, vapor intrusion sampling was conducted at your facility, the Former Alliance Metal Stamping & Fabrication (AMSF) facility, located at 12 Pixley Industrial Parkway, Town of Gates, New York, adjacent to the Former Rochester Form Machine (RFM) Facility. This sampling was conducted in accordance with the Interim Remedial Measures (IRM) Interim Site Management Plan (ISMP) dated August 2011 and approved by NYSDEC in a letter dated August 15, 2011, as well as the current access agreement between Maguire Family Properties, Inc. (MFP) and ITT Corporation (ITT).

This sampling event was the third annual vapor intrusion monitoring required by NYSDEC. The IRM ISMP specified the vapor intrusion monitoring locations and methods. Sampling was conducted in two tenant spaces (Bright Raven and former E-Z Movers spaces[1]) in the northwest corner of the building on December 6, 2013. The sampling was conducted by O'Brien & Gere on behalf of ITT with oversight by NYSDEC and NYSDOH. This letter provides you with validated results of the sampling that was conducted at your facility.

As you are aware, previous sub-slab and indoor air sampling indicated that there were elevated levels of 1,1,1-trichloroethane (TCA) in sub-slab samples. Other compounds, such as trichloroethene (TCE) and tetrachloroethene (PCE) were also detected at the Former AMSF building. Because TCA has also been observed in sub-slab and indoor air sampling at the Former RFM Site, TCA has been considered to be an RFM-related compound[2]. The results of this monitoring event were evaluated to assess potential vapor intrusion of TCA, TCE, PCE and associated breakdown compounds. As described in the NYSDEC-approved IRM ISMP, as part of the monitoring program ITT is required to collect samples and analyze for the following six target compounds:

- TCA
- PCE
- TCE
- 1-1, dichloroethene (1,1-DCE),
- cis-1,2-dichloroethene (cis-1,2-DCE),
- 1,1-dichloroethane (DCA)

In connection with your Remedial Investigation under the Brownfield Cleanup Program, your consultant, Tom Wells of Stantec, requested that in addition to analyzing for the six target compounds identified above, ITT instruct the lab to analyze the collected samples for the full list of compounds via USEPA Method TO-15. As described in an email from O'Brien & Gere to Stantec dated November 21, 2013, ITT agreed to provide the results of the expanded

[1] The tenant currently occupying the space formerly occupied by E-Z Movers is Edge Color Graphics. The text, figures, tables, and appendices still identify E-Z Movers as they were the tenant occupying the space at the time the IRM ISMP was approved.

[2] "RFM-related compounds" are those that have been found at the Former RFM site, but are not necessarily the result of a source at the Former RFM site.

analysis; however, no further review of the data (*e.g.,* technical analysis, data validation) associated with the additional compounds will be provided. NYSDEC approved this process. Therefore, the evaluation provided below is specific to the results associated with the previously identified six target compounds. However, it was observed during validation that the lab initially misreported the results associated with cyclohexane in samples AMSF-05-SS-120613, AMSF-05-SSD-120613 and AMSF-06-SS-120613. These results were reported as detects but should have been reported as non-detects. We reviewed this error with the lab and they issued a revised laboratory report. The initial full analytical report was provided to Stantec via Federal Express on February 3, 2014 and the revised laboratory report was provided to Stantec via an FTP site on Febraury 27, 2014.

The sampling of sub-slab soil vapor from under the building's concrete slab (sub-slab), from within the building (indoor air), and from outside and upwind of the building (ambient air) was conducted at the facility on December 6, 2013. Approximate sample locations are presented on Figure 1. The samples were analyzed by a laboratory certified by the NYSDOH and went through an independent validation process. ITT submitted all sampling results to the NYSDEC and NYSDOH as required by law.

Table 1, attached to this letter, presents a summary of the results for the six target compounds. All compounds included in the analysis, including those compounds excluded from this evaluation, are provided in the attached laboratory report. Concentrations of TCA were detected in the sub-slab samples collected during this sampling event at concentrations ranging from 190 micrograms per cubic meter (µg/m$^3$) to 22,000 µg/m$^3$. Indoor air concentrations for TCA ranged from 3.2 to 10 µg/m$^3$.

Table 2, attached to this letter, presents a summary of the results of vapor intrusion samples collected at the former E-Z Movers and Bright Raven tenant spaces since 2004. The following findings can be identified from the December 2013 sampling event:

- A slab inspection was conducted by O'Brien & Gere in December 2013 prior to initiation of sampling. The purpose of the slab inspection was to inspect previously identified cracks, identify new cracks, and seal cracks which appeared to penetrate the slab. The inspection indicated that there were no visible evidence of cracks at a depth which would penetrate the slab and therefore no visible soil vapor pathways across the slab.
- Sub-slab concentrations of TCA and PCE at sample location AMSF-24[3] are higher than the concentrations measured from sample location AMSF-04 during the February 2013 sampling event but remain lower than the concentrations measured at sample location AMSF-04 during the March 2008 sampling event. Over the last six years, the sub-slab soil vapor concentrations of TCA and PCE in this area appear to be declining.
- Sub-slab concentration of TCA at sample location AMSF-05 is higher than the concentration measured from this location during the February 2013 sampling event but remains lower than the concentration measured at this location during the March 2008 sampling event.
- Sub-slab concentration of PCE at sample location AMSF-05 is similar to the concentration measured from this location during the March 2008 sampling event.
- Sub-slab concentration of TCA at sample location AMSF-06 is higher than the concentration detected from this same location during the December 2011 sampling event but is lower than the concentrations detected during the other sampling events.
- Sub-slab concentration of PCE at sample location AMSF-06 is similar to the concentration detected at this location during the December 2011 sampling event.

[3] Sample location AMSF-24 (sub-slab) is located approximately 10 feet from AMSF-04 outside of an office wall. AMSF-24 (indoor air) is located within the office area. AMSF-04 is no longer accessible due to renovations in the office area. Based on the new configuration, no other suitable sub-slab sample locations are present in the office area.

- Sub-slab concentrations of TCA and PCE at sample locations AMSF-07 and AMSF-22 are lower than concentrations detected at previous sampling events from these same locations.
- TCE indoor air levels found during the December 2013 sampling event continue to be below the NYSDOH air guideline value of 5 $\mu g/m^3$.
- TCA and PCE indoor air levels continue to be well less than the NYSDOH air guideline value for PCE of 30[4] $\mu g/m^3$. TCA indoor air levels are also compared to this air guideline value as it is listed on the same NYSDOH decision matrix as PCE.
- No indoor products containing TCA or PCE were found in the Bright Raven and former E-Z Movers tenant spaces during the December 2013 chemical inventory.

It is our understanding that you will inform the occupants at this property of the sampling results to the extent required by applicable law.

Based on these December 2013 sample results, no additional action is required at this time, besides the annual vapor intrusion monitoring as described in the IRM ISMP. We will contact you this coming November to schedule another annual sampling event. In the meantime, if you have any questions or wish to discuss these results, please contact any of the people listed below:

Frank L. Sowers, P.E., NYSDEC Project Manager 585-226-5357
Julia Kenney, NYSDOH Project Manager 518-402-7860
John Frazer, Monroe County Department of Health 585-753-5476

Thank you for your cooperation during vapor intrusion sampling at your facility.

Very truly yours,

**O'BRIEN &GERE ENGINEERS, INC.**

Mark A. Distler
Senior Vice President

**ITT CORPORATION**

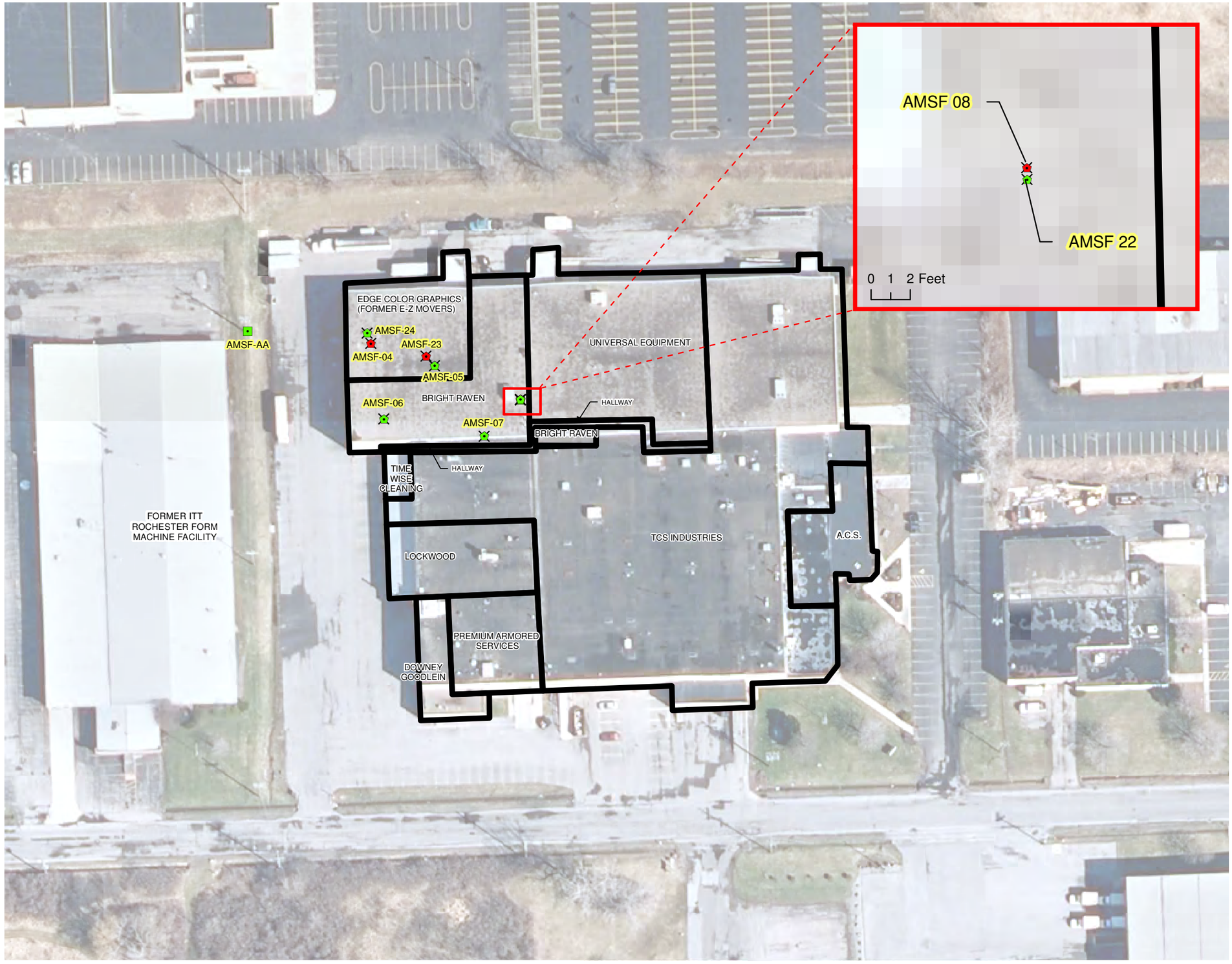
Teresa P. Olmsted
Director, Environmental Affairs

Attachments: Figure 1 – Sample Locations
Table 1 – Summary of Vapor Intrusion Monitoring Results, 2013-2014 Heating Season
Table 2 – Summary of Vapor Intrusion Sampling Results, 2004-2014 at former E-Z Movers and Bright Raven Tenant Spaces
Attachment 1 – Laboratory Report

cc: Frank Sowers, P.E. (NYSDEC)
Julia Kenney (NYSDOH)
John Frazer (MCDOPH)
John Felsen (MCDOPH)
Lisa Hall (ITT)
Michael Peters (Stockli Slevin & Peters LLP)
Jeff Danzinger (Day Environmental)
Paul D. Sylvestri (Harter Secrest & Emery LLP)

[4] NYSDOH changed the air guideline value for PCE from 100 to 30 $\mu g/m^3$ in 2013.

## *Sample Locations*




# FIGURE 1

N

## LEGEND

- SUB-SLAB/INDOOR AIR SAMPLE PAIR
- FORMER SAMPLE LOCATION (NOT SAMPLED)
- AMBIENT AIR SAMPLE

FORMER ITT ROCHESTER FORM
MACHINE FACILITY
TOWN OF GATES, NEW YORK
SITE #8-28-112

## VAPOR INTRUSION 2013-2014 HEATING SEASON MONITORING LOCATIONS (DECEMBER 2013)

0 40 80 160
Feet

FEBRUARY 2014
3356.35273

O'BRIEN & GERE

This document was developed in color. Reproduction in B/W may not represent the data as intended.

I:\ltt.3356\35273.ltt-Auto-Fh-19\2_corres\V\AMSF\Ongoing Monitoring\2010-2011 Heating Season\AMSF_SubSlab_Air_Samps_051311_Rev2.mxd

PLOTDATE: 02/03/14 12:16:19 PM MortonAK

# *Summary of Vapor Intrusion Monitoring Results, 2013-2014 Heating Season*

# Table 1

## Summary of Vapor Intrusion Monitoring Results
## 2013-2014 Heating Season
## Former AMSF Building

| | Sample Location | AMSF-24[1] (former E-Z Movers) | | AMSF-05 (former E-Z Movers) | | | AMSF-AA-03 |
|---|---|---|---|---|---|---|---|
| | Sample ID | AMSF-24-SS-120613 | AMSF-24-IA-120613 | AMSF-05-SS-120613 | AMSF-05-SSD-12/06/13 | AMSF-05-IA-120613 | AMSF-AA-120613 |
| | Sample Date | 12/06/2013 | 12/06/2013 | 12/06/2013 | 12/06/2013 | 12/06/2013 | 12/06/2013 |
| Target Compounds | Sample Type | Sub-Slab | Indoor Air | Sub-Slab | | Indoor Air | Ambient Air |
| 1,1,1-Trichloroethane (TCA) | | 1,800 | 3.2 | 22,000 J | 17,000 J | 4.7 | 0.22 U |
| Tetrachloroethene (PCE) | | 300 | 3.7 | 2,800 J | 2,100 J | 4.4 | 0.27 U |
| 1,1-Dichloroethane (1,1-DCA) | | 8.1 U | 0.81 U | 340 | 260 | 0.81 U | 0.16 U |
| 1,1-Dichloroethene (1,1-DCE) | | 7.9 U | 0.79 U | 860 J | 650 J | 0.79 U | 0.16 U |
| cis-1,2-Dichloroethene (cis-1,2-DCE) | | 7.9 U | 0.79 U | 85 U | 81 U | 0.79 U | 0.16 U |
| Trichloroethene (TCE) | | 11 U | 0.21 U | 160 | 120 | 0.21 U | 0.21 U |

| | Sample Location | AMSF-06 (Bright Raven) | | AMSF-07 (Bright Raven) | | AMSF-22 (Bright Raven) | |
|---|---|---|---|---|---|---|---|
| | Sample ID | AMSF-06-SS-120613 | AMSF-06-IA-120613 | AMSF-07-SS-120613 | AMSF-07-IA-120613 | AMSF-22-SS-120613 | AMSF-22-IA-120613 |
| | Sample Date | 12/06/2013 | 12/06/2013 | 12/06/2013 | 12/06/2013 | 12/06/2013 | 12/06/2013 |
| Target Compounds | Sample Type | Sub-Slab | Indoor Air | Sub-Slab | Indoor Air | Sub-Slab | Indoor Air |
| 1,1,1-Trichloroethane (TCA) | | 3,800 | 9.1 | 190 | 5.4 | 910 | 10 |
| Tetrachloroethene (PCE) | | 790 | 9.8 | 160 | 5.9 | 8,100 | 11 |
| 1,1-Dichloroethane (1,1-DCA) | | 17 U | 0.81 U | 56 | 0.81 U | 840 | 0.81 U |
| 1,1-Dichloroethene (1,1-DCE) | | 16 U | 0.85 | 59 | 0.79 U | 5,100 | 0.85 |
| cis-1,2-Dichloroethene (cis-1,2-DCE) | | 16 U | 0.79 U | 0.79 U | 0.79 U | 190 | 0.79 U |
| Trichloroethene (TCE) | | 22 U | 0.39 | 1.1 U | 0.27 | 640 | 0.40 |

Notes:

Results in table are reported in units of micrograms per cubic meter (ug/$m^3$).

## U - Compound not detected above the reporting limit (##).

##J - Compound detected but the reported value may not be accurate or precise. Qualified as approximate based on excursions from QA/QC criteria.

[1] Sample location AMSF-24 (sub-slab) is located approximately 10 feet from AMSF-04 outside of office wall. AMSF-24 (indoor air) is located within the office area. AMSF-04 is no longer accessible due to renovations in the office area. Based on new configuration, no other suitable sub-slab sample locations are present in the office area.

# *Summary of Vapor Intrusion Sampling Results, 2004-2014 at former E-Z Movers and Bright Raven Tenant Spaces*

**Table 2**

**Summary of Vapor Intrusion Sampling Results**

**2004-2014 at Former E-Z Movers and Bright Raven**
**Former AMSF Building**

| | | Edge Color Graphics (former E-Z Movers) | | | | |
|---|---|---|---|---|---|---|
| | | Office | | | | |
| | Sample Location | AMSF-01 | AMSF-01 | AMSF-01 | AMSF-01A | AMSF-02 |
| | Sample ID | AMSFSS1/2435 | 005835-SS | 005834-IA1 | 007518-IA2 | AMSFSS2/2546 |
| | IRM ISMP Monitoring Season | NA | NA | NA | NA | NA |
| | Sample Date | 08/20/2004 | 02/25/2005 | 02/25/2005 | 02/25/2005 | 08/20/2004 |
| Target Compounds | Sample Type | Sub-Slab | Sub-Slab | Indoor Air | Indoor Air | Sub-Slab |
| 1,1,1-Trichloroethane (TCA) | | 1,100 J | 870 | 3.3 J | 5.5 | 320 J |
| Tetrachloroethene (PCE) | | 23 J | 240 | 10 J | 10 | 41 J |
| 1,1-Dichloroethane (1,1-DCA) | | 22 J | 0.8 U | 0.8 UJ | 0.8 U | 8.1 UJ |
| 1,1-Dichloroethene (1,1-DCE) | | 1,100 J | 0.8 U | 0.8 UJ | 0.8 U | 12 UJ |
| cis-1,2-Dichloroethene (cis-1,2-DCE) | | 3.2 UJ | 2.8 | 0.8 UJ | 0.8 U | 7.9 UJ |
| Trichloroethene (TCE) | | 7 UJ | 3.8 | 1.6 UJ | 1.6 U | 16 UJ |

| | | Edge Color Graphics (former E-Z Movers) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Office | | | | | | | | | | | |
| | Sample Location | AMSF-04 | AMSF-04 | AMSF-04 | AMSF-04 | AMSF-04 | AMSF-04 (Dup) | AMSF-04 | AMSF-04 | AMSF-04 (Dup) | AMSF-04 | AMSF-24[3] | AMSF-24[3] |
| | Sample ID | AMSF-04-SS-032808 | AMSF-04-IA-032808 | AMSF-04-SS-033111 | AMSF-04-IA-033111 | AMSF-04-SS-120611 | AMSF-04-SSD-120611 | AMSF-04-IA-120611 | AMSF-04-SS-021913 | AMSF-04-SSD-021913 | AMSF-04-IA-021913 | AMSF-24-SS-120613 | AMSF-24-IA-120613 |
| | IRM ISMP Monitoring Season | NA | NA | 2010-2011 | 2010-2011 | 2011-2012 | 2011-2012 | 2011-2012 | 2012-2013 | 2012-2013 | 2012-2013 | 2013-2014 | 2013-2014 |
| | Sample Date | 03/28/2008 | 03/28/2008 | 03/31/2011 | 03/31/2011 | 12/06/2011 | 12/06/2011 | 12/06/2011 | 02/19/2013 | 02/19/2013 | 02/19/2013 | 12/06/2013 | 12/06/2013 |
| Target Compounds | Sample Type | Sub-Slab | Indoor Air | Sub-Slab | Indoor Air | Sub-Slab | Sub-Slab | Indoor Air | Sub-Slab | Sub-Slab | Indoor Air | Sub-Slab | Indoor Air |
| 1,1,1-Trichloroethane (TCA) | | 8,200 | 6.5 | 2,600 | 0.22 U | 160 | 140 | 24 | 1,000 J | 680 J | 2.1 | 1,800 | 3.2 |
| Tetrachloroethene (PCE) | | 570 | 1.0 | 220 | 1.0 | 35 | 30 | 2.5 | 170 J | 100 J | 1.4 J | 300 | 3.7 |
| 1,1-Dichloroethane (1,1-DCA) | | 45 | 0.16 U | 15 U | 0.16 U | 0.84 | 0.81 U | 0.24 U | 5.8 | 4.1 | 0.16 U | 8.1 U | 0.81 U |
| 1,1-Dichloroethene (1,1-DCE) | | 79 | 0.16 U | 14 U | 0.16 U | 1.9 | 1.4 | 0.85 | 5.5 | 3.8 | 0.27 | 7.9 U | 0.79 U |
| cis-1,2-Dichloroethene (cis-1,2-DCE) | | 40 U | 0.16 U | 14 U | 0.16 U | 0.79 U | 0.79 U | 0.23 U | 5.5 U | 3.1 U | 0.16 U | 7.9 U | 0.79 U |
| Trichloroethene (TCE) | | 64 | 0.21 U | 20 U | 0.21 U | 3.8 J | 1.5 J | 0.31 U | 7.9 | 5.2 | 0.21 U | 11 U | 0.21 U |

| | | Edge Color Graphics (former E-Z Movers) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Warehouse | | | | | | | | | | |
| | Sample Location | AMSF-05 | AMSF-05 | AMSF-05 | AMSF-05 | AMSF-05 (23)[1] | AMSF-05 (23)[1] | AMSF-05 | AMSF-05 | AMSF-05 | AMSF-05 (Dup) | AMSF-05 |
| | Sample ID | AMSF-05-SS-032808 | AMSF-05-IA-032808 | AMSF-05-SS-033111 | AMSF-05-IA-033111 | AMSF-23-SS-120611 | AMSF-23-IA-120611 | AMSF-05-SS-021913 | AMSF-05-IA-021913 | AMSF-05-SS-120613 | AMSF-05-SSD-12/06/13 | AMSF-05-IA-120613 |
| | IRM ISMP Monitoring Season | NA | NA | 2010-2011 | 2010-2011 | 2011-2012 | 2011-2012 | 2012-2013 | 2012-2013 | 2013-2014 | 2013-2014 | 2013-2014 |
| | Sample Date | 03/28/2008 | 03/28/2008 | 03/31/2011 | 03/31/2011 | 12/06/2011 | 12/06/2011 | 02/19/2013 | 02/19/2013 | 12/06/2013 | 12/06/2013 | 12/06/2013 |
| Target Compounds | Sample Type | Sub-Slab | Indoor Air | Sub-Slab | Indoor Air | Sub-Slab | Indoor Air | Sub-Slab | Indoor Air | Sub-Slab | Sub-Slab (Dup) | Indoor Air |
| 1,1,1-Trichloroethane (TCA) | | 55,000 | 6.5 | 21,000 | 2.7 | 1,700 | 18.0 | 12,000 | 2.3 | 22,000 J | 17,000 J | 4.7 |
| Tetrachloroethene (PCE) | | 3,000 | 0.88 | 2,700 | 1.1 | 220.0 | 2.5 | 1,200 | 1.5 J | 2,800 J | 2,100 J | 4.4 |
| 1,1-Dichloroethane (1,1-DCA) | | 310 | 0.16 U | 310 | 0.16 U | 13 | 0.18 | 190 | 0.16 U | 340 | 260 | 0.81 U |
| 1,1-Dichloroethene (1,1-DCE) | | 790 | 0.16 U | 380 | 0.22 | 26 | 0.9 | 300 | 0.33 | 860 J | 650 J | 0.79 U |
| cis-1,2-Dichloroethene (cis-1,2-DCE) | | 230 U | 0.16 U | 79 U | 0.16 U | 7.9 U | 0.16 U | 80 U | 0.16 U | 85 U | 81 U | 0.79 U |
| Trichloroethene (TCE) | | 320 U | 0.21 U | 120 | 8.1 | 11 U | 0.21 U | 110 U | 0.21 U | 160 | 120 | 0.21 U |

Notes:

Results in table are reported in units of micrograms per cubic meter (ug/m$^3$). Results from samples collected in 2004 and 2005 were reported by laboratory in units of parts per billion volume and were converted to units of ug/m3.

## U - Compound not detected above the reporting limit (##).

##J - Compound detected but the reported value may not be accurate or precise. Qualified as approximate based on excursions from QA/QC criteria.

[1] Sample location AMSF-23 is located approximately 10 feet from AMSF-05 (AMSF-05 inaccessible during the December 2011 sampling due to location of storage units).

[2] Sample location AMSF-22 is located approximately 2 feet from AMSF-08. (AMSF-08 was inaccessible during the March 2011 sampling. During the December 2011 sampling, both locations were sampled.)

[3] Sample location AMSF-24 (sub-slab) is located approximately 10 feet from AMSF-04 outside of office wall. AMSF-24 (indoor air) is located within the office area. AMSF-04 is no longer accessible due to renovations in the office area. Based on new configuration, no other suitable sub-slab sample locations are present in the office area.

**Table 2**

**Summary of Vapor Intrusion Sampling Results**

**2004-2014 at Former E-Z Movers and Bright Raven**
**Former AMSF Building**

| | | Bright Raven | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Western Portion of Slab | | | | | | | | | |
| | Sample Location | AMSF-06 | AMSF-06 | AMSF-06 | AMSF-06 | AMSF-06 | AMSF-06 | AMSF-06 | AMSF-06 | AMSF-06 | AMSF-06 |
| | Sample ID | AMSF-06-SS-032808 | AMSF-06-IA-032808 | AMSF-06-SS-040111 | AMSF-06-IA-040111 | AMSF-06-SS-120611 | AMSF-06-IA-120611 | AMSF-06-SS-021913 | AMSF-06-IA-021913 | AMSF-06-SS-120613 | AMSF-06-IA-120613 |
| | IRM ISMP Monitoring Season | NA | NA | 2010-2011 | 2010-2011 | 2011-2012 | 2011-2012 | 2012-2013 | 2012-2013 | 2013-2014 | 2013-2014 |
| | Sample Date | 03/28/2008 | 03/28/2008 | 04/01/2011 | 04/01/2011 | 12/06/2011 | 12/06/2011 | 02/19/2013 | 02/19/2013 | 12/06/2013 | 12/06/2013 |
| Target Compounds | Sample Type | Sub-Slab | Indoor Air | Sub-Slab | Indoor Air | Sub-Slab | Indoor Air | Sub-Slab | Indoor Air | Sub-Slab | Indoor Air |
| 1,1,1-Trichloroethane (TCA) | | 3,900 | 2.0 | 6,500 | 3.3 | 370 | 17 | 4,900 | 7.9 | 3,800 | 9.1 |
| Tetrachloroethene (PCE) | | 620 | 1.3 | 670 | 0.93 | 94 | 4.5 | 590 | 3.0 J | 790 | 9.8 |
| 1,1-Dichloroethane (1,1-DCA) | | 21 U | 0.16 U | 28 U | 0.40 U | 1.6 U | 0.37 | 32 U | 0.19 | 17 U | 0.81 U |
| 1,1-Dichloroethene (1,1-DCE) | | 21 U | 0.31 | 28 U | 0.40 U | 2.6 | 1.7 | 31 U | 0.49 | 16 U | 0.85 |
| cis-1,2-Dichloroethene (cis-1,2-DCE) | | 21 U | 0.16 U | 28 U | 0.40 U | 1.6 U | 0.16 U | 31 U | 0.16 U | 16 U | 0.79 U |
| Trichloroethene (TCE) | | 28 U | 0.21 U | 37 U | 38 | 2.2 | 0.34 | 42 U | 0.26 | 22 U | 0.39 |

| | | Bright Raven | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Waiting Room | | | | | | | | | |
| | Sample Location | AMSF-07 | AMSF-07 | AMSF-07 | AMSF-07 | AMSF-07 | AMSF-07 | AMSF-07 | AMSF-07 | AMSF-07 | AMSF-07 |
| | Sample ID | AMSF-07-SS-032808 | AMSF-07-IA-032808 | AMSF-07-SS-040111 | AMSF-07-IA-040111 | AMSF-07-SS-120611 | AMSF-07-IA-120611 | AMSF-07-SS-021913 | AMSF-07-IA-021913 | AMSF-07-SS-120613 | AMSF-07-IA-120613 |
| | IRM ISMP Monitoring Season | NA | NA | 2010-2011 | 2010-2011 | 2011-2012 | 2011-2012 | 2012-2013 | 2012-2013 | 2013-2014 | 2013-2014 |
| | Sample Date | 03/28/2008 | 03/28/2008 | 04/01/2011 | 04/01/2011 | 12/06/2011 | 12/06/2011 | 02/19/2013 | 02/19/2013 | 12/06/2013 | 12/06/2013 |
| Target Compounds | Sample Type | Sub-Slab | Indoor Air | Sub-Slab | Indoor Air | Sub-Slab | Indoor Air | Sub-Slab | Indoor Air | Sub-Slab | Indoor Air |
| 1,1,1-Trichloroethane (TCA) | | 1,300 | 1.5 | 1,200 | 2.4 | 1,000 | 10 | 1,000 | 3.9 | 190 | 5.4 |
| Tetrachloroethene (PCE) | | 620 | 0.95 | 610 | 0.89 | 600 | 6.2 | 550 | 1.4 J | 160 | 5.9 |
| 1,1-Dichloroethane (1,1-DCA) | | 370 | 0.16 U | 730 | 0.40 U | 440 | 0.27 | 350 | 0.23 | 56 | 0.81 U |
| 1,1-Dichloroethene (1,1-DCE) | | 670 | 0.37 | 790 | 0.52 | 460 | 1.3 | 380 | 0.74 | 59 | 0.79 U |
| cis-1,2-Dichloroethene (cis-1,2-DCE) | | 4.8 U | 0.16 U | 5.1 U | 0.40 U | 6.3 U | 0.16 U | 6.3 U | 0.16 U | 0.79 U | 0.79 U |
| Trichloroethene (TCE) | | 7.5 | 0.21 U | 10 | 31 | 8.6 U | 0.34 | 8.6 U | 0.21 U | 1.1 U | 0.27 |

| | | Bright Raven | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Eastern Portion of Slab | | | | | | | | | | | |
| | Sample Location | AMSF-08 | AMSF-08 | AMSF-22 (08)[2] | AMSF-22 (08)[2] | AMSF-08 | AMSF-22 (08)[2] | AMSF-08 | AMSF-22 (08)[2] | AMSF-22 (08)[2] | AMSF-22 (08)[2] | AMSF-22 (08)[2] |
| | Sample ID | AMSF-08-SS-032808 | AMSF-08-IA-032808 | AMSF-22-SS-040111 | AMSF-22-IA-040111 | AMSF-08-SS-120611 | AMSF-22-SS-120611 | AMSF-08-IA-120611 | AMSF-22-SS-021913 | AMSF-22-IA-021913 | AMSF-22-SS-120613 | AMSF-22-IA-120613 |
| | IRM ISMP Monitoring Season | NA | NA | 2010-2011 | 2010-2011 | 2011-2012 | 2011-2012 | 2011-2012 | 2012-2013 | 2012-2013 | 2013-2014 | 2013-2014 |
| | Sample Date | 03/28/2008 | 03/28/2008 | 04/01/2011 | 04/01/2011 | 12/06/2011 | 12/06/2011 | 12/06/2011 | 02/19/2013 | 02/19/2013 | 12/06/2013 | 12/06/2013 |
| Target Compounds | Sample Type | Sub-Slab | Indoor Air | Sub-Slab | Indoor Air | Sub-Slab | Sub-Slab | Indoor Air | Sub-Slab | Indoor Air | Sub-Slab | Indoor Air |
| 1,1,1-Trichloroethane (TCA) | | 1,100 | 2.1 | 6,200 | 4.2 | 530 | 2,900 | 19 | 1,300 | 3.6 | 910 | 10 |
| Tetrachloroethene (PCE) | | 7,500 | 1.4 | 26,000 | 0.87 | 5,300 | 18,000 | 5.7 | 11,000 | 2.2 J | 8,100 | 11 |
| 1,1-Dichloroethane (1,1-DCA) | | 1,100 | 0.16 U | 6,100 | 0.40 U | 590 | 2,300 | 0.47 | 1,400 | 0.16 U | 840 | 0.81 U |
| 1,1-Dichloroethene (1,1-DCE) | | 13,000 | 0.19 | 35,000 | 0.42 | 4,900 | 13,000 | 1.8 | 10,000 | 0.50 | 5,100 | 0.85 |
| cis-1,2-Dichloroethene (cis-1,2-DCE) | | 190 | 0.16 U | 460 | 0.40 U | 90 | 420 | 0.16 U | 230 | 0.16 U | 190 | 0.79 U |
| Trichloroethene (TCE) | | 590 | 0.21 U | 2,100 | 45 | 340 | 1,400 | 0.40 | 800 | 0.21 U | 640 | 0.40 |

Notes:

Results in table are reported in units of micrograms per cubic meter (ug/m$^3$). Results from samples collected in 2004 and 2005 were reported by laboratory in units of parts per billion volume and were converted to units of ug/m3.

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[3] Sample location AMSF-24 (sub-slab) is located approximately 10 feet from AMSF-04 outside of office wall. AMSF-24 (indoor air) is located within the office area. AMSF-04 is no longer accessible due to renovations in the office area. Based on new configuration, no other suitable sub-slab sample locations are present in the office area.

# *Laboratory Report*

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

# ANALYTICAL REPORT

Job Number: 200-20018-1

SDG Number: 200-20018

Job Description: Former AMSF

For:
O'Brien & Gere Inc of North America
333 West Washington St.
PO BOX 4873
East Syracuse, NY 13221

Attention: Ms. Christy Rosenbarker

Approved for release.
Don C Dawicki
Manager of Project Management
2/10/2014 5:10 PM

Don C Dawicki, Manager of Project Management
30 Community Drive, South Burlington, VT, 05403
(802)660-1990
don.dawicki@testamericainc.com
02/10/2014
Revision: 2

cc: Ms. Karen Storne

# CASE NARRATIVE

## Client: O'Brien & Gere Inc of North America

## Project: Former AMSF

## Report Number: 200-20018-1 Revised

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

**RECEIPT**
The samples were received on 12/11/2013; the samples arrived in good condition.

**VOLATILE ORGANIC COMPOUNDS**
Samples AMSF-07-IA-120613, AMSF-07-SS-120613, AMSF-22-IA-120613, AMSF-22-SS-120613, AMSF-05-IA-120613, AMSF-05-SS-120613, AMSF-05-SSD-120613, AMSF-06-IA-120613, AMSF-06-SS-120613, AMSF-24-IA-120613, AMSF-24-SS-120613 and AMSF-AA-120613 were analyzed for Volatile Organic Compounds in accordance with EPA Method TO-15. The samples were analyzed on 12/27/2013 and 12/28/2013.

The indoor air samples referenced above were originally designated for analysis using the low level TO-15 method, as well as the routine level method; however, due to high concentrations of Acetone observed, the low level analysis could not be performed. Results from the routine level TO-15 analysis only have been presented.

In order to provide for the lowest possible reporting limits for the client specified chlorinated VOCs, the samples were analyzed with a little dilution as possible to maintain instrument integrity. Certain VOCs are reported with the"E" qualifier to indicate concentrations over the calibrated range of the instrumentation.

No difficulties were encountered during the VOC analysis.

All quality control parameters were within the acceptance limits.

**LOW LEVEL VOLATILE ORGANIC COMPOUNDS**
Sample AMSF-AA-120613 was analyzed for Low Level Volatile Organic Compounds in accordance with EPA Method TO-15. The samples were analyzed on 12/29/2013.

The laboratory control sample (LCS) for batch 66614 recovered outside control limits for the following analyte: Methylene Chloride. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.. Refer to the QC report for details.

No other difficulties were encountered during the Low Level VOC analysis.

All other quality control parameters were within the acceptance limits.

**Revision Summary**
The enclosed submittal has been revised to provide for the reporting of results in units of ug/m3 as well as ppbv.

The second revision associated with this submittal has been provided to provide for the removal of the detected concentrations for Cyclohexane, which upon review were found to be falsely identified. This affects samples
AMSF-05-SS-120613, AMSF-05-SSD-120613, and AMSF-06-SS-120613.

# SAMPLE SUMMARY

Client: O'Brien & Gere Inc of North America

Job Number: 200-20018-1
Sdg Number: 200-20018

| Lab Sample ID | Client Sample ID | Client Matrix | Date/Time Sampled | Date/Time Received |
|---|---|---|---|---|
| 200-20018-1 | AMSF-07-IA-120613 | Air | 12/06/2013 0935 | 12/11/2013 1130 |
| 200-20018-2 | AMSF-07-SS-120613 | Air | 12/06/2013 0957 | 12/11/2013 1130 |
| 200-20018-3 | AMSF-22-IA-120613 | Air | 12/06/2013 1402 | 12/11/2013 1130 |
| 200-20018-4 | AMSF-22-SS-120613 | Air | 12/06/2013 1410 | 12/11/2013 1130 |
| 200-20018-5 | AMSF-05-IA-120613 | Air | 12/06/2013 1327 | 12/11/2013 1130 |
| 200-20018-6 | AMSF-05-SS-120613 | Air | 12/06/2013 1441 | 12/11/2013 1130 |
| 200-20018-7 | AMSF-05-SSD-120613 | Air | 12/06/2013 1441 | 12/11/2013 1130 |
| 200-20018-8 | AMSF-06-IA-120613 | Air | 12/06/2013 1414 | 12/11/2013 1130 |
| 200-20018-9 | AMSF-06-SS-120613 | Air | 12/06/2013 1414 | 12/11/2013 1130 |
| 200-20018-10 | AMSF-24-IA-120613 | Air | 12/06/2013 1436 | 12/11/2013 1130 |
| 200-20018-11 | AMSF-24-SS-120613 | Air | 12/06/2013 1433 | 12/11/2013 1130 |
| 200-20018-12 | AMSF-AA-120613 | Air | 12/06/2013 1450 | 12/11/2013 1130 |

## EXECUTIVE SUMMARY - Detections

Client: O'Brien & Gere Inc of North America

Job Number: 200-20018-1
Sdg Number: 200-20018

| Lab Sample ID / Analyte | Client Sample ID | Result | Qualifier | Reporting Limit | Units | Method |
|---|---|---|---|---|---|---|
| **200-20018-1** | **AMSF-07-IA-120613** | | | | | |
| Chloromethane | | 0.60 | | 0.50 | ppb v/v | TO-15 |
| Chloromethane | | 1.2 | | 1.0 | ug/m3 | TO-15 |
| Trichlorofluoromethane | | 1.8 | | 0.20 | ppb v/v | TO-15 |
| Trichlorofluoromethane | | 9.9 | | 1.1 | ug/m3 | TO-15 |
| Acetone | | 300 | E | 5.0 | ppb v/v | TO-15 |
| Acetone | | 720 | E | 12 | ug/m3 | TO-15 |
| n-Hexane | | 1.2 | | 0.20 | ppb v/v | TO-15 |
| n-Hexane | | 4.3 | | 0.70 | ug/m3 | TO-15 |
| 1,1,1-Trichloroethane | | 0.98 | | 0.20 | ppb v/v | TO-15 |
| 1,1,1-Trichloroethane | | 5.4 | | 1.1 | ug/m3 | TO-15 |
| Cyclohexane | | 0.75 | | 0.20 | ppb v/v | TO-15 |
| Cyclohexane | | 2.6 | | 0.69 | ug/m3 | TO-15 |
| Carbon tetrachloride | | 0.067 | | 0.040 | ppb v/v | TO-15 |
| Carbon tetrachloride | | 0.42 | | 0.25 | ug/m3 | TO-15 |
| Methyl Ethyl Ketone | | 14 | | 0.50 | ppb v/v | TO-15 |
| Methyl Ethyl Ketone | | 43 | | 1.5 | ug/m3 | TO-15 |
| Benzene | | 0.80 | | 0.20 | ppb v/v | TO-15 |
| Benzene | | 2.6 | | 0.64 | ug/m3 | TO-15 |
| n-Heptane | | 2.7 | | 0.20 | ppb v/v | TO-15 |
| n-Heptane | | 11 | | 0.82 | ug/m3 | TO-15 |
| Trichloroethene | | 0.050 | | 0.040 | ppb v/v | TO-15 |
| Trichloroethene | | 0.27 | | 0.21 | ug/m3 | TO-15 |
| Toluene | | 5.5 | | 0.20 | ppb v/v | TO-15 |
| Toluene | | 21 | | 0.75 | ug/m3 | TO-15 |
| Tetrachloroethene | | 0.88 | | 0.040 | ppb v/v | TO-15 |
| Tetrachloroethene | | 5.9 | | 0.27 | ug/m3 | TO-15 |
| Ethylbenzene | | 0.40 | | 0.20 | ppb v/v | TO-15 |
| Ethylbenzene | | 1.7 | | 0.87 | ug/m3 | TO-15 |
| m-Xylene & p-Xylene | | 1.6 | | 0.50 | ppb v/v | TO-15 |
| m-Xylene & p-Xylene | | 7.0 | | 2.2 | ug/m3 | TO-15 |
| o-Xylene | | 0.59 | | 0.20 | ppb v/v | TO-15 |
| o-Xylene | | 2.5 | | 0.87 | ug/m3 | TO-15 |

## EXECUTIVE SUMMARY - Detections

Client: O'Brien & Gere Inc of North America

Job Number: 200-20018-1
Sdg Number: 200-20018

| Lab Sample ID / Analyte | Client Sample ID | Result | Qualifier | Reporting Limit | Units | Method |
|---|---|---|---|---|---|---|
| **200-20018-2** | **AMSF-07-SS-120613** | | | | | |
| Dichlorodifluoromethane | | 0.55 | | 0.50 | ppb v/v | TO-15 |
| Dichlorodifluoromethane | | 2.7 | | 2.5 | ug/m3 | TO-15 |
| Chloromethane | | 0.50 | | 0.50 | ppb v/v | TO-15 |
| Chloromethane | | 1.0 | | 1.0 | ug/m3 | TO-15 |
| Trichlorofluoromethane | | 1.8 | | 0.20 | ppb v/v | TO-15 |
| Trichlorofluoromethane | | 10 | | 1.1 | ug/m3 | TO-15 |
| 1,1-Dichloroethene | | 15 | | 0.20 | ppb v/v | TO-15 |
| 1,1-Dichloroethene | | 59 | | 0.79 | ug/m3 | TO-15 |
| Acetone | | 250 | E | 5.0 | ppb v/v | TO-15 |
| Acetone | | 600 | E | 12 | ug/m3 | TO-15 |
| n-Hexane | | 1.1 | | 0.20 | ppb v/v | TO-15 |
| n-Hexane | | 3.7 | | 0.70 | ug/m3 | TO-15 |
| 1,1-Dichloroethane | | 14 | | 0.20 | ppb v/v | TO-15 |
| 1,1-Dichloroethane | | 56 | | 0.81 | ug/m3 | TO-15 |
| Carbon disulfide | | 0.81 | | 0.50 | ppb v/v | TO-15 |
| Carbon disulfide | | 2.5 | | 1.6 | ug/m3 | TO-15 |
| Chloroform | | 0.30 | | 0.20 | ppb v/v | TO-15 |
| Chloroform | | 1.5 | | 0.98 | ug/m3 | TO-15 |
| 1,1,1-Trichloroethane | | 35 | | 0.20 | ppb v/v | TO-15 |
| 1,1,1-Trichloroethane | | 190 | | 1.1 | ug/m3 | TO-15 |
| Methyl Ethyl Ketone | | 11 | | 0.50 | ppb v/v | TO-15 |
| Methyl Ethyl Ketone | | 33 | | 1.5 | ug/m3 | TO-15 |
| Benzene | | 0.76 | | 0.20 | ppb v/v | TO-15 |
| Benzene | | 2.4 | | 0.64 | ug/m3 | TO-15 |
| n-Heptane | | 2.2 | | 0.20 | ppb v/v | TO-15 |
| n-Heptane | | 9.2 | | 0.82 | ug/m3 | TO-15 |
| Toluene | | 5.1 | | 0.20 | ppb v/v | TO-15 |
| Toluene | | 19 | | 0.75 | ug/m3 | TO-15 |
| Tetrachloroethene | | 24 | | 0.20 | ppb v/v | TO-15 |
| Tetrachloroethene | | 160 | | 1.4 | ug/m3 | TO-15 |
| Ethylbenzene | | 100 | E | 0.20 | ppb v/v | TO-15 |
| Ethylbenzene | | 430 | E | 0.87 | ug/m3 | TO-15 |
| m-Xylene & p-Xylene | | 250 | E | 0.50 | ppb v/v | TO-15 |
| m-Xylene & p-Xylene | | 1100 | E | 2.2 | ug/m3 | TO-15 |
| o-Xylene | | 160 | E | 0.20 | ppb v/v | TO-15 |
| o-Xylene | | 710 | E | 0.87 | ug/m3 | TO-15 |
| 4-Ethyltoluene | | 0.22 | | 0.20 | ppb v/v | TO-15 |
| 4-Ethyltoluene | | 1.1 | | 0.98 | ug/m3 | TO-15 |

## EXECUTIVE SUMMARY - Detections

Client: O'Brien & Gere Inc of North America

Job Number: 200-20018-1
Sdg Number: 200-20018

| Lab Sample ID / Analyte | Client Sample ID | Result | Qualifier | Reporting Limit | Units | Method |
|---|---|---|---|---|---|---|
| **200-20018-3** | **AMSF-22-IA-120613** | | | | | |
| Dichlorodifluoromethane | | 0.71 | | 0.50 | ppb v/v | TO-15 |
| Dichlorodifluoromethane | | 3.5 | | 2.5 | ug/m3 | TO-15 |
| Chloromethane | | 0.65 | | 0.50 | ppb v/v | TO-15 |
| Chloromethane | | 1.3 | | 1.0 | ug/m3 | TO-15 |
| Trichlorofluoromethane | | 3.6 | | 0.20 | ppb v/v | TO-15 |
| Trichlorofluoromethane | | 20 | | 1.1 | ug/m3 | TO-15 |
| 1,1-Dichloroethene | | 0.21 | | 0.20 | ppb v/v | TO-15 |
| 1,1-Dichloroethene | | 0.85 | | 0.79 | ug/m3 | TO-15 |
| Methylene Chloride | | 0.67 | | 0.50 | ppb v/v | TO-15 |
| Methylene Chloride | | 2.3 | | 1.7 | ug/m3 | TO-15 |
| Acetone | | 570 | E | 5.0 | ppb v/v | TO-15 |
| Acetone | | 1400 | E | 12 | ug/m3 | TO-15 |
| n-Hexane | | 4.9 | | 0.20 | ppb v/v | TO-15 |
| n-Hexane | | 17 | | 0.70 | ug/m3 | TO-15 |
| 1,1,1-Trichloroethane | | 1.9 | | 0.20 | ppb v/v | TO-15 |
| 1,1,1-Trichloroethane | | 10 | | 1.1 | ug/m3 | TO-15 |
| Cyclohexane | | 2.9 | | 0.20 | ppb v/v | TO-15 |
| Cyclohexane | | 10 | | 0.69 | ug/m3 | TO-15 |
| Carbon tetrachloride | | 0.065 | | 0.040 | ppb v/v | TO-15 |
| Carbon tetrachloride | | 0.41 | | 0.25 | ug/m3 | TO-15 |
| Methyl Ethyl Ketone | | 31 | | 0.50 | ppb v/v | TO-15 |
| Methyl Ethyl Ketone | | 91 | | 1.5 | ug/m3 | TO-15 |
| Benzene | | 1.7 | | 0.20 | ppb v/v | TO-15 |
| Benzene | | 5.6 | | 0.64 | ug/m3 | TO-15 |
| n-Heptane | | 4.2 | | 0.20 | ppb v/v | TO-15 |
| n-Heptane | | 17 | | 0.82 | ug/m3 | TO-15 |
| Trichloroethene | | 0.075 | | 0.040 | ppb v/v | TO-15 |
| Trichloroethene | | 0.40 | | 0.21 | ug/m3 | TO-15 |
| Toluene | | 13 | | 0.20 | ppb v/v | TO-15 |
| Toluene | | 48 | | 0.75 | ug/m3 | TO-15 |
| Tetrachloroethene | | 1.6 | | 0.040 | ppb v/v | TO-15 |
| Tetrachloroethene | | 11 | | 0.27 | ug/m3 | TO-15 |
| Ethylbenzene | | 0.68 | | 0.20 | ppb v/v | TO-15 |
| Ethylbenzene | | 2.9 | | 0.87 | ug/m3 | TO-15 |
| m-Xylene & p-Xylene | | 2.8 | | 0.50 | ppb v/v | TO-15 |
| m-Xylene & p-Xylene | | 12 | | 2.2 | ug/m3 | TO-15 |
| o-Xylene | | 0.93 | | 0.20 | ppb v/v | TO-15 |
| o-Xylene | | 4.0 | | 0.87 | ug/m3 | TO-15 |
| methyl isobutyl ketone | | 0.85 | | 0.50 | ppb v/v | TO-15 |
| methyl isobutyl ketone | | 3.5 | | 2.0 | ug/m3 | TO-15 |
| 4-Ethyltoluene | | 0.22 | | 0.20 | ppb v/v | TO-15 |
| 4-Ethyltoluene | | 1.1 | | 0.98 | ug/m3 | TO-15 |
| 1,3,5-Trimethylbenzene | | 0.26 | | 0.20 | ppb v/v | TO-15 |
| 1,3,5-Trimethylbenzene | | 1.3 | | 0.98 | ug/m3 | TO-15 |
| Styrene | | 0.22 | | 0.20 | ppb v/v | TO-15 |
| Styrene | | 0.92 | | 0.85 | ug/m3 | TO-15 |

## EXECUTIVE SUMMARY - Detections

Client: O'Brien & Gere Inc of North America

Job Number: 200-20018-1
Sdg Number: 200-20018

| Lab Sample ID / Analyte | Client Sample ID | Result | Qualifier | Reporting Limit | Units | Method |
|---|---|---|---|---|---|---|
| **200-20018-4** | **AMSF-22-SS-120613** | | | | | |
| 1,1-Dichloroethene | | 1300 | | 9.0 | ppb v/v | TO-15 |
| 1,1-Dichloroethene | | 5100 | | 36 | ug/m3 | TO-15 |
| 1,1-Dichloroethane | | 210 | | 9.0 | ppb v/v | TO-15 |
| 1,1-Dichloroethane | | 840 | | 37 | ug/m3 | TO-15 |
| cis-1,2-Dichloroethene | | 47 | | 9.0 | ppb v/v | TO-15 |
| cis-1,2-Dichloroethene | | 190 | | 36 | ug/m3 | TO-15 |
| 1,1,1-Trichloroethane | | 170 | | 9.0 | ppb v/v | TO-15 |
| 1,1,1-Trichloroethane | | 910 | | 49 | ug/m3 | TO-15 |
| Trichloroethene | | 120 | | 9.0 | ppb v/v | TO-15 |
| Trichloroethene | | 640 | | 49 | ug/m3 | TO-15 |
| 1,1,2-Trichloroethane | | 100 | | 9.0 | ppb v/v | TO-15 |
| 1,1,2-Trichloroethane | | 550 | | 49 | ug/m3 | TO-15 |
| Tetrachloroethene | | 1200 | | 9.0 | ppb v/v | TO-15 |
| Tetrachloroethene | | 8100 | | 61 | ug/m3 | TO-15 |
| Ethylbenzene | | 13 | | 9.0 | ppb v/v | TO-15 |
| Ethylbenzene | | 54 | | 39 | ug/m3 | TO-15 |
| m-Xylene & p-Xylene | | 40 | | 23 | ppb v/v | TO-15 |
| m-Xylene & p-Xylene | | 170 | | 98 | ug/m3 | TO-15 |
| o-Xylene | | 29 | | 9.0 | ppb v/v | TO-15 |
| o-Xylene | | 130 | | 39 | ug/m3 | TO-15 |

## EXECUTIVE SUMMARY - Detections

Client: O'Brien & Gere Inc of North America

Job Number: 200-20018-1
Sdg Number: 200-20018

| Lab Sample ID / Analyte | Client Sample ID | Result | Qualifier | Reporting Limit | Units | Method |
|---|---|---|---|---|---|---|
| **200-20018-5** | **AMSF-05-IA-120613** | | | | | |
| Dichlorodifluoromethane | | 0.55 | | 0.50 | ppb v/v | TO-15 |
| Dichlorodifluoromethane | | 2.7 | | 2.5 | ug/m3 | TO-15 |
| Chloromethane | | 4.1 | | 0.50 | ppb v/v | TO-15 |
| Chloromethane | | 8.4 | | 1.0 | ug/m3 | TO-15 |
| Trichlorofluoromethane | | 3.1 | | 0.20 | ppb v/v | TO-15 |
| Trichlorofluoromethane | | 17 | | 1.1 | ug/m3 | TO-15 |
| Acetone | | 310 | E | 5.0 | ppb v/v | TO-15 |
| Acetone | | 740 | E | 12 | ug/m3 | TO-15 |
| n-Hexane | | 1.6 | | 0.20 | ppb v/v | TO-15 |
| n-Hexane | | 5.6 | | 0.70 | ug/m3 | TO-15 |
| 1,1,1-Trichloroethane | | 0.86 | | 0.20 | ppb v/v | TO-15 |
| 1,1,1-Trichloroethane | | 4.7 | | 1.1 | ug/m3 | TO-15 |
| Cyclohexane | | 1.0 | | 0.20 | ppb v/v | TO-15 |
| Cyclohexane | | 3.4 | | 0.69 | ug/m3 | TO-15 |
| Carbon tetrachloride | | 0.081 | | 0.040 | ppb v/v | TO-15 |
| Carbon tetrachloride | | 0.51 | | 0.25 | ug/m3 | TO-15 |
| Methyl Ethyl Ketone | | 15 | | 0.50 | ppb v/v | TO-15 |
| Methyl Ethyl Ketone | | 45 | | 1.5 | ug/m3 | TO-15 |
| Benzene | | 0.79 | | 0.20 | ppb v/v | TO-15 |
| Benzene | | 2.5 | | 0.64 | ug/m3 | TO-15 |
| n-Heptane | | 2.7 | | 0.20 | ppb v/v | TO-15 |
| n-Heptane | | 11 | | 0.82 | ug/m3 | TO-15 |
| Toluene | | 8.9 | | 0.20 | ppb v/v | TO-15 |
| Toluene | | 34 | | 0.75 | ug/m3 | TO-15 |
| Tetrachloroethene | | 0.65 | | 0.040 | ppb v/v | TO-15 |
| Tetrachloroethene | | 4.4 | | 0.27 | ug/m3 | TO-15 |
| Ethylbenzene | | 0.39 | | 0.20 | ppb v/v | TO-15 |
| Ethylbenzene | | 1.7 | | 0.87 | ug/m3 | TO-15 |
| m-Xylene & p-Xylene | | 1.4 | | 0.50 | ppb v/v | TO-15 |
| m-Xylene & p-Xylene | | 6.3 | | 2.2 | ug/m3 | TO-15 |
| o-Xylene | | 0.47 | | 0.20 | ppb v/v | TO-15 |
| o-Xylene | | 2.1 | | 0.87 | ug/m3 | TO-15 |
| methyl isobutyl ketone | | 0.70 | | 0.50 | ppb v/v | TO-15 |
| methyl isobutyl ketone | | 2.9 | | 2.0 | ug/m3 | TO-15 |
| Styrene | | 0.27 | | 0.20 | ppb v/v | TO-15 |
| Styrene | | 1.1 | | 0.85 | ug/m3 | TO-15 |

## EXECUTIVE SUMMARY - Detections

Client: O'Brien & Gere Inc of North America

Job Number: 200-20018-1
Sdg Number: 200-20018

| Lab Sample ID / Analyte | Client Sample ID | Result | Qualifier | Reporting Limit | Units | Method |
|---|---|---|---|---|---|---|
| **200-20018-6** | **AMSF-05-SS-120613** | | | | | |
| 1,1-Dichloroethene | | 220 | | 21 | ppb v/v | TO-15 |
| 1,1-Dichloroethene | | 860 | | 85 | ug/m3 | TO-15 |
| 1,1-Dichloroethane | | 84 | | 21 | ppb v/v | TO-15 |
| 1,1-Dichloroethane | | 340 | | 87 | ug/m3 | TO-15 |
| 1,1,1-Trichloroethane | | 4100 | | 21 | ppb v/v | TO-15 |
| 1,1,1-Trichloroethane | | 22000 | | 120 | ug/m3 | TO-15 |
| Trichloroethene | | 30 | | 21 | ppb v/v | TO-15 |
| Trichloroethene | | 160 | | 110 | ug/m3 | TO-15 |
| Tetrachloroethene | | 410 | | 21 | ppb v/v | TO-15 |
| Tetrachloroethene | | 2800 | | 150 | ug/m3 | TO-15 |
| Ethylbenzene | | 3400 | | 21 | ppb v/v | TO-15 |
| Ethylbenzene | | 15000 | | 93 | ug/m3 | TO-15 |
| m-Xylene & p-Xylene | | 13000 | E | 54 | ppb v/v | TO-15 |
| m-Xylene & p-Xylene | | 55000 | E | 230 | ug/m3 | TO-15 |
| o-Xylene | | 5500 | E | 21 | ppb v/v | TO-15 |
| o-Xylene | | 24000 | E | 93 | ug/m3 | TO-15 |
| **200-20018-7** | **AMSF-05-SSD-120613** | | | | | |
| 1,1-Dichloroethene | | 160 | | 20 | ppb v/v | TO-15 |
| 1,1-Dichloroethene | | 650 | | 81 | ug/m3 | TO-15 |
| 1,1-Dichloroethane | | 63 | | 20 | ppb v/v | TO-15 |
| 1,1-Dichloroethane | | 260 | | 83 | ug/m3 | TO-15 |
| 1,1,1-Trichloroethane | | 3100 | | 20 | ppb v/v | TO-15 |
| 1,1,1-Trichloroethane | | 17000 | | 110 | ug/m3 | TO-15 |
| Trichloroethene | | 22 | | 20 | ppb v/v | TO-15 |
| Trichloroethene | | 120 | | 110 | ug/m3 | TO-15 |
| Tetrachloroethene | | 310 | | 20 | ppb v/v | TO-15 |
| Tetrachloroethene | | 2100 | | 140 | ug/m3 | TO-15 |
| Ethylbenzene | | 2100 | | 20 | ppb v/v | TO-15 |
| Ethylbenzene | | 9200 | | 89 | ug/m3 | TO-15 |
| m-Xylene & p-Xylene | | 8500 | E | 51 | ppb v/v | TO-15 |
| m-Xylene & p-Xylene | | 37000 | E | 220 | ug/m3 | TO-15 |
| o-Xylene | | 3700 | | 20 | ppb v/v | TO-15 |
| o-Xylene | | 16000 | | 89 | ug/m3 | TO-15 |
| Styrene | | 150 | | 20 | ppb v/v | TO-15 |
| Styrene | | 630 | | 87 | ug/m3 | TO-15 |

## EXECUTIVE SUMMARY - Detections

Client: O'Brien & Gere Inc of North America

Job Number: 200-20018-1
Sdg Number: 200-20018

| Lab Sample ID / Analyte | Client Sample ID | Result | Qualifier | Reporting Limit | Units | Method |
|---|---|---|---|---|---|---|
| **200-20018-8** | **AMSF-06-IA-120613** | | | | | |
| Dichlorodifluoromethane | | 0.69 | | 0.50 | ppb v/v | TO-15 |
| Dichlorodifluoromethane | | 3.4 | | 2.5 | ug/m3 | TO-15 |
| Chloromethane | | 0.68 | | 0.50 | ppb v/v | TO-15 |
| Chloromethane | | 1.4 | | 1.0 | ug/m3 | TO-15 |
| Trichlorofluoromethane | | 3.5 | | 0.20 | ppb v/v | TO-15 |
| Trichlorofluoromethane | | 20 | | 1.1 | ug/m3 | TO-15 |
| 1,1-Dichloroethene | | 0.21 | | 0.20 | ppb v/v | TO-15 |
| 1,1-Dichloroethene | | 0.85 | | 0.79 | ug/m3 | TO-15 |
| Methylene Chloride | | 0.66 | | 0.50 | ppb v/v | TO-15 |
| Methylene Chloride | | 2.3 | | 1.7 | ug/m3 | TO-15 |
| Acetone | | 560 | E | 5.0 | ppb v/v | TO-15 |
| Acetone | | 1300 | E | 12 | ug/m3 | TO-15 |
| n-Hexane | | 4.6 | | 0.20 | ppb v/v | TO-15 |
| n-Hexane | | 16 | | 0.70 | ug/m3 | TO-15 |
| 1,1,1-Trichloroethane | | 1.7 | | 0.20 | ppb v/v | TO-15 |
| 1,1,1-Trichloroethane | | 9.1 | | 1.1 | ug/m3 | TO-15 |
| Cyclohexane | | 2.4 | | 0.20 | ppb v/v | TO-15 |
| Cyclohexane | | 8.4 | | 0.69 | ug/m3 | TO-15 |
| Carbon tetrachloride | | 0.081 | | 0.040 | ppb v/v | TO-15 |
| Carbon tetrachloride | | 0.51 | | 0.25 | ug/m3 | TO-15 |
| Methyl Ethyl Ketone | | 30 | | 0.50 | ppb v/v | TO-15 |
| Methyl Ethyl Ketone | | 89 | | 1.5 | ug/m3 | TO-15 |
| Benzene | | 1.5 | | 0.20 | ppb v/v | TO-15 |
| Benzene | | 4.8 | | 0.64 | ug/m3 | TO-15 |
| n-Heptane | | 3.8 | | 0.20 | ppb v/v | TO-15 |
| n-Heptane | | 16 | | 0.82 | ug/m3 | TO-15 |
| Trichloroethene | | 0.073 | | 0.040 | ppb v/v | TO-15 |
| Trichloroethene | | 0.39 | | 0.21 | ug/m3 | TO-15 |
| Toluene | | 11 | | 0.20 | ppb v/v | TO-15 |
| Toluene | | 42 | | 0.75 | ug/m3 | TO-15 |
| Tetrachloroethene | | 1.4 | | 0.040 | ppb v/v | TO-15 |
| Tetrachloroethene | | 9.8 | | 0.27 | ug/m3 | TO-15 |
| Ethylbenzene | | 0.62 | | 0.20 | ppb v/v | TO-15 |
| Ethylbenzene | | 2.7 | | 0.87 | ug/m3 | TO-15 |
| m-Xylene & p-Xylene | | 2.5 | | 0.50 | ppb v/v | TO-15 |
| m-Xylene & p-Xylene | | 11 | | 2.2 | ug/m3 | TO-15 |
| o-Xylene | | 0.86 | | 0.20 | ppb v/v | TO-15 |
| o-Xylene | | 3.8 | | 0.87 | ug/m3 | TO-15 |
| methyl isobutyl ketone | | 0.74 | | 0.50 | ppb v/v | TO-15 |
| methyl isobutyl ketone | | 3.0 | | 2.0 | ug/m3 | TO-15 |
| 4-Ethyltoluene | | 0.20 | | 0.20 | ppb v/v | TO-15 |
| 4-Ethyltoluene | | 0.98 | | 0.98 | ug/m3 | TO-15 |
| 1,3,5-Trimethylbenzene | | 0.23 | | 0.20 | ppb v/v | TO-15 |
| 1,3,5-Trimethylbenzene | | 1.1 | | 0.98 | ug/m3 | TO-15 |
| Styrene | | 0.20 | | 0.20 | ppb v/v | TO-15 |
| Styrene | | 0.85 | | 0.85 | ug/m3 | TO-15 |

## EXECUTIVE SUMMARY - Detections

Client: O'Brien & Gere Inc of North America

Job Number: 200-20018-1
Sdg Number: 200-20018

| Lab Sample ID / Analyte | Client Sample ID | Result | Qualifier | Reporting Limit | Units | Method |
|---|---|---|---|---|---|---|
| **200-20018-9** | **AMSF-06-SS-120613** | | | | | |
| Trichlorofluoromethane | | 19 | | 4.1 | ppb v/v | TO-15 |
| Trichlorofluoromethane | | 110 | | 23 | ug/m3 | TO-15 |
| Carbon disulfide | | 24 | | 10 | ppb v/v | TO-15 |
| Carbon disulfide | | 75 | | 32 | ug/m3 | TO-15 |
| 1,1,1-Trichloroethane | | 690 | | 4.1 | ppb v/v | TO-15 |
| 1,1,1-Trichloroethane | | 3800 | | 22 | ug/m3 | TO-15 |
| Toluene | | 6.0 | | 4.1 | ppb v/v | TO-15 |
| Toluene | | 23 | | 15 | ug/m3 | TO-15 |
| Tetrachloroethene | | 120 | | 4.1 | ppb v/v | TO-15 |
| Tetrachloroethene | | 790 | | 28 | ug/m3 | TO-15 |
| Ethylbenzene | | 1500 | E | 4.1 | ppb v/v | TO-15 |
| Ethylbenzene | | 6300 | E | 18 | ug/m3 | TO-15 |
| m-Xylene & p-Xylene | | 4200 | E | 10 | ppb v/v | TO-15 |
| m-Xylene & p-Xylene | | 18000 | E | 44 | ug/m3 | TO-15 |
| o-Xylene | | 1500 | E | 4.1 | ppb v/v | TO-15 |
| o-Xylene | | 6500 | E | 18 | ug/m3 | TO-15 |

## EXECUTIVE SUMMARY - Detections

Client: O'Brien & Gere Inc of North America

Job Number: 200-20018-1
Sdg Number: 200-20018

| Lab Sample ID / Analyte | Client Sample ID | Result | Qualifier | Reporting Limit | Units | Method |
|---|---|---|---|---|---|---|
| **200-20018-10** | **AMSF-24-IA-120613** | | | | | |
| Chloromethane | | 0.54 | | 0.50 | ppb v/v | TO-15 |
| Chloromethane | | 1.1 | | 1.0 | ug/m3 | TO-15 |
| Trichlorofluoromethane | | 2.2 | | 0.20 | ppb v/v | TO-15 |
| Trichlorofluoromethane | | 12 | | 1.1 | ug/m3 | TO-15 |
| Methylene Chloride | | 0.74 | | 0.50 | ppb v/v | TO-15 |
| Methylene Chloride | | 2.6 | | 1.7 | ug/m3 | TO-15 |
| Acetone | | 230 | E | 5.0 | ppb v/v | TO-15 |
| Acetone | | 550 | E | 12 | ug/m3 | TO-15 |
| n-Hexane | | 1.2 | | 0.20 | ppb v/v | TO-15 |
| n-Hexane | | 4.1 | | 0.70 | ug/m3 | TO-15 |
| 1,1,1-Trichloroethane | | 0.59 | | 0.20 | ppb v/v | TO-15 |
| 1,1,1-Trichloroethane | | 3.2 | | 1.1 | ug/m3 | TO-15 |
| Cyclohexane | | 0.68 | | 0.20 | ppb v/v | TO-15 |
| Cyclohexane | | 2.4 | | 0.69 | ug/m3 | TO-15 |
| Carbon tetrachloride | | 0.078 | | 0.040 | ppb v/v | TO-15 |
| Carbon tetrachloride | | 0.49 | | 0.25 | ug/m3 | TO-15 |
| Methyl Ethyl Ketone | | 10 | | 0.50 | ppb v/v | TO-15 |
| Methyl Ethyl Ketone | | 31 | | 1.5 | ug/m3 | TO-15 |
| Benzene | | 0.58 | | 0.20 | ppb v/v | TO-15 |
| Benzene | | 1.8 | | 0.64 | ug/m3 | TO-15 |
| n-Heptane | | 1.9 | | 0.20 | ppb v/v | TO-15 |
| n-Heptane | | 7.7 | | 0.82 | ug/m3 | TO-15 |
| Toluene | | 7.8 | | 0.20 | ppb v/v | TO-15 |
| Toluene | | 29 | | 0.75 | ug/m3 | TO-15 |
| Tetrachloroethene | | 0.54 | | 0.040 | ppb v/v | TO-15 |
| Tetrachloroethene | | 3.7 | | 0.27 | ug/m3 | TO-15 |
| Ethylbenzene | | 0.27 | | 0.20 | ppb v/v | TO-15 |
| Ethylbenzene | | 1.2 | | 0.87 | ug/m3 | TO-15 |
| m-Xylene & p-Xylene | | 1.0 | | 0.50 | ppb v/v | TO-15 |
| m-Xylene & p-Xylene | | 4.6 | | 2.2 | ug/m3 | TO-15 |
| o-Xylene | | 0.34 | | 0.20 | ppb v/v | TO-15 |
| o-Xylene | | 1.5 | | 0.87 | ug/m3 | TO-15 |

## EXECUTIVE SUMMARY - Detections

Client: O'Brien & Gere Inc of North America

Job Number: 200-20018-1
Sdg Number: 200-20018

| Lab Sample ID / Analyte | Client Sample ID | Result | Qualifier | Reporting Limit | Units | Method |
|---|---|---|---|---|---|---|
| **200-20018-11** | **AMSF-24-SS-120613** | | | | | |
| Trichlorofluoromethane | | 8.2 | | 2.0 | ppb v/v | TO-15 |
| Trichlorofluoromethane | | 46 | | 11 | ug/m3 | TO-15 |
| n-Hexane | | 34 | | 2.0 | ppb v/v | TO-15 |
| n-Hexane | | 120 | | 7.0 | ug/m3 | TO-15 |
| 1,1,1-Trichloroethane | | 330 | | 2.0 | ppb v/v | TO-15 |
| 1,1,1-Trichloroethane | | 1800 | | 11 | ug/m3 | TO-15 |
| Cyclohexane | | 61 | | 2.0 | ppb v/v | TO-15 |
| Cyclohexane | | 210 | | 6.9 | ug/m3 | TO-15 |
| Benzene | | 4.5 | | 2.0 | ppb v/v | TO-15 |
| Benzene | | 14 | | 6.4 | ug/m3 | TO-15 |
| n-Heptane | | 37 | | 2.0 | ppb v/v | TO-15 |
| n-Heptane | | 150 | | 8.2 | ug/m3 | TO-15 |
| Toluene | | 10 | | 2.0 | ppb v/v | TO-15 |
| Toluene | | 38 | | 7.5 | ug/m3 | TO-15 |
| Tetrachloroethene | | 45 | | 2.0 | ppb v/v | TO-15 |
| Tetrachloroethene | | 300 | | 14 | ug/m3 | TO-15 |
| Ethylbenzene | | 6.3 | | 2.0 | ppb v/v | TO-15 |
| Ethylbenzene | | 27 | | 8.7 | ug/m3 | TO-15 |
| m-Xylene & p-Xylene | | 29 | | 5.0 | ppb v/v | TO-15 |
| m-Xylene & p-Xylene | | 130 | | 22 | ug/m3 | TO-15 |
| o-Xylene | | 8.2 | | 2.0 | ppb v/v | TO-15 |
| o-Xylene | | 35 | | 8.7 | ug/m3 | TO-15 |
| 1,3,5-Trimethylbenzene | | 4.7 | | 2.0 | ppb v/v | TO-15 |
| 1,3,5-Trimethylbenzene | | 23 | | 9.8 | ug/m3 | TO-15 |
| **200-20018-12** | **AMSF-AA-120613** | | | | | |
| Chloromethane | | 0.58 | | 0.50 | ppb v/v | TO-15 |
| Chloromethane | | 1.2 | | 1.0 | ug/m3 | TO-15 |
| Dichlorodifluoromethane | | 0.46 | | 0.040 | ppb v/v | TO15 LL |
| Dichlorodifluoromethane | | 2.3 | | 0.20 | ug/m3 | TO15 LL |
| Trichlorofluoromethane | | 0.22 | | 0.040 | ppb v/v | TO15 LL |
| Trichlorofluoromethane | | 1.3 | | 0.22 | ug/m3 | TO15 LL |
| Carbon tetrachloride | | 0.070 | | 0.040 | ppb v/v | TO15 LL |
| Carbon tetrachloride | | 0.44 | | 0.25 | ug/m3 | TO15 LL |
| Benzene | | 0.11 | | 0.040 | ppb v/v | TO15 LL |
| Benzene | | 0.34 | | 0.13 | ug/m3 | TO15 LL |
| Toluene | | 0.11 | | 0.040 | ppb v/v | TO15 LL |
| Toluene | | 0.42 | | 0.15 | ug/m3 | TO15 LL |

# METHOD SUMMARY

Client: O'Brien & Gere Inc of North America

Job Number: 200-20018-1
Sdg Number: 200-20018

| Description | Lab Location | Method | Preparation Method |
|---|---|---|---|
| **Matrix: Air** | | | |
| Volatile Organic Compounds in Ambient Air | TAL BUR | EPA TO-15 | |
| Collection via Summa Canister | TAL BUR | | Summa Canister |
| Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS) | TAL BUR | EPA TO15 LL | |
| Collection via Summa Canister | TAL BUR | | Summa Canister |

**Lab References:**

TAL BUR = TestAmerica Burlington

**Method References:**

EPA = US Environmental Protection Agency

## METHOD / ANALYST SUMMARY

Client: O'Brien & Gere Inc of North America

Job Number: 200-20018-1
Sdg Number: 200-20018

| Method | Analyst | Analyst ID |
|---|---|---|
| EPA TO-15 | Desjardins, William R | WRD |
| EPA TO15 LL | Desjardins, William R | WRD |

Client: O'Brien & Gere Inc of North America

Job Number: 200-20018-1
Sdg Number: 200-20018

**Client Sample ID:** **AMSF-07-IA-120613**

Lab Sample ID: 200-20018-1
Client Matrix: Air

Date Sampled: 12/06/2013 0935
Date Received: 12/11/2013 1130

**TO-15 Volatile Organic Compounds in Ambient Air**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | TO-15 | Analysis Batch: | 200-66552 | Instrument ID: | CHW.i |
| Prep Method: | Summa Canister | Prep Batch: | N/A | Lab File ID: | wakj13.d |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 200 mL |
| Analysis Date: | 12/27/2013 2143 | | | Final Weight/Volume: | 200 mL |
| Prep Date: | 12/27/2013 2143 | | | Injection Volume: | 200 mL |

| Analyte | Result (ppb v/v) | Qualifier | RL | RL |
|---|---|---|---|---|
| Dichlorodifluoromethane | 0.50 | U | 0.50 | 0.50 |
| 1,2-Dichlorotetrafluoroethane | 0.20 | U | 0.20 | 0.20 |
| Vinyl chloride | 0.040 | U | 0.040 | 0.040 |
| 1,3-Butadiene | 0.20 | U | 0.20 | 0.20 |
| Chloromethane | 0.60 | | 0.50 | 0.50 |
| Bromomethane | 0.20 | U | 0.20 | 0.20 |
| Chloroethane | 0.50 | U | 0.50 | 0.50 |
| Bromoethene(Vinyl Bromide) | 0.20 | U | 0.20 | 0.20 |
| Trichlorofluoromethane | 1.8 | | 0.20 | 0.20 |
| 1,1-Dichloroethene | 0.20 | U | 0.20 | 0.20 |
| 3-Chloropropene | 0.50 | U | 0.50 | 0.50 |
| Freon TF | 0.20 | U | 0.20 | 0.20 |
| Methylene Chloride | 0.50 | U | 0.50 | 0.50 |
| Methyl tert-butyl ether | 0.20 | U | 0.20 | 0.20 |
| Acetone | 300 | E | 5.0 | 5.0 |
| trans-1,2-Dichloroethene | 0.20 | U | 0.20 | 0.20 |
| n-Hexane | 1.2 | | 0.20 | 0.20 |
| 1,1-Dichloroethane | 0.20 | U | 0.20 | 0.20 |
| Carbon disulfide | 0.50 | U | 0.50 | 0.50 |
| cis-1,2-Dichloroethene | 0.20 | U | 0.20 | 0.20 |
| Chloroform | 0.20 | U | 0.20 | 0.20 |
| 1,1,1-Trichloroethane | 0.98 | | 0.20 | 0.20 |
| Cyclohexane | 0.75 | | 0.20 | 0.20 |
| Carbon tetrachloride | 0.067 | | 0.040 | 0.040 |
| Methyl Ethyl Ketone | 14 | | 0.50 | 0.50 |
| Benzene | 0.80 | | 0.20 | 0.20 |
| 1,2-Dichloroethane | 0.20 | U | 0.20 | 0.20 |
| n-Heptane | 2.7 | | 0.20 | 0.20 |
| Trichloroethene | 0.050 | | 0.040 | 0.040 |
| 1,2-Dichloropropane | 0.20 | U | 0.20 | 0.20 |
| Bromodichloromethane | 0.20 | U | 0.20 | 0.20 |
| cis-1,3-Dichloropropene | 0.20 | U | 0.20 | 0.20 |
| Toluene | 5.5 | | 0.20 | 0.20 |
| trans-1,3-Dichloropropene | 0.20 | U | 0.20 | 0.20 |
| 1,1,2-Trichloroethane | 0.20 | U | 0.20 | 0.20 |
| Tetrachloroethene | 0.88 | | 0.040 | 0.040 |
| Dibromochloromethane | 0.20 | U | 0.20 | 0.20 |
| 1,2-Dibromoethane | 0.20 | U | 0.20 | 0.20 |
| Ethylbenzene | 0.40 | | 0.20 | 0.20 |
| 1,4-Dioxane | 5.0 | U | 5.0 | 5.0 |
| m-Xylene & p-Xylene | 1.6 | | 0.50 | 0.50 |
| o-Xylene | 0.59 | | 0.20 | 0.20 |
| Bromoform | 0.20 | U | 0.20 | 0.20 |
| methyl isobutyl ketone | 0.50 | U | 0.50 | 0.50 |
| 1,1,2,2-Tetrachloroethane | 0.20 | U | 0.20 | 0.20 |
| 4-Ethyltoluene | 0.20 | U | 0.20 | 0.20 |

Client: O'Brien & Gere Inc of North America

Job Number: 200-20018-1
Sdg Number: 200-20018

**Client Sample ID:** **AMSF-07-IA-120613**

Lab Sample ID: 200-20018-1
Client Matrix: Air

Date Sampled: 12/06/2013 0935
Date Received: 12/11/2013 1130

**TO-15 Volatile Organic Compounds in Ambient Air**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | TO-15 | Analysis Batch: | 200-66552 | Instrument ID: | CHW.i |
| Prep Method: | Summa Canister | Prep Batch: | N/A | Lab File ID: | wakj13.d |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 200 mL |
| Analysis Date: | 12/27/2013 2143 | | | Final Weight/Volume: | 200 mL |
| Prep Date: | 12/27/2013 2143 | | | Injection Volume: | 200 mL |

| Analyte | Result (ppb v/v) | Qualifier | RL | RL |
|---|---|---|---|---|
| 1,3,5-Trimethylbenzene | 0.20 | U | 0.20 | 0.20 |
| Methyl Butyl Ketone (2-Hexanone) | 0.50 | U | 0.50 | 0.50 |
| Chlorobenzene | 0.20 | U | 0.20 | 0.20 |
| Styrene | 0.20 | U | 0.20 | 0.20 |
| 1,3-Dichlorobenzene | 0.20 | U | 0.20 | 0.20 |
| 1,4-Dichlorobenzene | 0.20 | U | 0.20 | 0.20 |
| 1,2-Dichlorobenzene | 0.20 | U | 0.20 | 0.20 |
| 1,2,4-Trichlorobenzene | 0.50 | U | 0.50 | 0.50 |
| 1,2,3-Trichlorobenzene | 0.20 | U | 0.20 | 0.20 |

| Analyte | Result (ug/m3) | Qualifier | RL | RL |
|---|---|---|---|---|
| Dichlorodifluoromethane | 2.5 | U | 2.5 | 2.5 |
| 1,2-Dichlorotetrafluoroethane | 1.4 | U | 1.4 | 1.4 |
| Vinyl chloride | 0.10 | U | 0.10 | 0.10 |
| 1,3-Butadiene | 0.44 | U | 0.44 | 0.44 |
| Chloromethane | 1.2 | | 1.0 | 1.0 |
| Bromomethane | 0.78 | U | 0.78 | 0.78 |
| Chloroethane | 1.3 | U | 1.3 | 1.3 |
| Bromoethene(Vinyl Bromide) | 0.87 | U | 0.87 | 0.87 |
| Trichlorofluoromethane | 9.9 | | 1.1 | 1.1 |
| 1,1-Dichloroethene | 0.79 | U | 0.79 | 0.79 |
| 3-Chloropropene | 1.6 | U | 1.6 | 1.6 |
| Freon TF | 1.5 | U | 1.5 | 1.5 |
| Methylene Chloride | 1.7 | U | 1.7 | 1.7 |
| Methyl tert-butyl ether | 0.72 | U | 0.72 | 0.72 |
| Acetone | 720 | E | 12 | 12 |
| trans-1,2-Dichloroethene | 0.79 | U | 0.79 | 0.79 |
| n-Hexane | 4.3 | | 0.70 | 0.70 |
| 1,1-Dichloroethane | 0.81 | U | 0.81 | 0.81 |
| Carbon disulfide | 1.6 | U | 1.6 | 1.6 |
| cis-1,2-Dichloroethene | 0.79 | U | 0.79 | 0.79 |
| Chloroform | 0.98 | U | 0.98 | 0.98 |
| 1,1,1-Trichloroethane | 5.4 | | 1.1 | 1.1 |
| Cyclohexane | 2.6 | | 0.69 | 0.69 |
| Carbon tetrachloride | 0.42 | | 0.25 | 0.25 |
| Methyl Ethyl Ketone | 43 | | 1.5 | 1.5 |
| Benzene | 2.6 | | 0.64 | 0.64 |
| 1,2-Dichloroethane | 0.81 | U | 0.81 | 0.81 |
| n-Heptane | 11 | | 0.82 | 0.82 |
| Trichloroethene | 0.27 | | 0.21 | 0.21 |
| 1,2-Dichloropropane | 0.92 | U | 0.92 | 0.92 |
| Bromodichloromethane | 1.3 | U | 1.3 | 1.3 |
| cis-1,3-Dichloropropene | 0.91 | U | 0.91 | 0.91 |
| Toluene | 21 | | 0.75 | 0.75 |
| trans-1,3-Dichloropropene | 0.91 | U | 0.91 | 0.91 |
| 1,1,2-Trichloroethane | 1.1 | U | 1.1 | 1.1 |

Client: O'Brien & Gere Inc of North America

Job Number: 200-20018-1
Sdg Number: 200-20018

**Client Sample ID:** **AMSF-07-IA-120613**

Lab Sample ID: 200-20018-1
Client Matrix: Air

Date Sampled: 12/06/2013 0935
Date Received: 12/11/2013 1130

**TO-15 Volatile Organic Compounds in Ambient Air**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | TO-15 | Analysis Batch: | 200-66552 | Instrument ID: | CHW.i |
| Prep Method: | Summa Canister | Prep Batch: | N/A | Lab File ID: | wakj13.d |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 200 mL |
| Analysis Date: | 12/27/2013 2143 | | | Final Weight/Volume: | 200 mL |
| Prep Date: | 12/27/2013 2143 | | | Injection Volume: | 200 mL |

| Analyte | Result (ug/m3) | Qualifier | RL | RL |
|---|---|---|---|---|
| Tetrachloroethene | 5.9 | | 0.27 | 0.27 |
| Dibromochloromethane | 1.7 | U | 1.7 | 1.7 |
| 1,2-Dibromoethane | 1.5 | U | 1.5 | 1.5 |
| Ethylbenzene | 1.7 | | 0.87 | 0.87 |
| 1,4-Dioxane | 18 | U | 18 | 18 |
| m-Xylene & p-Xylene | 7.0 | | 2.2 | 2.2 |
| o-Xylene | 2.5 | | 0.87 | 0.87 |
| Bromoform | 2.1 | U | 2.1 | 2.1 |
| methyl isobutyl ketone | 2.0 | U | 2.0 | 2.0 |
| 1,1,2,2-Tetrachloroethane | 1.4 | U | 1.4 | 1.4 |
| 4-Ethyltoluene | 0.98 | U | 0.98 | 0.98 |
| 1,3,5-Trimethylbenzene | 0.98 | U | 0.98 | 0.98 |
| Methyl Butyl Ketone (2-Hexanone) | 2.0 | U | 2.0 | 2.0 |
| Chlorobenzene | 0.92 | U | 0.92 | 0.92 |
| Styrene | 0.85 | U | 0.85 | 0.85 |
| 1,3-Dichlorobenzene | 1.2 | U | 1.2 | 1.2 |
| 1,4-Dichlorobenzene | 1.2 | U | 1.2 | 1.2 |
| 1,2-Dichlorobenzene | 1.2 | U | 1.2 | 1.2 |
| 1,2,4-Trichlorobenzene | 3.7 | U | 3.7 | 3.7 |
| 1,2,3-Trichlorobenzene | 1.5 | U | 1.5 | 1.5 |

Client: O'Brien & Gere Inc of North America

Job Number: 200-20018-1
Sdg Number: 200-20018

**Client Sample ID:** **AMSF-07-SS-120613**

Lab Sample ID: 200-20018-2
Client Matrix: Air

Date Sampled: 12/06/2013 0957
Date Received: 12/11/2013 1130

**TO-15 Volatile Organic Compounds in Ambient Air**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | TO-15 | Analysis Batch: | 200-66552 | Instrument ID: | CHW.i |
| Prep Method: | Summa Canister | Prep Batch: | N/A | Lab File ID: | wakj19.d |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 200 mL |
| Analysis Date: | 12/28/2013 0246 | | | Final Weight/Volume: | 200 mL |
| Prep Date: | 12/28/2013 0246 | | | Injection Volume: | 200 mL |

| Analyte | Result (ppb v/v) | Qualifier | RL | RL |
|---|---|---|---|---|
| Dichlorodifluoromethane | 0.55 | | 0.50 | 0.50 |
| 1,2-Dichlorotetrafluoroethane | 0.20 | U | 0.20 | 0.20 |
| Vinyl chloride | 0.20 | U | 0.20 | 0.20 |
| 1,3-Butadiene | 0.20 | U | 0.20 | 0.20 |
| Chloromethane | 0.50 | | 0.50 | 0.50 |
| Bromomethane | 0.20 | U | 0.20 | 0.20 |
| Chloroethane | 0.50 | U | 0.50 | 0.50 |
| Bromoethene(Vinyl Bromide) | 0.20 | U | 0.20 | 0.20 |
| Trichlorofluoromethane | 1.8 | | 0.20 | 0.20 |
| 1,1-Dichloroethene | 15 | | 0.20 | 0.20 |
| 3-Chloropropene | 0.50 | U | 0.50 | 0.50 |
| Freon TF | 0.20 | U | 0.20 | 0.20 |
| Methylene Chloride | 0.50 | U | 0.50 | 0.50 |
| Methyl tert-butyl ether | 0.20 | U | 0.20 | 0.20 |
| Acetone | 250 | E | 5.0 | 5.0 |
| trans-1,2-Dichloroethene | 0.20 | U | 0.20 | 0.20 |
| n-Hexane | 1.1 | | 0.20 | 0.20 |
| 1,1-Dichloroethane | 14 | | 0.20 | 0.20 |
| Carbon disulfide | 0.81 | | 0.50 | 0.50 |
| cis-1,2-Dichloroethene | 0.20 | U | 0.20 | 0.20 |
| Chloroform | 0.30 | | 0.20 | 0.20 |
| 1,1,1-Trichloroethane | 35 | | 0.20 | 0.20 |
| Cyclohexane | 0.20 | U | 0.20 | 0.20 |
| Carbon tetrachloride | 0.20 | U | 0.20 | 0.20 |
| Methyl Ethyl Ketone | 11 | | 0.50 | 0.50 |
| Benzene | 0.76 | | 0.20 | 0.20 |
| 1,2-Dichloroethane | 0.20 | U | 0.20 | 0.20 |
| n-Heptane | 2.2 | | 0.20 | 0.20 |
| Trichloroethene | 0.20 | U | 0.20 | 0.20 |
| 1,2-Dichloropropane | 0.20 | U | 0.20 | 0.20 |
| Bromodichloromethane | 0.20 | U | 0.20 | 0.20 |
| cis-1,3-Dichloropropene | 0.20 | U | 0.20 | 0.20 |
| Toluene | 5.1 | | 0.20 | 0.20 |
| trans-1,3-Dichloropropene | 0.20 | U | 0.20 | 0.20 |
| 1,1,2-Trichloroethane | 0.20 | U | 0.20 | 0.20 |
| Tetrachloroethene | 24 | | 0.20 | 0.20 |
| Dibromochloromethane | 0.20 | U | 0.20 | 0.20 |
| 1,2-Dibromoethane | 0.20 | U | 0.20 | 0.20 |
| Ethylbenzene | 100 | E | 0.20 | 0.20 |
| 1,4-Dioxane | 5.0 | U | 5.0 | 5.0 |
| m-Xylene & p-Xylene | 250 | E | 0.50 | 0.50 |
| o-Xylene | 160 | E | 0.20 | 0.20 |
| Bromoform | 0.20 | U | 0.20 | 0.20 |
| methyl isobutyl ketone | 0.50 | U | 0.50 | 0.50 |
| 1,1,2,2-Tetrachloroethane | 0.20 | U | 0.20 | 0.20 |
| 4-Ethyltoluene | 0.22 | | 0.20 | 0.20 |

Client: O'Brien & Gere Inc of North America

Job Number: 200-20018-1
Sdg Number: 200-20018

**Client Sample ID:** **AMSF-07-SS-120613**

Lab Sample ID: 200-20018-2
Client Matrix: Air

Date Sampled: 12/06/2013 0957
Date Received: 12/11/2013 1130

**TO-15 Volatile Organic Compounds in Ambient Air**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | TO-15 | Analysis Batch: | 200-66552 | Instrument ID: | CHW.i |
| Prep Method: | Summa Canister | Prep Batch: | N/A | Lab File ID: | wakj19.d |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 200 mL |
| Analysis Date: | 12/28/2013 0246 | | | Final Weight/Volume: | 200 mL |
| Prep Date: | 12/28/2013 0246 | | | Injection Volume: | 200 mL |

| Analyte | Result (ppb v/v) | Qualifier | RL | RL |
|---|---|---|---|---|
| 1,3,5-Trimethylbenzene | 0.20 | U | 0.20 | 0.20 |
| Methyl Butyl Ketone (2-Hexanone) | 0.50 | U | 0.50 | 0.50 |
| Chlorobenzene | 0.20 | U | 0.20 | 0.20 |
| Styrene | 0.20 | U | 0.20 | 0.20 |
| 1,3-Dichlorobenzene | 0.20 | U | 0.20 | 0.20 |
| 1,4-Dichlorobenzene | 0.20 | U | 0.20 | 0.20 |
| 1,2-Dichlorobenzene | 0.20 | U | 0.20 | 0.20 |
| 1,2,4-Trichlorobenzene | 0.50 | U | 0.50 | 0.50 |
| 1,2,3-Trichlorobenzene | 0.20 | U | 0.20 | 0.20 |

| Analyte | Result (ug/m3) | Qualifier | RL | RL |
|---|---|---|---|---|
| Dichlorodifluoromethane | 2.7 | | 2.5 | 2.5 |
| 1,2-Dichlorotetrafluoroethane | 1.4 | U | 1.4 | 1.4 |
| Vinyl chloride | 0.51 | U | 0.51 | 0.51 |
| 1,3-Butadiene | 0.44 | U | 0.44 | 0.44 |
| Chloromethane | 1.0 | | 1.0 | 1.0 |
| Bromomethane | 0.78 | U | 0.78 | 0.78 |
| Chloroethane | 1.3 | U | 1.3 | 1.3 |
| Bromoethene(Vinyl Bromide) | 0.87 | U | 0.87 | 0.87 |
| Trichlorofluoromethane | 10 | | 1.1 | 1.1 |
| 1,1-Dichloroethene | 59 | | 0.79 | 0.79 |
| 3-Chloropropene | 1.6 | U | 1.6 | 1.6 |
| Freon TF | 1.5 | U | 1.5 | 1.5 |
| Methylene Chloride | 1.7 | U | 1.7 | 1.7 |
| Methyl tert-butyl ether | 0.72 | U | 0.72 | 0.72 |
| Acetone | 600 | E | 12 | 12 |
| trans-1,2-Dichloroethene | 0.79 | U | 0.79 | 0.79 |
| n-Hexane | 3.7 | | 0.70 | 0.70 |
| 1,1-Dichloroethane | 56 | | 0.81 | 0.81 |
| Carbon disulfide | 2.5 | | 1.6 | 1.6 |
| cis-1,2-Dichloroethene | 0.79 | U | 0.79 | 0.79 |
| Chloroform | 1.5 | | 0.98 | 0.98 |
| 1,1,1-Trichloroethane | 190 | | 1.1 | 1.1 |
| Cyclohexane | 0.69 | U | 0.69 | 0.69 |
| Carbon tetrachloride | 1.3 | U | 1.3 | 1.3 |
| Methyl Ethyl Ketone | 33 | | 1.5 | 1.5 |
| Benzene | 2.4 | | 0.64 | 0.64 |
| 1,2-Dichloroethane | 0.81 | U | 0.81 | 0.81 |
| n-Heptane | 9.2 | | 0.82 | 0.82 |
| Trichloroethene | 1.1 | U | 1.1 | 1.1 |
| 1,2-Dichloropropane | 0.92 | U | 0.92 | 0.92 |
| Bromodichloromethane | 1.3 | U | 1.3 | 1.3 |
| cis-1,3-Dichloropropene | 0.91 | U | 0.91 | 0.91 |
| Toluene | 19 | | 0.75 | 0.75 |
| trans-1,3-Dichloropropene | 0.91 | U | 0.91 | 0.91 |
| 1,1,2-Trichloroethane | 1.1 | U | 1.1 | 1.1 |

Client: O'Brien & Gere Inc of North America

Job Number: 200-20018-1
Sdg Number: 200-20018

**Client Sample ID:** **AMSF-07-SS-120613**

Lab Sample ID: 200-20018-2
Client Matrix: Air

Date Sampled: 12/06/2013 0957
Date Received: 12/11/2013 1130

**TO-15 Volatile Organic Compounds in Ambient Air**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | TO-15 | Analysis Batch: | 200-66552 | Instrument ID: | CHW.i |
| Prep Method: | Summa Canister | Prep Batch: | N/A | Lab File ID: | wakj19.d |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 200 mL |
| Analysis Date: | 12/28/2013 0246 | | | Final Weight/Volume: | 200 mL |
| Prep Date: | 12/28/2013 0246 | | | Injection Volume: | 200 mL |

| Analyte | Result (ug/m3) | Qualifier | RL | RL |
|---|---|---|---|---|
| Tetrachloroethene | 160 | | 1.4 | 1.4 |
| Dibromochloromethane | 1.7 | U | 1.7 | 1.7 |
| 1,2-Dibromoethane | 1.5 | U | 1.5 | 1.5 |
| Ethylbenzene | 430 | E | 0.87 | 0.87 |
| 1,4-Dioxane | 18 | U | 18 | 18 |
| m-Xylene & p-Xylene | 1100 | E | 2.2 | 2.2 |
| o-Xylene | 710 | E | 0.87 | 0.87 |
| Bromoform | 2.1 | U | 2.1 | 2.1 |
| methyl isobutyl ketone | 2.0 | U | 2.0 | 2.0 |
| 1,1,2,2-Tetrachloroethane | 1.4 | U | 1.4 | 1.4 |
| 4-Ethyltoluene | 1.1 | | 0.98 | 0.98 |
| 1,3,5-Trimethylbenzene | 0.98 | U | 0.98 | 0.98 |
| Methyl Butyl Ketone (2-Hexanone) | 2.0 | U | 2.0 | 2.0 |
| Chlorobenzene | 0.92 | U | 0.92 | 0.92 |
| Styrene | 0.85 | U | 0.85 | 0.85 |
| 1,3-Dichlorobenzene | 1.2 | U | 1.2 | 1.2 |
| 1,4-Dichlorobenzene | 1.2 | U | 1.2 | 1.2 |
| 1,2-Dichlorobenzene | 1.2 | U | 1.2 | 1.2 |
| 1,2,4-Trichlorobenzene | 3.7 | U | 3.7 | 3.7 |
| 1,2,3-Trichlorobenzene | 1.5 | U | 1.5 | 1.5 |

Client: O'Brien & Gere Inc of North America

Job Number: 200-20018-1
Sdg Number: 200-20018

**Client Sample ID:** **AMSF-22-IA-120613**

Lab Sample ID: 200-20018-3
Client Matrix: Air

Date Sampled: 12/06/2013 1402
Date Received: 12/11/2013 1130

**TO-15 Volatile Organic Compounds in Ambient Air**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | TO-15 | Analysis Batch: | 200-66552 | Instrument ID: | CHW.i |
| Prep Method: | Summa Canister | Prep Batch: | N/A | Lab File ID: | wakj14.d |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 200 mL |
| Analysis Date: | 12/27/2013 2232 | | | Final Weight/Volume: | 200 mL |
| Prep Date: | 12/27/2013 2232 | | | Injection Volume: | 200 mL |

| Analyte | Result (ppb v/v) | Qualifier | RL | RL |
|---|---|---|---|---|
| Dichlorodifluoromethane | 0.71 | | 0.50 | 0.50 |
| 1,2-Dichlorotetrafluoroethane | 0.20 | U | 0.20 | 0.20 |
| Vinyl chloride | 0.040 | U | 0.040 | 0.040 |
| 1,3-Butadiene | 0.20 | U | 0.20 | 0.20 |
| Chloromethane | 0.65 | | 0.50 | 0.50 |
| Bromomethane | 0.20 | U | 0.20 | 0.20 |
| Chloroethane | 0.50 | U | 0.50 | 0.50 |
| Bromoethene(Vinyl Bromide) | 0.20 | U | 0.20 | 0.20 |
| Trichlorofluoromethane | 3.6 | | 0.20 | 0.20 |
| 1,1-Dichloroethene | 0.21 | | 0.20 | 0.20 |
| 3-Chloropropene | 0.50 | U | 0.50 | 0.50 |
| Freon TF | 0.20 | U | 0.20 | 0.20 |
| Methylene Chloride | 0.67 | | 0.50 | 0.50 |
| Methyl tert-butyl ether | 0.20 | U | 0.20 | 0.20 |
| Acetone | 570 | E | 5.0 | 5.0 |
| trans-1,2-Dichloroethene | 0.20 | U | 0.20 | 0.20 |
| n-Hexane | 4.9 | | 0.20 | 0.20 |
| 1,1-Dichloroethane | 0.20 | U | 0.20 | 0.20 |
| Carbon disulfide | 0.50 | U | 0.50 | 0.50 |
| cis-1,2-Dichloroethene | 0.20 | U | 0.20 | 0.20 |
| Chloroform | 0.20 | U | 0.20 | 0.20 |
| 1,1,1-Trichloroethane | 1.9 | | 0.20 | 0.20 |
| Cyclohexane | 2.9 | | 0.20 | 0.20 |
| Carbon tetrachloride | 0.065 | | 0.040 | 0.040 |
| Methyl Ethyl Ketone | 31 | | 0.50 | 0.50 |
| Benzene | 1.7 | | 0.20 | 0.20 |
| 1,2-Dichloroethane | 0.20 | U | 0.20 | 0.20 |
| n-Heptane | 4.2 | | 0.20 | 0.20 |
| Trichloroethene | 0.075 | | 0.040 | 0.040 |
| 1,2-Dichloropropane | 0.20 | U | 0.20 | 0.20 |
| Bromodichloromethane | 0.20 | U | 0.20 | 0.20 |
| cis-1,3-Dichloropropene | 0.20 | U | 0.20 | 0.20 |
| Toluene | 13 | | 0.20 | 0.20 |
| trans-1,3-Dichloropropene | 0.20 | U | 0.20 | 0.20 |
| 1,1,2-Trichloroethane | 0.20 | U | 0.20 | 0.20 |
| Tetrachloroethene | 1.6 | | 0.040 | 0.040 |
| Dibromochloromethane | 0.20 | U | 0.20 | 0.20 |
| 1,2-Dibromoethane | 0.20 | U | 0.20 | 0.20 |
| Ethylbenzene | 0.68 | | 0.20 | 0.20 |
| 1,4-Dioxane | 5.0 | U | 5.0 | 5.0 |
| m-Xylene & p-Xylene | 2.8 | | 0.50 | 0.50 |
| o-Xylene | 0.93 | | 0.20 | 0.20 |
| Bromoform | 0.20 | U | 0.20 | 0.20 |
| methyl isobutyl ketone | 0.85 | | 0.50 | 0.50 |
| 1,1,2,2-Tetrachloroethane | 0.20 | U | 0.20 | 0.20 |
| 4-Ethyltoluene | 0.22 | | 0.20 | 0.20 |

Client: O'Brien & Gere Inc of North America

Job Number: 200-20018-1
Sdg Number: 200-20018

**Client Sample ID:** **AMSF-22-IA-120613**

Lab Sample ID: 200-20018-3
Client Matrix: Air

Date Sampled: 12/06/2013 1402
Date Received: 12/11/2013 1130

**TO-15 Volatile Organic Compounds in Ambient Air**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | TO-15 | Analysis Batch: | 200-66552 | Instrument ID: | CHW.i |
| Prep Method: | Summa Canister | Prep Batch: | N/A | Lab File ID: | wakj14.d |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 200 mL |
| Analysis Date: | 12/27/2013 2232 | | | Final Weight/Volume: | 200 mL |
| Prep Date: | 12/27/2013 2232 | | | Injection Volume: | 200 mL |

| Analyte | Result (ppb v/v) | Qualifier | RL | RL |
|---|---|---|---|---|
| 1,3,5-Trimethylbenzene | 0.26 | | 0.20 | 0.20 |
| Methyl Butyl Ketone (2-Hexanone) | 0.50 | U | 0.50 | 0.50 |
| Chlorobenzene | 0.20 | U | 0.20 | 0.20 |
| Styrene | 0.22 | | 0.20 | 0.20 |
| 1,3-Dichlorobenzene | 0.20 | U | 0.20 | 0.20 |
| 1,4-Dichlorobenzene | 0.20 | U | 0.20 | 0.20 |
| 1,2-Dichlorobenzene | 0.20 | U | 0.20 | 0.20 |
| 1,2,4-Trichlorobenzene | 0.50 | U | 0.50 | 0.50 |
| 1,2,3-Trichlorobenzene | 0.20 | U | 0.20 | 0.20 |

| Analyte | Result (ug/m3) | Qualifier | RL | RL |
|---|---|---|---|---|
| Dichlorodifluoromethane | 3.5 | | 2.5 | 2.5 |
| 1,2-Dichlorotetrafluoroethane | 1.4 | U | 1.4 | 1.4 |
| Vinyl chloride | 0.10 | U | 0.10 | 0.10 |
| 1,3-Butadiene | 0.44 | U | 0.44 | 0.44 |
| Chloromethane | 1.3 | | 1.0 | 1.0 |
| Bromomethane | 0.78 | U | 0.78 | 0.78 |
| Chloroethane | 1.3 | U | 1.3 | 1.3 |
| Bromoethene(Vinyl Bromide) | 0.87 | U | 0.87 | 0.87 |
| Trichlorofluoromethane | 20 | | 1.1 | 1.1 |
| 1,1-Dichloroethene | 0.85 | | 0.79 | 0.79 |
| 3-Chloropropene | 1.6 | U | 1.6 | 1.6 |
| Freon TF | 1.5 | U | 1.5 | 1.5 |
| Methylene Chloride | 2.3 | | 1.7 | 1.7 |
| Methyl tert-butyl ether | 0.72 | U | 0.72 | 0.72 |
| Acetone | 1400 | E | 12 | 12 |
| trans-1,2-Dichloroethene | 0.79 | U | 0.79 | 0.79 |
| n-Hexane | 17 | | 0.70 | 0.70 |
| 1,1-Dichloroethane | 0.81 | U | 0.81 | 0.81 |
| Carbon disulfide | 1.6 | U | 1.6 | 1.6 |
| cis-1,2-Dichloroethene | 0.79 | U | 0.79 | 0.79 |
| Chloroform | 0.98 | U | 0.98 | 0.98 |
| 1,1,1-Trichloroethane | 10 | | 1.1 | 1.1 |
| Cyclohexane | 10 | | 0.69 | 0.69 |
| Carbon tetrachloride | 0.41 | | 0.25 | 0.25 |
| Methyl Ethyl Ketone | 91 | | 1.5 | 1.5 |
| Benzene | 5.6 | | 0.64 | 0.64 |
| 1,2-Dichloroethane | 0.81 | U | 0.81 | 0.81 |
| n-Heptane | 17 | | 0.82 | 0.82 |
| Trichloroethene | 0.40 | | 0.21 | 0.21 |
| 1,2-Dichloropropane | 0.92 | U | 0.92 | 0.92 |
| Bromodichloromethane | 1.3 | U | 1.3 | 1.3 |
| cis-1,3-Dichloropropene | 0.91 | U | 0.91 | 0.91 |
| Toluene | 48 | | 0.75 | 0.75 |
| trans-1,3-Dichloropropene | 0.91 | U | 0.91 | 0.91 |
| 1,1,2-Trichloroethane | 1.1 | U | 1.1 | 1.1 |

Client: O'Brien & Gere Inc of North America

Job Number: 200-20018-1
Sdg Number: 200-20018

**Client Sample ID:** **AMSF-22-IA-120613**

Lab Sample ID: 200-20018-3
Client Matrix: Air

Date Sampled: 12/06/2013 1402
Date Received: 12/11/2013 1130

**TO-15 Volatile Organic Compounds in Ambient Air**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | TO-15 | Analysis Batch: | 200-66552 | Instrument ID: | CHW.i |
| Prep Method: | Summa Canister | Prep Batch: | N/A | Lab File ID: | wakj14.d |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 200 mL |
| Analysis Date: | 12/27/2013 2232 | | | Final Weight/Volume: | 200 mL |
| Prep Date: | 12/27/2013 2232 | | | Injection Volume: | 200 mL |

| Analyte | Result (ug/m3) | Qualifier | RL | RL |
|---|---|---|---|---|
| Tetrachloroethene | 11 | | 0.27 | 0.27 |
| Dibromochloromethane | 1.7 | U | 1.7 | 1.7 |
| 1,2-Dibromoethane | 1.5 | U | 1.5 | 1.5 |
| Ethylbenzene | 2.9 | | 0.87 | 0.87 |
| 1,4-Dioxane | 18 | U | 18 | 18 |
| m-Xylene & p-Xylene | 12 | | 2.2 | 2.2 |
| o-Xylene | 4.0 | | 0.87 | 0.87 |
| Bromoform | 2.1 | U | 2.1 | 2.1 |
| methyl isobutyl ketone | 3.5 | | 2.0 | 2.0 |
| 1,1,2,2-Tetrachloroethane | 1.4 | U | 1.4 | 1.4 |
| 4-Ethyltoluene | 1.1 | | 0.98 | 0.98 |
| 1,3,5-Trimethylbenzene | 1.3 | | 0.98 | 0.98 |
| Methyl Butyl Ketone (2-Hexanone) | 2.0 | U | 2.0 | 2.0 |
| Chlorobenzene | 0.92 | U | 0.92 | 0.92 |
| Styrene | 0.92 | | 0.85 | 0.85 |
| 1,3-Dichlorobenzene | 1.2 | U | 1.2 | 1.2 |
| 1,4-Dichlorobenzene | 1.2 | U | 1.2 | 1.2 |
| 1,2-Dichlorobenzene | 1.2 | U | 1.2 | 1.2 |
| 1,2,4-Trichlorobenzene | 3.7 | U | 3.7 | 3.7 |
| 1,2,3-Trichlorobenzene | 1.5 | U | 1.5 | 1.5 |

Client: O'Brien & Gere Inc of North America

Job Number: 200-20018-1
Sdg Number: 200-20018

**Client Sample ID:** **AMSF-22-SS-120613**

Lab Sample ID: 200-20018-4
Client Matrix: Air

Date Sampled: 12/06/2013 1410
Date Received: 12/11/2013 1130

**TO-15 Volatile Organic Compounds in Ambient Air**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | TO-15 | Analysis Batch: | 200-66552 | Instrument ID: | CHW.i |
| Prep Method: | Summa Canister | Prep Batch: | N/A | Lab File ID: | wakj20.d |
| Dilution: | 45.2 | | | Initial Weight/Volume: | 28 mL |
| Analysis Date: | 12/28/2013 0334 | | | Final Weight/Volume: | 200 mL |
| Prep Date: | 12/28/2013 0334 | | | Injection Volume: | 200 mL |

| Analyte | Result (ppb v/v) | Qualifier | RL | RL |
|---|---|---|---|---|
| Dichlorodifluoromethane | 23 | U | 23 | 23 |
| 1,2-Dichlorotetrafluoroethane | 9.0 | U | 9.0 | 9.0 |
| Vinyl chloride | 9.0 | U | 9.0 | 9.0 |
| 1,3-Butadiene | 9.0 | U | 9.0 | 9.0 |
| Chloromethane | 23 | U | 23 | 23 |
| Bromomethane | 9.0 | U | 9.0 | 9.0 |
| Chloroethane | 23 | U | 23 | 23 |
| Bromoethene(Vinyl Bromide) | 9.0 | U | 9.0 | 9.0 |
| Trichlorofluoromethane | 9.0 | U | 9.0 | 9.0 |
| 1,1-Dichloroethene | 1300 | | 9.0 | 9.0 |
| 3-Chloropropene | 23 | U | 23 | 23 |
| Freon TF | 9.0 | U | 9.0 | 9.0 |
| Methylene Chloride | 23 | U | 23 | 23 |
| Methyl tert-butyl ether | 9.0 | U | 9.0 | 9.0 |
| Acetone | 230 | U | 230 | 230 |
| trans-1,2-Dichloroethene | 9.0 | U | 9.0 | 9.0 |
| n-Hexane | 9.0 | U | 9.0 | 9.0 |
| 1,1-Dichloroethane | 210 | | 9.0 | 9.0 |
| Carbon disulfide | 23 | U | 23 | 23 |
| cis-1,2-Dichloroethene | 47 | | 9.0 | 9.0 |
| Chloroform | 9.0 | U | 9.0 | 9.0 |
| 1,1,1-Trichloroethane | 170 | | 9.0 | 9.0 |
| Cyclohexane | 9.0 | U | 9.0 | 9.0 |
| Carbon tetrachloride | 9.0 | U | 9.0 | 9.0 |
| Methyl Ethyl Ketone | 23 | U | 23 | 23 |
| Benzene | 9.0 | U | 9.0 | 9.0 |
| 1,2-Dichloroethane | 9.0 | U | 9.0 | 9.0 |
| n-Heptane | 9.0 | U | 9.0 | 9.0 |
| Trichloroethene | 120 | | 9.0 | 9.0 |
| 1,2-Dichloropropane | 9.0 | U | 9.0 | 9.0 |
| Bromodichloromethane | 9.0 | U | 9.0 | 9.0 |
| cis-1,3-Dichloropropene | 9.0 | U | 9.0 | 9.0 |
| Toluene | 9.0 | U | 9.0 | 9.0 |
| trans-1,3-Dichloropropene | 9.0 | U | 9.0 | 9.0 |
| 1,1,2-Trichloroethane | 100 | | 9.0 | 9.0 |
| Tetrachloroethene | 1200 | | 9.0 | 9.0 |
| Dibromochloromethane | 9.0 | U | 9.0 | 9.0 |
| 1,2-Dibromoethane | 9.0 | U | 9.0 | 9.0 |
| Ethylbenzene | 13 | | 9.0 | 9.0 |
| 1,4-Dioxane | 230 | U | 230 | 230 |
| m-Xylene & p-Xylene | 40 | | 23 | 23 |
| o-Xylene | 29 | | 9.0 | 9.0 |
| Bromoform | 9.0 | U | 9.0 | 9.0 |
| methyl isobutyl ketone | 23 | U | 23 | 23 |
| 1,1,2,2-Tetrachloroethane | 9.0 | U | 9.0 | 9.0 |
| 4-Ethyltoluene | 9.0 | U | 9.0 | 9.0 |

Client: O'Brien & Gere Inc of North America

Job Number: 200-20018-1
Sdg Number: 200-20018

**Client Sample ID:** **AMSF-22-SS-120613**

Lab Sample ID: 200-20018-4
Client Matrix: Air

Date Sampled: 12/06/2013 1410
Date Received: 12/11/2013 1130

**TO-15 Volatile Organic Compounds in Ambient Air**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | TO-15 | Analysis Batch: | 200-66552 | Instrument ID: | CHW.i |
| Prep Method: | Summa Canister | Prep Batch: | N/A | Lab File ID: | wakj20.d |
| Dilution: | 45.2 | | | Initial Weight/Volume: | 28 mL |
| Analysis Date: | 12/28/2013 0334 | | | Final Weight/Volume: | 200 mL |
| Prep Date: | 12/28/2013 0334 | | | Injection Volume: | 200 mL |

| Analyte | Result (ppb v/v) | Qualifier | RL | RL |
|---|---|---|---|---|
| 1,3,5-Trimethylbenzene | 9.0 | U | 9.0 | 9.0 |
| Methyl Butyl Ketone (2-Hexanone) | 23 | U | 23 | 23 |
| Chlorobenzene | 9.0 | U | 9.0 | 9.0 |
| Styrene | 9.0 | U | 9.0 | 9.0 |
| 1,3-Dichlorobenzene | 9.0 | U | 9.0 | 9.0 |
| 1,4-Dichlorobenzene | 9.0 | U | 9.0 | 9.0 |
| 1,2-Dichlorobenzene | 9.0 | U | 9.0 | 9.0 |
| 1,2,4-Trichlorobenzene | 23 | U | 23 | 23 |
| 1,2,3-Trichlorobenzene | 9.0 | U | 9.0 | 9.0 |

| Analyte | Result (ug/m3) | Qualifier | RL | RL |
|---|---|---|---|---|
| Dichlorodifluoromethane | 110 | U | 110 | 110 |
| 1,2-Dichlorotetrafluoroethane | 63 | U | 63 | 63 |
| Vinyl chloride | 23 | U | 23 | 23 |
| 1,3-Butadiene | 20 | U | 20 | 20 |
| Chloromethane | 47 | U | 47 | 47 |
| Bromomethane | 35 | U | 35 | 35 |
| Chloroethane | 60 | U | 60 | 60 |
| Bromoethene(Vinyl Bromide) | 40 | U | 40 | 40 |
| Trichlorofluoromethane | 51 | U | 51 | 51 |
| 1,1-Dichloroethene | 5100 | | 36 | 36 |
| 3-Chloropropene | 71 | U | 71 | 71 |
| Freon TF | 69 | U | 69 | 69 |
| Methylene Chloride | 79 | U | 79 | 79 |
| Methyl tert-butyl ether | 33 | U | 33 | 33 |
| Acetone | 540 | U | 540 | 540 |
| trans-1,2-Dichloroethene | 36 | U | 36 | 36 |
| n-Hexane | 32 | U | 32 | 32 |
| 1,1-Dichloroethane | 840 | | 37 | 37 |
| Carbon disulfide | 70 | U | 70 | 70 |
| cis-1,2-Dichloroethene | 190 | | 36 | 36 |
| Chloroform | 44 | U | 44 | 44 |
| 1,1,1-Trichloroethane | 910 | | 49 | 49 |
| Cyclohexane | 31 | U | 31 | 31 |
| Carbon tetrachloride | 57 | U | 57 | 57 |
| Methyl Ethyl Ketone | 67 | U | 67 | 67 |
| Benzene | 29 | U | 29 | 29 |
| 1,2-Dichloroethane | 37 | U | 37 | 37 |
| n-Heptane | 37 | U | 37 | 37 |
| Trichloroethene | 640 | | 49 | 49 |
| 1,2-Dichloropropane | 42 | U | 42 | 42 |
| Bromodichloromethane | 61 | U | 61 | 61 |
| cis-1,3-Dichloropropene | 41 | U | 41 | 41 |
| Toluene | 34 | U | 34 | 34 |
| trans-1,3-Dichloropropene | 41 | U | 41 | 41 |
| 1,1,2-Trichloroethane | 550 | | 49 | 49 |

Client: O'Brien & Gere Inc of North America

Job Number: 200-20018-1
Sdg Number: 200-20018

**Client Sample ID:** **AMSF-22-SS-120613**

Lab Sample ID: 200-20018-4
Client Matrix: Air

Date Sampled: 12/06/2013 1410
Date Received: 12/11/2013 1130

**TO-15 Volatile Organic Compounds in Ambient Air**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | TO-15 | Analysis Batch: | 200-66552 | Instrument ID: | CHW.i |
| Prep Method: | Summa Canister | Prep Batch: | N/A | Lab File ID: | wakj20.d |
| Dilution: | 45.2 | | | Initial Weight/Volume: | 28 mL |
| Analysis Date: | 12/28/2013 0334 | | | Final Weight/Volume: | 200 mL |
| Prep Date: | 12/28/2013 0334 | | | Injection Volume: | 200 mL |

| Analyte | Result (ug/m3) | Qualifier | RL | RL |
|---|---|---|---|---|
| Tetrachloroethene | 8100 | | 61 | 61 |
| Dibromochloromethane | 77 | U | 77 | 77 |
| 1,2-Dibromoethane | 69 | U | 69 | 69 |
| Ethylbenzene | 54 | | 39 | 39 |
| 1,4-Dioxane | 810 | U | 810 | 810 |
| m-Xylene & p-Xylene | 170 | | 98 | 98 |
| o-Xylene | 130 | | 39 | 39 |
| Bromoform | 93 | U | 93 | 93 |
| methyl isobutyl ketone | 93 | U | 93 | 93 |
| 1,1,2,2-Tetrachloroethane | 62 | U | 62 | 62 |
| 4-Ethyltoluene | 44 | U | 44 | 44 |
| 1,3,5-Trimethylbenzene | 44 | U | 44 | 44 |
| Methyl Butyl Ketone (2-Hexanone) | 93 | U | 93 | 93 |
| Chlorobenzene | 42 | U | 42 | 42 |
| Styrene | 39 | U | 39 | 39 |
| 1,3-Dichlorobenzene | 54 | U | 54 | 54 |
| 1,4-Dichlorobenzene | 54 | U | 54 | 54 |
| 1,2-Dichlorobenzene | 54 | U | 54 | 54 |
| 1,2,4-Trichlorobenzene | 170 | U | 170 | 170 |
| 1,2,3-Trichlorobenzene | 67 | U | 67 | 67 |

Client: O'Brien & Gere Inc of North America

Job Number: 200-20018-1
Sdg Number: 200-20018

**Client Sample ID:** **AMSF-05-IA-120613**

Lab Sample ID: 200-20018-5
Client Matrix: Air

Date Sampled: 12/06/2013 1327
Date Received: 12/11/2013 1130

**TO-15 Volatile Organic Compounds in Ambient Air**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | TO-15 | Analysis Batch: | 200-66552 | Instrument ID: | CHW.i |
| Prep Method: | Summa Canister | Prep Batch: | N/A | Lab File ID: | wakj15.d |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 200 mL |
| Analysis Date: | 12/27/2013 2322 | | | Final Weight/Volume: | 200 mL |
| Prep Date: | 12/27/2013 2322 | | | Injection Volume: | 200 mL |

| Analyte | Result (ppb v/v) | Qualifier | RL | RL |
|---|---|---|---|---|
| Dichlorodifluoromethane | 0.55 | | 0.50 | 0.50 |
| 1,2-Dichlorotetrafluoroethane | 0.20 | U | 0.20 | 0.20 |
| Vinyl chloride | 0.040 | U | 0.040 | 0.040 |
| 1,3-Butadiene | 0.20 | U | 0.20 | 0.20 |
| Chloromethane | 4.1 | | 0.50 | 0.50 |
| Bromomethane | 0.20 | U | 0.20 | 0.20 |
| Chloroethane | 0.50 | U | 0.50 | 0.50 |
| Bromoethene(Vinyl Bromide) | 0.20 | U | 0.20 | 0.20 |
| Trichlorofluoromethane | 3.1 | | 0.20 | 0.20 |
| 1,1-Dichloroethene | 0.20 | U | 0.20 | 0.20 |
| 3-Chloropropene | 0.50 | U | 0.50 | 0.50 |
| Freon TF | 0.20 | U | 0.20 | 0.20 |
| Methylene Chloride | 0.50 | U | 0.50 | 0.50 |
| Methyl tert-butyl ether | 0.20 | U | 0.20 | 0.20 |
| Acetone | 310 | E | 5.0 | 5.0 |
| trans-1,2-Dichloroethene | 0.20 | U | 0.20 | 0.20 |
| n-Hexane | 1.6 | | 0.20 | 0.20 |
| 1,1-Dichloroethane | 0.20 | U | 0.20 | 0.20 |
| Carbon disulfide | 0.50 | U | 0.50 | 0.50 |
| cis-1,2-Dichloroethene | 0.20 | U | 0.20 | 0.20 |
| Chloroform | 0.20 | U | 0.20 | 0.20 |
| 1,1,1-Trichloroethane | 0.86 | | 0.20 | 0.20 |
| Cyclohexane | 1.0 | | 0.20 | 0.20 |
| Carbon tetrachloride | 0.081 | | 0.040 | 0.040 |
| Methyl Ethyl Ketone | 15 | | 0.50 | 0.50 |
| Benzene | 0.79 | | 0.20 | 0.20 |
| 1,2-Dichloroethane | 0.20 | U | 0.20 | 0.20 |
| n-Heptane | 2.7 | | 0.20 | 0.20 |
| Trichloroethene | 0.040 | U | 0.040 | 0.040 |
| 1,2-Dichloropropane | 0.20 | U | 0.20 | 0.20 |
| Bromodichloromethane | 0.20 | U | 0.20 | 0.20 |
| cis-1,3-Dichloropropene | 0.20 | U | 0.20 | 0.20 |
| Toluene | 8.9 | | 0.20 | 0.20 |
| trans-1,3-Dichloropropene | 0.20 | U | 0.20 | 0.20 |
| 1,1,2-Trichloroethane | 0.20 | U | 0.20 | 0.20 |
| Tetrachloroethene | 0.65 | | 0.040 | 0.040 |
| Dibromochloromethane | 0.20 | U | 0.20 | 0.20 |
| 1,2-Dibromoethane | 0.20 | U | 0.20 | 0.20 |
| Ethylbenzene | 0.39 | | 0.20 | 0.20 |
| 1,4-Dioxane | 5.0 | U | 5.0 | 5.0 |
| m-Xylene & p-Xylene | 1.4 | | 0.50 | 0.50 |
| o-Xylene | 0.47 | | 0.20 | 0.20 |
| Bromoform | 0.20 | U | 0.20 | 0.20 |
| methyl isobutyl ketone | 0.70 | | 0.50 | 0.50 |
| 1,1,2,2-Tetrachloroethane | 0.20 | U | 0.20 | 0.20 |
| 4-Ethyltoluene | 0.20 | U | 0.20 | 0.20 |

Client: O'Brien & Gere Inc of North America

Job Number: 200-20018-1
Sdg Number: 200-20018

**Client Sample ID:** **AMSF-05-IA-120613**

Lab Sample ID: 200-20018-5
Client Matrix: Air

Date Sampled: 12/06/2013 1327
Date Received: 12/11/2013 1130

**TO-15 Volatile Organic Compounds in Ambient Air**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | TO-15 | Analysis Batch: | 200-66552 | Instrument ID: | CHW.i |
| Prep Method: | Summa Canister | Prep Batch: | N/A | Lab File ID: | wakj15.d |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 200 mL |
| Analysis Date: | 12/27/2013 2322 | | | Final Weight/Volume: | 200 mL |
| Prep Date: | 12/27/2013 2322 | | | Injection Volume: | 200 mL |

| Analyte | Result (ppb v/v) | Qualifier | RL | RL |
|---|---|---|---|---|
| 1,3,5-Trimethylbenzene | 0.20 | U | 0.20 | 0.20 |
| Methyl Butyl Ketone (2-Hexanone) | 0.50 | U | 0.50 | 0.50 |
| Chlorobenzene | 0.20 | U | 0.20 | 0.20 |
| Styrene | 0.27 | | 0.20 | 0.20 |
| 1,3-Dichlorobenzene | 0.20 | U | 0.20 | 0.20 |
| 1,4-Dichlorobenzene | 0.20 | U | 0.20 | 0.20 |
| 1,2-Dichlorobenzene | 0.20 | U | 0.20 | 0.20 |
| 1,2,4-Trichlorobenzene | 0.50 | U | 0.50 | 0.50 |
| 1,2,3-Trichlorobenzene | 0.20 | U | 0.20 | 0.20 |

| Analyte | Result (ug/m3) | Qualifier | RL | RL |
|---|---|---|---|---|
| Dichlorodifluoromethane | 2.7 | | 2.5 | 2.5 |
| 1,2-Dichlorotetrafluoroethane | 1.4 | U | 1.4 | 1.4 |
| Vinyl chloride | 0.10 | U | 0.10 | 0.10 |
| 1,3-Butadiene | 0.44 | U | 0.44 | 0.44 |
| Chloromethane | 8.4 | | 1.0 | 1.0 |
| Bromomethane | 0.78 | U | 0.78 | 0.78 |
| Chloroethane | 1.3 | U | 1.3 | 1.3 |
| Bromoethene(Vinyl Bromide) | 0.87 | U | 0.87 | 0.87 |
| Trichlorofluoromethane | 17 | | 1.1 | 1.1 |
| 1,1-Dichloroethene | 0.79 | U | 0.79 | 0.79 |
| 3-Chloropropene | 1.6 | U | 1.6 | 1.6 |
| Freon TF | 1.5 | U | 1.5 | 1.5 |
| Methylene Chloride | 1.7 | U | 1.7 | 1.7 |
| Methyl tert-butyl ether | 0.72 | U | 0.72 | 0.72 |
| Acetone | 740 | E | 12 | 12 |
| trans-1,2-Dichloroethene | 0.79 | U | 0.79 | 0.79 |
| n-Hexane | 5.6 | | 0.70 | 0.70 |
| 1,1-Dichloroethane | 0.81 | U | 0.81 | 0.81 |
| Carbon disulfide | 1.6 | U | 1.6 | 1.6 |
| cis-1,2-Dichloroethene | 0.79 | U | 0.79 | 0.79 |
| Chloroform | 0.98 | U | 0.98 | 0.98 |
| 1,1,1-Trichloroethane | 4.7 | | 1.1 | 1.1 |
| Cyclohexane | 3.4 | | 0.69 | 0.69 |
| Carbon tetrachloride | 0.51 | | 0.25 | 0.25 |
| Methyl Ethyl Ketone | 45 | | 1.5 | 1.5 |
| Benzene | 2.5 | | 0.64 | 0.64 |
| 1,2-Dichloroethane | 0.81 | U | 0.81 | 0.81 |
| n-Heptane | 11 | | 0.82 | 0.82 |
| Trichloroethene | 0.21 | U | 0.21 | 0.21 |
| 1,2-Dichloropropane | 0.92 | U | 0.92 | 0.92 |
| Bromodichloromethane | 1.3 | U | 1.3 | 1.3 |
| cis-1,3-Dichloropropene | 0.91 | U | 0.91 | 0.91 |
| Toluene | 34 | | 0.75 | 0.75 |
| trans-1,3-Dichloropropene | 0.91 | U | 0.91 | 0.91 |
| 1,1,2-Trichloroethane | 1.1 | U | 1.1 | 1.1 |

Client: O'Brien & Gere Inc of North America

Job Number: 200-20018-1
Sdg Number: 200-20018

**Client Sample ID:** **AMSF-05-IA-120613**

Lab Sample ID: 200-20018-5
Client Matrix: Air

Date Sampled: 12/06/2013 1327
Date Received: 12/11/2013 1130

**TO-15 Volatile Organic Compounds in Ambient Air**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | TO-15 | Analysis Batch: | 200-66552 | Instrument ID: | CHW.i |
| Prep Method: | Summa Canister | Prep Batch: | N/A | Lab File ID: | wakj15.d |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 200 mL |
| Analysis Date: | 12/27/2013 2322 | | | Final Weight/Volume: | 200 mL |
| Prep Date: | 12/27/2013 2322 | | | Injection Volume: | 200 mL |

| Analyte | Result (ug/m3) | Qualifier | RL | RL |
|---|---|---|---|---|
| Tetrachloroethene | 4.4 | | 0.27 | 0.27 |
| Dibromochloromethane | 1.7 | U | 1.7 | 1.7 |
| 1,2-Dibromoethane | 1.5 | U | 1.5 | 1.5 |
| Ethylbenzene | 1.7 | | 0.87 | 0.87 |
| 1,4-Dioxane | 18 | U | 18 | 18 |
| m-Xylene & p-Xylene | 6.3 | | 2.2 | 2.2 |
| o-Xylene | 2.1 | | 0.87 | 0.87 |
| Bromoform | 2.1 | U | 2.1 | 2.1 |
| methyl isobutyl ketone | 2.9 | | 2.0 | 2.0 |
| 1,1,2,2-Tetrachloroethane | 1.4 | U | 1.4 | 1.4 |
| 4-Ethyltoluene | 0.98 | U | 0.98 | 0.98 |
| 1,3,5-Trimethylbenzene | 0.98 | U | 0.98 | 0.98 |
| Methyl Butyl Ketone (2-Hexanone) | 2.0 | U | 2.0 | 2.0 |
| Chlorobenzene | 0.92 | U | 0.92 | 0.92 |
| Styrene | 1.1 | | 0.85 | 0.85 |
| 1,3-Dichlorobenzene | 1.2 | U | 1.2 | 1.2 |
| 1,4-Dichlorobenzene | 1.2 | U | 1.2 | 1.2 |
| 1,2-Dichlorobenzene | 1.2 | U | 1.2 | 1.2 |
| 1,2,4-Trichlorobenzene | 3.7 | U | 3.7 | 3.7 |
| 1,2,3-Trichlorobenzene | 1.5 | U | 1.5 | 1.5 |

Client: O'Brien & Gere Inc of North America

Job Number: 200-20018-1
Sdg Number: 200-20018

**Client Sample ID:** **AMSF-05-SS-120613**

Lab Sample ID: 200-20018-6
Client Matrix: Air

Date Sampled: 12/06/2013 1441
Date Received: 12/11/2013 1130

**TO-15 Volatile Organic Compounds in Ambient Air**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | TO-15 | Analysis Batch: | 200-66552 | Instrument ID: | CHW.i |
| Prep Method: | Summa Canister | Prep Batch: | N/A | Lab File ID: | wakj21.d |
| Dilution: | 107 | | | Initial Weight/Volume: | 30 mL |
| Analysis Date: | 12/28/2013 0423 | | | Final Weight/Volume: | 200 mL |
| Prep Date: | 12/28/2013 0423 | | | Injection Volume: | 200 mL |

| Analyte | Result (ppb v/v) | Qualifier | RL | RL |
|---|---|---|---|---|
| Dichlorodifluoromethane | 54 | U | 54 | 54 |
| 1,2-Dichlorotetrafluoroethane | 21 | U | 21 | 21 |
| Vinyl chloride | 21 | U | 21 | 21 |
| 1,3-Butadiene | 21 | U | 21 | 21 |
| Chloromethane | 54 | U | 54 | 54 |
| Bromomethane | 21 | U | 21 | 21 |
| Chloroethane | 54 | U | 54 | 54 |
| Bromoethene(Vinyl Bromide) | 21 | U | 21 | 21 |
| Trichlorofluoromethane | 21 | U | 21 | 21 |
| 1,1-Dichloroethene | 220 | | 21 | 21 |
| 3-Chloropropene | 54 | U | 54 | 54 |
| Freon TF | 21 | U | 21 | 21 |
| Methylene Chloride | 54 | U | 54 | 54 |
| Methyl tert-butyl ether | 21 | U | 21 | 21 |
| Acetone | 540 | U | 540 | 540 |
| trans-1,2-Dichloroethene | 21 | U | 21 | 21 |
| n-Hexane | 21 | U | 21 | 21 |
| 1,1-Dichloroethane | 84 | | 21 | 21 |
| Carbon disulfide | 54 | U | 54 | 54 |
| cis-1,2-Dichloroethene | 21 | U | 21 | 21 |
| Chloroform | 21 | U | 21 | 21 |
| 1,1,1-Trichloroethane | 4100 | | 21 | 21 |
| Cyclohexane | 21 | U | 21 | 21 |
| Carbon tetrachloride | 21 | U | 21 | 21 |
| Methyl Ethyl Ketone | 54 | U | 54 | 54 |
| Benzene | 21 | U | 21 | 21 |
| 1,2-Dichloroethane | 21 | U | 21 | 21 |
| n-Heptane | 21 | U | 21 | 21 |
| Trichloroethene | 30 | | 21 | 21 |
| 1,2-Dichloropropane | 21 | U | 21 | 21 |
| Bromodichloromethane | 21 | U | 21 | 21 |
| cis-1,3-Dichloropropene | 21 | U | 21 | 21 |
| Toluene | 21 | U | 21 | 21 |
| trans-1,3-Dichloropropene | 21 | U | 21 | 21 |
| 1,1,2-Trichloroethane | 21 | U | 21 | 21 |
| Tetrachloroethene | 410 | | 21 | 21 |
| Dibromochloromethane | 21 | U | 21 | 21 |
| 1,2-Dibromoethane | 21 | U | 21 | 21 |
| Ethylbenzene | 3400 | | 21 | 21 |
| 1,4-Dioxane | 540 | U | 540 | 540 |
| m-Xylene & p-Xylene | 13000 | E | 54 | 54 |
| o-Xylene | 5500 | E | 21 | 21 |
| Bromoform | 21 | U | 21 | 21 |
| methyl isobutyl ketone | 54 | U | 54 | 54 |
| 1,1,2,2-Tetrachloroethane | 21 | U | 21 | 21 |
| 4-Ethyltoluene | 21 | U | 21 | 21 |

Client: O'Brien & Gere Inc of North America

Job Number: 200-20018-1
Sdg Number: 200-20018

**Client Sample ID:** **AMSF-05-SS-120613**

Lab Sample ID: 200-20018-6
Client Matrix: Air

Date Sampled: 12/06/2013 1441
Date Received: 12/11/2013 1130

**TO-15 Volatile Organic Compounds in Ambient Air**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | TO-15 | Analysis Batch: | 200-66552 | Instrument ID: | CHW.i |
| Prep Method: | Summa Canister | Prep Batch: | N/A | Lab File ID: | wakj21.d |
| Dilution: | 107 | | | Initial Weight/Volume: | 30 mL |
| Analysis Date: | 12/28/2013 0423 | | | Final Weight/Volume: | 200 mL |
| Prep Date: | 12/28/2013 0423 | | | Injection Volume: | 200 mL |

| Analyte | Result (ppb v/v) | Qualifier | RL | RL |
|---|---|---|---|---|
| 1,3,5-Trimethylbenzene | 21 | U | 21 | 21 |
| Methyl Butyl Ketone (2-Hexanone) | 54 | U | 54 | 54 |
| Chlorobenzene | 21 | U | 21 | 21 |
| Styrene | 21 | U | 21 | 21 |
| 1,3-Dichlorobenzene | 21 | U | 21 | 21 |
| 1,4-Dichlorobenzene | 21 | U | 21 | 21 |
| 1,2-Dichlorobenzene | 21 | U | 21 | 21 |
| 1,2,4-Trichlorobenzene | 54 | U | 54 | 54 |
| 1,2,3-Trichlorobenzene | 21 | U | 21 | 21 |

| Analyte | Result (ug/m3) | Qualifier | RL | RL |
|---|---|---|---|---|
| Dichlorodifluoromethane | 260 | U | 260 | 260 |
| 1,2-Dichlorotetrafluoroethane | 150 | U | 150 | 150 |
| Vinyl chloride | 55 | U | 55 | 55 |
| 1,3-Butadiene | 47 | U | 47 | 47 |
| Chloromethane | 110 | U | 110 | 110 |
| Bromomethane | 83 | U | 83 | 83 |
| Chloroethane | 140 | U | 140 | 140 |
| Bromoethene(Vinyl Bromide) | 94 | U | 94 | 94 |
| Trichlorofluoromethane | 120 | U | 120 | 120 |
| 1,1-Dichloroethene | 860 | | 85 | 85 |
| 3-Chloropropene | 170 | U | 170 | 170 |
| Freon TF | 160 | U | 160 | 160 |
| Methylene Chloride | 190 | U | 190 | 190 |
| Methyl tert-butyl ether | 77 | U | 77 | 77 |
| Acetone | 1300 | U | 1300 | 1300 |
| trans-1,2-Dichloroethene | 85 | U | 85 | 85 |
| n-Hexane | 75 | U | 75 | 75 |
| 1,1-Dichloroethane | 340 | | 87 | 87 |
| Carbon disulfide | 170 | U | 170 | 170 |
| cis-1,2-Dichloroethene | 85 | U | 85 | 85 |
| Chloroform | 100 | U | 100 | 100 |
| 1,1,1-Trichloroethane | 22000 | | 120 | 120 |
| Cyclohexane | 74 | U | 74 | 74 |
| Carbon tetrachloride | 130 | U | 130 | 130 |
| Methyl Ethyl Ketone | 160 | U | 160 | 160 |
| Benzene | 68 | U | 68 | 68 |
| 1,2-Dichloroethane | 87 | U | 87 | 87 |
| n-Heptane | 88 | U | 88 | 88 |
| Trichloroethene | 160 | | 110 | 110 |
| 1,2-Dichloropropane | 99 | U | 99 | 99 |
| Bromodichloromethane | 140 | U | 140 | 140 |
| cis-1,3-Dichloropropene | 97 | U | 97 | 97 |
| Toluene | 81 | U | 81 | 81 |
| trans-1,3-Dichloropropene | 97 | U | 97 | 97 |
| 1,1,2-Trichloroethane | 120 | U | 120 | 120 |

Client: O'Brien & Gere Inc of North America

Job Number: 200-20018-1
Sdg Number: 200-20018

**Client Sample ID:** **AMSF-05-SS-120613**

Lab Sample ID: 200-20018-6
Client Matrix: Air

Date Sampled: 12/06/2013 1441
Date Received: 12/11/2013 1130

**TO-15 Volatile Organic Compounds in Ambient Air**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | TO-15 | Analysis Batch: | 200-66552 | Instrument ID: | CHW.i |
| Prep Method: | Summa Canister | Prep Batch: | N/A | Lab File ID: | wakj21.d |
| Dilution: | 107 | | | Initial Weight/Volume: | 30 mL |
| Analysis Date: | 12/28/2013 0423 | | | Final Weight/Volume: | 200 mL |
| Prep Date: | 12/28/2013 0423 | | | Injection Volume: | 200 mL |

| Analyte | Result (ug/m3) | Qualifier | RL | RL |
|---|---|---|---|---|
| Tetrachloroethene | 2800 | | 150 | 150 |
| Dibromochloromethane | 180 | U | 180 | 180 |
| 1,2-Dibromoethane | 160 | U | 160 | 160 |
| Ethylbenzene | 15000 | | 93 | 93 |
| 1,4-Dioxane | 1900 | U | 1900 | 1900 |
| m-Xylene & p-Xylene | 55000 | E | 230 | 230 |
| o-Xylene | 24000 | E | 93 | 93 |
| Bromoform | 220 | U | 220 | 220 |
| methyl isobutyl ketone | 220 | U | 220 | 220 |
| 1,1,2,2-Tetrachloroethane | 150 | U | 150 | 150 |
| 4-Ethyltoluene | 110 | U | 110 | 110 |
| 1,3,5-Trimethylbenzene | 110 | U | 110 | 110 |
| Methyl Butyl Ketone (2-Hexanone) | 220 | U | 220 | 220 |
| Chlorobenzene | 99 | U | 99 | 99 |
| Styrene | 91 | U | 91 | 91 |
| 1,3-Dichlorobenzene | 130 | U | 130 | 130 |
| 1,4-Dichlorobenzene | 130 | U | 130 | 130 |
| 1,2-Dichlorobenzene | 130 | U | 130 | 130 |
| 1,2,4-Trichlorobenzene | 400 | U | 400 | 400 |
| 1,2,3-Trichlorobenzene | 160 | U | 160 | 160 |

Client: O'Brien & Gere Inc of North America

Job Number: 200-20018-1
Sdg Number: 200-20018

**Client Sample ID:** **AMSF-05-SSD-120613**

Lab Sample ID: 200-20018-7
Client Matrix: Air

Date Sampled: 12/06/2013 1441
Date Received: 12/11/2013 1130

**TO-15 Volatile Organic Compounds in Ambient Air**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | TO-15 | Analysis Batch: | 200-66552 | Instrument ID: | CHW.i |
| Prep Method: | Summa Canister | Prep Batch: | N/A | Lab File ID: | wakj22.d |
| Dilution: | 102 | | | Initial Weight/Volume: | 28 mL |
| Analysis Date: | 12/28/2013 0511 | | | Final Weight/Volume: | 200 mL |
| Prep Date: | 12/28/2013 0511 | | | Injection Volume: | 200 mL |

| Analyte | Result (ppb v/v) | Qualifier | RL | RL |
|---|---|---|---|---|
| Dichlorodifluoromethane | 51 | U | 51 | 51 |
| 1,2-Dichlorotetrafluoroethane | 20 | U | 20 | 20 |
| Vinyl chloride | 20 | U | 20 | 20 |
| 1,3-Butadiene | 20 | U | 20 | 20 |
| Chloromethane | 51 | U | 51 | 51 |
| Bromomethane | 20 | U | 20 | 20 |
| Chloroethane | 51 | U | 51 | 51 |
| Bromoethene(Vinyl Bromide) | 20 | U | 20 | 20 |
| Trichlorofluoromethane | 20 | U | 20 | 20 |
| 1,1-Dichloroethene | 160 | | 20 | 20 |
| 3-Chloropropene | 51 | U | 51 | 51 |
| Freon TF | 20 | U | 20 | 20 |
| Methylene Chloride | 51 | U | 51 | 51 |
| Methyl tert-butyl ether | 20 | U | 20 | 20 |
| Acetone | 510 | U | 510 | 510 |
| trans-1,2-Dichloroethene | 20 | U | 20 | 20 |
| n-Hexane | 20 | U | 20 | 20 |
| 1,1-Dichloroethane | 63 | | 20 | 20 |
| Carbon disulfide | 51 | U | 51 | 51 |
| cis-1,2-Dichloroethene | 20 | U | 20 | 20 |
| Chloroform | 20 | U | 20 | 20 |
| 1,1,1-Trichloroethane | 3100 | | 20 | 20 |
| Cyclohexane | 20 | U | 20 | 20 |
| Carbon tetrachloride | 20 | U | 20 | 20 |
| Methyl Ethyl Ketone | 51 | U | 51 | 51 |
| Benzene | 20 | U | 20 | 20 |
| 1,2-Dichloroethane | 20 | U | 20 | 20 |
| n-Heptane | 20 | U | 20 | 20 |
| Trichloroethene | 22 | | 20 | 20 |
| 1,2-Dichloropropane | 20 | U | 20 | 20 |
| Bromodichloromethane | 20 | U | 20 | 20 |
| cis-1,3-Dichloropropene | 20 | U | 20 | 20 |
| Toluene | 20 | U | 20 | 20 |
| trans-1,3-Dichloropropene | 20 | U | 20 | 20 |
| 1,1,2-Trichloroethane | 20 | U | 20 | 20 |
| Tetrachloroethene | 310 | | 20 | 20 |
| Dibromochloromethane | 20 | U | 20 | 20 |
| 1,2-Dibromoethane | 20 | U | 20 | 20 |
| Ethylbenzene | 2100 | | 20 | 20 |
| 1,4-Dioxane | 510 | U | 510 | 510 |
| m-Xylene & p-Xylene | 8500 | E | 51 | 51 |
| o-Xylene | 3700 | | 20 | 20 |
| Bromoform | 20 | U | 20 | 20 |
| methyl isobutyl ketone | 51 | U | 51 | 51 |
| 1,1,2,2-Tetrachloroethane | 20 | U | 20 | 20 |
| 4-Ethyltoluene | 20 | U | 20 | 20 |

Client: O'Brien & Gere Inc of North America

Job Number: 200-20018-1
Sdg Number: 200-20018

**Client Sample ID:** **AMSF-05-SSD-120613**

Lab Sample ID: 200-20018-7
Client Matrix: Air

Date Sampled: 12/06/2013 1441
Date Received: 12/11/2013 1130

**TO-15 Volatile Organic Compounds in Ambient Air**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | TO-15 | Analysis Batch: | 200-66552 | Instrument ID: | CHW.i |
| Prep Method: | Summa Canister | Prep Batch: | N/A | Lab File ID: | wakj22.d |
| Dilution: | 102 | | | Initial Weight/Volume: | 28 mL |
| Analysis Date: | 12/28/2013 0511 | | | Final Weight/Volume: | 200 mL |
| Prep Date: | 12/28/2013 0511 | | | Injection Volume: | 200 mL |

| Analyte | Result (ppb v/v) | Qualifier | RL | RL |
|---|---|---|---|---|
| 1,3,5-Trimethylbenzene | 20 | U | 20 | 20 |
| Methyl Butyl Ketone (2-Hexanone) | 51 | U | 51 | 51 |
| Chlorobenzene | 20 | U | 20 | 20 |
| Styrene | 150 | | 20 | 20 |
| 1,3-Dichlorobenzene | 20 | U | 20 | 20 |
| 1,4-Dichlorobenzene | 20 | U | 20 | 20 |
| 1,2-Dichlorobenzene | 20 | U | 20 | 20 |
| 1,2,4-Trichlorobenzene | 51 | U | 51 | 51 |
| 1,2,3-Trichlorobenzene | 20 | U | 20 | 20 |

| Analyte | Result (ug/m3) | Qualifier | RL | RL |
|---|---|---|---|---|
| Dichlorodifluoromethane | 250 | U | 250 | 250 |
| 1,2-Dichlorotetrafluoroethane | 140 | U | 140 | 140 |
| Vinyl chloride | 52 | U | 52 | 52 |
| 1,3-Butadiene | 45 | U | 45 | 45 |
| Chloromethane | 110 | U | 110 | 110 |
| Bromomethane | 79 | U | 79 | 79 |
| Chloroethane | 130 | U | 130 | 130 |
| Bromoethene(Vinyl Bromide) | 89 | U | 89 | 89 |
| Trichlorofluoromethane | 110 | U | 110 | 110 |
| 1,1-Dichloroethene | 650 | | 81 | 81 |
| 3-Chloropropene | 160 | U | 160 | 160 |
| Freon TF | 160 | U | 160 | 160 |
| Methylene Chloride | 180 | U | 180 | 180 |
| Methyl tert-butyl ether | 74 | U | 74 | 74 |
| Acetone | 1200 | U | 1200 | 1200 |
| trans-1,2-Dichloroethene | 81 | U | 81 | 81 |
| n-Hexane | 72 | U | 72 | 72 |
| 1,1-Dichloroethane | 260 | | 83 | 83 |
| Carbon disulfide | 160 | U | 160 | 160 |
| cis-1,2-Dichloroethene | 81 | U | 81 | 81 |
| Chloroform | 100 | U | 100 | 100 |
| 1,1,1-Trichloroethane | 17000 | | 110 | 110 |
| Cyclohexane | 70 | U | 70 | 70 |
| Carbon tetrachloride | 130 | U | 130 | 130 |
| Methyl Ethyl Ketone | 150 | U | 150 | 150 |
| Benzene | 65 | U | 65 | 65 |
| 1,2-Dichloroethane | 83 | U | 83 | 83 |
| n-Heptane | 84 | U | 84 | 84 |
| Trichloroethene | 120 | | 110 | 110 |
| 1,2-Dichloropropane | 94 | U | 94 | 94 |
| Bromodichloromethane | 140 | U | 140 | 140 |
| cis-1,3-Dichloropropene | 93 | U | 93 | 93 |
| Toluene | 77 | U | 77 | 77 |
| trans-1,3-Dichloropropene | 93 | U | 93 | 93 |
| 1,1,2-Trichloroethane | 110 | U | 110 | 110 |

Client: O'Brien & Gere Inc of North America

Job Number: 200-20018-1
Sdg Number: 200-20018

**Client Sample ID:** **AMSF-05-SSD-120613**

Lab Sample ID: 200-20018-7
Client Matrix: Air

Date Sampled: 12/06/2013 1441
Date Received: 12/11/2013 1130

**TO-15 Volatile Organic Compounds in Ambient Air**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | TO-15 | Analysis Batch: | 200-66552 | Instrument ID: | CHW.i |
| Prep Method: | Summa Canister | Prep Batch: | N/A | Lab File ID: | wakj22.d |
| Dilution: | 102 | | | Initial Weight/Volume: | 28 mL |
| Analysis Date: | 12/28/2013 0511 | | | Final Weight/Volume: | 200 mL |
| Prep Date: | 12/28/2013 0511 | | | Injection Volume: | 200 mL |

| Analyte | Result (ug/m3) | Qualifier | RL | RL |
|---|---|---|---|---|
| Tetrachloroethene | 2100 | | 140 | 140 |
| Dibromochloromethane | 170 | U | 170 | 170 |
| 1,2-Dibromoethane | 160 | U | 160 | 160 |
| Ethylbenzene | 9200 | | 89 | 89 |
| 1,4-Dioxane | 1800 | U | 1800 | 1800 |
| m-Xylene & p-Xylene | 37000 | E | 220 | 220 |
| o-Xylene | 16000 | | 89 | 89 |
| Bromoform | 210 | U | 210 | 210 |
| methyl isobutyl ketone | 210 | U | 210 | 210 |
| 1,1,2,2-Tetrachloroethane | 140 | U | 140 | 140 |
| 4-Ethyltoluene | 100 | U | 100 | 100 |
| 1,3,5-Trimethylbenzene | 100 | U | 100 | 100 |
| Methyl Butyl Ketone (2-Hexanone) | 210 | U | 210 | 210 |
| Chlorobenzene | 94 | U | 94 | 94 |
| Styrene | 630 | | 87 | 87 |
| 1,3-Dichlorobenzene | 120 | U | 120 | 120 |
| 1,4-Dichlorobenzene | 120 | U | 120 | 120 |
| 1,2-Dichlorobenzene | 120 | U | 120 | 120 |
| 1,2,4-Trichlorobenzene | 380 | U | 380 | 380 |
| 1,2,3-Trichlorobenzene | 150 | U | 150 | 150 |

Client: O'Brien & Gere Inc of North America

Job Number: 200-20018-1
Sdg Number: 200-20018

**Client Sample ID:** **AMSF-06-IA-120613**

Lab Sample ID: 200-20018-8
Client Matrix: Air

Date Sampled: 12/06/2013 1414
Date Received: 12/11/2013 1130

**TO-15 Volatile Organic Compounds in Ambient Air**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | TO-15 | Analysis Batch: | 200-66552 | Instrument ID: | CHW.i |
| Prep Method: | Summa Canister | Prep Batch: | N/A | Lab File ID: | wakj16.d |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 200 mL |
| Analysis Date: | 12/28/2013 0014 | | | Final Weight/Volume: | 200 mL |
| Prep Date: | 12/28/2013 0014 | | | Injection Volume: | 200 mL |

| Analyte | Result (ppb v/v) | Qualifier | RL | RL |
|---|---|---|---|---|
| Dichlorodifluoromethane | 0.69 | | 0.50 | 0.50 |
| 1,2-Dichlorotetrafluoroethane | 0.20 | U | 0.20 | 0.20 |
| Vinyl chloride | 0.040 | U | 0.040 | 0.040 |
| 1,3-Butadiene | 0.20 | U | 0.20 | 0.20 |
| Chloromethane | 0.68 | | 0.50 | 0.50 |
| Bromomethane | 0.20 | U | 0.20 | 0.20 |
| Chloroethane | 0.50 | U | 0.50 | 0.50 |
| Bromoethene(Vinyl Bromide) | 0.20 | U | 0.20 | 0.20 |
| Trichlorofluoromethane | 3.5 | | 0.20 | 0.20 |
| 1,1-Dichloroethene | 0.21 | | 0.20 | 0.20 |
| 3-Chloropropene | 0.50 | U | 0.50 | 0.50 |
| Freon TF | 0.20 | U | 0.20 | 0.20 |
| Methylene Chloride | 0.66 | | 0.50 | 0.50 |
| Methyl tert-butyl ether | 0.20 | U | 0.20 | 0.20 |
| Acetone | 560 | E | 5.0 | 5.0 |
| trans-1,2-Dichloroethene | 0.20 | U | 0.20 | 0.20 |
| n-Hexane | 4.6 | | 0.20 | 0.20 |
| 1,1-Dichloroethane | 0.20 | U | 0.20 | 0.20 |
| Carbon disulfide | 0.50 | U | 0.50 | 0.50 |
| cis-1,2-Dichloroethene | 0.20 | U | 0.20 | 0.20 |
| Chloroform | 0.20 | U | 0.20 | 0.20 |
| 1,1,1-Trichloroethane | 1.7 | | 0.20 | 0.20 |
| Cyclohexane | 2.4 | | 0.20 | 0.20 |
| Carbon tetrachloride | 0.081 | | 0.040 | 0.040 |
| Methyl Ethyl Ketone | 30 | | 0.50 | 0.50 |
| Benzene | 1.5 | | 0.20 | 0.20 |
| 1,2-Dichloroethane | 0.20 | U | 0.20 | 0.20 |
| n-Heptane | 3.8 | | 0.20 | 0.20 |
| Trichloroethene | 0.073 | | 0.040 | 0.040 |
| 1,2-Dichloropropane | 0.20 | U | 0.20 | 0.20 |
| Bromodichloromethane | 0.20 | U | 0.20 | 0.20 |
| cis-1,3-Dichloropropene | 0.20 | U | 0.20 | 0.20 |
| Toluene | 11 | | 0.20 | 0.20 |
| trans-1,3-Dichloropropene | 0.20 | U | 0.20 | 0.20 |
| 1,1,2-Trichloroethane | 0.20 | U | 0.20 | 0.20 |
| Tetrachloroethene | 1.4 | | 0.040 | 0.040 |
| Dibromochloromethane | 0.20 | U | 0.20 | 0.20 |
| 1,2-Dibromoethane | 0.20 | U | 0.20 | 0.20 |
| Ethylbenzene | 0.62 | | 0.20 | 0.20 |
| 1,4-Dioxane | 5.0 | U | 5.0 | 5.0 |
| m-Xylene & p-Xylene | 2.5 | | 0.50 | 0.50 |
| o-Xylene | 0.86 | | 0.20 | 0.20 |
| Bromoform | 0.20 | U | 0.20 | 0.20 |
| methyl isobutyl ketone | 0.74 | | 0.50 | 0.50 |
| 1,1,2,2-Tetrachloroethane | 0.20 | U | 0.20 | 0.20 |
| 4-Ethyltoluene | 0.20 | | 0.20 | 0.20 |

Client: O'Brien & Gere Inc of North America

Job Number: 200-20018-1
Sdg Number: 200-20018

**Client Sample ID:** **AMSF-06-IA-120613**

Lab Sample ID: 200-20018-8
Client Matrix: Air

Date Sampled: 12/06/2013 1414
Date Received: 12/11/2013 1130

**TO-15 Volatile Organic Compounds in Ambient Air**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | TO-15 | Analysis Batch: | 200-66552 | Instrument ID: | CHW.i |
| Prep Method: | Summa Canister | Prep Batch: | N/A | Lab File ID: | wakj16.d |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 200 mL |
| Analysis Date: | 12/28/2013 0014 | | | Final Weight/Volume: | 200 mL |
| Prep Date: | 12/28/2013 0014 | | | Injection Volume: | 200 mL |

| Analyte | Result (ppb v/v) | Qualifier | RL | RL |
|---|---|---|---|---|
| 1,3,5-Trimethylbenzene | 0.23 | | 0.20 | 0.20 |
| Methyl Butyl Ketone (2-Hexanone) | 0.50 | U | 0.50 | 0.50 |
| Chlorobenzene | 0.20 | U | 0.20 | 0.20 |
| Styrene | 0.20 | | 0.20 | 0.20 |
| 1,3-Dichlorobenzene | 0.20 | U | 0.20 | 0.20 |
| 1,4-Dichlorobenzene | 0.20 | U | 0.20 | 0.20 |
| 1,2-Dichlorobenzene | 0.20 | U | 0.20 | 0.20 |
| 1,2,4-Trichlorobenzene | 0.50 | U | 0.50 | 0.50 |
| 1,2,3-Trichlorobenzene | 0.20 | U | 0.20 | 0.20 |

| Analyte | Result (ug/m3) | Qualifier | RL | RL |
|---|---|---|---|---|
| Dichlorodifluoromethane | 3.4 | | 2.5 | 2.5 |
| 1,2-Dichlorotetrafluoroethane | 1.4 | U | 1.4 | 1.4 |
| Vinyl chloride | 0.10 | U | 0.10 | 0.10 |
| 1,3-Butadiene | 0.44 | U | 0.44 | 0.44 |
| Chloromethane | 1.4 | | 1.0 | 1.0 |
| Bromomethane | 0.78 | U | 0.78 | 0.78 |
| Chloroethane | 1.3 | U | 1.3 | 1.3 |
| Bromoethene(Vinyl Bromide) | 0.87 | U | 0.87 | 0.87 |
| Trichlorofluoromethane | 20 | | 1.1 | 1.1 |
| 1,1-Dichloroethene | 0.85 | | 0.79 | 0.79 |
| 3-Chloropropene | 1.6 | U | 1.6 | 1.6 |
| Freon TF | 1.5 | U | 1.5 | 1.5 |
| Methylene Chloride | 2.3 | | 1.7 | 1.7 |
| Methyl tert-butyl ether | 0.72 | U | 0.72 | 0.72 |
| Acetone | 1300 | E | 12 | 12 |
| trans-1,2-Dichloroethene | 0.79 | U | 0.79 | 0.79 |
| n-Hexane | 16 | | 0.70 | 0.70 |
| 1,1-Dichloroethane | 0.81 | U | 0.81 | 0.81 |
| Carbon disulfide | 1.6 | U | 1.6 | 1.6 |
| cis-1,2-Dichloroethene | 0.79 | U | 0.79 | 0.79 |
| Chloroform | 0.98 | U | 0.98 | 0.98 |
| 1,1,1-Trichloroethane | 9.1 | | 1.1 | 1.1 |
| Cyclohexane | 8.4 | | 0.69 | 0.69 |
| Carbon tetrachloride | 0.51 | | 0.25 | 0.25 |
| Methyl Ethyl Ketone | 89 | | 1.5 | 1.5 |
| Benzene | 4.8 | | 0.64 | 0.64 |
| 1,2-Dichloroethane | 0.81 | U | 0.81 | 0.81 |
| n-Heptane | 16 | | 0.82 | 0.82 |
| Trichloroethene | 0.39 | | 0.21 | 0.21 |
| 1,2-Dichloropropane | 0.92 | U | 0.92 | 0.92 |
| Bromodichloromethane | 1.3 | U | 1.3 | 1.3 |
| cis-1,3-Dichloropropene | 0.91 | U | 0.91 | 0.91 |
| Toluene | 42 | | 0.75 | 0.75 |
| trans-1,3-Dichloropropene | 0.91 | U | 0.91 | 0.91 |
| 1,1,2-Trichloroethane | 1.1 | U | 1.1 | 1.1 |

Client: O'Brien & Gere Inc of North America

Job Number: 200-20018-1
Sdg Number: 200-20018

**Client Sample ID:** **AMSF-06-IA-120613**

Lab Sample ID: 200-20018-8
Client Matrix: Air

Date Sampled: 12/06/2013 1414
Date Received: 12/11/2013 1130

**TO-15 Volatile Organic Compounds in Ambient Air**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | TO-15 | Analysis Batch: | 200-66552 | Instrument ID: | CHW.i |
| Prep Method: | Summa Canister | Prep Batch: | N/A | Lab File ID: | wakj16.d |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 200 mL |
| Analysis Date: | 12/28/2013 0014 | | | Final Weight/Volume: | 200 mL |
| Prep Date: | 12/28/2013 0014 | | | Injection Volume: | 200 mL |

| Analyte | Result (ug/m3) | Qualifier | RL | RL |
|---|---|---|---|---|
| Tetrachloroethene | 9.8 | | 0.27 | 0.27 |
| Dibromochloromethane | 1.7 | U | 1.7 | 1.7 |
| 1,2-Dibromoethane | 1.5 | U | 1.5 | 1.5 |
| Ethylbenzene | 2.7 | | 0.87 | 0.87 |
| 1,4-Dioxane | 18 | U | 18 | 18 |
| m-Xylene & p-Xylene | 11 | | 2.2 | 2.2 |
| o-Xylene | 3.8 | | 0.87 | 0.87 |
| Bromoform | 2.1 | U | 2.1 | 2.1 |
| methyl isobutyl ketone | 3.0 | | 2.0 | 2.0 |
| 1,1,2,2-Tetrachloroethane | 1.4 | U | 1.4 | 1.4 |
| 4-Ethyltoluene | 0.98 | | 0.98 | 0.98 |
| 1,3,5-Trimethylbenzene | 1.1 | | 0.98 | 0.98 |
| Methyl Butyl Ketone (2-Hexanone) | 2.0 | U | 2.0 | 2.0 |
| Chlorobenzene | 0.92 | U | 0.92 | 0.92 |
| Styrene | 0.85 | | 0.85 | 0.85 |
| 1,3-Dichlorobenzene | 1.2 | U | 1.2 | 1.2 |
| 1,4-Dichlorobenzene | 1.2 | U | 1.2 | 1.2 |
| 1,2-Dichlorobenzene | 1.2 | U | 1.2 | 1.2 |
| 1,2,4-Trichlorobenzene | 3.7 | U | 3.7 | 3.7 |
| 1,2,3-Trichlorobenzene | 1.5 | U | 1.5 | 1.5 |

Client: O'Brien & Gere Inc of North America

Job Number: 200-20018-1
Sdg Number: 200-20018

**Client Sample ID:** **AMSF-06-SS-120613**

Lab Sample ID: 200-20018-9
Client Matrix: Air

Date Sampled: 12/06/2013 1414
Date Received: 12/11/2013 1130

**TO-15 Volatile Organic Compounds in Ambient Air**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | TO-15 | Analysis Batch: | 200-66552 | Instrument ID: | CHW.i |
| Prep Method: | Summa Canister | Prep Batch: | N/A | Lab File ID: | wakj23.d |
| Dilution: | 20.4 | | | Initial Weight/Volume: | 27 mL |
| Analysis Date: | 12/28/2013 0559 | | | Final Weight/Volume: | 200 mL |
| Prep Date: | 12/28/2013 0559 | | | Injection Volume: | 200 mL |

| Analyte | Result (ppb v/v) | Qualifier | RL | RL |
|---|---|---|---|---|
| Dichlorodifluoromethane | 10 | U | 10 | 10 |
| 1,2-Dichlorotetrafluoroethane | 4.1 | U | 4.1 | 4.1 |
| Vinyl chloride | 4.1 | U | 4.1 | 4.1 |
| 1,3-Butadiene | 4.1 | U | 4.1 | 4.1 |
| Chloromethane | 10 | U | 10 | 10 |
| Bromomethane | 4.1 | U | 4.1 | 4.1 |
| Chloroethane | 10 | U | 10 | 10 |
| Bromoethene(Vinyl Bromide) | 4.1 | U | 4.1 | 4.1 |
| Trichlorofluoromethane | 19 | | 4.1 | 4.1 |
| 1,1-Dichloroethene | 4.1 | U | 4.1 | 4.1 |
| 3-Chloropropene | 10 | U | 10 | 10 |
| Freon TF | 4.1 | U | 4.1 | 4.1 |
| Methylene Chloride | 10 | U | 10 | 10 |
| Methyl tert-butyl ether | 4.1 | U | 4.1 | 4.1 |
| Acetone | 100 | U | 100 | 100 |
| trans-1,2-Dichloroethene | 4.1 | U | 4.1 | 4.1 |
| n-Hexane | 4.1 | U | 4.1 | 4.1 |
| 1,1-Dichloroethane | 4.1 | U | 4.1 | 4.1 |
| Carbon disulfide | 24 | | 10 | 10 |
| cis-1,2-Dichloroethene | 4.1 | U | 4.1 | 4.1 |
| Chloroform | 4.1 | U | 4.1 | 4.1 |
| 1,1,1-Trichloroethane | 690 | | 4.1 | 4.1 |
| Cyclohexane | 4.1 | U | 4.1 | 4.1 |
| Carbon tetrachloride | 4.1 | U | 4.1 | 4.1 |
| Methyl Ethyl Ketone | 10 | U | 10 | 10 |
| Benzene | 4.1 | U | 4.1 | 4.1 |
| 1,2-Dichloroethane | 4.1 | U | 4.1 | 4.1 |
| n-Heptane | 4.1 | U | 4.1 | 4.1 |
| Trichloroethene | 4.1 | U | 4.1 | 4.1 |
| 1,2-Dichloropropane | 4.1 | U | 4.1 | 4.1 |
| Bromodichloromethane | 4.1 | U | 4.1 | 4.1 |
| cis-1,3-Dichloropropene | 4.1 | U | 4.1 | 4.1 |
| Toluene | 6.0 | | 4.1 | 4.1 |
| trans-1,3-Dichloropropene | 4.1 | U | 4.1 | 4.1 |
| 1,1,2-Trichloroethane | 4.1 | U | 4.1 | 4.1 |
| Tetrachloroethene | 120 | | 4.1 | 4.1 |
| Dibromochloromethane | 4.1 | U | 4.1 | 4.1 |
| 1,2-Dibromoethane | 4.1 | U | 4.1 | 4.1 |
| Ethylbenzene | 1500 | E | 4.1 | 4.1 |
| 1,4-Dioxane | 100 | U | 100 | 100 |
| m-Xylene & p-Xylene | 4200 | E | 10 | 10 |
| o-Xylene | 1500 | E | 4.1 | 4.1 |
| Bromoform | 4.1 | U | 4.1 | 4.1 |
| methyl isobutyl ketone | 10 | U | 10 | 10 |
| 1,1,2,2-Tetrachloroethane | 4.1 | U | 4.1 | 4.1 |
| 4-Ethyltoluene | 4.1 | U | 4.1 | 4.1 |

Client: O'Brien & Gere Inc of North America

Job Number: 200-20018-1
Sdg Number: 200-20018

**Client Sample ID:** **AMSF-06-SS-120613**

Lab Sample ID: 200-20018-9
Client Matrix: Air

Date Sampled: 12/06/2013 1414
Date Received: 12/11/2013 1130

**TO-15 Volatile Organic Compounds in Ambient Air**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | TO-15 | Analysis Batch: | 200-66552 | Instrument ID: | CHW.i |
| Prep Method: | Summa Canister | Prep Batch: | N/A | Lab File ID: | wakj23.d |
| Dilution: | 20.4 | | | Initial Weight/Volume: | 27 mL |
| Analysis Date: | 12/28/2013 0559 | | | Final Weight/Volume: | 200 mL |
| Prep Date: | 12/28/2013 0559 | | | Injection Volume: | 200 mL |

| Analyte | Result (ppb v/v) | Qualifier | RL | RL |
|---|---|---|---|---|
| 1,3,5-Trimethylbenzene | 4.1 | U | 4.1 | 4.1 |
| Methyl Butyl Ketone (2-Hexanone) | 10 | U | 10 | 10 |
| Chlorobenzene | 4.1 | U | 4.1 | 4.1 |
| Styrene | 4.1 | U | 4.1 | 4.1 |
| 1,3-Dichlorobenzene | 4.1 | U | 4.1 | 4.1 |
| 1,4-Dichlorobenzene | 4.1 | U | 4.1 | 4.1 |
| 1,2-Dichlorobenzene | 4.1 | U | 4.1 | 4.1 |
| 1,2,4-Trichlorobenzene | 10 | U | 10 | 10 |
| 1,2,3-Trichlorobenzene | 4.1 | U | 4.1 | 4.1 |

| Analyte | Result (ug/m3) | Qualifier | RL | RL |
|---|---|---|---|---|
| Dichlorodifluoromethane | 50 | U | 50 | 50 |
| 1,2-Dichlorotetrafluoroethane | 29 | U | 29 | 29 |
| Vinyl chloride | 10 | U | 10 | 10 |
| 1,3-Butadiene | 9.0 | U | 9.0 | 9.0 |
| Chloromethane | 21 | U | 21 | 21 |
| Bromomethane | 16 | U | 16 | 16 |
| Chloroethane | 27 | U | 27 | 27 |
| Bromoethene(Vinyl Bromide) | 18 | U | 18 | 18 |
| Trichlorofluoromethane | 110 | | 23 | 23 |
| 1,1-Dichloroethene | 16 | U | 16 | 16 |
| 3-Chloropropene | 32 | U | 32 | 32 |
| Freon TF | 31 | U | 31 | 31 |
| Methylene Chloride | 35 | U | 35 | 35 |
| Methyl tert-butyl ether | 15 | U | 15 | 15 |
| Acetone | 240 | U | 240 | 240 |
| trans-1,2-Dichloroethene | 16 | U | 16 | 16 |
| n-Hexane | 14 | U | 14 | 14 |
| 1,1-Dichloroethane | 17 | U | 17 | 17 |
| Carbon disulfide | 75 | | 32 | 32 |
| cis-1,2-Dichloroethene | 16 | U | 16 | 16 |
| Chloroform | 20 | U | 20 | 20 |
| 1,1,1-Trichloroethane | 3800 | | 22 | 22 |
| Cyclohexane | 14 | U | 14 | 14 |
| Carbon tetrachloride | 26 | U | 26 | 26 |
| Methyl Ethyl Ketone | 30 | U | 30 | 30 |
| Benzene | 13 | U | 13 | 13 |
| 1,2-Dichloroethane | 17 | U | 17 | 17 |
| n-Heptane | 17 | U | 17 | 17 |
| Trichloroethene | 22 | U | 22 | 22 |
| 1,2-Dichloropropane | 19 | U | 19 | 19 |
| Bromodichloromethane | 27 | U | 27 | 27 |
| cis-1,3-Dichloropropene | 19 | U | 19 | 19 |
| Toluene | 23 | | 15 | 15 |
| trans-1,3-Dichloropropene | 19 | U | 19 | 19 |
| 1,1,2-Trichloroethane | 22 | U | 22 | 22 |

Client: O'Brien & Gere Inc of North America

Job Number: 200-20018-1
Sdg Number: 200-20018

**Client Sample ID:** **AMSF-06-SS-120613**

Lab Sample ID: 200-20018-9
Client Matrix: Air

Date Sampled: 12/06/2013 1414
Date Received: 12/11/2013 1130

**TO-15 Volatile Organic Compounds in Ambient Air**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | TO-15 | Analysis Batch: | 200-66552 | Instrument ID: | CHW.i |
| Prep Method: | Summa Canister | Prep Batch: | N/A | Lab File ID: | wakj23.d |
| Dilution: | 20.4 | | | Initial Weight/Volume: | 27 mL |
| Analysis Date: | 12/28/2013 0559 | | | Final Weight/Volume: | 200 mL |
| Prep Date: | 12/28/2013 0559 | | | Injection Volume: | 200 mL |

| Analyte | Result (ug/m3) | Qualifier | RL | RL |
|---|---|---|---|---|
| Tetrachloroethene | 790 | | 28 | 28 |
| Dibromochloromethane | 35 | U | 35 | 35 |
| 1,2-Dibromoethane | 31 | U | 31 | 31 |
| Ethylbenzene | 6300 | E | 18 | 18 |
| 1,4-Dioxane | 370 | U | 370 | 370 |
| m-Xylene & p-Xylene | 18000 | E | 44 | 44 |
| o-Xylene | 6500 | E | 18 | 18 |
| Bromoform | 42 | U | 42 | 42 |
| methyl isobutyl ketone | 42 | U | 42 | 42 |
| 1,1,2,2-Tetrachloroethane | 28 | U | 28 | 28 |
| 4-Ethyltoluene | 20 | U | 20 | 20 |
| 1,3,5-Trimethylbenzene | 20 | U | 20 | 20 |
| Methyl Butyl Ketone (2-Hexanone) | 42 | U | 42 | 42 |
| Chlorobenzene | 19 | U | 19 | 19 |
| Styrene | 17 | U | 17 | 17 |
| 1,3-Dichlorobenzene | 25 | U | 25 | 25 |
| 1,4-Dichlorobenzene | 25 | U | 25 | 25 |
| 1,2-Dichlorobenzene | 25 | U | 25 | 25 |
| 1,2,4-Trichlorobenzene | 76 | U | 76 | 76 |
| 1,2,3-Trichlorobenzene | 30 | U | 30 | 30 |

Client: O'Brien & Gere Inc of North America

Job Number: 200-20018-1
Sdg Number: 200-20018

**Client Sample ID:** **AMSF-24-IA-120613**

Lab Sample ID: 200-20018-10
Client Matrix: Air

Date Sampled: 12/06/2013 1436
Date Received: 12/11/2013 1130

**TO-15 Volatile Organic Compounds in Ambient Air**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | TO-15 | Analysis Batch: | 200-66552 | Instrument ID: | CHW.i |
| Prep Method: | Summa Canister | Prep Batch: | N/A | Lab File ID: | wakj17.d |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 200 mL |
| Analysis Date: | 12/28/2013 0105 | | | Final Weight/Volume: | 200 mL |
| Prep Date: | 12/28/2013 0105 | | | Injection Volume: | 200 mL |

| Analyte | Result (ppb v/v) | Qualifier | RL | RL |
|---|---|---|---|---|
| Dichlorodifluoromethane | 0.50 | U | 0.50 | 0.50 |
| 1,2-Dichlorotetrafluoroethane | 0.20 | U | 0.20 | 0.20 |
| Vinyl chloride | 0.040 | U | 0.040 | 0.040 |
| 1,3-Butadiene | 0.20 | U | 0.20 | 0.20 |
| Chloromethane | 0.54 | | 0.50 | 0.50 |
| Bromomethane | 0.20 | U | 0.20 | 0.20 |
| Chloroethane | 0.50 | U | 0.50 | 0.50 |
| Bromoethene(Vinyl Bromide) | 0.20 | U | 0.20 | 0.20 |
| Trichlorofluoromethane | 2.2 | | 0.20 | 0.20 |
| 1,1-Dichloroethene | 0.20 | U | 0.20 | 0.20 |
| 3-Chloropropene | 0.50 | U | 0.50 | 0.50 |
| Freon TF | 0.20 | U | 0.20 | 0.20 |
| Methylene Chloride | 0.74 | | 0.50 | 0.50 |
| Methyl tert-butyl ether | 0.20 | U | 0.20 | 0.20 |
| Acetone | 230 | E | 5.0 | 5.0 |
| trans-1,2-Dichloroethene | 0.20 | U | 0.20 | 0.20 |
| n-Hexane | 1.2 | | 0.20 | 0.20 |
| 1,1-Dichloroethane | 0.20 | U | 0.20 | 0.20 |
| Carbon disulfide | 0.50 | U | 0.50 | 0.50 |
| cis-1,2-Dichloroethene | 0.20 | U | 0.20 | 0.20 |
| Chloroform | 0.20 | U | 0.20 | 0.20 |
| 1,1,1-Trichloroethane | 0.59 | | 0.20 | 0.20 |
| Cyclohexane | 0.68 | | 0.20 | 0.20 |
| Carbon tetrachloride | 0.078 | | 0.040 | 0.040 |
| Methyl Ethyl Ketone | 10 | | 0.50 | 0.50 |
| Benzene | 0.58 | | 0.20 | 0.20 |
| 1,2-Dichloroethane | 0.20 | U | 0.20 | 0.20 |
| n-Heptane | 1.9 | | 0.20 | 0.20 |
| Trichloroethene | 0.040 | U | 0.040 | 0.040 |
| 1,2-Dichloropropane | 0.20 | U | 0.20 | 0.20 |
| Bromodichloromethane | 0.20 | U | 0.20 | 0.20 |
| cis-1,3-Dichloropropene | 0.20 | U | 0.20 | 0.20 |
| Toluene | 7.8 | | 0.20 | 0.20 |
| trans-1,3-Dichloropropene | 0.20 | U | 0.20 | 0.20 |
| 1,1,2-Trichloroethane | 0.20 | U | 0.20 | 0.20 |
| Tetrachloroethene | 0.54 | | 0.040 | 0.040 |
| Dibromochloromethane | 0.20 | U | 0.20 | 0.20 |
| 1,2-Dibromoethane | 0.20 | U | 0.20 | 0.20 |
| Ethylbenzene | 0.27 | | 0.20 | 0.20 |
| 1,4-Dioxane | 5.0 | U | 5.0 | 5.0 |
| m-Xylene & p-Xylene | 1.0 | | 0.50 | 0.50 |
| o-Xylene | 0.34 | | 0.20 | 0.20 |
| Bromoform | 0.20 | U | 0.20 | 0.20 |
| methyl isobutyl ketone | 0.50 | U | 0.50 | 0.50 |
| 1,1,2,2-Tetrachloroethane | 0.20 | U | 0.20 | 0.20 |
| 4-Ethyltoluene | 0.20 | U | 0.20 | 0.20 |

Client: O'Brien & Gere Inc of North America

Job Number: 200-20018-1
Sdg Number: 200-20018

**Client Sample ID:** **AMSF-24-IA-120613**

Lab Sample ID: 200-20018-10
Client Matrix: Air

Date Sampled: 12/06/2013 1436
Date Received: 12/11/2013 1130

**TO-15 Volatile Organic Compounds in Ambient Air**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | TO-15 | Analysis Batch: | 200-66552 | Instrument ID: | CHW.i |
| Prep Method: | Summa Canister | Prep Batch: | N/A | Lab File ID: | wakj17.d |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 200 mL |
| Analysis Date: | 12/28/2013 0105 | | | Final Weight/Volume: | 200 mL |
| Prep Date: | 12/28/2013 0105 | | | Injection Volume: | 200 mL |

| Analyte | Result (ppb v/v) | Qualifier | RL | RL |
|---|---|---|---|---|
| 1,3,5-Trimethylbenzene | 0.20 | U | 0.20 | 0.20 |
| Methyl Butyl Ketone (2-Hexanone) | 0.50 | U | 0.50 | 0.50 |
| Chlorobenzene | 0.20 | U | 0.20 | 0.20 |
| Styrene | 0.20 | U | 0.20 | 0.20 |
| 1,3-Dichlorobenzene | 0.20 | U | 0.20 | 0.20 |
| 1,4-Dichlorobenzene | 0.20 | U | 0.20 | 0.20 |
| 1,2-Dichlorobenzene | 0.20 | U | 0.20 | 0.20 |
| 1,2,4-Trichlorobenzene | 0.50 | U | 0.50 | 0.50 |
| 1,2,3-Trichlorobenzene | 0.20 | U | 0.20 | 0.20 |

| Analyte | Result (ug/m3) | Qualifier | RL | RL |
|---|---|---|---|---|
| Dichlorodifluoromethane | 2.5 | U | 2.5 | 2.5 |
| 1,2-Dichlorotetrafluoroethane | 1.4 | U | 1.4 | 1.4 |
| Vinyl chloride | 0.10 | U | 0.10 | 0.10 |
| 1,3-Butadiene | 0.44 | U | 0.44 | 0.44 |
| Chloromethane | 1.1 | | 1.0 | 1.0 |
| Bromomethane | 0.78 | U | 0.78 | 0.78 |
| Chloroethane | 1.3 | U | 1.3 | 1.3 |
| Bromoethene(Vinyl Bromide) | 0.87 | U | 0.87 | 0.87 |
| Trichlorofluoromethane | 12 | | 1.1 | 1.1 |
| 1,1-Dichloroethene | 0.79 | U | 0.79 | 0.79 |
| 3-Chloropropene | 1.6 | U | 1.6 | 1.6 |
| Freon TF | 1.5 | U | 1.5 | 1.5 |
| Methylene Chloride | 2.6 | | 1.7 | 1.7 |
| Methyl tert-butyl ether | 0.72 | U | 0.72 | 0.72 |
| Acetone | 550 | E | 12 | 12 |
| trans-1,2-Dichloroethene | 0.79 | U | 0.79 | 0.79 |
| n-Hexane | 4.1 | | 0.70 | 0.70 |
| 1,1-Dichloroethane | 0.81 | U | 0.81 | 0.81 |
| Carbon disulfide | 1.6 | U | 1.6 | 1.6 |
| cis-1,2-Dichloroethene | 0.79 | U | 0.79 | 0.79 |
| Chloroform | 0.98 | U | 0.98 | 0.98 |
| 1,1,1-Trichloroethane | 3.2 | | 1.1 | 1.1 |
| Cyclohexane | 2.4 | | 0.69 | 0.69 |
| Carbon tetrachloride | 0.49 | | 0.25 | 0.25 |
| Methyl Ethyl Ketone | 31 | | 1.5 | 1.5 |
| Benzene | 1.8 | | 0.64 | 0.64 |
| 1,2-Dichloroethane | 0.81 | U | 0.81 | 0.81 |
| n-Heptane | 7.7 | | 0.82 | 0.82 |
| Trichloroethene | 0.21 | U | 0.21 | 0.21 |
| 1,2-Dichloropropane | 0.92 | U | 0.92 | 0.92 |
| Bromodichloromethane | 1.3 | U | 1.3 | 1.3 |
| cis-1,3-Dichloropropene | 0.91 | U | 0.91 | 0.91 |
| Toluene | 29 | | 0.75 | 0.75 |
| trans-1,3-Dichloropropene | 0.91 | U | 0.91 | 0.91 |
| 1,1,2-Trichloroethane | 1.1 | U | 1.1 | 1.1 |

Client: O'Brien & Gere Inc of North America

Job Number: 200-20018-1
Sdg Number: 200-20018

**Client Sample ID:** **AMSF-24-IA-120613**

Lab Sample ID: 200-20018-10
Client Matrix: Air

Date Sampled: 12/06/2013 1436
Date Received: 12/11/2013 1130

**TO-15 Volatile Organic Compounds in Ambient Air**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | TO-15 | Analysis Batch: | 200-66552 | Instrument ID: | CHW.i |
| Prep Method: | Summa Canister | Prep Batch: | N/A | Lab File ID: | wakj17.d |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 200 mL |
| Analysis Date: | 12/28/2013 0105 | | | Final Weight/Volume: | 200 mL |
| Prep Date: | 12/28/2013 0105 | | | Injection Volume: | 200 mL |

| Analyte | Result (ug/m3) | Qualifier | RL | RL |
|---|---|---|---|---|
| Tetrachloroethene | 3.7 | | 0.27 | 0.27 |
| Dibromochloromethane | 1.7 | U | 1.7 | 1.7 |
| 1,2-Dibromoethane | 1.5 | U | 1.5 | 1.5 |
| Ethylbenzene | 1.2 | | 0.87 | 0.87 |
| 1,4-Dioxane | 18 | U | 18 | 18 |
| m-Xylene & p-Xylene | 4.6 | | 2.2 | 2.2 |
| o-Xylene | 1.5 | | 0.87 | 0.87 |
| Bromoform | 2.1 | U | 2.1 | 2.1 |
| methyl isobutyl ketone | 2.0 | U | 2.0 | 2.0 |
| 1,1,2,2-Tetrachloroethane | 1.4 | U | 1.4 | 1.4 |
| 4-Ethyltoluene | 0.98 | U | 0.98 | 0.98 |
| 1,3,5-Trimethylbenzene | 0.98 | U | 0.98 | 0.98 |
| Methyl Butyl Ketone (2-Hexanone) | 2.0 | U | 2.0 | 2.0 |
| Chlorobenzene | 0.92 | U | 0.92 | 0.92 |
| Styrene | 0.85 | U | 0.85 | 0.85 |
| 1,3-Dichlorobenzene | 1.2 | U | 1.2 | 1.2 |
| 1,4-Dichlorobenzene | 1.2 | U | 1.2 | 1.2 |
| 1,2-Dichlorobenzene | 1.2 | U | 1.2 | 1.2 |
| 1,2,4-Trichlorobenzene | 3.7 | U | 3.7 | 3.7 |
| 1,2,3-Trichlorobenzene | 1.5 | U | 1.5 | 1.5 |

Client: O'Brien & Gere Inc of North America

Job Number: 200-20018-1
Sdg Number: 200-20018

**Client Sample ID:** **AMSF-24-SS-120613**

Lab Sample ID: 200-20018-11
Client Matrix: Air

Date Sampled: 12/06/2013 1433
Date Received: 12/11/2013 1130

**TO-15 Volatile Organic Compounds in Ambient Air**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | TO-15 | Analysis Batch: | 200-66552 | Instrument ID: | CHW.i |
| Prep Method: | Summa Canister | Prep Batch: | N/A | Lab File ID: | wakj24.d |
| Dilution: | 10 | | | Initial Weight/Volume: | 20 mL |
| Analysis Date: | 12/28/2013 0648 | | | Final Weight/Volume: | 200 mL |
| Prep Date: | 12/28/2013 0648 | | | Injection Volume: | 200 mL |

| Analyte | Result (ppb v/v) | Qualifier | RL | RL |
|---|---|---|---|---|
| Dichlorodifluoromethane | 5.0 | U | 5.0 | 5.0 |
| 1,2-Dichlorotetrafluoroethane | 2.0 | U | 2.0 | 2.0 |
| Vinyl chloride | 2.0 | U | 2.0 | 2.0 |
| 1,3-Butadiene | 2.0 | U | 2.0 | 2.0 |
| Chloromethane | 5.0 | U | 5.0 | 5.0 |
| Bromomethane | 2.0 | U | 2.0 | 2.0 |
| Chloroethane | 5.0 | U | 5.0 | 5.0 |
| Bromoethene(Vinyl Bromide) | 2.0 | U | 2.0 | 2.0 |
| Trichlorofluoromethane | 8.2 | | 2.0 | 2.0 |
| 1,1-Dichloroethene | 2.0 | U | 2.0 | 2.0 |
| 3-Chloropropene | 5.0 | U | 5.0 | 5.0 |
| Freon TF | 2.0 | U | 2.0 | 2.0 |
| Methylene Chloride | 5.0 | U | 5.0 | 5.0 |
| Methyl tert-butyl ether | 2.0 | U | 2.0 | 2.0 |
| Acetone | 50 | U | 50 | 50 |
| trans-1,2-Dichloroethene | 2.0 | U | 2.0 | 2.0 |
| n-Hexane | 34 | | 2.0 | 2.0 |
| 1,1-Dichloroethane | 2.0 | U | 2.0 | 2.0 |
| Carbon disulfide | 5.0 | U | 5.0 | 5.0 |
| cis-1,2-Dichloroethene | 2.0 | U | 2.0 | 2.0 |
| Chloroform | 2.0 | U | 2.0 | 2.0 |
| 1,1,1-Trichloroethane | 330 | | 2.0 | 2.0 |
| Cyclohexane | 61 | | 2.0 | 2.0 |
| Carbon tetrachloride | 2.0 | U | 2.0 | 2.0 |
| Methyl Ethyl Ketone | 5.0 | U | 5.0 | 5.0 |
| Benzene | 4.5 | | 2.0 | 2.0 |
| 1,2-Dichloroethane | 2.0 | U | 2.0 | 2.0 |
| n-Heptane | 37 | | 2.0 | 2.0 |
| Trichloroethene | 2.0 | U | 2.0 | 2.0 |
| 1,2-Dichloropropane | 2.0 | U | 2.0 | 2.0 |
| Bromodichloromethane | 2.0 | U | 2.0 | 2.0 |
| cis-1,3-Dichloropropene | 2.0 | U | 2.0 | 2.0 |
| Toluene | 10 | | 2.0 | 2.0 |
| trans-1,3-Dichloropropene | 2.0 | U | 2.0 | 2.0 |
| 1,1,2-Trichloroethane | 2.0 | U | 2.0 | 2.0 |
| Tetrachloroethene | 45 | | 2.0 | 2.0 |
| Dibromochloromethane | 2.0 | U | 2.0 | 2.0 |
| 1,2-Dibromoethane | 2.0 | U | 2.0 | 2.0 |
| Ethylbenzene | 6.3 | | 2.0 | 2.0 |
| 1,4-Dioxane | 50 | U | 50 | 50 |
| m-Xylene & p-Xylene | 29 | | 5.0 | 5.0 |
| o-Xylene | 8.2 | | 2.0 | 2.0 |
| Bromoform | 2.0 | U | 2.0 | 2.0 |
| methyl isobutyl ketone | 5.0 | U | 5.0 | 5.0 |
| 1,1,2,2-Tetrachloroethane | 2.0 | U | 2.0 | 2.0 |
| 4-Ethyltoluene | 2.0 | U | 2.0 | 2.0 |

Client: O'Brien & Gere Inc of North America

Job Number: 200-20018-1
Sdg Number: 200-20018

**Client Sample ID:** **AMSF-24-SS-120613**

Lab Sample ID: 200-20018-11
Client Matrix: Air

Date Sampled: 12/06/2013 1433
Date Received: 12/11/2013 1130

**TO-15 Volatile Organic Compounds in Ambient Air**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | TO-15 | Analysis Batch: | 200-66552 | Instrument ID: | CHW.i |
| Prep Method: | Summa Canister | Prep Batch: | N/A | Lab File ID: | wakj24.d |
| Dilution: | 10 | | | Initial Weight/Volume: | 20 mL |
| Analysis Date: | 12/28/2013 0648 | | | Final Weight/Volume: | 200 mL |
| Prep Date: | 12/28/2013 0648 | | | Injection Volume: | 200 mL |

| Analyte | Result (ppb v/v) | Qualifier | RL | RL |
|---|---|---|---|---|
| 1,3,5-Trimethylbenzene | 4.7 | | 2.0 | 2.0 |
| Methyl Butyl Ketone (2-Hexanone) | 5.0 | U | 5.0 | 5.0 |
| Chlorobenzene | 2.0 | U | 2.0 | 2.0 |
| Styrene | 2.0 | U | 2.0 | 2.0 |
| 1,3-Dichlorobenzene | 2.0 | U | 2.0 | 2.0 |
| 1,4-Dichlorobenzene | 2.0 | U | 2.0 | 2.0 |
| 1,2-Dichlorobenzene | 2.0 | U | 2.0 | 2.0 |
| 1,2,4-Trichlorobenzene | 5.0 | U | 5.0 | 5.0 |
| 1,2,3-Trichlorobenzene | 2.0 | U | 2.0 | 2.0 |

| Analyte | Result (ug/m3) | Qualifier | RL | RL |
|---|---|---|---|---|
| Dichlorodifluoromethane | 25 | U | 25 | 25 |
| 1,2-Dichlorotetrafluoroethane | 14 | U | 14 | 14 |
| Vinyl chloride | 5.1 | U | 5.1 | 5.1 |
| 1,3-Butadiene | 4.4 | U | 4.4 | 4.4 |
| Chloromethane | 10 | U | 10 | 10 |
| Bromomethane | 7.8 | U | 7.8 | 7.8 |
| Chloroethane | 13 | U | 13 | 13 |
| Bromoethene(Vinyl Bromide) | 8.7 | U | 8.7 | 8.7 |
| Trichlorofluoromethane | 46 | | 11 | 11 |
| 1,1-Dichloroethene | 7.9 | U | 7.9 | 7.9 |
| 3-Chloropropene | 16 | U | 16 | 16 |
| Freon TF | 15 | U | 15 | 15 |
| Methylene Chloride | 17 | U | 17 | 17 |
| Methyl tert-butyl ether | 7.2 | U | 7.2 | 7.2 |
| Acetone | 120 | U | 120 | 120 |
| trans-1,2-Dichloroethene | 7.9 | U | 7.9 | 7.9 |
| n-Hexane | 120 | | 7.0 | 7.0 |
| 1,1-Dichloroethane | 8.1 | U | 8.1 | 8.1 |
| Carbon disulfide | 16 | U | 16 | 16 |
| cis-1,2-Dichloroethene | 7.9 | U | 7.9 | 7.9 |
| Chloroform | 9.8 | U | 9.8 | 9.8 |
| 1,1,1-Trichloroethane | 1800 | | 11 | 11 |
| Cyclohexane | 210 | | 6.9 | 6.9 |
| Carbon tetrachloride | 13 | U | 13 | 13 |
| Methyl Ethyl Ketone | 15 | U | 15 | 15 |
| Benzene | 14 | | 6.4 | 6.4 |
| 1,2-Dichloroethane | 8.1 | U | 8.1 | 8.1 |
| n-Heptane | 150 | | 8.2 | 8.2 |
| Trichloroethene | 11 | U | 11 | 11 |
| 1,2-Dichloropropane | 9.2 | U | 9.2 | 9.2 |
| Bromodichloromethane | 13 | U | 13 | 13 |
| cis-1,3-Dichloropropene | 9.1 | U | 9.1 | 9.1 |
| Toluene | 38 | | 7.5 | 7.5 |
| trans-1,3-Dichloropropene | 9.1 | U | 9.1 | 9.1 |
| 1,1,2-Trichloroethane | 11 | U | 11 | 11 |

Client: O'Brien & Gere Inc of North America

Job Number: 200-20018-1
Sdg Number: 200-20018

**Client Sample ID:** **AMSF-24-SS-120613**

Lab Sample ID: 200-20018-11
Client Matrix: Air

Date Sampled: 12/06/2013 1433
Date Received: 12/11/2013 1130

**TO-15 Volatile Organic Compounds in Ambient Air**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | TO-15 | Analysis Batch: | 200-66552 | Instrument ID: | CHW.i |
| Prep Method: | Summa Canister | Prep Batch: | N/A | Lab File ID: | wakj24.d |
| Dilution: | 10 | | | Initial Weight/Volume: | 20 mL |
| Analysis Date: | 12/28/2013 0648 | | | Final Weight/Volume: | 200 mL |
| Prep Date: | 12/28/2013 0648 | | | Injection Volume: | 200 mL |

| Analyte | Result (ug/m3) | Qualifier | RL | RL |
|---|---|---|---|---|
| Tetrachloroethene | 300 | | 14 | 14 |
| Dibromochloromethane | 17 | U | 17 | 17 |
| 1,2-Dibromoethane | 15 | U | 15 | 15 |
| Ethylbenzene | 27 | | 8.7 | 8.7 |
| 1,4-Dioxane | 180 | U | 180 | 180 |
| m-Xylene & p-Xylene | 130 | | 22 | 22 |
| o-Xylene | 35 | | 8.7 | 8.7 |
| Bromoform | 21 | U | 21 | 21 |
| methyl isobutyl ketone | 20 | U | 20 | 20 |
| 1,1,2,2-Tetrachloroethane | 14 | U | 14 | 14 |
| 4-Ethyltoluene | 9.8 | U | 9.8 | 9.8 |
| 1,3,5-Trimethylbenzene | 23 | | 9.8 | 9.8 |
| Methyl Butyl Ketone (2-Hexanone) | 20 | U | 20 | 20 |
| Chlorobenzene | 9.2 | U | 9.2 | 9.2 |
| Styrene | 8.5 | U | 8.5 | 8.5 |
| 1,3-Dichlorobenzene | 12 | U | 12 | 12 |
| 1,4-Dichlorobenzene | 12 | U | 12 | 12 |
| 1,2-Dichlorobenzene | 12 | U | 12 | 12 |
| 1,2,4-Trichlorobenzene | 37 | U | 37 | 37 |
| 1,2,3-Trichlorobenzene | 15 | U | 15 | 15 |

Client: O'Brien & Gere Inc of North America

Job Number: 200-20018-1
Sdg Number: 200-20018

**Client Sample ID:** **AMSF-AA-120613**

Lab Sample ID: 200-20018-12
Client Matrix: Air

Date Sampled: 12/06/2013 1450
Date Received: 12/11/2013 1130

**TO-15 Volatile Organic Compounds in Ambient Air**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | TO-15 | Analysis Batch: | 200-66552 | Instrument ID: | CHW.i |
| Prep Method: | Summa Canister | Prep Batch: | N/A | Lab File ID: | wakj18.d |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 200 mL |
| Analysis Date: | 12/28/2013 0156 | | | Final Weight/Volume: | 200 mL |
| Prep Date: | 12/28/2013 0156 | | | Injection Volume: | 200 mL |

| Analyte | Result (ppb v/v) | Qualifier | RL | RL |
|---|---|---|---|---|
| Chloromethane | 0.58 | | 0.50 | 0.50 |
| Freon TF | 0.20 | U | 0.20 | 0.20 |
| Acetone | 5.0 | U | 5.0 | 5.0 |
| Carbon disulfide | 0.50 | U | 0.50 | 0.50 |
| Methyl Ethyl Ketone | 0.50 | U | 0.50 | 0.50 |
| 1,4-Dioxane | 5.0 | U | 5.0 | 5.0 |
| methyl isobutyl ketone | 0.50 | U | 0.50 | 0.50 |
| Methyl Butyl Ketone (2-Hexanone) | 0.50 | U | 0.50 | 0.50 |
| Chlorobenzene | 0.20 | U | 0.20 | 0.20 |
| Styrene | 0.20 | U | 0.20 | 0.20 |
| 1,3-Dichlorobenzene | 0.20 | U | 0.20 | 0.20 |
| 1,4-Dichlorobenzene | 0.20 | U | 0.20 | 0.20 |
| 1,2-Dichlorobenzene | 0.20 | U | 0.20 | 0.20 |
| 1,2,4-Trichlorobenzene | 0.50 | U | 0.50 | 0.50 |
| 1,2,3-Trichlorobenzene | 0.20 | U | 0.20 | 0.20 |

| Analyte | Result (ug/m3) | Qualifier | RL | RL |
|---|---|---|---|---|
| Chloromethane | 1.2 | | 1.0 | 1.0 |
| Freon TF | 1.5 | U | 1.5 | 1.5 |
| Acetone | 12 | U | 12 | 12 |
| Carbon disulfide | 1.6 | U | 1.6 | 1.6 |
| Methyl Ethyl Ketone | 1.5 | U | 1.5 | 1.5 |
| 1,4-Dioxane | 18 | U | 18 | 18 |
| methyl isobutyl ketone | 2.0 | U | 2.0 | 2.0 |
| Methyl Butyl Ketone (2-Hexanone) | 2.0 | U | 2.0 | 2.0 |
| Chlorobenzene | 0.92 | U | 0.92 | 0.92 |
| Styrene | 0.85 | U | 0.85 | 0.85 |
| 1,3-Dichlorobenzene | 1.2 | U | 1.2 | 1.2 |
| 1,4-Dichlorobenzene | 1.2 | U | 1.2 | 1.2 |
| 1,2-Dichlorobenzene | 1.2 | U | 1.2 | 1.2 |
| 1,2,4-Trichlorobenzene | 3.7 | U | 3.7 | 3.7 |
| 1,2,3-Trichlorobenzene | 1.5 | U | 1.5 | 1.5 |

Client: O'Brien & Gere Inc of North America

Job Number: 200-20018-1
Sdg Number: 200-20018

**Client Sample ID:** **AMSF-AA-120613**

Lab Sample ID: 200-20018-12
Client Matrix: Air

Date Sampled: 12/06/2013 1450
Date Received: 12/11/2013 1130

**TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | TO15 LL | Analysis Batch: | 200-66614 | Instrument ID: | E.i |
| Prep Method: | Summa Canister | Prep Batch: | N/A | Lab File ID: | egad009.d |
| Dilution: | 4.0 | | | Initial Weight/Volume: | 125 mL |
| Analysis Date: | 12/29/2013 1703 | | | Final Weight/Volume: | 500 mL |
| Prep Date: | 12/29/2013 1703 | | | Injection Volume: | 500 mL |

| Analyte | Result (ppb v/v) | Qualifier | RL | RL |
|---|---|---|---|---|
| Dichlorodifluoromethane | 0.46 | | 0.040 | 0.040 |
| 1,2-Dichlorotetrafluoroethane | 0.040 | U | 0.040 | 0.040 |
| Vinyl chloride | 0.080 | U | 0.080 | 0.080 |
| 1,3-Butadiene | 0.080 | U | 0.080 | 0.080 |
| Bromomethane | 0.080 | U | 0.080 | 0.080 |
| Chloroethane | 0.080 | U | 0.080 | 0.080 |
| Bromoethene(Vinyl Bromide) | 0.080 | U | 0.080 | 0.080 |
| Trichlorofluoromethane | 0.22 | | 0.040 | 0.040 |
| 1,1-Dichloroethene | 0.040 | U | 0.040 | 0.040 |
| 3-Chloropropene | 0.080 | U | 0.080 | 0.080 |
| Methylene Chloride | 0.40 | U * | 0.40 | 0.40 |
| Methyl tert-butyl ether | 0.040 | U | 0.040 | 0.040 |
| trans-1,2-Dichloroethene | 0.040 | U | 0.040 | 0.040 |
| n-Hexane | 0.080 | U | 0.080 | 0.080 |
| 1,1-Dichloroethane | 0.040 | U | 0.040 | 0.040 |
| cis-1,2-Dichloroethene | 0.040 | U | 0.040 | 0.040 |
| Chloroform | 0.040 | U | 0.040 | 0.040 |
| 1,1,1-Trichloroethane | 0.040 | U | 0.040 | 0.040 |
| Cyclohexane | 0.040 | U | 0.040 | 0.040 |
| Carbon tetrachloride | 0.070 | | 0.040 | 0.040 |
| Benzene | 0.11 | | 0.040 | 0.040 |
| 1,2-Dichloroethane | 0.080 | U | 0.080 | 0.080 |
| n-Heptane | 0.040 | U | 0.040 | 0.040 |
| Trichloroethene | 0.040 | U | 0.040 | 0.040 |
| 1,2-Dichloropropane | 0.080 | U | 0.080 | 0.080 |
| Bromodichloromethane | 0.040 | U | 0.040 | 0.040 |
| cis-1,3-Dichloropropene | 0.040 | U | 0.040 | 0.040 |
| Toluene | 0.11 | | 0.040 | 0.040 |
| trans-1,3-Dichloropropene | 0.040 | U | 0.040 | 0.040 |
| 1,1,2-Trichloroethane | 0.040 | U | 0.040 | 0.040 |
| Tetrachloroethene | 0.040 | U | 0.040 | 0.040 |
| Dibromochloromethane | 0.040 | U | 0.040 | 0.040 |
| 1,2-Dibromoethane | 0.040 | U | 0.040 | 0.040 |
| Ethylbenzene | 0.040 | U | 0.040 | 0.040 |
| o-Xylene | 0.040 | U | 0.040 | 0.040 |
| Bromoform | 0.040 | U | 0.040 | 0.040 |
| 1,1,2,2-Tetrachloroethane | 0.040 | U | 0.040 | 0.040 |
| 4-Ethyltoluene | 0.040 | U | 0.040 | 0.040 |
| 1,3,5-Trimethylbenzene | 0.080 | U | 0.080 | 0.080 |
| m-Xylene & p-Xylene | 0.080 | U | 0.080 | 0.080 |

| Analyte | Result (ug/m3) | Qualifier | RL | RL |
|---|---|---|---|---|
| Dichlorodifluoromethane | 2.3 | | 0.20 | 0.20 |
| 1,2-Dichlorotetrafluoroethane | 0.28 | U | 0.28 | 0.28 |
| Vinyl chloride | 0.20 | U | 0.20 | 0.20 |
| 1,3-Butadiene | 0.18 | U | 0.18 | 0.18 |

Client: O'Brien & Gere Inc of North America

Job Number: 200-20018-1
Sdg Number: 200-20018

**Client Sample ID:** **AMSF-AA-120613**

Lab Sample ID: 200-20018-12
Client Matrix: Air

Date Sampled: 12/06/2013 1450
Date Received: 12/11/2013 1130

**TO15 LL Volatile Organic Compounds in Ambient Air, Low Concentration (GC/MS)**

| | | | | | |
|---|---|---|---|---|---|
| Analysis Method: | TO15 LL | Analysis Batch: | 200-66614 | Instrument ID: | E.i |
| Prep Method: | Summa Canister | Prep Batch: | N/A | Lab File ID: | egad009.d |
| Dilution: | 4.0 | | | Initial Weight/Volume: | 125 mL |
| Analysis Date: | 12/29/2013 1703 | | | Final Weight/Volume: | 500 mL |
| Prep Date: | 12/29/2013 1703 | | | Injection Volume: | 500 mL |

| Analyte | Result (ug/m3) | Qualifier | RL | RL |
|---|---|---|---|---|
| Bromomethane | 0.31 | U | 0.31 | 0.31 |
| Chloroethane | 0.21 | U | 0.21 | 0.21 |
| Bromoethene(Vinyl Bromide) | 0.35 | U | 0.35 | 0.35 |
| Trichlorofluoromethane | 1.3 | | 0.22 | 0.22 |
| 1,1-Dichloroethene | 0.16 | U | 0.16 | 0.16 |
| 3-Chloropropene | 0.25 | U | 0.25 | 0.25 |
| Methylene Chloride | 1.4 | U * | 1.4 | 1.4 |
| Methyl tert-butyl ether | 0.14 | U | 0.14 | 0.14 |
| trans-1,2-Dichloroethene | 0.16 | U | 0.16 | 0.16 |
| n-Hexane | 0.28 | U | 0.28 | 0.28 |
| 1,1-Dichloroethane | 0.16 | U | 0.16 | 0.16 |
| cis-1,2-Dichloroethene | 0.16 | U | 0.16 | 0.16 |
| Chloroform | 0.20 | U | 0.20 | 0.20 |
| 1,1,1-Trichloroethane | 0.22 | U | 0.22 | 0.22 |
| Cyclohexane | 0.14 | U | 0.14 | 0.14 |
| Carbon tetrachloride | 0.44 | | 0.25 | 0.25 |
| Benzene | 0.34 | | 0.13 | 0.13 |
| 1,2-Dichloroethane | 0.32 | U | 0.32 | 0.32 |
| n-Heptane | 0.16 | U | 0.16 | 0.16 |
| Trichloroethene | 0.21 | U | 0.21 | 0.21 |
| 1,2-Dichloropropane | 0.37 | U | 0.37 | 0.37 |
| Bromodichloromethane | 0.27 | U | 0.27 | 0.27 |
| cis-1,3-Dichloropropene | 0.18 | U | 0.18 | 0.18 |
| Toluene | 0.42 | | 0.15 | 0.15 |
| trans-1,3-Dichloropropene | 0.18 | U | 0.18 | 0.18 |
| 1,1,2-Trichloroethane | 0.22 | U | 0.22 | 0.22 |
| Tetrachloroethene | 0.27 | U | 0.27 | 0.27 |
| Dibromochloromethane | 0.34 | U | 0.34 | 0.34 |
| 1,2-Dibromoethane | 0.31 | U | 0.31 | 0.31 |
| Ethylbenzene | 0.17 | U | 0.17 | 0.17 |
| o-Xylene | 0.17 | U | 0.17 | 0.17 |
| Bromoform | 0.41 | U | 0.41 | 0.41 |
| 1,1,2,2-Tetrachloroethane | 0.27 | U | 0.27 | 0.27 |
| 4-Ethyltoluene | 0.20 | U | 0.20 | 0.20 |
| 1,3,5-Trimethylbenzene | 0.39 | U | 0.39 | 0.39 |
| m-Xylene & p-Xylene | 0.35 | U | 0.35 | 0.35 |

**TestAmerica Burlington**
30 Community Drive
Suite 11
South Burlington, VT 05403
phone 802-660-1990 fax 802-660-1919

# Canister Samples Chain of Custody Record

*TestAmerica Analytical Testing Corp. assumes no liability with respect to the collection and shipment of these samples*

| | | | |
|---|---|---|---|
| **Client Contact Information** | Project Manager: Mark Distler | Samples Collected By: Eric Akings, Scott Mosher | of COCs |
| Company: O'Brien + Gere | Phone: 315-956-6100 | | |
| Address: 333 W Washington St | Email: mark.distler@obg.com | | |
| City/State/Zip Syracuse NY 13221 | | | |
| Phone: 315-956-6100 | Site Contact: Christy Rosenbrock | | |
| FAX: 315 463-7554 | TA Contact: D. Dawicki | | |
| Project Name: 35273 ITT RFM | **Analysis Turnaround Time** | | |
| Site: AMSF | Standard (Specify) K | | |
| PO # | Rush (Specify) | | |

| Sample Identification | Sample Date(s) | Time Start | Time Stop | Canister Vacuum in Field, "Hg (Start) | Canister Vacuum in Field, 'Hg (Stop) | Flow Controller ID | Canister ID | TO-15 (bulk incl TCE & STANDARD) | MA-APH | EPA 3C | EPA 25C | ASTM D-1946 | Other (Please specify in notes section) | Sample Type | Indoor Air | Ambient Air | Soil Gas | Landfill Gas | Other (Please specify in notes section) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AMSF-07-IA-120613 | 12/6/13 | 621 | 935 | 29.24 | 3.91 | 5205 | 5400 | K | | | | | | | | | | | |
| AMSF-07-SS-120613 | 12/6/13 | 621 | 957 | 29.23 | 2.32 | 4245 | 4373 | K | | | | | | | | | | | |
| AMSF-22-IA-120613 | 12/6/13 | 623 | 1402 | ~~29.43~~ 29.45 | 5.80 | 3736 | 2734 | K | | | | | | | | | | | |
| AMSF-22-SS-120613 | 12/6/13 | 623 | 1410 | 29.50 | 12.39 | 5230 | 2693 | K | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |

| Temperature (Fahrenheit) | Interior | Ambient |
|---|---|---|
| Start | ~62° | ~32° |
| Stop | ~62° | ~38° |

| Pressure (inches of Hg) | Interior | Ambient |
|---|---|---|
| Start | NA | 30.16 |
| Stop | NA | 30.01 |

200-20018 Chain of Custody

**Special Instructions/QC Requirements & Comments:** See Don Dawicki. Initial Test - run low level ~~TCE~~ TO15. DO NOT DILUTE. Contact OBG if dilution is required (before dilution). Second run. via TO15 for constituents not included via low level TO15.

CHECK CALIBRATION OF FLOW CONTROLLERS 5205 + 4245

| | | | |
|---|---|---|---|
| Samples Shipped by: | Date/Time: 12/9/13 1140 | Samples Received by: | 12-9-13 1140 |
| Samples Relinquished by: 12-9-13 | Date/Time: | Received by: | |
| Relinquished by: | Date/Time: 12/11/13 1130 | Received by: TASDL | |

**Lab Use Only** **Shipper Name:** **Opened by:** **Condition:**

**TestAmerica Burlington**
30 Community Drive
Suite 11
South Burlington, VT 05403
phone 802-660-1990 fax 802-660-1919

# Canister Samples Chain of Custody Record

*TestAmerica Analytical Testing Corp. assumes no liability with respect to the collection and shipment of these samples*

| | | | |
|---|---|---|---|
| **Client Contact Information** | Project Manager: Mark Distler | Samples Collected By: Eric Accetti / Scott Mosher | of COCs |
| Company: O'Brien + Gere | Phone: 315-956-6100 | | |
| Address: 333 W. Washington St | Email: mark.distler@obg.com | | |
| City/State/Zip Syracuse NY 13221 | | | |
| Phone: 315-956-6100 | Site Contact: Christy Rosenbarker | | |
| FAX: 315-463-7554 | TA Contact: D Dawicki | | |
| Project Name: 35273 Itt RFM | **Analysis Turnaround Time** | | |
| Site: AMSF | Standard (Specify) K | | |
| PO # | Rush (Specify) | | |

| Sample Identification | Sample Date(s) | Time Start | Time Stop | Canister Vacuum in Field, "Hg (Start) | Canister Vacuum in Field, "Hg (Stop) | Flow Controller ID | Canister ID | TO-15 (Low level TCL + Standard) | MA-APH | EPA 3C | EPA 25C | ASTM D-1946 | Other (Please specify in notes section) | Sample Type | Indoor Air | Ambient Air | Soil Gas | Landfill Gas | Other (Please specify in notes section) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AMSF-05-IA-120613 | 12/6/13 | 643 | 1327 | 29.65 | 3.90 | 3188 | 3792 | | | | | | | | | | | | |
| AMSF-05-SS-120613 | 12/6/13 | 643 | 1441 | 29.30 | 6.67 | 3648 | 3340 | | | | | | | | | | | | |
| AMSF-05-SSD-120613 | 12/6/13 | 643 | 1441 | 29.61 | 11.71 | 4724/5177 | 4550 | | | | | | | | | | | | |
| AMSF-06-IA-120613 | 12/6/13 | 624 | 1414 | 29.35 | 5.78 | 3171 | 2675 | | | | | | | | | | | | |
| AMSF-06-SS-120613 | 12/6/13 | 624 | 1414 | 29.47 | 7.91 | 3783 | 4310 | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |

| Temperature (Fahrenheit) | Interior | Ambient |
|---|---|---|
| Start | ~62° | ~32° |
| Stop | ~62° | ~38° |

| Pressure (Inches of Hg) | Interior | Ambient |
|---|---|---|
| Start | NA | 30.16 |
| Stop | NA | 30.01 |

**Special Instructions/QC Requirements & Comments:** See Don Dawicki. Initial Test - run low level TCE. DO NOT DILUTE. Contact OBG if dilution is required (before dilution) Second run - via TO15 for constituents not included via low level TO15

Check calibration of Flow Controller 4724

| | | | |
|---|---|---|---|
| Samples Shipped by: | Date/Time: 12/9/13 1140 | Samples Received by: | 12-9-13 11:40 |
| Samples Relinquished by: 12-9-13 | Date/Time: 12.09 | Received by: | |
| Relinquished by: | Date/Time: 12/9/13 1130 | Received by: JABURC | |

**Lab Use Only** **Shipper Name:** **Opened by:** **Condition:**

**TestAmerica Burlington**
30 Community Drive
Suite 11
South Burlington, VT 05403
phone 802-660-1990 fax 802-660-1919

# Canister Samples Chain of Custody Record

*TestAmerica Analytical Testing Corp. assumes no liability with respect to the collection and shipment of these samples.*

| | | | |
|---|---|---|---|
| **Client Contact Information** | Project Manager: Mark Distler | Samples Collected By: Eric Alongi / Scott Mosher | 1 of ___ COCs |
| Company: O'Brien & Gere | Phone: 315-956-6100 | | |
| Address: 333 W. Washington St. | Email: mark.distler@obg.com | | |
| City/State/Zip: Syracuse, NY 13221 | | | |
| Phone: 315-956-6336 6100 | Site Contact: Christy Rosenberger | | |
| FAX: 315 463 2554 | TA Contact: Don Dawicki | | |
| Project Name: 35273. ITT RFM | **Analysis Turnaround Time** | | |
| Site: AMSF | Standard (Specify) X | | |
| PO # | Rush (Specify) | | |

| Sample Identification | Sample Date(s) | Time Start | Time Stop | Canister Vacuum in Field, "Hg (Start) | Canister Vacuum in Field, "Hg (Stop) | Flow Controller ID | Canister ID | TO-15 (Low Level TCE & Standard) | MA-APH | EPA 3C | EPA 25C | ASTM D-1946 | Other (Please specify in notes section) | Sample Type | Indoor Air | Ambient Air | Soil Gas | Landfill Gas | Other (Please specify in notes section) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AMSF-24-IA-120613 | 12/6/13 | 643 | 1436 | 29.48 | 13.69 | 5344 | 3569 | X | | | | | | | | | | | |
| AMSF-24-SS-120613 | 12/6/13 | 643 | 1433 | 29.26 | 9.69 | 5191 | 3225 | X | | | | | | | | | | | |
| AMSF-AA-120613 | 12/6/13 | ~~645~~ 646 @ | 1450 | 29.43 | 5.36 | 3238 | 2553 | X | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |

| Temperature (Fahrenheit) | Interior | Ambient | |
|---|---|---|---|
| Start | ~62° | 38° ~32° | |
| Stop | ~62° | ~38° | |

| Pressure (Inches of Hg) | Interior | Ambient | |
|---|---|---|---|
| Start | NA | 30.16 | |
| Stop | NA | 30.01 | |

**Special Instructions/QC Requirements & Comments:** See Don Dawicki. Initial test - run Low Level TO15. Do Not Dilute. Contact OBG if dilution is required (before dilution). Second run - via TO15 for constituents not included via low level TO15

| | | |
|---|---|---|
| Samples Shipped by: | Date/Time: 12/9/13 1140 | Samples Received by: 12-9-13 16:40 |
| Samples Relinquished by: 12-9-13 1740 | Date/Time: | Received by: |
| Relinquished by: | Date/Time: 12/11/13 1130 | Received by: TASPL |

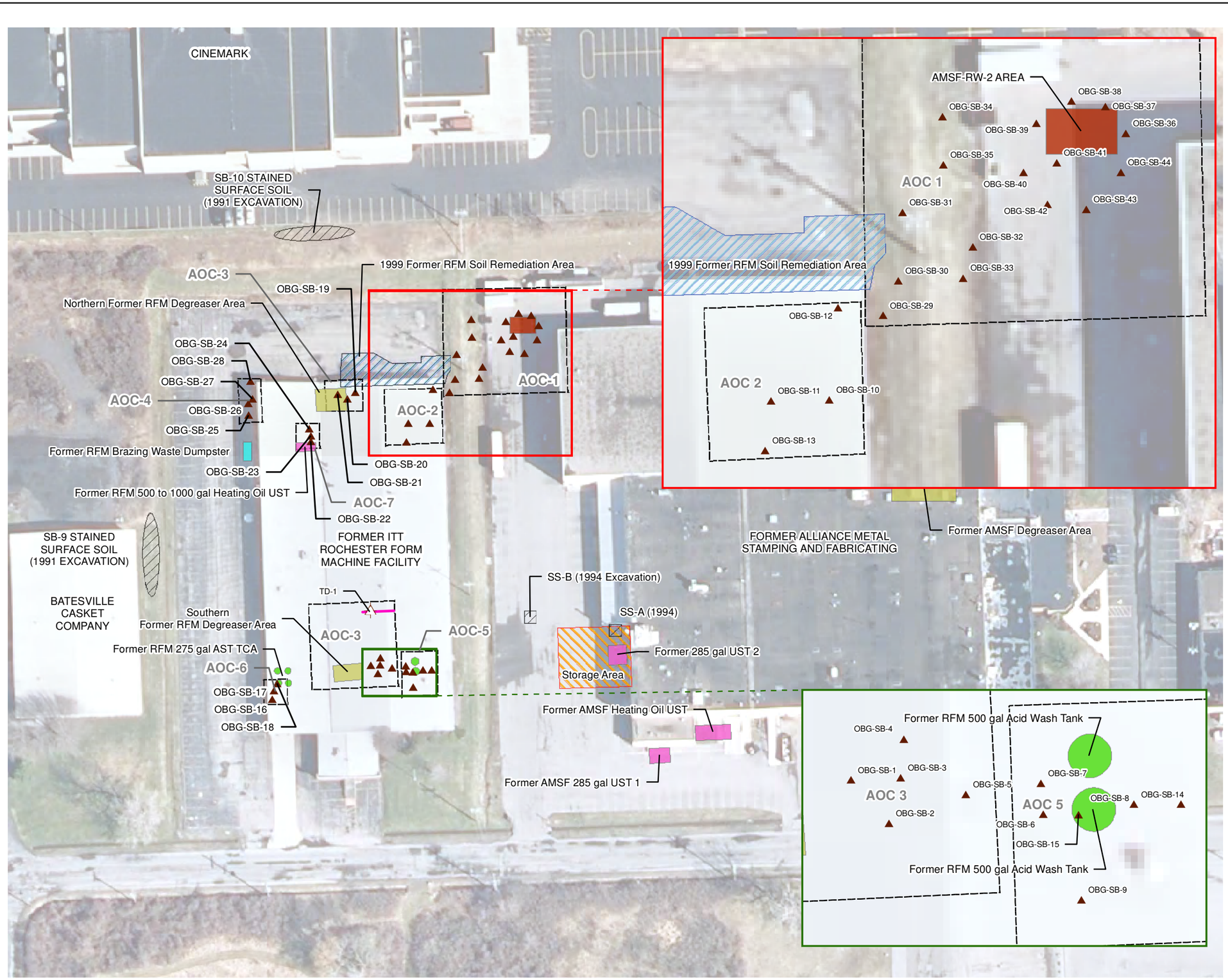
**Lab Use Only** **Shipper Name:** **Opened by:** **Condition:**

**Selected Figures and Tables from:**

**Remedial Investigation Report, Former ITT Rochester Form Machine Facility**
**Site # 8-28-112, Town of Gates, New York.**
**O'Brien & Gere Engineers, Inc., April 11, 2014**

I:\lt.3356\35273.lit-Auto-Fh-19\dwg\MXD\Revised_RI\RI_SOIL_LOCS.mxd

# FIGURE 3-1




## LEGEND

- SOIL BORING (POST 2003)
- 1999 FORMER RFM SOIL REMEDIATION AREA
- AREA OF CONCERN (AOC)
- TRENCH DRAIN SAMPLE
- TRENCH DRAIN
- FORMER ABOVE GROUND STORAGE TANK
- AMSF-RW-2 AREA
- FORMER BRAZING WASTE DUMPSTER
- DRUM STORAGE AREA
- EXCAVATION AREA
- FORMER DEGREASER
- FORMER UNDERGROUND STORAGE TANK

**NOTE:** INVESTIGATION AREAS (AOCs) ARE FROM THE 2004 REMEDIAL INVESTIGATION/FEASIBILITY STUDY WORK PLAN.

FORMER ITT ROCHESTER FORM MACHINE FACILITY
TOWN OF GATES, NEW YORK
SITE #8-28-112

## REMEDIAL INVESTIGATION SOIL SAMPLE LOCATIONS

0 50 100 200
Feet

MAY 2012
3356.35273

O'BRIEN & GERE

This document was developed in color. Reproduction in B/W may not represent the data as intended.

AERIAL IMAGERY PROVIDED BY NYS GIS CLEARINGHOUSE, DATE APRIL 2009

PLOTDATE: 02/10/14 3:20:40 PM FreyerPA

**Table 5-1a**
**Soil Sample VOC Results**
**Former ITT Rochester Form Machine Facility**
**Site #8-28-112**
**Town of Gates, New York**

| Analyte | Part 375 Unrestricted Use SCOs[1] | NY CP-51 Residential Use SCOs[2] | Part 375 Protection of Groundwater SCOs[3] | NY CP-51 Protection of Groundwater SCOs[4] | Part 375 Commercial Use SCOs[5] | NY CP-51 Commercial Use SCOs[4] | APC2-1 | APC2-2 | APC3-1 | APC3-2 | BH-99-1 | BH-99-4 | BH-99-5 | BH-99-11B | BH-99-13 | BH-99-31 | BH-99-31 | BH-99-32 | BH-99-37 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Location** | | | | | | | APC2-1 | APC2-2 | APC3-1 | APC3-2 | BH-99-1 | BH-99-4 | BH-99-5 | BH-99-11B | BH-99-13 | BH-99-31 | BH-99-31 | BH-99-32 | BH-99-37 |
| **Sample Date:** | | | | | | | 10/23/1991 | 10/23/1991 | 10/23/1991 | 10/23/1991 | 4/12/1999 | 9/15/1999 | 9/15/1999 | 9/15/1999 | 9/15/1999 | 9/16/1999 | 9/16/1999 | 9/16/1999 | 10/1/1999 |
| **Sample ID:** | | | | | | | APC2-1 | APC2-2 | APC3-1 | APC3-2 | BH-99-1(6-6.9) | BH-99-4 (6-8) | BH-99-5 (6-8) | BH-99-11B (5-7) | BH-99-13 (8-10) | BH-99-31 (1-4) | BH-99-31 (4-6) | BH-99-32 (1-4) | BH-99-37 (6-8) |
| **Start Depth (ft bgs):** | | | | | | | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 5 | 8 | 1 | 4 | 1 | 6 |
| **End Depth (ft bgs):** | | | | | | | 8 | 8 | 8 | 8 | 6.9 | 8 | 8 | 7 | 10 | 4 | 6 | 4 | 8 |
| **Sample Type Code:** | | | | | | | N | N | N | N | N | N | N | N | N | N | N | N | N |
| 1,1,1,2-Tetrachloroethane | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | 5 U | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,1,1-Trichloroethane | 680 | NC | 680 | NC | 500000 | NC | 6 U | 6 U | 14 | 6 U | --- | 47 | 6 U | 19 | 130 | 72 | 210 | 110 | 12 |
| 1,1,2,2-Tetrachloroethane | NC | 35000 | NC | 600 | NC | NC | --- | --- | --- | --- | 5 U | 6 U | 6 U | 7 U | 27 U | 10 U | 9 U | 10 U | 10 U |
| 1,1,2-Trichloroethane | NC | NC | NC | NC | NC | NC | 6 U | 6 U | 6 U | 6 U | --- | 6 U | 6 U | 7 U | 27 U | 10 U | 9 U | 10 U | 10 U |
| 1,1-Dichloroethane | 270 | NC | 270 | NC | 240000 | NC | 6 U | 6 U | 6 U | 6 U | 5 U | 6 U | 6 U | 7 U | 27 U | 10 U | 9 U | 10 U | 10 U |
| 1,1-Dichloroethylene | 330 | NC | 330 | NC | 500000 | NC | 6 U | 6 U | 6 U | 6 U | --- | 18 | 6 U | 7 U | 27 U | 10 U | 9 U | 10 U | 10 U |
| 1,2,3-Trichloropropane | NC | 80000 | NC | 340 | NC | NC | --- | --- | --- | --- | 5 U | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,2-Dibromo-3-Chloropropane | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | 5 U | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,2-Dibromoethane | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | 5 U | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,2-Dichloroethane | 20 | NC | 20 | NC | 30000 | NC | 6 U | 6 U | 6 U | 6 U | --- | 6 U | 6 U | 7 U | 27 U | 10 U | 9 U | 10 U | 10 U |
| 1,2-Dichloroethene | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,2-Dichloropropane | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | 5 U | 6 U | 6 U | 7 U | 27 U | 10 U | 9 U | 10 U | 10 U |
| 2-Butanone | 120 | 100000 | 120 | 300 | 500000 | NC | --- | --- | --- | --- | --- | 28 U | 28 U | 34 U | 140 U | 48 U | 45 U | 48 U | 51 U |
| 2-Chloroethyl vinyl ether | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | 5 U | --- | --- | --- | --- | --- | --- | --- | --- |
| 2-Chlorotoluene | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | 5 U | --- | --- | --- | --- | --- | --- | --- | --- |
| 2-Hexanone | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | 10 U | 11 U | 11 U | 7 U | 54 U | 19 U | 18 U | 19 U | 20 U |
| 4-Chlorotoluene | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | 5 U | --- | --- | --- | --- | --- | --- | --- | --- |
| 4-Methyl-2-Pentanone | NC | NC | NC | 1000 | NC | NC | --- | --- | --- | --- | 10 U | 11 U | 11 U | 14 U | 54 U | 19 U | 18 U | 19 U | 20 U |
| Acetone | 50 | NC | 50 | NC | 500000 | NC | 12 U | 12 | 14 B | 8 | 25 U | 28 U | 28 U | 34 U | 140 U | 48 U | 45 U | 48 U | 51 U |
| Acrolein | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | 20 U | --- | --- | --- | --- | --- | --- | --- | --- |
| Acrylonitrile | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | 20 U | --- | --- | --- | --- | --- | --- | --- | --- |
| Benzene | 60 | NC | 60 | NC | 44000 | NC | --- | --- | --- | --- | 0.7 U | 0.8 U | 0.8 U | 1 U | 4 U | 1 U | 1 U | 1 U | 1 U |
| Bromobenzene | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | 5 U | --- | --- | --- | --- | --- | --- | --- | --- |
| Bromodichloromethane | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | 5 U | 6 U | 6 U | 7 U | 27 U | 10 U | 9 U | 10 U | 10 U |
| Bromoform | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | 5 U | 6 U | 6 U | 7 U | 27 U | 10 U | 9 U | 10 U | 10 U |
| Bromomethane | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | 5 U | 6 U | 6 U | 7 U | 27 U | 10 U | 9 U | 10 U | 10 U |
| Carbon Disulfide | NC | 100000 | NC | 2700 | NC | NC | --- | --- | --- | --- | 5 U | 6 U | 6 U | 7 U | 27 U | 10 U | 9 U | 10 U | 10 U |
| Carbon Tetrachloride | 760 | NC | 760 | NC | 22000 | NC | --- | --- | --- | --- | 5 U | 6 U | 6 U | 7 U | 27 U | 10 U | 9 U | 10 U | 10 U |
| Chlorobenzene | 1100 | NC | 1100 | NC | 500000 | NC | --- | --- | --- | --- | 5 U | 6 U | 6 U | 7 U | 27 U | 10 U | 9 U | 10 U | 10 U |
| Chloroethane | NC | NC | NC | 1900 | NC | NC | --- | --- | --- | --- | 5 U | 6 U | 6 U | 7 U | 27 U | 10 U | 9 U | 10 U | 10 U |
| Chloroform | 370 | NC | 370 | NC | 350000 | NC | --- | --- | --- | --- | 5 U | 6 U | 6 U | 7 U | 27 U | 10 U | 9 U | 10 U | 10 U |
| Chloromethane | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | 5 U | 6 U | 6 U | 7 U | 27 U | 10 U | 9 U | 10 U | 10 U |
| cis-1,2-Dichloroethylene | 250 | NC | 250 | NC | 500000 | NC | --- | --- | --- | --- | 5 U | 6 U | 6 U | 7 U | 27 U | 10 U | 9 U | 10 U | 10 U |
| cis-1,3-Dichloropropylene | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | 5 U | 6 U | 6 U | 7 U | 27 U | 10 U | 9 U | 10 U | 10 U |
| Dibromochloromethane | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | 5 U | 6 U | 6 U | 7 U | 27 U | 10 U | 9 U | 10 U | 10 U |
| Dichlorodifluoromethane | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | 5 U | --- | --- | --- | --- | --- | --- | --- | --- |
| Ethylbenzene | 1000 | NC | 1000 | NC | 390000 | NC | 6 U | 6 U | 6 U | 6 U | --- | 6 U | 6 U | 7 U | 27 U | 10 U | 9 U | 10 U | 10 U |
| Methylene chloride | 50 | NC | 50 | NC | 500000 | NC | 4 | 4 | 3 | 4 | 5 U | 6 U | 6 U | 7 U | 27 U | 10 U | 9 U | 10 U | 10 U |
| o-Xylene | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | 5 U | 6 U | 6 U | 7 U | 27 U | 10 U | 9 U | 10 U | 10 U |
| Styrene | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | 5 U | 6 U | 6 U | 7 U | 27 U | 10 U | 9 U | 10 U | 10 U |
| Tetrachloroethene | 1300 | NC | 1300 | NC | 150000 | NC | 6 U | 6 U | 6 U | 6 U | --- | 6 U | 6 U | 7 U | 27 U | 28 | 69 | 10 U | 10 U |
| Toluene | 700 | NC | 700 | NC | 500000 | NC | 6 U | 6 U | 6 U | 6 U | --- | 6 U | 6 U | 7 U | 27 U | 10 U | 9 U | 10 U | 10 U |
| Total BTEX | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| trans-1,2-Dichloroethylene | 190 | NC | 190 | NC | 500000 | NC | --- | --- | --- | --- | 5 U | 6 U | 6 U | 7 U | 27 U | 10 U | 9 U | 10 U | 10 U |
| trans-1,3-Dichloropropylene | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | 5 U | 6 U | 6 U | 7 U | 27 U | 10 U | 9 U | 10 U | 10 U |
| Trichloroethylene | 470 | NC | 470 | NC | 200000 | NC | 6 U | 6 U | 6 U | 6 U | --- | 6 U | 6 U | 7 U | 27 U | 10 U | 9 U | 10 U | 10 U |
| Trichlorofluoromethane | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | 5 U | --- | --- | --- | --- | --- | --- | --- | --- |
| Vinyl Acetate | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Vinyl Chloride | 20 | NC | 20 | NC | 13000 | NC | --- | --- | --- | --- | 2 U | 2 U | 2 U | 3 U | 11 U | 4 U | 4 U | 4 U | 4 U |
| Xylene (m,p) | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | 6 U | 6 U | 7 U | 27 U | 10 U | 9 U | 10 U | 10 U |
| Xylene (total) | 260 | NC | 1600 | NC | 500000 | NC | 6 U | 6 U | 6 U | 6 U | --- | --- | --- | --- | --- | --- | --- | --- | --- |

**Notes:**
All units in micrograms per kilogram (µg/kg)
**Bold** - Exceeds 6 NYCRR Part 375 or CP-51 Protection of Groundwater Soil Cleanup Objectives
[ ] - Exceeds 6 NYCRR Part 375 Unrestricted Soil Cleanup Objectives or CP-51 Residential Soil Cleanup Objectives
6 NYCRR Part 375 and CP-51 Commercial Soil Cleanup Objectives were not exceeded.
NC - No criteria exists
Sample Type Code: N - Normal, FD - Field Duplicate
ft bgs - feet below ground surface
U - Not Detected at the Detection Limit shown, J - Estimated value, UJ - Approximate Non-detect
B - Blank Contamination, BJ - Estimated Value Detected in Blank
--- Not Analyzed
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, Protection of Public Health, Commercial, December 14, 2006.
[2] Final Commissioner Policy CP-51, Table 1: Supplimental Soil Cleanup Objectives, Residential, October 21, 2010.
[3] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, Protection of Public Health, Protection of Groundwater, December 14, 2006.
[4] Final Commissioner Policy CP-51, Table 1: Supplimental Soil Cleanup Objectives, Protection of Groundwater, October 21, 2010.
[5] 6 NYCRR Part 375, Table 375-6.8(b): Unrestricted Use Soil Cleanup Objectives, Protection of Public Health, December 14, 2006.
[6] Final Commissioner Policy CP-51, Table 1: Supplimental Soil Cleanup Objectives, Commercial, October 21, 2010.

**Table 5-1a**
**Soil Sample VOC Results**
**Former ITT Rochester Form Machine Facility**
**Site #8-28-112**
**Town of Gates, New York**

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | **Location** | **BH-99-42** | **BH-99-44** | **BH-99-45** | **ITT-MW-1** | **ITT-MW-3** | **ITT-MW-4** | **ITT-MW-4** | **ITT-SBW-1A** | **ITT-SBW-2** | **ITT-SBW-2** | **ITT-SBW-4** | **ITT-SBW-5A** | **ITT-SBW-6** |
| | | | | | | **Sample Date:** | 10/1/1999 | 10/1/1999 | 10/1/1999 | 10/22/1991 | 10/22/1991 | 10/23/1991 | 10/23/1991 | 8/17/1998 | 8/17/1998 | 8/17/1998 | 3/1/1999 | 3/2/1999 | 3/3/1999 |
| | | | | | | **Sample ID:** | BH-99-42 (4-6) | BH-99-44 (8-10) | BH-99-45 (6-8) | MW-1(SOIL)10-22-91 | MW-3(SOIL)10-22-91 | MW-4 (1-2)10-23-91 | MW-4 (6-8)10-23-91 | ITT-SBW-1A (10-12) | ITT-SBW-2 (4-6) | ITT-SBW-2 (6-8) | ITT-SBW-4 (7-8.7) | ITT-SBW-5A (8-9.8) | ITT-SBW-6 (8-9) |
| | | | | | | **Start Depth (ft bgs):** | 4 | 8 | 6 | 8 | 4 | 1 | 6 | 10 | 4 | 6 | 7 | 8 | 8 |
| | | | | | | **End Depth (ft bgs):** | 6 | 10 | 8 | 10 | 6 | 2 | 8 | 12 | 6 | 8 | 8.7 | 9.8 | 9 |
| | | | | | | **Sample Type Code:** | N | N | N | N | N | N | N | N | N | N | N | N | N |
| **Analyte** | **Part 375 Unrestricted Use SCOs[1]** | **NY CP-51 Residential Use SCOs[2]** | **Part 375 Protection of Groundwater SCOs[3]** | **NY CP-51 Protection of Groundwater SCOs[4]** | **Part 375 Commercial Use SCOs[5]** | **NY CP-51 Commercial Use SCOs[4]** | | | | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,1,1-Trichloroethane | 680 | NC | 680 | NC | 500000 | NC | 12 | **920** | 16 | 4 J | 6 U | 1 J | 6 U | 63 | 11 U | 70 | 6 U | 15 | 5 U |
| 1,1,2,2-Tetrachloroethane | NC | 35000 | NC | 600 | NC | NC | 10 U | 26 U | 10 U | 6 U | 6 U | 6 U | 6 U | 11 U | 11 U | 11 U | 6 U | 5 U | 5 U |
| 1,1,2-Trichloroethane | NC | NC | NC | NC | NC | NC | 10 U | 26 U | 10 U | 6 U | 6 U | 6 U | 6 U | 11 U | 11 U | 11 U | 6 U | 5 U | 5 U |
| 1,1-Dichloroethane | 270 | NC | 270 | NC | 240000 | NC | 10 U | 26 U | 10 U | 6 U | 6 U | 6 U | 6 U | 11 U | 11 U | 11 U | 6 U | 5 U | 5 U |
| 1,1-Dichloroethylene | 330 | NC | 330 | NC | 500000 | NC | 10 U | 26 U | 10 U | 6 U | 6 U | 6 U | 6 U | 11 U | 11 U | 2 J | 6 U | 5 U | 5 U |
| 1,2,3-Trichloropropane | NC | 80000 | NC | 340 | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,2-Dibromo-3-Chloropropane | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,2-Dibromoethane | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,2-Dichloroethane | 20 | NC | 20 | NC | 30000 | NC | 10 U | 26 U | 10 U | 6 U | 6 U | 6 U | 6 U | 11 U | 11 U | 11 U | 6 U | 5 U | 5 U |
| 1,2-Dichloroethene | NC | NC | NC | NC | NC | NC | --- | --- | --- | 6 U | 6 U | 6 U | 6 U | 11 U | 11 U | 11 U | --- | --- | --- |
| 1,2-Dichloropropane | NC | NC | NC | NC | NC | NC | 10 U | 26 U | 10 U | 6 U | 6 U | 6 U | 6 U | 11 U | 11 U | 11 U | 6 U | 5 U | 5 U |
| 2-Butanone | 120 | 100000 | 120 | 300 | 500000 | NC | 49 U | 130 U | 48 U | 11 U | 12 U | 12 U | 13 U | 11 U | 11 U | 11 U | 28 U | 26 U | 26 U |
| 2-Chloroethyl vinyl ether | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2-Chlorotoluene | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2-Hexanone | NC | NC | NC | NC | NC | NC | 20 U | 52 U | 19 U | 11 U | 12 U | 12 U | 13 U | 11 U | 11 U | 11 U | 11 U | 10 U | 11 U |
| 4-Chlorotoluene | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4-Methyl-2-Pentanone | NC | NC | NC | 1000 | NC | NC | 20 U | 52 U | 19 U | 11 U | 12 U | 12 U | 13 U | --- | --- | --- | 11 U | 10 U | 11 U |
| Acetone | 50 | NC | 50 | NC | 500000 | NC | 49 U | 130 U | 48 U | 3 BJ | 7 BJ | 3 BJ | 6 BJ | 9 J | 11 U | 11 U | 28 U | 26 U | 26 U |
| Acrolein | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Acrylonitrile | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Benzene | 60 | NC | 60 | NC | 44000 | NC | 1 U | 4 U | 1 U | 6 U | 6 U | 6 U | 6 U | 1 J | 11 U | 11 U | .8 U | .7 U | 0.7 U |
| Bromobenzene | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Bromodichloromethane | NC | NC | NC | NC | NC | NC | 10 U | 26 U | 10 U | 6 U | 6 U | 6 U | 6 U | 11 U | 11 U | 11 U | 6 U | 5 U | 5 U |
| Bromoform | NC | NC | NC | NC | NC | NC | 10 U | 26 U | 10 U | 6 U | 6 U | 6 U | 6 U | 11 U | 11 U | 11 U | 6 U | 5 U | 5 U |
| Bromomethane | NC | NC | NC | NC | NC | NC | 10 U | 26 U | 10 U | 11 U | 12 U | 12 U | 13 U | 11 U | 11 U | 11 U | 6 U | 5 U | 5 U |
| Carbon Disulfide | NC | 100000 | NC | 2700 | NC | NC | 10 U | 26 U | 10 U | 6 U | 6 U | 6 U | 6 U | 11 U | 11 U | 11 U | 6 U | 5 U | 5 U |
| Carbon Tetrachloride | 760 | NC | 760 | NC | 22000 | NC | 10 U | 26 U | 10 U | 6 U | 6 U | 6 U | 6 U | 11 U | 11 U | 11 U | 6 U | 5 U | 5 U |
| Chlorobenzene | 1100 | NC | 1100 | NC | 500000 | NC | 10 U | 26 U | 10 U | 6 U | 6 U | 6 U | 6 U | 11 U | 11 U | 11 U | 6 U | 5 U | 5 U |
| Chloroethane | NC | NC | NC | 1900 | NC | NC | 10 U | 26 U | 10 U | 11 U | 12 U | 12 U | 13 U | 11 U | 11 U | 11 U | 6 U | 5 U | 5 U |
| Chloroform | 370 | NC | 370 | NC | 350000 | NC | 10 U | 26 U | 10 U | 6 U | 6 U | 6 U | 6 U | 11 U | 11 U | 11 U | 6 U | 5 U | 5 U |
| Chloromethane | NC | NC | NC | NC | NC | NC | 10 U | 26 U | 10 U | 11 U | 12 U | 12 U | 13 U | 11 U | 11 U | 11 U | 6 U | 5 U | 5 U |
| cis-1,2-Dichloroethylene | 250 | NC | 250 | NC | 500000 | NC | 10 U | 26 U | 10 U | --- | --- | --- | --- | --- | --- | --- | 6 U | 5 U | 5 U |
| cis-1,3-Dichloropropylene | NC | NC | NC | NC | NC | NC | 10 U | 26 U | 10 U | 6 U | 6 U | 6 U | 6 U | 11 U | 11 U | 11 U | 6 U | 5 U | 5 U |
| Dibromochloromethane | NC | NC | NC | NC | NC | NC | 10 U | 26 U | 10 U | 6 U | 6 U | 6 U | 6 U | 11 U | 11 U | 11 U | 6 U | 5 U | 5 U |
| Dichlorodifluoromethane | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Ethylbenzene | 1000 | NC | 1000 | NC | 390000 | NC | 10 U | 26 U | 10 U | 6 U | 6 U | 6 U | 6 U | 11 U | 11 U | 11 U | 6 U | 5 U | 5 U |
| Methylene chloride | 50 | NC | 50 | NC | 500000 | NC | 10 U | 26 U | 10 U | 3 BJ | 3 BJ | 2 BJ | 3 BJ | 11 U | 11 U | 11 U | 6 U | 5 U | 5 U |
| o-Xylene | NC | NC | NC | NC | NC | NC | 10 U | 26 U | 10 U | --- | --- | --- | --- | --- | --- | --- | 6 U | 5 U | 5 U |
| Styrene | NC | NC | NC | NC | NC | NC | 10 U | 26 U | 10 U | 6 U | 6 U | 6 U | 6 U | 11 U | 11 U | 11 U | 6 U | 5 U | 5 U |
| Tetrachloroethene | 1300 | NC | 1300 | NC | 150000 | NC | 10 U | 26 U | 10 U | 6 U | 6 U | 6 U | 2 J | 4 J | 11 U | 11 U | 6 U | 5 U | 5 U |
| Toluene | 700 | NC | 700 | NC | 500000 | NC | 10 U | 26 U | 10 U | 6 U | 6 U | 3 BJ | 3 BJ | 6 J | 11 U | 1 J | 6 U | 5 U | 5 U |
| Total BTEX | NC | NC | NC | NC | NC | NC | --- | --- | --- | 6 U | 6 U | 3 | 3 | 13 | 11 U | 1 | --- | --- | --- |
| trans-1,2-Dichloroethylene | 190 | NC | 190 | NC | 500000 | NC | 10 U | 26 U | 10 U | --- | --- | --- | --- | --- | --- | --- | 6 U | 5 U | 5 U |
| trans-1,3-Dichloropropylene | NC | NC | NC | NC | NC | NC | 10 U | 26 U | 10 U | 6 U | 6 U | 6 U | 6 U | 11 U | 11 U | 11 U | 6 U | 5 U | 5 U |
| Trichloroethylene | 470 | NC | 470 | NC | 200000 | NC | 10 U | 26 U | 10 U | 6 U | 6 U | 6 U | 6 U | 8 J | 11 U | 2 J | 6 U | 5 U | 5 U |
| Trichlorofluoromethane | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Vinyl Acetate | NC | NC | NC | NC | NC | NC | --- | --- | --- | 11 U | 12 U | 12 U | 13 U | --- | --- | --- | --- | --- | --- |
| Vinyl Chloride | 20 | NC | 20 | NC | 13000 | NC | 4 U | 10 U | 4 U | 11 U | 12 U | 12 U | 13 U | 11 U | 11 U | 11 U | 2 U | 2 U | 2 U |
| Xylene (m,p) | NC | NC | NC | NC | NC | NC | 10 U | 26 U | 10 U | --- | --- | --- | --- | --- | --- | --- | 6 U | 5 U | 5 U |
| Xylene (total) | 260 | NC | 1600 | NC | 500000 | NC | --- | --- | --- | 6 U | 6 U | 6 U | 6 U | 6 J | 11 U | 11 U | --- | --- | --- |

**Notes:**
All units in micrograms per kilogram (µg/kg)
**Bold** - Exceeds 6 NYCRR Part 375 or CP-51 Protection of Groundwater Soil Cleanup Objectives
[ ] - Exceeds 6 NYCRR Part 375 Unrestricted Soil Cleanup Objectives or CP-51 Residential Soil Cleanup Objectives
6 NYCRR Part 375 and CP-51 Commercial Soil Cleanup Objectives were not exceeded.
NC - No criteria exists
Sample Type Code: N - Normal, FD - Field Duplicate
ft bgs - feet below ground surface
U - Not Detected at the Detection Limit shown, J - Estimated value, UJ - Approximate Non-detect
B - Blank Contamination, BJ - Estimated Value Detected in Blank
--- Not Analyzed
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, Protection of Public Health, Commercial, December 14, 2006.
[2] Final Commissioner Policy CP-51, Table 1: Supplimental Soil Cleanup Objectives, Residential, October 21, 2010.
[3] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, Protection of Public Health, Protection of Groundwater, December 14, 2006.
[4] Final Commissioner Policy CP-51, Table 1: Supplimental Soil Cleanup Objectives, Protection of Groundwater, October 21, 2010.
[5] 6 NYCRR Part 375, Table 375-6.8(b): Unrestricted Use Soil Cleanup Objectives, Protection of Public Health, December 14, 2006.
[6] Final Commissioner Policy CP-51, Table 1: Supplimental Soil Cleanup Objectives, Commercial, October 21, 2010.

**Table 5-1a**
**Soil Sample VOC Results**
**Former ITT Rochester Form Machine Facility**
**Site #8-28-112**
**Town of Gates, New York**

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | **Location** | **ITT-SBW-7** | **ITT-SBW-8** | **OBG-SB-1** | **OBG-SB-1** | **OBG-SB-2** | **OBG-SB-2** | **OBG-SB-3** | **OBG-SB-3** | **OBG-SB-4** | **OBG-SB-4** | **OBG-SB-5** | **OBG-SB-5** | **OBG-SB-6** |
| | | | | | | **Sample Date:** | 3/3/1999 | 4/12/1999 | 8/30/2004 | 8/30/2004 | 8/30/2004 | 8/30/2004 | 8/30/2004 | 8/30/2004 | 8/30/2004 | 8/30/2004 | 8/30/2004 | 8/30/2004 | 8/31/2004 |
| | | | | | | **Sample ID:** | SBW-7(8-9.8) | ITT-SBW-8 (8-9.1) | OBG-SB-1 (0-2) | OBG-SB-1 (9-10) | OBG-SB-2 (2-4) | OBG-SB-2 (9-10) | OBG-SB-3 (2-4) | OBG-SB-3 (7-9' | OBG-SB-4 (4-6') | OBG-SB-4 (9.5-10.5') | OBG-SB-5 (7.5-9) | OBG-SB-5 (9-10.5) | OBG-SB-6 (0-2) |
| | | | | | | **Start Depth (ft bgs):** | 8 | 8 | 0 | 9 | 2 | 9 | 2 | 7 | 4 | 9.5 | 7.5 | 9 | 0 |
| | | | | | | **End Depth (ft bgs):** | 9.8 | 9.1 | 2 | 10 | 4 | 10 | 4 | 9 | 6 | 10.5 | 9 | 10.5 | 2 |
| | | | | | | **Sample Type Code:** | N | N | N | N | N | N | N | N | N | N | N | N | N |
| **Analyte** | **Part 375 Unrestricted Use SCOs[1]** | **NY CP-51 Residential Use SCOs[2]** | **Part 375 Protection of Groundwater SCOs[3]** | **NY CP-51 Protection of Groundwater SCOs[4]** | **Part 375 Commercial Use SCOs[5]** | **NY CP-51 Commercial Use SCOs[4]** | | | | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NC | NC | NC | NC | NC | NC | --- | 5 U | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,1,1-Trichloroethane | 680 | NC | 680 | NC | 500000 | NC | 39 | 5 U | 1 J | 170 | 3 U | 21 | 3 U | 22 | 1 J | 6 | 3 U | 13 | 3 U |
| 1,1,2,2-Tetrachloroethane | NC | 35000 | NC | 600 | NC | NC | 6 U | 5 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| 1,1,2-Trichloroethane | NC | NC | NC | NC | NC | NC | 6 U | 5 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 0.8 J | 3 U | 3 U | 3 U | 3 U |
| 1,1-Dichloroethane | 270 | NC | 270 | NC | 240000 | NC | 6 U | 5 U | 3 U | 7 | 3 U | 3 U | 3 U | 0.9 J | 3 U | 3 U | 3 U | 3 U | 3 U |
| 1,1-Dichloroethylene | 330 | NC | 330 | NC | 500000 | NC | 6 U | 5 U | 3 U | **430** | 3 U | 28 | 3 U | 69 | 1 J | 11 | 3 U | 21 | 3 U |
| 1,2,3-Trichloropropane | NC | 80000 | NC | 340 | NC | NC | --- | 5 U | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,2-Dibromo-3-Chloropropane | NC | NC | NC | NC | NC | NC | --- | 5 U | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,2-Dibromoethane | NC | NC | NC | NC | NC | NC | --- | 5 U | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,2-Dichloroethane | 20 | NC | 20 | NC | 30000 | NC | 6 U | 5 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| 1,2-Dichloroethene | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,2-Dichloropropane | NC | NC | NC | NC | NC | NC | 6 U | 5 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| 2-Butanone | 120 | 100000 | 120 | 300 | 500000 | NC | 28 U | 26 U | 10 U | 11 U | 11 U | 11 U | 11 U | 13 U | 12 U | 11 U | 12 U | 11 U | 12 U |
| 2-Chloroethyl vinyl ether | NC | NC | NC | NC | NC | NC | --- | 5 U | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2-Chlorotoluene | NC | NC | NC | NC | NC | NC | --- | 5 U | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2-Hexanone | NC | NC | NC | NC | NC | NC | 11 U | 11 U | 5 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U |
| 4-Chlorotoluene | NC | NC | NC | NC | NC | NC | --- | 5 U | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4-Methyl-2-Pentanone | NC | NC | NC | 1000 | NC | NC | 11 U | 11 U | 5 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U |
| Acetone | 50 | NC | 50 | NC | 500000 | NC | 28 U | 26 U | 10 U | 11 U | 11 J | 11 J | 11 U | 6 J | 12 U | 11 U | 12 U | 11 U | 12 U |
| Acrolein | NC | NC | NC | NC | NC | NC | --- | 21 U | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Acrylonitrile | NC | NC | NC | NC | NC | NC | --- | 21 U | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Benzene | 60 | NC | 60 | NC | 44000 | NC | .8 U | 0.7 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| Bromobenzene | NC | NC | NC | NC | NC | NC | --- | 5 U | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Bromodichloromethane | NC | NC | NC | NC | NC | NC | 6 U | 5 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| Bromoform | NC | NC | NC | NC | NC | NC | 6 U | 5 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| Bromomethane | NC | NC | NC | NC | NC | NC | 6 U | 5 U | 5 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U |
| Carbon Disulfide | NC | 100000 | NC | 2700 | NC | NC | 6 U | 5 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| Carbon Tetrachloride | 760 | NC | 760 | NC | 22000 | NC | 6 U | 5 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| Chlorobenzene | 1100 | NC | 1100 | NC | 500000 | NC | 6 U | 5 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| Chloroethane | NC | NC | NC | 1900 | NC | NC | 6 U | 5 U | 5 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U |
| Chloroform | 370 | NC | 370 | NC | 350000 | NC | 6 U | 5 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| Chloromethane | NC | NC | NC | NC | NC | NC | 6 U | 5 U | 5 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U |
| cis-1,2-Dichloroethylene | 250 | NC | 250 | NC | 500000 | NC | 6 U | 5 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| cis-1,3-Dichloropropylene | NC | NC | NC | NC | NC | NC | 6 U | 5 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| Dibromochloromethane | NC | NC | NC | NC | NC | NC | 6 U | 5 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| Dichlorodifluoromethane | NC | NC | NC | NC | NC | NC | --- | 5 U | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Ethylbenzene | 1000 | NC | 1000 | NC | 390000 | NC | 6 U | 5 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| Methylene chloride | 50 | NC | 50 | NC | 500000 | NC | 6 U | 5 U | 5 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U |
| o-Xylene | NC | NC | NC | NC | NC | NC | 6 U | 5 U | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Styrene | NC | NC | NC | NC | NC | NC | 6 U | 5 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| Tetrachloroethene | 1300 | NC | 1300 | NC | 150000 | NC | 10 | 5 U | 3 U | 25 | 3 U | 1 J | 1 J | 15 | 15 | 8 | 3 U | 3 U | 3 U |
| Toluene | 700 | NC | 700 | NC | 500000 | NC | 6 U | --- | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| Total BTEX | NC | NC | NC | NC | NC | NC | --- | --- | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| trans-1,2-Dichloroethylene | 190 | NC | 190 | NC | 500000 | NC | 6 U | 5 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| trans-1,3-Dichloropropylene | NC | NC | NC | NC | NC | NC | 6 U | 5 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| Trichloroethylene | 470 | NC | 470 | NC | 200000 | NC | 6 U | 5 U | 3 U | 15 | 3 U | 3 | 3 U | 5 | 0.9 J | 1 J | 3 U | 3 U | 3 U |
| Trichlorofluoromethane | NC | NC | NC | NC | NC | NC | --- | 5 U | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Vinyl Acetate | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Vinyl Chloride | 20 | NC | 20 | NC | 13000 | NC | 2 U | 2 U | 5 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U |
| Xylene (m,p) | NC | NC | NC | NC | NC | NC | 6 U | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Xylene (total) | 260 | NC | 1600 | NC | 500000 | NC | --- | --- | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |

**Notes:**
All units in micrograms per kilogram (µg/kg)
**Bold** - Exceeds 6 NYCRR Part 375 or CP-51 Protection of Groundwater Soil Cleanup Objectives
[ ] - Exceeds 6 NYCRR Part 375 Unrestricted Soil Cleanup Objectives or CP-51 Residential Soil Cleanup Objectives
6 NYCRR Part 375 and CP-51 Commercial Soil Cleanup Objectives were not exceeded.
NC - No criteria exists
Sample Type Code: N - Normal, FD - Field Duplicate
ft bgs - feet below ground surface
U - Not Detected at the Detection Limit shown, J - Estimated value, UJ - Approximate Non-detect
B - Blank Contamination, BJ - Estimated Value Detected in Blank
--- Not Analyzed
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, Protection of Public Health, Commercial, December 14, 2006.
[2] Final Commissioner Policy CP-51, Table 1: Supplimental Soil Cleanup Objectives, Residential, October 21, 2010.
[3] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, Protection of Public Health, Protection of Groundwater, December 14, 2006.
[4] Final Commissioner Policy CP-51, Table 1: Supplimental Soil Cleanup Objectives, Protection of Groundwater, October 21, 2010.
[5] 6 NYCRR Part 375, Table 375-6.8(b): Unrestricted Use Soil Cleanup Objectives, Protection of Public Health, December 14, 2006.
[6] Final Commissioner Policy CP-51, Table 1: Supplimental Soil Cleanup Objectives, Commercial, October 21, 2010.

**Table 5-1a**
**Soil Sample VOC Results**
**Former ITT Rochester Form Machine Facility**
**Site #8-28-112**
**Town of Gates, New York**

| Analyte | Part 375 Unrestricted Use SCOs[1] | NY CP-51 Residential Use SCOs[2] | Part 375 Protection of Groundwater SCOs[3] | NY CP-51 Protection of Groundwater SCOs[4] | Part 375 Commercial Use SCOs[5] | NY CP-51 Commercial Use SCOs[4] | OBG-SB-6 | OBG-SB-7 | OBG-SB-7 | OBG-SB-8 | OBG-SB-8 | OBG-SB-8 | OBG-SB-9 | OBG-SB-9 | OBG-SB-10 | OBG-SB-10 | OBG-SB-11 | OBG-SB-11 | OBG-SB-12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Location | | | | | | | OBG-SB-6 | OBG-SB-7 | OBG-SB-7 | OBG-SB-8 | OBG-SB-8 | OBG-SB-8 | OBG-SB-9 | OBG-SB-9 | OBG-SB-10 | OBG-SB-10 | OBG-SB-11 | OBG-SB-11 | OBG-SB-12 |
| Sample Date: | | | | | | | 8/31/2004 | 8/31/2004 | 8/31/2004 | 8/31/2004 | 8/31/2004 | 8/31/2004 | 8/31/2004 | 8/31/2004 | 8/31/2004 | 8/31/2004 | 8/31/2004 | 8/31/2004 | 8/31/2004 |
| Sample ID: | | | | | | | OBG-SB-6 (8.5-10.5) | OBG-SB-7 (4-6) | OBG-SB-7 (8.5-10.5) | OBG-SB-8 (0-2) | OBG-SB-8 (1.5-3) | OBG-SB-8 (7-9) | OBG-SB-9 (2-4) | OBG-SB-9 (8-10) | OBG-SB-10 (4-6) | OBG-SB-10 (7-9) | OBG-SB-11 (10-11) | OBG-SB-11 (9-10) | OBG-SB-12 (4-5) |
| Start Depth (ft bgs): | | | | | | | 8.5 | 4 | 8.5 | 0 | 1.5 | 7 | 2 | 8 | 4 | 7 | 10 | 9 | 4 |
| End Depth (ft bgs): | | | | | | | 10.5 | 6 | 10.5 | 2 | 3 | 9 | 4 | 10 | 6 | 9 | 11 | 10 | 5 |
| Sample Type Code: | | | | | | | N | N | N | N | N | N | N | N | N | N | N | N | N |
| 1,1,1,2-Tetrachloroethane | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,1,1-Trichloroethane | 680 | NC | 680 | NC | 500000 | NC | 5 | 2 J | 10 | --- | 4 | 2 J | 3 | 7 | 98 | 59 | 230 | 220 | 290 |
| 1,1,2,2-Tetrachloroethane | NC | 35000 | NC | 600 | NC | NC | 3 U | 3 U | 3 U | --- | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 6 U |
| 1,1,2-Trichloroethane | NC | NC | NC | NC | NC | NC | 3 U | 3 U | 3 U | --- | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 1 J | 3 U | 6 U |
| 1,1-Dichloroethane | 270 | NC | 270 | NC | 240000 | NC | 3 U | 1 J | 3 | --- | 4 | 7 | 1 J | 8 | 3 U | 3 U | 3 U | 3 U | 6 U |
| 1,1-Dichloroethylene | 330 | NC | 330 | NC | 500000 | NC | 4 | 3 U | 13 | --- | 1 J | 3 U | 3 U | 2 J | 23 | 3 | 26 | 28 | 6 J |
| 1,2,3-Trichloropropane | NC | 80000 | NC | 340 | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,2-Dibromo-3-Chloropropane | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,2-Dibromoethane | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,2-Dichloroethane | 20 | NC | 20 | NC | 30000 | NC | 3 U | 3 U | 3 U | --- | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 6 U |
| 1,2-Dichloroethene | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,2-Dichloropropane | NC | NC | NC | NC | NC | NC | 3 U | 3 U | 3 U | --- | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 6 U |
| 2-Butanone | 120 | 100000 | 120 | 300 | 500000 | NC | 11 U | 12 U | 11 U | --- | 37 | 12 U | 12 U | 11 U | 11 U | 11 U | 1 J | 11 U | 24 U |
| 2-Chloroethyl vinyl ether | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2-Chlorotoluene | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2-Hexanone | NC | NC | NC | NC | NC | NC | 6 U | 6 U | 6 U | --- | 6 U | 6 U | 6 U | 6 U | 6 U | 5 U | 6 U | 6 U | 12 U |
| 4-Chlorotoluene | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4-Methyl-2-Pentanone | NC | NC | NC | 1000 | NC | NC | 6 U | 6 U | 6 U | --- | 6 U | 6 U | 6 U | 6 U | 6 U | 5 U | 6 U | 6 U | 12 U |
| Acetone | 50 | NC | 50 | NC | 500000 | NC | 11 U | 12 U | 11 J | --- | **140** | 12 U | 12 U | 11 U | 11 U | 11 U | 11 J | 11 U | 24 J |
| Acrolein | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Acrylonitrile | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Benzene | 60 | NC | 60 | NC | 44000 | NC | 3 U | 3 U | 3 U | --- | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 6 U |
| Bromobenzene | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Bromodichloromethane | NC | NC | NC | NC | NC | NC | 3 U | 3 U | 3 U | --- | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 6 U |
| Bromoform | NC | NC | NC | NC | NC | NC | 3 U | 3 U | 3 U | --- | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 6 U |
| Bromomethane | NC | NC | NC | NC | NC | NC | 6 U | 6 U | 6 U | --- | 6 U | 6 U | 6 U | 6 U | 6 U | 5 U | 6 U | 6 U | 12 U |
| Carbon Disulfide | NC | 100000 | NC | 2700 | NC | NC | 3 U | 3 U | 3 U | --- | 3 | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 6 U |
| Carbon Tetrachloride | 760 | NC | 760 | NC | 22000 | NC | 3 U | 3 U | 3 U | --- | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 6 U |
| Chlorobenzene | 1100 | NC | 1100 | NC | 500000 | NC | 3 U | 3 U | 3 U | --- | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 6 U |
| Chloroethane | NC | NC | NC | 1900 | NC | NC | 6 U | 6 U | 6 U | --- | 6 U | 6 U | 6 U | 6 U | 6 U | 5 U | 6 U | 6 U | 12 U |
| Chloroform | 370 | NC | 370 | NC | 350000 | NC | 3 U | 3 U | 3 U | --- | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 6 U |
| Chloromethane | NC | NC | NC | NC | NC | NC | 6 U | 6 U | 6 U | --- | 6 U | 6 U | 6 U | 6 U | 6 U | 5 U | 6 U | 6 U | 12 U |
| cis-1,2-Dichloroethylene | 250 | NC | 250 | NC | 500000 | NC | 3 U | 3 U | 3 U | --- | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 6 U |
| cis-1,3-Dichloropropylene | NC | NC | NC | NC | NC | NC | 3 U | 3 U | 3 U | --- | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 6 U |
| Dibromochloromethane | NC | NC | NC | NC | NC | NC | 3 U | 3 U | 3 U | --- | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 6 U |
| Dichlorodifluoromethane | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Ethylbenzene | 1000 | NC | 1000 | NC | 390000 | NC | 3 U | 3 U | 3 U | --- | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 6 U |
| Methylene chloride | 50 | NC | 50 | NC | 500000 | NC | 6 U | 6 U | 6 J | --- | 6 U | 6 U | 6 U | 6 U | 6 U | 5 U | 6 J | 6 U | 12 J |
| o-Xylene | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Styrene | NC | NC | NC | NC | NC | NC | 3 U | 3 U | 3 U | --- | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 6 U |
| Tetrachloroethene | 1300 | NC | 1300 | NC | 150000 | NC | 3 U | 0.7 J | 3 U | --- | 1 J | 5 | 3 U | 3 U | 7 | 5 | 3 U | 3 U | 6 U |
| Toluene | 700 | NC | 700 | NC | 500000 | NC | 3 U | 3 U | 3 U | --- | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 6 U |
| Total BTEX | NC | NC | NC | NC | NC | NC | 3 U | 3 U | 3 U | --- | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 6 U |
| trans-1,2-Dichloroethylene | 190 | NC | 190 | NC | 500000 | NC | 3 U | 3 U | 3 U | --- | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 6 U |
| trans-1,3-Dichloropropylene | NC | NC | NC | NC | NC | NC | 3 U | 3 U | 3 U | --- | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 6 U |
| Trichloroethylene | 470 | NC | 470 | NC | 200000 | NC | 3 U | 3 U | 0.8 J | --- | 1 J | 0.6 J | 3 U | 3 U | 2 J | 0.7 J | 3 | 6 | 2 J |
| Trichlorofluoromethane | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Vinyl Acetate | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Vinyl Chloride | 20 | NC | 20 | NC | 13000 | NC | 6 U | 6 U | 6 U | --- | 6 U | 6 U | 6 U | 6 U | 6 U | 5 U | 6 U | 6 U | 12 U |
| Xylene (m,p) | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Xylene (total) | 260 | NC | 1600 | NC | 500000 | NC | 3 U | 3 U | 3 U | --- | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 6 U |

**Notes:**
All units in micrograms per kilogram (µg/kg)
**Bold** - Exceeds 6 NYCRR Part 375 or CP-51 Protection of Groundwater Soil Cleanup Objectives
[ ] - Exceeds 6 NYCRR Part 375 Unrestricted Soil Cleanup Objectives or CP-51 Residential Soil Cleanup Objectives
6 NYCRR Part 375 and CP-51 Commercial Soil Cleanup Objectives were not exceeded.
NC - No criteria exists
Sample Type Code: N - Normal, FD - Field Duplicate
ft bgs - feet below ground surface
U - Not Detected at the Detection Limit shown, J - Estimated value, UJ - Approximate Non-detect
B - Blank Contamination, BJ - Estimated Value Detected in Blank
--- Not Analyzed
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, Protection of Public Health, Commercial, December 14, 2006.
[2] Final Commissioner Policy CP-51, Table 1: Supplimental Soil Cleanup Objectives, Residential, October 21, 2010.
[3] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, Protection of Public Health, Protection of Groundwater, December 14, 2006.
[4] Final Commissioner Policy CP-51, Table 1: Supplimental Soil Cleanup Objectives, Protection of Groundwater, October 21, 2010.
[5] 6 NYCRR Part 375, Table 375-6.8(b): Unrestricted Use Soil Cleanup Objectives, Protection of Public Health, December 14, 2006.
[6] Final Commissioner Policy CP-51, Table 1: Supplimental Soil Cleanup Objectives, Commercial, October 21, 2010.

**Table 5-1a**
**Soil Sample VOC Results**
**Former ITT Rochester Form Machine Facility**
**Site #8-28-112**
**Town of Gates, New York**

| Analyte | Part 375 Unrestricted Use SCOs[1] | NY CP-51 Residential Use SCOs[2] | Part 375 Protection of Groundwater SCOs[3] | NY CP-51 Protection of Groundwater SCOs[4] | Part 375 Commercial Use SCOs[5] | NY CP-51 Commercial Use SCOs[4] | OBG-SB-12 8/31/2004 OBG-SB-12 (5-7) 5 7 N | OBG-SB-13 8/31/2004 OBG-SB-13 (7-8) 7 8 N | OBG-SB-13 8/31/2004 OBG-SB-13 (9.5-10.5) 9.5 10.5 N | OBG-SB-14 8/31/2004 OBG-SB-14 (2-3) 2 3 N | OBG-SB-14 8/31/2004 OBG-SB-14 (9-10.5) 9 10.5 N | OBG-SB-15 8/31/2004 OBG-SB-15 (0-2) 0 2 N | OBG-SB-15 8/31/2004 OBG-SB-15 (8-9) 8 9 N | OBG-SB-16 9/1/2004 DUP-1_09012004 5 7.5 FD | OBG-SB-16 9/1/2004 OBG-SB-16 (5-7.5) 5 7.5 N | OBG-SB-16 9/1/2004 OBG-SB-16 (7.5-9) 7.5 9 N | OBG-SB-17 9/1/2004 OBG-SB-17 (4-7) 4 7 N | OBG-SB-17 9/1/2004 OBG-SB-17 (8-9) 8 9 N | OBG-SB-18 9/1/2004 OBG-SB-18 (6-7) 6 7 N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,1,1-Trichloroethane | 680 | NC | 680 | NC | 500000 | NC | 400 | 100 | **710** | 7 | 4 | 1 J | 4 | 79 | 130 | 12 | 9 | 460 | 39 |
| 1,1,2,2-Tetrachloroethane | NC | 35000 | NC | 600 | NC | NC | 7 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| 1,1,2-Trichloroethane | NC | NC | NC | NC | NC | NC | 7 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| 1,1-Dichloroethane | 270 | NC | 270 | NC | 240000 | NC | 7 U | 1 J | 4 | 7 | 4 | 3 U | 5 | 74 | 110 | 2 J | 3 U | 110 | 39 |
| 1,1-Dichloroethylene | 330 | NC | 330 | NC | 500000 | NC | 8 | 11 | 82 | 2 J | 3 U | 3 U | 2 J | 1 J | 1 J | 3 U | 3 U | 39 | 2 J |
| 1,2,3-Trichloropropane | NC | 80000 | NC | 340 | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,2-Dibromo-3-Chloropropane | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,2-Dibromoethane | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,2-Dichloroethane | 20 | NC | 20 | NC | 30000 | NC | 7 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 1 J | 5 |
| 1,2-Dichloroethene | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,2-Dichloropropane | NC | NC | NC | NC | NC | NC | 7 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| 2-Butanone | 120 | 100000 | 120 | 300 | 500000 | NC | 27 U | 12 U | 12 U | 47 | 12 U | 11 U | 12 U | 4 J | 2 J | 11 U | 12 U | 11 U | 12 U |
| 2-Chloroethyl vinyl ether | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2-Chlorotoluene | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2-Hexanone | NC | NC | NC | NC | NC | NC | 14 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U |
| 4-Chlorotoluene | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4-Methyl-2-Pentanone | NC | NC | NC | 1000 | NC | NC | 14 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U |
| Acetone | 50 | NC | 50 | NC | 500000 | NC | 27 J | 12 J | 12 J | **150** | 12 J | 11 U | 12 U | 23 | 13 | 11 J | 12 U | 11 U | 12 U |
| Acrolein | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Acrylonitrile | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Benzene | 60 | NC | 60 | NC | 44000 | NC | 7 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| Bromobenzene | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Bromodichloromethane | NC | NC | NC | NC | NC | NC | 7 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| Bromoform | NC | NC | NC | NC | NC | NC | 7 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| Bromomethane | NC | NC | NC | NC | NC | NC | 14 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U |
| Carbon Disulfide | NC | 100000 | NC | 2700 | NC | NC | 7 U | 3 U | 3 U | 11 | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| Carbon Tetrachloride | 760 | NC | 760 | NC | 22000 | NC | 7 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| Chlorobenzene | 1100 | NC | 1100 | NC | 500000 | NC | 7 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| Chloroethane | NC | NC | NC | 1900 | NC | NC | 14 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U |
| Chloroform | 370 | NC | 370 | NC | 350000 | NC | 7 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| Chloromethane | NC | NC | NC | NC | NC | NC | 14 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U |
| cis-1,2-Dichloroethylene | 250 | NC | 250 | NC | 500000 | NC | 7 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| cis-1,3-Dichloropropylene | NC | NC | NC | NC | NC | NC | 7 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| Dibromochloromethane | NC | NC | NC | NC | NC | NC | 7 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| Dichlorodifluoromethane | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Ethylbenzene | 1000 | NC | 1000 | NC | 390000 | NC | 7 U | 3 U | 0.6 J | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| Methylene chloride | 50 | NC | 50 | NC | 500000 | NC | 14 J | 6 J | 6 J | 6 U | 6 U | 6 U | 6 U | 2 J | 6 J | 6 U | 6 U | 6 J | 6 J |
| o-Xylene | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Styrene | NC | NC | NC | NC | NC | NC | 7 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| Tetrachloroethene | 1300 | NC | 1300 | NC | 150000 | NC | 7 U | 3 J | 7 | 3 U | 9 | 3 U | 2 J | 46 | 75 | 9 | 13 | 20 | 8 |
| Toluene | 700 | NC | 700 | NC | 500000 | NC | 7 U | 3 U | 3 | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| Total BTEX | NC | NC | NC | NC | NC | NC | 7 U | 3 U | 9.6 | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| trans-1,2-Dichloroethylene | 190 | NC | 190 | NC | 500000 | NC | 7 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| trans-1,3-Dichloropropylene | NC | NC | NC | NC | NC | NC | 7 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| Trichloroethylene | 470 | NC | 470 | NC | 200000 | NC | 2 J | 4 | 11 | 2 J | 1 J | 3 U | 3 U | 1 J | 2 J | 3 U | 3 U | 5 | 3 J |
| Trichlorofluoromethane | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Vinyl Acetate | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Vinyl Chloride | 20 | NC | 20 | NC | 13000 | NC | 14 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U |
| Xylene (m,p) | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Xylene (total) | 260 | NC | 1600 | NC | 500000 | NC | 7 U | 3 U | 6 | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |

**Notes:**
All units in micrograms per kilogram (µg/kg)
**Bold** - Exceeds 6 NYCRR Part 375 or CP-51 Protection of Groundwater Soil Cleanup Objectives
[ ] - Exceeds 6 NYCRR Part 375 Unrestricted Soil Cleanup Objectives or CP-51 Residential Soil Cleanup Objectives
6 NYCRR Part 375 and CP-51 Commercial Soil Cleanup Objectives were not exceeded.
NC - No criteria exists
Sample Type Code: N - Normal, FD - Field Duplicate
ft bgs - feet below ground surface
U - Not Detected at the Detection Limit shown, J - Estimated value, UJ - Approximate Non-detect
B - Blank Contamination, BJ - Estimated Value Detected in Blank
--- Not Analyzed
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, Protection of Public Health, Commercial, December 14, 2006.
[2] Final Commissioner Policy CP-51, Table 1: Supplimental Soil Cleanup Objectives, Residential, October 21, 2010.
[3] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, Protection of Public Health, Protection of Groundwater, December 14, 2006.
[4] Final Commissioner Policy CP-51, Table 1: Supplimental Soil Cleanup Objectives, Protection of Groundwater, October 21, 2010.
[5] 6 NYCRR Part 375, Table 375-6.8(b): Unrestricted Use Soil Cleanup Objectives, Protection of Public Health, December 14, 2006.
[6] Final Commissioner Policy CP-51, Table 1: Supplimental Soil Cleanup Objectives, Commercial, October 21, 2010.

**Table 5-1a**
**Soil Sample VOC Results**
**Former ITT Rochester Form Machine Facility**
**Site #8-28-112**
**Town of Gates, New York**

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | **Location** | **OBG-SB-18** | **OBG-SB-19** | **OBG-SB-19** | **OBG-SB-20** | **OBG-SB-20** | **OBG-SB-20** | **OBG-SB-21** | **OBG-SB-21** | **OBG-SB-22** | **OBG-SB-22** | **OBG-SB-23** | **OBG-SB-23** | **OBG-SB-24** |
| | | | | | | | **Sample Date:** | 9/1/2004 | 9/1/2004 | 9/1/2004 | 9/1/2004 | 9/1/2004 | 9/1/2004 | 9/1/2004 | 9/1/2004 | 9/1/2004 | 9/1/2004 | 9/1/2004 | 9/1/2004 | 9/1/2004 |
| | | | | | | | **Sample ID:** | OBG-SB-18 (7-9.5) | OBG-SB-19 (4-7) | OBG-SB-19 (8.5-10) | DUP-2_09012004 | OBG-SB-20 (2-4) | OBG-SB-20 (6-7) | OBG-SB-21 (4-6) | OBG-SB-21 (9-10) | OBG-SB-22 (1-2) | OBG-SB-22 (6-7) | OBG-SB-23 (1-2) | OBG-SB-23 (6-7) | OBG-SB-24 (1-2) |
| | | | | | | | **Start Depth (ft bgs):** | 7 | 4 | 8.5 | 2 | 2 | 6 | 4 | 9 | 1 | 6 | 1 | 6 | 1 |
| | | | | | | | **End Depth (ft bgs):** | 9.5 | 7 | 10 | 4 | 4 | 7 | 6 | 10 | 2 | 7 | 2 | 7 | 2 |
| | | | | | | | **Sample Type Code:** | N | N | N | FD | N | N | N | N | N | N | N | N | N |
| **Analyte** | **Part 375 Unrestricted Use SCOs[1]** | **NY CP-51 Residential Use SCOs[2]** | **Part 375 Protection of Groundwater SCOs[3]** | **NY CP-51 Protection of Groundwater SCOs[4]** | **Part 375 Commercial Use SCOs[5]** | **NY CP-51 Commercial Use SCOs[4]** | | | | | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NC | NC | NC | NC | NC | NC | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,1,1-Trichloroethane | 680 | NC | 680 | NC | 500000 | NC | | 120 | 90 | 620 | 2 J | 20 | 440 | 220 | 410 | 3 | 3 | 1 J | 23 | 0.8 J |
| 1,1,2,2-Tetrachloroethane | NC | 35000 | NC | 600 | NC | NC | | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| 1,1,2-Trichloroethane | NC | NC | NC | NC | NC | NC | | 3 U | 1 J | 2 J | 3 U | 1 J | 5 | 3 U | 3 J | 3 U | 3 U | 3 U | 3 U | 3 U |
| 1,1-Dichloroethane | 270 | NC | 270 | NC | 240000 | NC | | 41 | 0.6 J | 1 J | 3 U | 3 U | 2 J | 2 J | 1 J | 4 | 0.8 J | 9 | 2 J | 10 |
| 1,1-Dichloroethylene | 330 | NC | 330 | NC | 500000 | NC | | 24 | 1 J | 5 | 3 U | 3 U | 28 | 3 J | 2 J | 3 U | 3 U | 4 | 1 J | 6 |
| 1,2,3-Trichloropropane | NC | 80000 | NC | 340 | NC | NC | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,2-Dibromo-3-Chloropropane | NC | NC | NC | NC | NC | NC | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,2-Dibromoethane | NC | NC | NC | NC | NC | NC | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,2-Dichloroethane | 20 | NC | 20 | NC | 30000 | NC | | 4 | 3 U | 0.7 J | 3 U | 3 U | 1 J | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| 1,2-Dichloroethene | NC | NC | NC | NC | NC | NC | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,2-Dichloropropane | NC | NC | NC | NC | NC | NC | | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| 2-Butanone | 120 | 100000 | 120 | 300 | 500000 | NC | | 11 U | 11 U | 11 U | 12 U | 12 U | 11 U | 11 U | 13 U | 25 | 11 U | 76 | 11 U | 41 |
| 2-Chloroethyl vinyl ether | NC | NC | NC | NC | NC | NC | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2-Chlorotoluene | NC | NC | NC | NC | NC | NC | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2-Hexanone | NC | NC | NC | NC | NC | NC | | 5 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U |
| 4-Chlorotoluene | NC | NC | NC | NC | NC | NC | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4-Methyl-2-Pentanone | NC | NC | NC | 1000 | NC | NC | | 5 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U |
| Acetone | 50 | NC | 50 | NC | 500000 | NC | | 11 U | 11 J | 11 U | 12 U | 12 U | 11 U | 11 U | 13 U | **93** | 11 U | **200** | 11 U | **120** |
| Acrolein | NC | NC | NC | NC | NC | NC | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Acrylonitrile | NC | NC | NC | NC | NC | NC | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Benzene | 60 | NC | 60 | NC | 44000 | NC | | 3 U | 3 U | 1 J | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| Bromobenzene | NC | NC | NC | NC | NC | NC | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Bromodichloromethane | NC | NC | NC | NC | NC | NC | | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| Bromoform | NC | NC | NC | NC | NC | NC | | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| Bromomethane | NC | NC | NC | NC | NC | NC | | 5 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U |
| Carbon Disulfide | NC | 100000 | NC | 2700 | NC | NC | | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 5 | 3 U | 2 J |
| Carbon Tetrachloride | 760 | NC | 760 | NC | 22000 | NC | | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| Chlorobenzene | 1100 | NC | 1100 | NC | 500000 | NC | | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| Chloroethane | NC | NC | NC | 1900 | NC | NC | | 5 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 2 J | 6 U | 6 U |
| Chloroform | 370 | NC | 370 | NC | 350000 | NC | | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| Chloromethane | NC | NC | NC | NC | NC | NC | | 5 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U |
| cis-1,2-Dichloroethylene | 250 | NC | 250 | NC | 500000 | NC | | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| cis-1,3-Dichloropropylene | NC | NC | NC | NC | NC | NC | | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| Dibromochloromethane | NC | NC | NC | NC | NC | NC | | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| Dichlorodifluoromethane | NC | NC | NC | NC | NC | NC | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Ethylbenzene | 1000 | NC | 1000 | NC | 390000 | NC | | 3 U | 3 U | 1 J | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| Methylene chloride | 50 | NC | 50 | NC | 500000 | NC | | 5 J | 6 J | 6 J | 6 U | 6 J | 6 J | 6 J | 6 J | 6 J | 6 J | 6 J | 6 J | 6 J |
| o-Xylene | NC | NC | NC | NC | NC | NC | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Styrene | NC | NC | NC | NC | NC | NC | | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| Tetrachloroethene | 1300 | NC | 1300 | NC | 150000 | NC | | 10 | 29 | 100 | 3 J | 21 | 200 | 85 | 450 | 1 J | 2 J | 1 J | 4 | 0.6 J |
| Toluene | 700 | NC | 700 | NC | 500000 | NC | | 3 U | 3 U | 5 | 3 U | 3 U | 3 U | 2 J | 3 J | 3 U | 3 U | 3 U | 3 U | 3 U |
| Total BTEX | NC | NC | NC | NC | NC | NC | | 3 U | 3 U | 16 | 3 U | 3 U | 3 U | 7 | 8 | 3 U | 3 U | 3 U | 3 U | 3 U |
| trans-1,2-Dichloroethylene | 190 | NC | 190 | NC | 500000 | NC | | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| trans-1,3-Dichloropropylene | NC | NC | NC | NC | NC | NC | | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| Trichloroethylene | 470 | NC | 470 | NC | 200000 | NC | | 8 | 3 | 15 | 3 U | 2 J | 16 | 6 | 20 | 3 U | 3 U | 2 J | 1 J | 1 J |
| Trichlorofluoromethane | NC | NC | NC | NC | NC | NC | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Vinyl Acetate | NC | NC | NC | NC | NC | NC | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Vinyl Chloride | 20 | NC | 20 | NC | 13000 | NC | | 5 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U |
| Xylene (m,p) | NC | NC | NC | NC | NC | NC | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Xylene (total) | 260 | NC | 1600 | NC | 500000 | NC | | 3 U | 3 U | 9 | 3 U | 3 U | 3 U | 5 | 5 | 3 U | 3 U | 3 U | 3 U | 3 U |

**Notes:**
All units in micrograms per kilogram (µg/kg)
**Bold** - Exceeds 6 NYCRR Part 375 or CP-51 Protection of Groundwater Soil Cleanup Objectives
[ ] - Exceeds 6 NYCRR Part 375 Unrestricted Soil Cleanup Objectives or CP-51 Residential Soil Cleanup Objectives
6 NYCRR Part 375 and CP-51 Commercial Soil Cleanup Objectives were not exceeded.
NC - No criteria exists
Sample Type Code: N - Normal, FD - Field Duplicate
ft bgs - feet below ground surface
U - Not Detected at the Detection Limit shown, J - Estimated value, UJ - Approximate Non-detect
B - Blank Contamination, BJ - Estimated Value Detected in Blank
--- Not Analyzed
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, Protection of Public Health, Commercial, December 14, 2006.
[2] Final Commissioner Policy CP-51, Table 1: Supplimental Soil Cleanup Objectives, Residential, October 21, 2010.
[3] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, Protection of Public Health, Protection of Groundwater, December 14, 2006.
[4] Final Commissioner Policy CP-51, Table 1: Supplimental Soil Cleanup Objectives, Protection of Groundwater, October 21, 2010.
[5] 6 NYCRR Part 375, Table 375-6.8(b): Unrestricted Use Soil Cleanup Objectives, Protection of Public Health, December 14, 2006.
[6] Final Commissioner Policy CP-51, Table 1: Supplimental Soil Cleanup Objectives, Commercial, October 21, 2010.

**Table 5-1a**
**Soil Sample VOC Results**
**Former ITT Rochester Form Machine Facility**
**Site #8-28-112**
**Town of Gates, New York**

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | **Location** | **OBG-SB-24** | **OBG-SB-25** | **OBG-SB-25** | **OBG-SB-26** | **OBG-SB-26** | **OBG-SB-27** | **OBG-SB-27** | **OBG-SB-28** | **OBG-SB-28** | **OBG-SB-28** | **OBG-SB-29** | **OBG-SB-30** | **OBG-SB-30** |
| | | | | | | **Sample Date:** | 9/1/2004 | 9/1/2004 | 9/1/2004 | 9/1/2004 | 9/1/2004 | 9/1/2004 | 9/1/2004 | 9/1/2004 | 9/1/2004 | 9/2/2004 | 9/2/2004 | 9/2/2004 | 9/2/2004 |
| | | | | | | **Sample ID:** | OBG-SB-24 (8-9) | OBG-SB-25 (4-6) | OBG-SB-25 (6-8) | OBG-SB-26 (0.5-1.5) | OBG-SB-26 (4-5) | OBG-SB-27 (1-2) | OBG-SB-27 (6.5-7.5) | OBG-SB-28 (10-11) | OBG-SB-28 (1-2) | OBG-SB-29 (2-4) | OBG-SB-29 (5-6.5) | DUP-3_09022004 | OBG-SB-30 (4-8) |
| | | | | | | **Start Depth (ft bgs):** | 8 | 4 | 6 | 0.5 | 4 | 1 | 6.5 | 10 | 1 | 2 | 5 | 8 | 4 |
| | | | | | | **End Depth (ft bgs):** | 9 | 6 | 8 | 1.5 | 5 | 2 | 7.5 | 11 | 2 | 4 | 6.5 | 10 | 8 |
| | | | | | | **Sample Type Code:** | N | N | N | N | N | N | N | N | N | N | N | FD | N |
| **Analyte** | **Part 375 Unrestricted Use SCOs[1]** | **NY CP-51 Residential Use SCOs[2]** | **Part 375 Protection of Groundwater SCOs[3]** | **NY CP-51 Protection of Groundwater SCOs[4]** | **Part 375 Commercial Use SCOs[5]** | **NY CP-51 Commercial Use SCOs[4]** | | | | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,1,1-Trichloroethane | 680 | NC | 680 | NC | 500000 | NC | 120 | 1 J | 3 J | 1 J | 2 J | 3 U | 4 | 16 | 3 U | 32 | 21 | 12 | 6 |
| 1,1,2,2-Tetrachloroethane | NC | 35000 | NC | 600 | NC | NC | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| 1,1,2-Trichloroethane | NC | NC | NC | NC | NC | NC | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| 1,1-Dichloroethane | 270 | NC | 270 | NC | 240000 | NC | 5 | 1 J | 2 J | 1 J | 1 J | 4 | 1 J | 3 | 3 | 0.8 J | 3 U | 3 U | 3 U |
| 1,1-Dichloroethylene | 330 | NC | 330 | NC | 500000 | NC | 2 J | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 0.8 J | 3 U | 2 J | 2 J | 2 J | 2 J |
| 1,2,3-Trichloropropane | NC | 80000 | NC | 340 | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,2-Dibromo-3-Chloropropane | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,2-Dibromoethane | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,2-Dichloroethane | 20 | NC | 20 | NC | 30000 | NC | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| 1,2-Dichloroethene | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,2-Dichloropropane | NC | NC | NC | NC | NC | NC | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| 2-Butanone | 120 | 100000 | 120 | 300 | 500000 | NC | 13 U | 12 U | 12 U | 12 U | 12 U | 5 J | 12 U | 11 U | 9 J | 12 U | 11 U | 11 U | 12 U |
| 2-Chloroethyl vinyl ether | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2-Chlorotoluene | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2-Hexanone | NC | NC | NC | NC | NC | NC | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U |
| 4-Chlorotoluene | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4-Methyl-2-Pentanone | NC | NC | NC | 1000 | NC | NC | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U |
| Acetone | 50 | NC | 50 | NC | 500000 | NC | 13 U | 12 U | 12 U | 12 U | 12 U | 12 | 12 U | 11 U | 12 | 12 U | 11 U | 11 U | 12 U |
| Acrolein | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Acrylonitrile | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Benzene | 60 | NC | 60 | NC | 44000 | NC | 0.8 J | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| Bromobenzene | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Bromodichloromethane | NC | NC | NC | NC | NC | NC | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| Bromoform | NC | NC | NC | NC | NC | NC | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| Bromomethane | NC | NC | NC | NC | NC | NC | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U |
| Carbon Disulfide | NC | 100000 | NC | 2700 | NC | NC | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 1 J | 3 U | 3 U | 3 U | 3 U |
| Carbon Tetrachloride | 760 | NC | 760 | NC | 22000 | NC | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| Chlorobenzene | 1100 | NC | 1100 | NC | 500000 | NC | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| Chloroethane | NC | NC | NC | 1900 | NC | NC | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U |
| Chloroform | 370 | NC | 370 | NC | 350000 | NC | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| Chloromethane | NC | NC | NC | NC | NC | NC | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U |
| cis-1,2-Dichloroethylene | 250 | NC | 250 | NC | 500000 | NC | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| cis-1,3-Dichloropropylene | NC | NC | NC | NC | NC | NC | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| Dibromochloromethane | NC | NC | NC | NC | NC | NC | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| Dichlorodifluoromethane | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Ethylbenzene | 1000 | NC | 1000 | NC | 390000 | NC | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| Methylene chloride | 50 | NC | 50 | NC | 500000 | NC | 6 U | 6 J | 6 J | 6 J | 6 J | 6 J | 6 J | 6 J | 6 J | 6 J | 6 U | 0.8 J | 6 U |
| o-Xylene | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Styrene | NC | NC | NC | NC | NC | NC | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| Tetrachloroethene | 1300 | NC | 1300 | NC | 150000 | NC | 76 | 3 U | 3 U | 3 U | 3 U | 3 U | 2 J | 8 | 3 U | 3 U | 3 U | 3 U | 3 U |
| Toluene | 700 | NC | 700 | NC | 500000 | NC | 2 J | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| Total BTEX | NC | NC | NC | NC | NC | NC | 2.8 | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 0.7 | 3 U |
| trans-1,2-Dichloroethylene | 190 | NC | 190 | NC | 500000 | NC | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| trans-1,3-Dichloropropylene | NC | NC | NC | NC | NC | NC | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| Trichloroethylene | 470 | NC | 470 | NC | 200000 | NC | 10 | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 0.7 J | 3 U | 2 J | 3 U | 3 U | 3 U |
| Trichlorofluoromethane | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Vinyl Acetate | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Vinyl Chloride | 20 | NC | 20 | NC | 13000 | NC | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U |
| Xylene (m,p) | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Xylene (total) | 260 | NC | 1600 | NC | 500000 | NC | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 0.7 J | 3 U |

**Notes:**
All units in micrograms per kilogram (µg/kg)
**Bold** - Exceeds 6 NYCRR Part 375 or CP-51 Protection of Groundwater Soil Cleanup Objectives
[ ] - Exceeds 6 NYCRR Part 375 Unrestricted Soil Cleanup Objectives or CP-51 Residential Soil Cleanup Objectives
6 NYCRR Part 375 and CP-51 Commercial Soil Cleanup Objectives were not exceeded.
NC - No criteria exists
Sample Type Code: N - Normal, FD - Field Duplicate
ft bgs - feet below ground surface
U - Not Detected at the Detection Limit shown, J - Estimated value, UJ - Approximate Non-detect
B - Blank Contamination, BJ - Estimated Value Detected in Blank
--- Not Analyzed
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, Protection of Public Health, Commercial, December 14, 2006.
[2] Final Commissioner Policy CP-51, Table 1: Supplimental Soil Cleanup Objectives, Residential, October 21, 2010.
[3] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, Protection of Public Health, Protection of Groundwater, December 14, 2006.
[4] Final Commissioner Policy CP-51, Table 1: Supplimental Soil Cleanup Objectives, Protection of Groundwater, October 21, 2010.
[5] 6 NYCRR Part 375, Table 375-6.8(b): Unrestricted Use Soil Cleanup Objectives, Protection of Public Health, December 14, 2006.
[6] Final Commissioner Policy CP-51, Table 1: Supplimental Soil Cleanup Objectives, Commercial, October 21, 2010.

**Table 5-1a**
**Soil Sample VOC Results**
**Former ITT Rochester Form Machine Facility**
**Site #8-28-112**
**Town of Gates, New York**

| | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | **Location:** | **OBG-SB-30** | **OBG-SB-31** | **OBG-SB-31** | **OBG-SB-32** | **OBG-SB-32** | **OBG-SB-33** | **OBG-SB-33** | **OBG-SB-34** | **OBG-SB-34** | **OBG-SB-35** | **OBG-SB-35** | **OBG-SB-35** | **OBG-SB-36** |
| | | | | | | **Sample Date:** | 9/2/2004 | 9/2/2004 | 9/2/2004 | 9/2/2004 | 9/2/2004 | 9/2/2004 | 9/2/2004 | 9/2/2004 | 9/2/2004 | 9/2/2004 | 9/2/2004 | 9/2/2004 | 9/2/2004 |
| | | | | | | **Sample ID:** | OBG-SB-30 (8-10) | OBG-SB-31 (4-6) | OBG-SB-31 (7-8.5) | OBG-SB-32 (6-7) | OBG-SB-32 (7-8.5) | OBG-SB-33 (0-2) | OBG-SB-33 (4-6) | OBG-SB-34 (2-4) | OBG-SB-34 (6-8) | DUP-4_09022004 | OBG-SB-35 (2-4) | OBG-SB-35 (5-7) | OBG-SB-36 (2-4) |
| | | | | | | **Start Depth (ft bgs):** | 8 | 4 | 7 | 6 | 7 | 0 | 4 | 2 | 6 | 5 | 2 | 5 | 2 |
| | | | | | | **End Depth (ft bgs):** | 10 | 6 | 8.5 | 7 | 8.5 | 2 | 6 | 4 | 8 | 5 | 4 | 7 | 4 |
| | | | | | | **Sample Type Code:** | N | N | N | N | N | N | N | N | N | FD | N | N | N |
| **Analyte** | **Part 375 Unrestricted Use SCOs[1]** | **NY CP-51 Residential Use SCOs[2]** | **Part 375 Protection of Groundwater SCOs[3]** | **NY CP-51 Protection of Groundwater SCOs[4]** | **Part 375 Commercial Use SCOs[5]** | **NY CP-51 Commercial Use SCOs[4]** | | | | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,1,1-Trichloroethane | 680 | NC | 680 | NC | 500000 | NC | 2 J | 3 U | 73 | 7 | 3 U | 3 U | 3 U | 3 U | 46 | 1 J | 1 J | 2 J | 3 U |
| 1,1,2,2-Tetrachloroethane | NC | 35000 | NC | 600 | NC | NC | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| 1,1,2-Trichloroethane | NC | NC | NC | NC | NC | NC | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| 1,1-Dichloroethane | 270 | NC | 270 | NC | 240000 | NC | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| 1,1-Dichloroethylene | 330 | NC | 330 | NC | 500000 | NC | 1 J | 3 U | 13 | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| 1,2,3-Trichloropropane | NC | 80000 | NC | 340 | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,2-Dibromo-3-Chloropropane | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,2-Dibromoethane | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,2-Dichloroethane | 20 | NC | 20 | NC | 30000 | NC | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| 1,2-Dichloroethene | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,2-Dichloropropane | NC | NC | NC | NC | NC | NC | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| 2-Butanone | 120 | 100000 | 120 | 300 | 500000 | NC | 11 U | 11 U | 11 U | 13 U | 11 U | 11 U | 11 U | 11 U | 12 U | 11 U | 11 U | 11 U | 11 U |
| 2-Chloroethyl vinyl ether | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2-Chlorotoluene | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2-Hexanone | NC | NC | NC | NC | NC | NC | 6 U | 6 U | 5 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U |
| 4-Chlorotoluene | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4-Methyl-2-Pentanone | NC | NC | NC | 1000 | NC | NC | 6 U | 6 U | 5 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U |
| Acetone | 50 | NC | 50 | NC | 500000 | NC | 11 U | 11 U | 11 U | 13 U | 11 U | 11 U | 11 U | 11 U | 12 U | 11 U | 11 U | 11 U | 11 U |
| Acrolein | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Acrylonitrile | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Benzene | 60 | NC | 60 | NC | 44000 | NC | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| Bromobenzene | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Bromodichloromethane | NC | NC | NC | NC | NC | NC | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| Bromoform | NC | NC | NC | NC | NC | NC | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| Bromomethane | NC | NC | NC | NC | NC | NC | 6 U | 6 U | 5 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U |
| Carbon Disulfide | NC | 100000 | NC | 2700 | NC | NC | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| Carbon Tetrachloride | 760 | NC | 760 | NC | 22000 | NC | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| Chlorobenzene | 1100 | NC | 1100 | NC | 500000 | NC | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| Chloroethane | NC | NC | NC | 1900 | NC | NC | 6 U | 6 U | 5 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U |
| Chloroform | 370 | NC | 370 | NC | 350000 | NC | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| Chloromethane | NC | NC | NC | NC | NC | NC | 6 U | 6 U | 5 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U |
| cis-1,2-Dichloroethylene | 250 | NC | 250 | NC | 500000 | NC | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| cis-1,3-Dichloropropylene | NC | NC | NC | NC | NC | NC | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| Dibromochloromethane | NC | NC | NC | NC | NC | NC | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| Dichlorodifluoromethane | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Ethylbenzene | 1000 | NC | 1000 | NC | 390000 | NC | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| Methylene chloride | 50 | NC | 50 | NC | 500000 | NC | 6 U | 6 J | 5 J | 6 J | 6 U | 6 J | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U |
| o-Xylene | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Styrene | NC | NC | NC | NC | NC | NC | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| Tetrachloroethene | 1300 | NC | 1300 | NC | 150000 | NC | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 0.7 J | 3 U | 3 U | 3 U | 3 U |
| Toluene | 700 | NC | 700 | NC | 500000 | NC | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| Total BTEX | NC | NC | NC | NC | NC | NC | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| trans-1,2-Dichloroethylene | 190 | NC | 190 | NC | 500000 | NC | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| trans-1,3-Dichloropropylene | NC | NC | NC | NC | NC | NC | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| Trichloroethylene | 470 | NC | 470 | NC | 200000 | NC | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 0.7 J | 3 U | 3 U | 3 U | 3 U |
| Trichlorofluoromethane | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Vinyl Acetate | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Vinyl Chloride | 20 | NC | 20 | NC | 13000 | NC | 6 U | 6 U | 5 U | 4 J | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U |
| Xylene (m,p) | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Xylene (total) | 260 | NC | 1600 | NC | 500000 | NC | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |

**Notes:**
All units in micrograms per kilogram (µg/kg)
**Bold** - Exceeds 6 NYCRR Part 375 or CP-51 Protection of Groundwater Soil Cleanup Objectives
[ ] - Exceeds 6 NYCRR Part 375 Unrestricted Soil Cleanup Objectives or CP-51 Residential Soil Cleanup Objectives
6 NYCRR Part 375 and CP-51 Commercial Soil Cleanup Objectives were not exceeded.
NC - No criteria exists
Sample Type Code: N - Normal, FD - Field Duplicate
ft bgs - feet below ground surface
U - Not Detected at the Detection Limit shown, J - Estimated value, UJ - Approximate Non-detect
B - Blank Contamination, BJ - Estimated Value Detected in Blank
--- Not Analyzed
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, Protection of Public Health, Commercial, December 14, 2006.
[2] Final Commissioner Policy CP-51, Table 1: Supplimental Soil Cleanup Objectives, Residential, October 21, 2010.
[3] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, Protection of Public Health, Protection of Groundwater, December 14, 2006.
[4] Final Commissioner Policy CP-51, Table 1: Supplimental Soil Cleanup Objectives, Protection of Groundwater, October 21, 2010.
[5] 6 NYCRR Part 375, Table 375-6.8(b): Unrestricted Use Soil Cleanup Objectives, Protection of Public Health, December 14, 2006.
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**Table 5-1a**
**Soil Sample VOC Results**
**Former ITT Rochester Form Machine Facility**
**Site #8-28-112**
**Town of Gates, New York**

| Analyte | Part 375 Unrestricted Use SCOs[1] | NY CP-51 Residential Use SCOs[2] | Part 375 Protection of Groundwater SCOs[3] | NY CP-51 Protection of Groundwater SCOs[4] | Part 375 Commercial Use SCOs[5] | NY CP-51 Commercial Use SCOs[4] | **Location** | **OBG-SB-36** | **OBG-SB-37** | **OBG-SB-37** | **OBG-SB-38** | **OBG-SB-38** | **OBG-SB-39** | **OBG-SB-39** | **OBG-SB-39** | **OBG-SB-40** | **OBG-SB-40** | **OBG-SB-41** | **OBG-SB-41** | **OBG-SB-42** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | **Sample Date:** | 9/2/2004 | 9/2/2004 | 9/2/2004 | 9/2/2004 | 9/2/2004 | 9/2/2004 | 9/2/2004 | 9/2/2004 | 9/2/2004 | 9/2/2004 | 9/2/2004 | 9/2/2004 | 9/2/2004 |
| | | | | | | | **Sample ID:** | OBG-SB-36 (5-7) | OBG-SB-37 (3-5) | OBG-SB-37 (5-7) | OBG-SB-38 (2-4) | OBG-SB-38 (4-7.5) | DUP-5_09022004 | OBG-SB-39 (2-4) | OBG-SB-39 (6-8) | OBG-SB-40 (2-4) | OBG-SB-40 (6-7) | OBG-SB-41 (1-3) | OBG-SB-41 (5.5-7.5) | OBG-SB-42 (2-4) |
| | | | | | | | **Start Depth (ft bgs):** | 5 | 3 | 5 | 2 | 4 | 6 | 2 | 6 | 2 | 6 | 1 | 5.5 | 2 |
| | | | | | | | **End Depth (ft bgs):** | 7 | 5 | 7 | 4 | 7.5 | 8 | 4 | 8 | 4 | 7 | 3 | 7.5 | 4 |
| | | | | | | | **Sample Type Code:** | N | N | N | N | N | FD | N | N | N | N | N | N | N |
| 1,1,1,2-Tetrachloroethane | NC | NC | NC | NC | NC | NC | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,1,1-Trichloroethane | 680 | NC | 680 | NC | 500000 | NC | | 3 U | 3 U | 3 U | 3 U | 1 J | 9 | 3 U | 3 J | 1 J | 32 | 0.9 J | 3 U | 2 J |
| 1,1,2,2-Tetrachloroethane | NC | 35000 | NC | 600 | NC | NC | | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| 1,1,2-Trichloroethane | NC | NC | NC | NC | NC | NC | | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| 1,1-Dichloroethane | 270 | NC | 270 | NC | 240000 | NC | | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| 1,1-Dichloroethylene | 330 | NC | 330 | NC | 500000 | NC | | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| 1,2,3-Trichloropropane | NC | 80000 | NC | 340 | NC | NC | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,2-Dibromo-3-Chloropropane | NC | NC | NC | NC | NC | NC | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,2-Dibromoethane | NC | NC | NC | NC | NC | NC | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,2-Dichloroethane | 20 | NC | 20 | NC | 30000 | NC | | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| 1,2-Dichloroethene | NC | NC | NC | NC | NC | NC | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,2-Dichloropropane | NC | NC | NC | NC | NC | NC | | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| 2-Butanone | 120 | 100000 | 120 | 300 | 500000 | NC | | 11 U | 11 U | 11 U | 11 U | 12 U | 11 U | 11 U | 12 U | 11 U | 12 U | 11 U | 11 U | 12 U |
| 2-Chloroethyl vinyl ether | NC | NC | NC | NC | NC | NC | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2-Chlorotoluene | NC | NC | NC | NC | NC | NC | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2-Hexanone | NC | NC | NC | NC | NC | NC | | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U |
| 4-Chlorotoluene | NC | NC | NC | NC | NC | NC | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4-Methyl-2-Pentanone | NC | NC | NC | 1000 | NC | NC | | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U |
| Acetone | 50 | NC | 50 | NC | 500000 | NC | | 11 U | 11 U | 11 U | 11 J | 12 U | 11 U | 11 J | 12 U | 11 U | 12 U | 11 U | 11 U | 12 U |
| Acrolein | NC | NC | NC | NC | NC | NC | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Acrylonitrile | NC | NC | NC | NC | NC | NC | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Benzene | 60 | NC | 60 | NC | 44000 | NC | | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 1 J | 3 U | 3 U | 3 U |
| Bromobenzene | NC | NC | NC | NC | NC | NC | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Bromodichloromethane | NC | NC | NC | NC | NC | NC | | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| Bromoform | NC | NC | NC | NC | NC | NC | | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| Bromomethane | NC | NC | NC | NC | NC | NC | | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U |
| Carbon Disulfide | NC | 100000 | NC | 2700 | NC | NC | | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| Carbon Tetrachloride | 760 | NC | 760 | NC | 22000 | NC | | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| Chlorobenzene | 1100 | NC | 1100 | NC | 500000 | NC | | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| Chloroethane | NC | NC | NC | 1900 | NC | NC | | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U |
| Chloroform | 370 | NC | 370 | NC | 350000 | NC | | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| Chloromethane | NC | NC | NC | NC | NC | NC | | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U |
| cis-1,2-Dichloroethylene | 250 | NC | 250 | NC | 500000 | NC | | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| cis-1,3-Dichloropropylene | NC | NC | NC | NC | NC | NC | | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| Dibromochloromethane | NC | NC | NC | NC | NC | NC | | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| Dichlorodifluoromethane | NC | NC | NC | NC | NC | NC | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Ethylbenzene | 1000 | NC | 1000 | NC | 390000 | NC | | 3 U | 3 U | 3 U | 3 U | 3 U | 0.7 J | 3 U | 3 U | 3 U | 0.6 J | 3 U | 3 U | 3 U |
| Methylene chloride | 50 | NC | 50 | NC | 500000 | NC | | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U |
| o-Xylene | NC | NC | NC | NC | NC | NC | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Styrene | NC | NC | NC | NC | NC | NC | | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| Tetrachloroethene | 1300 | NC | 1300 | NC | 150000 | NC | | 3 U | 3 U | 3 U | 3 U | 3 U | 1 J | 3 U | 3 U | 3 U | 1 J | 3 U | 3 U | 3 U |
| Toluene | 700 | NC | 700 | NC | 500000 | NC | | 3 U | 3 U | 3 U | 3 U | 3 U | 2 J | 3 U | 3 U | 3 U | 3 J | 3 U | 3 U | 3 U |
| Total BTEX | NC | NC | NC | NC | NC | NC | | 3 U | 3 U | 3 U | 3 U | 3 U | 7.7 | 3 U | 3 U | 3 U | 7.6 | 3 U | 3 U | 3 U |
| trans-1,2-Dichloroethylene | 190 | NC | 190 | NC | 500000 | NC | | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| trans-1,3-Dichloropropylene | NC | NC | NC | NC | NC | NC | | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| Trichloroethylene | 470 | NC | 470 | NC | 200000 | NC | | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U | 3 U |
| Trichlorofluoromethane | NC | NC | NC | NC | NC | NC | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Vinyl Acetate | NC | NC | NC | NC | NC | NC | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Vinyl Chloride | 20 | NC | 20 | NC | 13000 | NC | | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U | 6 U |
| Xylene (m,p) | NC | NC | NC | NC | NC | NC | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Xylene (total) | 260 | NC | 1600 | NC | 500000 | NC | | 3 U | 3 U | 3 U | 3 U | 3 U | 5 | 3 U | 3 U | 3 U | 3 J | 3 U | 3 U | 3 U |

**Notes:**
All units in micrograms per kilogram (µg/kg)
**Bold** - Exceeds 6 NYCRR Part 375 or CP-51 Protection of Groundwater Soil Cleanup Objectives
[ ] - Exceeds 6 NYCRR Part 375 Unrestricted Soil Cleanup Objectives or CP-51 Residential Soil Cleanup Objectives
6 NYCRR Part 375 and CP-51 Commercial Soil Cleanup Objectives were not exceeded.
NC - No criteria exists
Sample Type Code: N - Normal, FD - Field Duplicate
ft bgs - feet below ground surface
U - Not Detected at the Detection Limit shown, J - Estimated value, UJ - Approximate Non-detect
B - Blank Contamination, BJ - Estimated Value Detected in Blank
--- Not Analyzed

[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, Protection of Public Health, Commercial, December 14, 2006.
[2] Final Commissioner Policy CP-51, Table 1: Supplimental Soil Cleanup Objectives, Residential, October 21, 2010.
[3] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, Protection of Public Health, Protection of Groundwater, December 14, 2006.
[4] Final Commissioner Policy CP-51, Table 1: Supplimental Soil Cleanup Objectives, Protection of Groundwater, October 21, 2010.
[5] 6 NYCRR Part 375, Table 375-6.8(b): Unrestricted Use Soil Cleanup Objectives, Protection of Public Health, December 14, 2006.
[6] Final Commissioner Policy CP-51, Table 1: Supplimental Soil Cleanup Objectives, Commercial, October 21, 2010.

**Table 5-1a**
**Soil Sample VOC Results**
**Former ITT Rochester Form Machine Facility**
**Site #8-28-112**
**Town of Gates, New York**

| Analyte | Part 375 Unrestricted Use SCOs[1] | NY CP-51 Residential Use SCOs[2] | Part 375 Protection of Groundwater SCOs[3] | NY CP-51 Protection of Groundwater SCOs[4] | Part 375 Commercial Use SCOs[5] | NY CP-51 Commercial Use SCOs[4] | OBG-SB-42 9/2/2004 OBG-SB-42 (6-7.5) 6 7.5 N | OBG-SB-43 9/2/2004 OBG-SB-43 (2-4) 2 4 N | OBG-SB-43 9/2/2004 OBG-SB-43 (5-7.5) 5 7.5 N | OBG-SB-44 9/2/2004 OBG-SB-44 (2-4) 2 4 N | OBG-SB-44 9/2/2004 OBG-SB-44 (5-7) 5 7 N | SB-1 10/22/1991 SB-1_10-22-91 0.5 1 N | SB-2 10/22/1991 SB-2_10-23-04 0.5 1 N | SB-3 10/23/1991 SB-3 (1-2)10-23-91 1 2 N | SB-3 10/23/1991 SB-3 (5-7)10-23-91 5 7 N | SB-4 10/23/1991 SB-4 (1-2)10-23-91 1 2 N | SB-5 10/23/1991 SB-5 (1-2)10-23-91 1 2 N | SB-6 10/23/1991 SB-6 (1-2)10-23-91 1 2 N | SB-7 10/22/1991 SB-7_10-22-91 0.5 1 N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,1,1-Trichloroethane | 680 | NC | 680 | NC | 500000 | NC | 4 | 0.7 J | 3 | 1 J | 3 | 6 U | 6 U | 53 | 6 U | 230 | 6 U | 6 U | 6 U |
| 1,1,2,2-Tetrachloroethane | NC | 35000 | NC | 600 | NC | NC | 3 U | 3 U | 3 U | 3 U | 3 U | 6 U | 6 U | 6 U | 6 U | 8 U | 6 U | 6 U | 6 U |
| 1,1,2-Trichloroethane | NC | NC | NC | NC | NC | NC | 3 U | 3 U | 3 U | 3 U | 3 U | 6 U | 6 U | 6 U | 6 U | 8 U | 6 U | 6 U | 6 U |
| 1,1-Dichloroethane | 270 | NC | 270 | NC | 240000 | NC | 3 U | 3 U | 3 U | 0.9 J | 0.6 J | 6 U | 6 U | 6 U | 6 U | 21 | 6 U | 6 U | 6 U |
| 1,1-Dichloroethylene | 330 | NC | 330 | NC | 500000 | NC | 3 U | 3 U | 3 U | 3 U | 3 U | 6 U | 6 U | 6 U | 6 U | 8 U | 6 U | 6 U | 6 U |
| 1,2,3-Trichloropropane | NC | 80000 | NC | 340 | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,2-Dibromo-3-Chloropropane | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,2-Dibromoethane | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,2-Dichloroethane | 20 | NC | 20 | NC | 30000 | NC | 3 U | 3 U | 3 U | 3 U | 3 U | 6 U | 6 U | 6 U | 6 U | 8 U | 6 U | 6 U | 6 U |
| 1,2-Dichloroethene | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | 6 U | 6 U | 6 U | 6 U | 8 U | 6 U | 6 U | 6 U |
| 1,2-Dichloropropane | NC | NC | NC | NC | NC | NC | 3 U | 3 U | 3 U | 3 U | 3 U | 6 U | 6 U | 6 U | 6 U | 8 U | 6 U | 6 U | 6 U |
| 2-Butanone | 120 | 100000 | 120 | 300 | 500000 | NC | 11 U | 11 U | 11 U | 11 U | 11 U | 13 U | 13 U | 3 J | 12 U | 15 U | 12 U | 12 U | 12 U |
| 2-Chloroethyl vinyl ether | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2-Chlorotoluene | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2-Hexanone | NC | NC | NC | NC | NC | NC | 6 U | 6 U | 6 U | 6 U | 5 U | 13 U | 13 U | 12 U | 12 U | 15 U | 12 U | 12 U | 12 U |
| 4-Chlorotoluene | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 4-Methyl-2-Pentanone | NC | NC | NC | 1000 | NC | NC | 6 U | 6 U | 6 U | 6 U | 5 U | 13 U | 13 U | 12 U | 12 U | 15 U | 12 U | 12 U | 12 U |
| Acetone | 50 | NC | 50 | NC | 500000 | NC | 11 U | 11 U | 11 U | 11 J | 11 J | 4 BJ | 4 BJ | 20 B | 2 BJ | 4 BJ | 12 U | 12 U | 5 BJ |
| Acrolein | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Acrylonitrile | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Benzene | 60 | NC | 60 | NC | 44000 | NC | 3 U | 3 U | 3 U | 3 U | 3 U | 6 U | 6 U | 6 U | 6 U | 8 U | 6 U | 6 U | 6 U |
| Bromobenzene | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Bromodichloromethane | NC | NC | NC | NC | NC | NC | 3 U | 3 U | 3 U | 3 U | 3 U | 6 U | 6 U | 6 U | 6 U | 8 U | 6 U | 6 U | 6 U |
| Bromoform | NC | NC | NC | NC | NC | NC | 3 U | 3 U | 3 U | 3 U | 3 U | 6 U | 6 U | 6 U | 6 U | 8 U | 6 U | 6 U | 6 U |
| Bromomethane | NC | NC | NC | NC | NC | NC | 6 U | 6 U | 6 U | 6 U | 5 U | 13 U | 13 U | 12 U | 12 U | 15 U | 12 U | 12 U | 12 U |
| Carbon Disulfide | NC | 100000 | NC | 2700 | NC | NC | 3 U | 3 U | 3 U | 3 U | 3 U | 6 U | 6 U | 6 U | 6 U | 8 U | 6 U | 6 U | 6 U |
| Carbon Tetrachloride | 760 | NC | 760 | NC | 22000 | NC | 3 U | 3 U | 3 U | 3 U | 3 U | 6 U | 6 U | 6 U | 6 U | 8 U | 6 U | 6 U | 6 U |
| Chlorobenzene | 1100 | NC | 1100 | NC | 500000 | NC | 3 U | 3 U | 3 U | 3 U | 3 U | 6 U | 6 U | 6 U | 6 U | 8 U | 6 U | 6 U | 6 U |
| Chloroethane | NC | NC | NC | 1900 | NC | NC | 6 U | 6 U | 6 U | 6 U | 5 U | 13 U | 13 U | 12 U | 12 U | 15 U | 12 U | 12 U | 12 U |
| Chloroform | 370 | NC | 370 | NC | 350000 | NC | 3 U | 3 U | 3 U | 3 U | 3 U | 6 U | 6 U | 6 U | 6 U | 8 U | 6 U | 6 U | 6 U |
| Chloromethane | NC | NC | NC | NC | NC | NC | 6 U | 6 U | 6 U | 6 U | 5 U | 13 U | 13 U | 12 U | 12 U | 15 U | 12 U | 12 U | 12 U |
| cis-1,2-Dichloroethylene | 250 | NC | 250 | NC | 500000 | NC | 3 U | 3 U | 3 U | 3 U | 3 U | --- | --- | --- | --- | --- | --- | --- | --- |
| cis-1,3-Dichloropropylene | NC | NC | NC | NC | NC | NC | 3 U | 3 U | 3 U | 3 U | 3 U | 6 U | 6 U | 6 U | 6 U | 8 U | 6 U | 6 U | 6 U |
| Dibromochloromethane | NC | NC | NC | NC | NC | NC | 3 U | 3 U | 3 U | 3 U | 3 U | 6 U | 6 U | 6 U | 6 U | 8 U | 6 U | 6 U | 6 U |
| Dichlorodifluoromethane | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Ethylbenzene | 1000 | NC | 1000 | NC | 390000 | NC | 3 U | 3 U | 3 U | 3 U | 3 U | 6 U | 6 U | 2 J | 6 U | 8 U | 6 U | 6 U | 6 U |
| Methylene chloride | 50 | NC | 50 | NC | 500000 | NC | 6 U | 6 J | 6 J | 6 J | 5 J | 3 BJ | 2 BJ | 2 BJ | 2 BJ | 2 BJ | 2 BJ | 2 BJ | 2 BJ |
| o-Xylene | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Styrene | NC | NC | NC | NC | NC | NC | 3 U | 3 U | 3 U | 3 U | 3 U | 6 U | 6 U | 6 U | 6 U | 8 U | 6 U | 6 U | 6 U |
| Tetrachloroethene | 1300 | NC | 1300 | NC | 150000 | NC | 3 U | 3 U | 3 U | 3 U | 3 U | 6 U | 6 U | 4 J | 6 U | 110 | 6 U | 6 U | 6 U |
| Toluene | 700 | NC | 700 | NC | 500000 | NC | 3 U | 3 U | 3 U | 3 U | 3 U | 6 U | 6 U | 4 J | 6 U | 8 U | 6 U | 6 U | 6 U |
| Total BTEX | NC | NC | NC | NC | NC | NC | 3 U | 3 U | 3 U | 3 U | 3 U | 6 U | 6 U | 20 | 6 U | 8 U | 6 U | 6 U | 6 U |
| trans-1,2-Dichloroethylene | 190 | NC | 190 | NC | 500000 | NC | 3 U | 3 U | 3 U | 3 U | 3 U | --- | --- | --- | --- | --- | --- | --- | --- |
| trans-1,3-Dichloropropylene | NC | NC | NC | NC | NC | NC | 3 U | 3 U | 3 U | 3 U | 3 U | 6 U | 6 U | 6 U | 6 U | 8 U | 6 U | 6 U | 6 U |
| Trichloroethylene | 470 | NC | 470 | NC | 200000 | NC | 3 U | 3 U | 3 U | 3 U | 3 U | 6 U | 6 U | 6 U | 6 U | 7 J | 6 U | 6 U | 6 U |
| Trichlorofluoromethane | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Vinyl Acetate | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | 13 U | 13 U | 12 U | 12 U | 15 U | 12 U | 12 U | 12 U |
| Vinyl Chloride | 20 | NC | 20 | NC | 13000 | NC | 6 U | 6 U | 6 U | 6 U | 5 U | 13 U | 13 U | 12 U | 12 U | 15 U | 12 U | 12 U | 12 U |
| Xylene (m,p) | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Xylene (total) | 260 | NC | 1600 | NC | 500000 | NC | 3 U | 3 U | 3 U | 3 U | 3 U | 6 U | 6 U | 14 | 6 U | 8 U | 6 U | 6 U | 6 U |

**Notes:**
All units in micrograms per kilogram (µg/kg)
**Bold** - Exceeds 6 NYCRR Part 375 or CP-51 Protection of Groundwater Soil Cleanup Objectives
[ ] - Exceeds 6 NYCRR Part 375 Unrestricted Soil Cleanup Objectives or CP-51 Residential Soil Cleanup Objectives
6 NYCRR Part 375 and CP-51 Commercial Soil Cleanup Objectives were not exceeded.
NC - No criteria exists
Sample Type Code: N - Normal, FD - Field Duplicate
ft bgs - feet below ground surface
U - Not Detected at the Detection Limit shown, J - Estimated value, UJ - Approximate Non-detect
B - Blank Contamination, BJ - Estimated Value Detected in Blank
--- Not Analyzed
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, Protection of Public Health, Commercial, December 14, 2006.
[2] Final Commissioner Policy CP-51, Table 1: Supplimental Soil Cleanup Objectives, Residential, October 21, 2010.
[3] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, Protection of Public Health, Protection of Groundwater, December 14, 2006.
[4] Final Commissioner Policy CP-51, Table 1: Supplimental Soil Cleanup Objectives, Protection of Groundwater, October 21, 2010.
[5] 6 NYCRR Part 375, Table 375-6.8(b): Unrestricted Use Soil Cleanup Objectives, Protection of Public Health, December 14, 2006.
[6] Final Commissioner Policy CP-51, Table 1: Supplimental Soil Cleanup Objectives, Commercial, October 21, 2010.

**Table 5-1a**
**Soil Sample VOC Results**
**Former ITT Rochester Form Machine Facility**
**Site #8-28-112**
**Town of Gates, New York**

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | **Location** | **SB-9** | **SB-10** | **SS-1** | **SS-2** | **TD-1** |
| | | | | | | **Sample Date:** | 11/13/1991 | 10/22/1991 | 7/28/1998 | 7/28/1998 | 9/3/2004 |
| | | | | | | **Sample ID:** | SB-9_11-13-91 | SB-10_10-22-91 | SS-1 7/28/98 | SS-2 7/28/98 | TD-1 |
| | | | | | | **Start Depth (ft bgs):** | 2 | 2 | 0 | 0 | 0 |
| | | | | | | **End Depth (ft bgs):** | 3 | 3 | 0.17 | 0.17 | 0.5 |
| | | | | | | **Sample Type Code:** | N | N | N | N | N |
| **Analyte** | **Part 375 Unrestricted Use SCOs[1]** | **NY CP-51 Residential Use SCOs[2]** | **Part 375 Protection of Groundwater SCOs[3]** | **NY CP-51 Protection of Groundwater SCOs[4]** | **Part 375 Commercial Use SCOs[5]** | **NY CP-51 Commercial Use SCOs[4]** | | | | | |
| 1,1,1,2-Tetrachloroethane | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- |
| 1,1,1-Trichloroethane | 680 | NC | 680 | NC | 500000 | NC | 6 U | 100 | 10 U | 11 U | 3 J |
| 1,1,2,2-Tetrachloroethane | NC | 35000 | NC | 600 | NC | NC | 6 U | 32 U | 10 U | 11 U | 3 U |
| 1,1,2-Trichloroethane | NC | NC | NC | NC | NC | NC | 6 U | 32 U | 10 U | 11 U | 3 U |
| 1,1-Dichloroethane | 270 | NC | 270 | NC | 240000 | NC | 6 U | 66 | 10 U | 11 U | 3 U |
| 1,1-Dichloroethylene | 330 | NC | 330 | NC | 500000 | NC | 6 U | 17 J | 10 U | 11 U | 9 |
| 1,2,3-Trichloropropane | NC | 80000 | NC | 340 | NC | NC | --- | --- | --- | --- | --- |
| 1,2-Dibromo-3-Chloropropane | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- |
| 1,2-Dibromoethane | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- |
| 1,2-Dichloroethane | 20 | NC | 20 | NC | 30000 | NC | 6 U | 32 U | 10 U | 11 U | 3 U |
| 1,2-Dichloroethene | NC | NC | NC | NC | NC | NC | 6 U | 32 U | 10 U | 11 U | --- |
| 1,2-Dichloropropane | NC | NC | NC | NC | NC | NC | 6 U | 32 U | 10 U | 11 U | 3 U |
| 2-Butanone | 120 | 100000 | 120 | 300 | 500000 | NC | 12 U | 65 U | 10 U | 11 U | 11 U |
| 2-Chloroethyl vinyl ether | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- |
| 2-Chlorotoluene | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- |
| 2-Hexanone | NC | NC | NC | NC | NC | NC | 12 U | 65 U | 10 U | 11 U | 5 U |
| 4-Chlorotoluene | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- |
| 4-Methyl-2-Pentanone | NC | NC | NC | 1000 | NC | NC | 12 U | 65 U | --- | --- | 5 U |
| Acetone | 50 | NC | 50 | NC | 500000 | NC | 12 U | 21 BJ | 10 U | 11 U | 11 J |
| Acrolein | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- |
| Acrylonitrile | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- |
| Benzene | 60 | NC | 60 | NC | 44000 | NC | 6 U | 32 U | 10 U | 11 U | 3 U |
| Bromobenzene | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- |
| Bromodichloromethane | NC | NC | NC | NC | NC | NC | 6 U | 32 U | 10 U | 11 U | 3 U |
| Bromoform | NC | NC | NC | NC | NC | NC | 6 U | 32 U | 10 U | 11 U | 3 U |
| Bromomethane | NC | NC | NC | NC | NC | NC | 12 U | 65 U | 10 U | 11 U | 5 U |
| Carbon Disulfide | NC | 100000 | NC | 2700 | NC | NC | 6 U | 32 U | 10 U | 11 U | 3 U |
| Carbon Tetrachloride | 760 | NC | 760 | NC | 22000 | NC | 6 U | 32 U | 10 U | 11 U | 3 U |
| Chlorobenzene | 1100 | NC | 1100 | NC | 500000 | NC | 6 U | 32 U | 10 U | 11 U | 3 U |
| Chloroethane | NC | NC | NC | 1900 | NC | NC | 12 U | 65 U | 10 U | 11 U | 5 U |
| Chloroform | 370 | NC | 370 | NC | 350000 | NC | 2 J | 32 U | 10 U | 11 U | 3 U |
| Chloromethane | NC | NC | NC | NC | NC | NC | 12 U | 65 U | 10 U | 11 U | 5 U |
| cis-1,2-Dichloroethylene | 250 | NC | 250 | NC | 500000 | NC | --- | --- | --- | --- | 3 U |
| cis-1,3-Dichloropropylene | NC | NC | NC | NC | NC | NC | 6 U | 32 U | 10 U | 11 U | 3 U |
| Dibromochloromethane | NC | NC | NC | NC | NC | NC | 6 U | 32 U | 10 U | 11 U | 3 U |
| Dichlorodifluoromethane | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- |
| Ethylbenzene | 1000 | NC | 1000 | NC | 390000 | NC | 6 U | 32 U | 10 U | 11 U | 57 |
| Methylene chloride | 50 | NC | 50 | NC | 500000 | NC | 2 BJ | 10 BJ | 31 | 19 | 5 U |
| o-Xylene | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- |
| Styrene | NC | NC | NC | NC | NC | NC | 6 U | 32 U | 10 U | 11 U | 3 U |
| Tetrachloroethene | 1300 | NC | 1300 | NC | 150000 | NC | 6 U | 7 J | 10 U | 11 U | 3 |
| Toluene | 700 | NC | 700 | NC | 500000 | NC | 6 U | 32 U | 10 U | 11 U | 3 U |
| Total BTEX | NC | NC | NC | NC | NC | NC | 6 U | 32 U | 10 U | 11 U | 257 |
| trans-1,2-Dichloroethylene | 190 | NC | 190 | NC | 500000 | NC | --- | --- | --- | --- | 3 U |
| trans-1,3-Dichloropropylene | NC | NC | NC | NC | NC | NC | 6 U | 32 U | 10 U | 11 U | 3 U |
| Trichloroethylene | 470 | NC | 470 | NC | 200000 | NC | 6 U | 32 U | 10 U | 11 U | 4 |
| Trichlorofluoromethane | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- |
| Vinyl Acetate | NC | NC | NC | NC | NC | NC | 12 U | 65 U | --- | --- | --- |
| Vinyl Chloride | 20 | NC | 20 | NC | 13000 | NC | 12 U | 65 U | 10 U | 11 U | 5 U |
| Xylene (m,p) | NC | NC | NC | NC | NC | NC | --- | --- | --- | --- | --- |
| Xylene (total) | 260 | NC | 1600 | NC | 500000 | NC | 6 U | 32 U | 10 U | 11 U | 200 |

**Notes:**
All units in micrograms per kilogram (µg/kg)
**Bold** - Exceeds 6 NYCRR Part 375 or CP-51 Protection of Groundwater Soil Cleanup Objectives
[ ] - Exceeds 6 NYCRR Part 375 Unrestricted Soil Cleanup Objectives or CP-51 Residential Soil Cleanup Objectives
6 NYCRR Part 375 and CP-51 Commercial Soil Cleanup Objectives were not exceeded.
NC - No criteria exists
Sample Type Code: N - Normal, FD - Field Duplicate
ft bgs - feet below ground surface
U - Not Detected at the Detection Limit shown, J - Estimated value, UJ - Approximate Non-detect
B - Blank Contamination, BJ - Estimated Value Detected in Blank
--- Not Analyzed
[1] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, Protection of Public Health, Commercial, December 14, 2006.
[2] Final Commissioner Policy CP-51, Table 1: Supplimental Soil Cleanup Objectives, Residential, October 21, 2010.
[3] 6 NYCRR Part 375, Table 375-6.8(b): Restricted Use Soil Cleanup Objectives, Protection of Public Health, Protection of Groundwater, December 14, 2006.
[4] Final Commissioner Policy CP-51, Table 1: Supplimental Soil Cleanup Objectives, Protection of Groundwater, October 21, 2010.
[5] 6 NYCRR Part 375, Table 375-6.8(b): Unrestricted Use Soil Cleanup Objectives, Protection of Public Health, December 14, 2006.
[6] Final Commissioner Policy CP-51, Table 1: Supplimental Soil Cleanup Objectives, Commercial, October 21, 2010.

**Table 5-4a**
**Groundwater Sample VOC Results**
**Former ITT Rochester Form Machine Facility**
**Site #8-28-112**
**Town of Gates, New York**

| | Location Code | AMSF-MW-1D | AMSF-MW-1D | AMSF-MW-1D | AMSF-MW-1D | AMSF-MW-1D | AMSF-MW-1S | AMSF-MW-1S | AMSF-MW-1S | AMSF-MW-1S | AMSF-MW-1S | AMSF-MW-1S | AMSF-MW-1S | AMSF-MW-1S | AMSF-MW-1S | AMSF-MW-1S | AMSF-MW-2 | AMSF-MW-2 | AMSF-MW-3D | AMSF-MW-3D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | 6/12/1992 | 7/29/1998 | 11/16/2000 | 2/8/2005 | 10/4/2005 | 11/1/1991 | 6/11/1992 | 7/28/1998 | 11/15/2000 | 11/16/2000 | 2/8/2005 | 8/31/2005 | 10/4/2005 | 4/23/2010 | 9/10/2010 | 11/1/1991 | 6/11/1992 | 6/11/1992 | 11/16/2000 |
| | Start Depth (ft) | | | | | | | | | | | | | | | | | | | |
| | End Depth (ft) | | | | | | | | | | | | | | | | | | | |
| **Analyte** | **Criteria** [1] | | | | | | | | | | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NC | 25 U | --- | --- | --- | --- | --- | 0.5 U | --- | --- | --- | --- | --- | --- | --- | --- | --- | 0.5 U | 0.5 U | --- |
| 1,1,1-Trichloroethane | 5 | **233** | **6 J** | 50 U | 5 U | 10 U | **3400** | **2200** | **3400** | **950** | 10 U | **680** | **338** | **3030** | **35** | **27** | **1600** | **13.1** | **644** | 4 J |
| 1,1,2,2-Tetrachloroethane | 5 | --- | 50 U | 50 U | 5 U | 10 U | --- | --- | 10 U | 10U | 10U | 0.5 U | 10 U | 10 U | 1 U | 1 U | --- | | --- | 10 U |
| 1,1,2-Trichloroethane | 1 | 25 U | 50 U | 50 U | 5 U | 10 U | --- | 0.5 U | 10 U | 10 U | 10 U | 0.5 U | 10 U | 10 U | 1 U | 1 U | --- | 0.5 U | 0.5 U | 10 U |
| 1,1-Dichloroethane | 5 | 25 U | **34 J** | **17 J** | **10** | 5 J | **51** | **41.1** | **260** | **92** | 10 U | **35** | **7.2 J** | **87.4** | **22** | **19** | **37** | **30.8** | **17.8** | 10 U |
| 1,1-Dichloroethene | 5 | 25 U | 50 U | 50 U | 5 U | 10 U | **20** | **22.4** | **36** | **59** | 10 U | **15** | **7 J** | **17.6** | 1.9 | 1.6 | **19** | 1.4 | **30.3** | 10 U |
| 1,2,3-Trichloropropane | 0.04 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,2-Dibromo-3-chloropropane (DBCP) | 0.04 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 2 U | 2 U | --- | --- | --- | --- |
| 1,2-Dibromoethane (Ethylene Dibromide) | 0.0006 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1 U | 1 U | --- | --- | --- | --- |
| 1,2-Dichloroethane | 0.6 | 25 U | 50 U | 50 U | 5 U | 10 U | --- | 3.2 | 10 U | 10 U | 10 U | 0.5 U | 10 U | 10 U | 1 U | 1 U | --- | 0.5 U | 1.2 | 10 U |
| 1,2-Dichloroethene (total) | NC | --- | 50 U | 50 U | --- | --- | 5 U | --- | 10 U | 10 U | 10 U | --- | --- | --- | --- | --- | 5 U | 0.5 U | --- | 10 U |
| 1,2-Dichloropropane | 1 | 25 U | 50 U | 50 U | 5 U | 10 U | --- | 0.5 U | 10 U | 10 U | 10 U | 0.5 U | 10 U | 10 U | 1 U | 1 U | --- | 0.5 U | 0.5 U | 10 U |
| 2-Butanone (Methyl Ethyl Ketone) | 50 | --- | 50 U | **60** | **60 J** | **69.6 J** | --- | --- | 10 U | 10 U | 10 U | 10 U | 200 U | 200 U | 5 U | 5 U | --- | --- | --- | 10 U |
| 2-Hexanone | 50 | --- | 50 U | 50 U | 50 U | 100 U | --- | --- | 10 U | 10 U | 10 U | 5 U | 100 U | 100 U | 5 U | 5 U | --- | --- | --- | 10 U |
| 4-Methyl-2-pentanone (Methyl Isobutyl Ketone) | NC | --- | 50 U | 50 U | 50 U | 100 U | --- | --- | --- | 10 U | 10 U | 5 U | 100 UJ | 100 U | 5 U | 5 U | --- | --- | --- | 10 U |
| Acetone | 50 | --- | 50 U | **160** | 140 | **88 J** | 10 U | --- | 10 U | 4 | 10 U | 10 U | 200 UJ | 200 U | 5 U | 5 U | 12 | --- | --- | 10 U |
| Acrylonitrile | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Benzene | 1 | --- | **510** | **380** | **390** | **176** | --- | --- | 10 U | 10 U | 10 U | 1 | 10 U | 10 U | 1 U | 1 U | --- | --- | --- | 10 U |
| Bromodichloromethane | 50 | 25 U | 50 U | 50 U | 5 U | 10 U | --- | 0.5 U | 10 U | 10 U | 10 U | 0.5 U | 10 U | 10 U | 1 U | 1 U | --- | 0.5 U | 0.5 U | 10 U |
| Bromoform | 50 | 25 U | 50 U | 50 U | 5 U | 10 U | --- | 0.5 U | 10 U | 10 U | 10 U | 0.5 U | 10 U | 10 U | 1 U | 1 U | --- | 0.5 U | 0.5 U | 10 U |
| Bromomethane (Methyl Bromide) | 5 | 25 U | 50 U | 50 U | 10 U | 20 U | --- | 0.5 U | 10 U | 10 U | 10 U | 1 U | 20 U | 20 U | 1 U | 1 U | --- | 0.5 U | 0.5 U | 10 U |
| Carbon disulfide | 60 | --- | 50 U | 50 U | 3 J | 2.4 J | --- | --- | 10 U | 10 U | 10 U | 0.5 U | 10 U | 10 U | 1 U | 1 U | --- | --- | --- | 10 U |
| Carbon tetrachloride | 5 | 25 U | 50 U | 50 U | 5 U | 10 U | --- | 0.5 U | 10 U | 10 U | 10 U | 0.5 U | 10 U | 10 U | 1 U | 1 U | --- | 0.5 U | 0.5 U | 10 U |
| Chlorobenzene | 5 | 25 U | 50 U | 50 U | 5 U | 10 U | --- | 0.5 U | 10 U | 10 U | 10 U | 0.5 U | 10 U | 10 U | 1 U | 1 U | --- | 0.5 U | 0.5 U | 10 U |
| Chlorobromomethane | 5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Chloroethane | 5 | 25 U | 50 U | 50 U | 10 U | 20 U | --- | 0.5 U | 10 U | 10 U | 10 U | 0.4 J | 20 U | 20 U | 1.3 | 1.1 | --- | 0.5 U | 0.5 U | 10 U |
| Chloroform (Trichloromethane) | 7 | 25 U | 50 U | 50 U | 5 U | 10 U | --- | 0.5 U | 10 U | 10 U | 10 U | 0.5 U | 10 U | 10 U | 1 U | 1 U | --- | 0.5 U | 0.5 U | 10 U |
| Chloromethane (Methyl Chloride) | 5 | 25 U | 50 U | 50 U | 10 U | 20 U | --- | 0.5 U | 10 U | 10 U | 10 U | 1 U | 20 U | 20 U | 1 U | 1 U | --- | 0.5 U | 0.5 U | 10 U |
| cis-1,2-Dichloroethene | 5 | --- | --- | --- | 5 U | 10 U | --- | --- | --- | --- | --- | 0.1 J | 10 U | 10 U | 0.48 J | 0.38 J | --- | --- | --- | --- |
| cis-1,3-Dichloropropene | 0.4 | 25 U | 50 U | 50 U | 5 U | 10 U | --- | 0.5 U | 10 U | 10 U | 10 U | 0.5 U | 10 U | 10 U | 1 U | 1 U | --- | 0.5 U | 0.5 U | 10 U |
| Dibromochloromethane | 50 | 25 U | 50 U | 50 U | 5 U | 10 U | --- | 0.5 U | 10 U | 10 U | 10 U | 0.5 U | 10 U | 10 U | 1 U | 1 U | --- | 0.5 U | 0.5 U | 10 U |
| Dibromomethane | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Ethane | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Ethylbenzene | 5 | --- | **37 J** | **24 J** | **33** | **18.2** | --- | --- | 10 U | 10 U | 10 U | 0.2 J | 10 U | 10 U | 1 U | 1 U | --- | --- | --- | 10 U |
| Ethene | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Iodomethane | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Methane | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Methylene chloride | 5 | **222** | 50 U | **40 BJ** | 20 U | 40 U | --- | 2.1 | 10 U | 5 | 4 | 2 U | **6.4 J** | 40 U | 1 U | 1 U | --- | 1.9 | **17.8** | 4 |
| o-Xylene | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1 U | 1 U | --- | --- | --- | --- |
| Styrene | 5 | --- | 50 U | 50 U | 5 U | 10 U | --- | --- | 10 U | 10 U | 10 U | 0.5 U | 10 U | 10 U | 1 U | 1 U | --- | --- | --- | 10 U |
| Tetrachloroethene | 5 | 25 U | 50 U | 50 U | 5 U | 10 U | 5 U | 0.92 | 2 J | 10 U | 10 U | 0.7 | 10 U | 10 U | 1 U | 1 U | 5 U | 0.5 U | 3.5 | 10 U |
| Toluene | 5 | --- | **490** | **330** | **400** | **226** | --- | --- | 10 U | 10 U | 10 U | 5 | 10 U | 10 U | 1 U | 1 U | --- | --- | --- | 10 U |
| Total Btex | NC | --- | 1106 | 904 | 243 | 526.2 | --- | --- | 10 U | 10 U | 10 U | 7.2 | 20 U | 20 U | --- | --- | --- | --- | --- | 20 U |
| trans-1,2-Dichloroethene | 5 | 25 U | --- | --- | 5 U | 10 U | --- | 0.5 U | --- | --- | --- | 0.5 U | 10 U | 10 U | 1 U | 1 U | --- | 0.5 U | 0.5 U | --- |
| trans-1,3-Dichloropropene | 0.4 | 25 U | 50 U | 50 U | 5 U | 10 U | --- | 0.5 U | 10 U | 10 U | 10 U | 0.5 U | 10 U | 10 U | 1 U | 1 U | --- | 0.5 U | 0.5 U | 10 U |
| Trans-1,4-dichlorobutene | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Trichloroethene | 5 | 25 U | 50 U | 50 U | 5 U | 10 U | **20** | **18.6** | **21** | **8 J** | 10 U | **2** | 2.2 J | **12.4** | 1.2 | 1 | 5 U | 0.76 | 5 | 10 U |
| Trichlorofluoromethane (CFC-11) | 5 | 25 U | --- | --- | --- | --- | --- | 0.5 U | --- | --- | --- | --- | --- | --- | 1 U | 1 U | --- | 0.5 U | 0.5 U | --- |
| Vinyl Acetate | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Vinyl chloride | 2 | 25 U | 50 U | 50 U | 10 U | 20 U | --- | 0.5 U | 10 U | 10 U | 10 U | 1 U | 20 U | 20 U | 1.7 | 1.1 | --- | 0.5 U | 0.5 U | 10 U |
| Xylene (m,p) | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 2 U | 2U | --- | --- | --- | --- |
| Xylene (total) | 5 | --- | **69** | **170** | **210** | **106** | --- | --- | 10 U | 10 U | 10 U | 1 | 20 U | 20 U | --- | --- | --- | --- | --- | 10 U |

**Notes:**
All units in micrograms per liter (µg/L)
[1] New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values, Revised June 1998.
**BOLD** - Exceedes New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values.
* - Elevation - ft amsl (ft bgs) [ft amsl - feet above mean sea level, ft bgs - feet below ground surface]
[2] Passive diffusion bags deployed 12/2/2005 and retrieved on 12/22/2005.
- Only wells with a discrete fracture or sampling interval have start and end depths.
- Well AMSF-MW-12S was found to be obstructed prior to the April/May 2010 sampling event. The obstruction was cleared prior to the September 2010 sampling event
- Well ITT-DBW-8 was inadvertently missed during the April/May 2010 Sampling Event.
- Well ITT-SBW-9 was inadvertently missed during sampling in April 2010 and consequently sampled in May 2010 when the mistake was identified.
NC - No criteria exists
U - Not Detected at the Detection Limit shown, J - Estimated value, UJ - Approximate Non-detect, B - Blank Contamination, BJ - Estimated Value Detected in Blank
--- Not Analyzed

**Table 5-4a**
**Groundwater Sample VOC Results**
**Former ITT Rochester Form Machine Facility**
**Site #8-28-112**
**Town of Gates, New York**

| | Location Code | AMSF-MW-3D | AMSF-MW-3D | AMSF-MW-3D | AMSF-MW-3D | AMSF-MW-3S | AMSF-MW-3S | AMSF-MW-3S | AMSF-MW-3S | AMSF-MW-3S | AMSF-MW-3S | AMSF-MW-3S | AMSF-MW-3S | AMSF-MW-4 | AMSF-MW-4 | AMSF-MW-4 | AMSF-MW-4 | AMSF-MW-5D | AMSF-MW-5D | AMSF-MW-5D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | 2/9/2005 | 9/28/2005 | 4/26/2010 | 9/13/2010 | 11/1/1991 | 6/11/1992 | 7/29/1998 | 11/15/2000 | 2/9/2005 | 9/30/2005 | 4/21/2010 | 9/8/2010 | 11/1/1991 | 6/11/1992 | 11/15/2000 | 10/4/2005 | 6/11/1992 | 11/16/2000 | 2/9/2005 |
| | Start Depth (ft) | | | | | | | | | | | | | | | | | | | |
| | End Depth (ft) | | | | | | | | | | | | | | | | | | | |
| **Analyte** | Criteria [1] | | | | | | | | | | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NC | --- | --- | --- | --- | --- | 0.5 U | --- | --- | --- | --- | --- | --- | --- | 0.5 U | --- | --- | 0.5 U | --- | --- |
| 1,1,1-Trichloroethane | 5 | **770** | **2460** | 4.6 | 2.8 | **27** | **16.6** | 4 J | 5 J | 0.7 J | 1.3 J | 4.6 | 4.8 | **700** | **40.6** | **14** | **12.1** | **210** | **130** | **48** |
| 1,1,2,2-Tetrachloroethane | 5 | 10 U | 10 U | 1 U | 1 U | --- | --- | 10 U | 50 U | 1 U | 5 U | 1 U | 1 U | --- | --- | 10 U | 0.5 U | --- | 10 U | 1 U |
| 1,1,2-Trichloroethane | 1 | 10 U | 10 U | 1 U | 1 U | --- | 0.5 U | 10 U | 50 U | 1 U | 5 U | 1 U | 1 U | --- | 0.5 U | 10 U | 0.25 J | 0.5 U | 10 U | 1 U |
| 1,1-Dichloroethane | 5 | **26** | **188** | 4.6 | 4.8 | **6** | 1.9 | 1 J | 50 U | 1 U | 5 U | 0.86 J | 0.66 J | **55** | **22.5** | 3 J | 4.83 | **23.2** | **6 J** | 2 |
| 1,1-Dichloroethene | 5 | **12** | **34.8** | 1 U | 1 U | 5 U | 0.5 U | 10 U | 50 U | 1 U | 5 U | 1 U | 1 U | **15** | 0.5 U | 10 U | 0.35 J | **26.4** | 4 J | 1 |
| 1,2,3-Trichloropropane | 0.04 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,2-Dibromo-3-chloropropane (DBCP) | 0.04 | --- | --- | 2 U | 2 U | --- | --- | --- | --- | --- | --- | 2 U | 2 UJ | --- | --- | --- | --- | --- | --- | --- |
| 1,2-Dibromoethane (Ethylene Dibromide) | 0.0006 | --- | --- | 1 U | 1 U | --- | --- | --- | --- | --- | --- | 1 U | 1 U | --- | --- | --- | --- | --- | --- | --- |
| 1,2-Dichloroethane | 0.6 | 10 U | 10 U | 1 U | 1 U | --- | 0.5 U | 10 U | 50 U | 1 U | 5 U | 1 U | 1 U | --- | 0.5 U | 10 U | 0.5 U | 0.5 U | 10 U | 1 U |
| 1,2-Dichloroethene (total) | NC | --- | --- | --- | --- | 5 U | --- | 10 U | 5 J | --- | --- | --- | --- | 35 | --- | 10 U | --- | --- | 10 U | --- |
| 1,2-Dichloropropane | 1 | 10 U | 10 U | 1 U | 1 U | --- | 0.5U | 10 U | 50 U | 1 U | 5 U | 1 U | 1 U | --- | 0.5 U | 10 U | 0.5 U | 0.5 U | 10 U | 1 U |
| 2-Butanone (Methyl Ethyl Ketone) | 50 | 200 U | 200 U | 5 U | 5 U | --- | --- | 10 U | 50 U | 20 U | 100 U | 5 U | 5 UJ | --- | --- | 10 U | 10 U | --- | 10 U | 25 U |
| 2-Hexanone | 50 | 100 U | 100 U | 5 U | 5 U | --- | --- | 10 U | 50 U | 10 U | 50 U | 5 U | 5 UJ | --- | --- | 10 U | 5 U | --- | 10 U | 12 U |
| 4-Methyl-2-pentanone (Methyl Isobutyl Ketone) | NC | 100 U | 100 U | 5 U | 5 U | --- | --- | 10 U | 50 U | 10 U | 50 U | 5 U | 5 U | --- | --- | 10 U | 5 U | --- | 10 U | 12 U |
| Acetone | 50 | 200 U | 200 U | 2.7 J | 5 U | 10 U | --- | 10 U | 12 | 20 U | 100 U | 5 U | 5 U | 10 U | --- | 4 | 10 U | --- | 10 U | 25 U |
| Acrylonitrile | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Benzene | 1 | 10 U | 10 U | 1 U | 1 U | --- | --- | 10 U | 50 U | 1 U | 5 U | 1 U | 1 U | --- | --- | 10 U | 0.5 U | --- | 10 U | 1 U |
| Bromodichloromethane | 50 | 10 U | 10 U | 1 U | 1 U | --- | 0.5 U | 10 U | 50 U | 1 U | 5 U | 1 U | 1 U | --- | 0.5 U | 10 U | 0.5 U | 0.5 U | 10 U | 1 U |
| Bromoform | 50 | 10 U | 10 U | 1 U | 1 U | --- | 0.5 U | 10 U | 50 U | 1 U | 5 U | 1 U | 1 U | --- | 0.5 U | 10 U | 0.5 U | 0.5 U | 10 U | 1 U |
| Bromomethane (Methyl Bromide) | 5 | 20 U | 20 U | 1 U | 1 U | --- | 0.5 U | 10 U | 50 U | 2 U | 10 U | 1 U | 1 U | --- | 0.5 U | 10 U | 1 U | 0.5 U | 10 U | 2 U |
| Carbon disulfide | 60 | 3 J | 10 U | 1 U | 1 U | --- | --- | 10 U | 50 U | 0.4 J | 1.6 J | 1 U | 1 U | --- | --- | 10 U | 0.5 U | --- | 10 U | 1 U |
| Carbon tetrachloride | 5 | 10 U | 10 U | 1 U | 1 U | --- | 0.5 U | 10 U | 50 U | 1 U | 5 U | 1 U | 1 U | --- | 0.5 U | 10 U | 0.5 U | 0.5 U | 10 U | 1 U |
| Chlorobenzene | 5 | 10 U | 10 U | 1 U | 1 U | --- | 0.5 U | 10 U | 50 U | 1 U | 5 U | 1 U | 1 U | --- | 0.5 U | 10 U | 0.5 U | 0.5 U | 10 U | 1 U |
| Chlorobromomethane | 5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Chloroethane | 5 | 20 U | 20 U | 1 U | 1 U | --- | 0.5 U | 10 U | 50 U | 2 U | 10 U | 1 U | 1 U | --- | 0.5 U | 10 U | 1 U | 0.5 U | 10 U | 2 U |
| Chloroform (Trichloromethane) | 7 | 10 U | 10 U | 1 U | 1 U | --- | 0.5 U | 10 U | 50 U | 1 U | 5 U | 1 U | 1 U | --- | 0.5 U | 10 U | 0.17 J | 0.5 U | 10 U | 1 U |
| Chloromethane (Methyl Chloride) | 5 | 20 U | 20 U | 1 U | 1 U | --- | 0.5 U | 10 U | 50 U | 2 U | 10 U | 1 U | 1 U | --- | 0.5 U | 10 U | 1 U | 0.5 U | 10 U | 2 U |
| cis-1,2-Dichloroethene | 5 | 10 U | 10 U | 2.2 | 3.1 | --- | --- | --- | --- | 0.4 J | 2.6 J | 2.2 | 1.8 | --- | --- | --- | 1.38 | --- | --- | 1 U |
| cis-1,3-Dichloropropene | 0.4 | 10 U | 10 U | 1 U | 1 U | --- | 0.5 U | 10 U | 50 U | 1 U | 5 U | 1 U | 1 U | --- | 0.5 U | 10 U | 0.5 U | 0.5 U | 10 U | 1 U |
| Dibromochloromethane | 50 | 10 U | 10 U | 1 U | 1 U | --- | 0.5 U | 10 U | 50 U | 1 U | 5 U | 1 U | 1 U | --- | 0.5 U | 10 U | 0.5 U | 0.5 U | 10 U | 1 U |
| Dibromomethane | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Ethane | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Ethylbenzene | 5 | 10 U | 10 U | 1 U | 1 U | --- | --- | 10 U | 50 U | 1 U | 5 U | 1 U | 1 U | --- | --- | 10 U | 0.5 U | --- | 10 U | 1 U |
| Ethene | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Iodomethane | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Methane | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Methylene chloride | 5 | 40 U | 40 U | 1 U | 1 U | --- | **19.4** | 10 U | **33** | 4 U | **6 J** | 1 U | 1 U | --- | **17.2** | 5 | 2 U | **18.5** | 2 BJ | 5 U |
| o-Xylene | NC | --- | --- | 1 U | 1 U | --- | --- | --- | --- | --- | --- | 1 U | 1 U | --- | --- | --- | --- | --- | --- | --- |
| Styrene | 5 | 10 U | 10 U | 1 U | 1 U | --- | --- | 10 U | 50 U | 1 U | 5 U | 1 U | 1 U | --- | --- | 10 U | 0.5 U | --- | 10 U | 1 U |
| Tetrachloroethene | 5 | 5 J | **11** | **5.1** | 4.1 | **630** | **413** | **350** | **480** | **73** | **223** | **92** | **97** | **9** | 4.3 | 3 J | **9** | **11.2** | 1 J | **17** |
| Toluene | 5 | 10 U | 10 U | 1 U | 1 U | --- | --- | 10 U | 50 U | 1 U | 5 U | 1 U | 1 U | --- | --- | 10 U | 0.5 U | --- | 10 U | 1 U |
| Total Btex | NC | 10 U | 20 U | --- | --- | --- | --- | 10 U | 50 U | 1 U | 5 U | --- | --- | --- | --- | 10 U | 1 U | --- | 10 U | 1 U |
| trans-1,2-Dichloroethene | 5 | 10 U | 10 U | 1 U | 0.21 J | --- | 0.5 U | --- | --- | 1 U | 5 U | 1 U | 1 U | --- | 0.5 U | --- | 0.5 U | 0.5 U | --- | 1 U |
| trans-1,3-Dichloropropene | 0.4 | 10 U | 10 U | 1 U | 1 U | --- | 0.5 U | 10 U | 50 U | 1 U | 5 U | 1 U | 1 U | --- | 0.5 U | 10 U | 0.5 U | 0.5 U | 10 U | 1 U |
| Trans-1,4-dichlorobutene | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Trichloroethene | 5 | 4 J | **14.4** | 2.4 | 2.4 | **6** | 5.1 | 4 J | 5 J | 2 | **6.1** | 2.4 | 2.2 | 0.5 U | 1.8 | 10 U | 0.95 | 4.5 | 2 J | 0.8 J |
| Trichlorofluoromethane (CFC-11) | 5 | --- | --- | 1 U | 1 U | --- | --- | --- | --- | --- | --- | 1 U | 1 U | --- | 0.5 U | --- | --- | 0.5 U | --- | --- |
| Vinyl Acetate | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Vinyl chloride | 2 | 20 U | 20 U | 0.68 J | 1.1 | --- | 0.5 U | 10 U | 50 U | 2 U | 10 U | 0.68 J | 0.48 J | --- | 0.5 U | 10 U | 1 U | 0.5 U | 10 U | 2 U |
| Xylene (m,p) | NC | --- | --- | 2 U | 2 U | --- | --- | --- | --- | --- | --- | 2 U | 2 UJ | --- | --- | --- | --- | --- | --- | --- |
| Xylene (total) | 5 | 10 U | 20 U | --- | --- | --- | --- | 10 U | 50 U | 1 U | 10 U | --- | --- | --- | --- | 10 U | 1 U | --- | 10 U | 1 U |

**Notes:**
All units in micrograms per liter (µg/L)
[1] New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values, Revised June 1998.
**BOLD** - Exceedes New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values.
* - Elevation - ft amsl (ft bgs) [ft amsl - feet above mean sea level, ft bgs - feet below ground surface]
[2] Passive diffusion bags deployed 12/2/2005 and retrieved on 12/22/2005.
- Only wells with a discrete fracture or sampling interval have start and end depths.
- Well AMSF-MW-12S was found to be obstructed prior to the April/May 2010 sampling event. The obstruction was cleared prior to the September 2010 sampling event
- Well ITT-DBW-8 was inadvertently missed during the April/May 2010 Sampling Event.
- Well ITT-SBW-9 was inadvertently missed during sampling in April 2010 and consequently sampled in May 2010 when the mistake was identified.
NC - No criteria exists
U - Not Detected at the Detection Limit shown, J - Estimated value, UJ - Approximate Non-detect, B - Blank Contamination, BJ - Estimated Value Detected in Blank
--- Not Analyzed

**Table 5-4a**
**Groundwater Sample VOC Results**
**Former ITT Rochester Form Machine Facility**
**Site #8-28-112**
**Town of Gates, New York**

| | Location Code | AMSF-MW-5D | AMSF-MW-5D | AMSF-MW-5D | AMSF-MW-5S | AMSF-MW-5S | AMSF-MW-5S | AMSF-MW-6 | AMSF-MW-6 | AMSF-MW-7 | AMSF-MW-7 | AMSF-MW-7 | AMSF-MW-7 | AMSF-MW-7 | AMSF-MW-7 | AMSF-MW-7 | AMSF-MW-7 | AMSF-MW-7 | AMSF-MW-7 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | 9/28/2005 | 4/26/2010 | 9/13/2010 | 1/3/1900 | 11/15/2000 | 11/16/2000 | 6/11/1992 | 7/28/1998 | 6/11/1992 | 7/29/1998 | 5/4/1999 | 11/16/2000 | 2/8/2005 | 8/31/2005 | 10/4/2005 | 12/22/2005 | 12/22/2005 | 12/22/2005 | 4/26/2010 |
| | Start Depth (ft) | | | | | | | | | | | | | | | | 552.5 (10.7)* | 547.5 (15.7)* | 542.5 (20.7)* | |
| | End Depth (ft) | | | | | | | | | | | | | | | | 550.5 (12.7)* | 545.5 (17.7)* | 540.5 (22.7)* | |
| **Analyte** | **Criteria** [1] | | | | | | | | | | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NC | --- | --- | --- | 0.5 U | --- | --- | 0.5 U | --- | 5 U | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,1,1-Trichloroethane | 5 | **240** | **310** | **390** | **43.5** | --- | **41** | **815** | **180** | **75800** | **72000** | **110000** | **76000** | **95000** | **22900** | **65600** | **3170** | **92200** | **82700** | **30000** |
| 1,1,2,2-Tetrachloroethane | 5 | 5 U | 1 U | 2.5 U | --- | --- | 10 U | --- | 10 U | --- | 4,000 U | 10,000 U | 50 U | 1,000 U | 500 U | 500 U | 50 U | 500 U | 500 U | 25 U |
| 1,1,2-Trichloroethane | 1 | 5 U | 1 U | 2.5 U | 0.5 U | --- | 10 U | 0.5 U | 10 U | 5 U | 4,000 U | 10,000 U | 50 U | 1,000 U | 500 U | 500 U | 50 U | 500 U | 500 U | 25 U |
| 1,1-Dichloroethane | 5 | **10.2** | **13** | **16** | 3.9 | --- | 2 J | **22.9** | **7 J** | **421** | **900 J** | **2,700 J** | **1600** | **930 J** | **550** | **980** | **77** | **1110** | **1090** | **600** |
| 1,1-Dichloroethene | 5 | **6.8** | **9** | **13** | 1.4 | --- | 2 J | **71.6** | 5 J | **301** | 4,000 U | **1,100 J** | **790** | 1,000 U | **110 J** | **150 J** | 50 U | **170 J** | **170 J** | **56** |
| 1,2,3-Trichloropropane | 0.04 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,2-Dibromo-3-chloropropane (DBCP) | 0.04 | --- | 2 U | 5 U | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 50 U |
| 1,2-Dibromoethane (Ethylene Dibromide) | 0.0006 | --- | 1 U | 2.5 U | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 25 U |
| 1,2-Dichloroethane | 0.6 | 5 U | 1 U | 2.5 U | 0.5 U | --- | 10 U | 0.5 U | 10 U | 68.9 | 4,000 U | 10,000 U | **11 J** | 1,000 U | 500 U | 500 U | 50 U | 500 U | 500 U | 25 U |
| 1,2-Dichloroethene (total) | NC | --- | --- | --- | --- | --- | 10 U | --- | 10 U | --- | 4,000 U | 10,000 U | 50 U | --- | --- | --- | --- | --- | --- | --- |
| 1,2-Dichloropropane | 1 | 5 U | 1 U | 2.5 U | 0.5 U | --- | 10 U | 0.5 U | 10 U | 5 U | 4,000 U | 10,000 U | 50 U | 1,000 U | 500 U | 500 U | 50 U | 500 U | 500 U | 25 U |
| 2-Butanone (Methyl Ethyl Ketone) | 50 | 100 U | 5 U | 13 U | --- | --- | 10 U | --- | 10 U | --- | 4,000 U | 10,000 U | 45 J | 20,000 U | 10,000 UJ | 10,000 U | 1,000 U | 10,000 U | 10,000 U | 130 U |
| 2-Hexanone | 50 | 50 U | 5 U | 13 U | --- | --- | 10 U | --- | 10 U | --- | 4,000 U | 10,000 U | 50 U | 10,000 U | 5,000 U | 5,000 U | 500 U | 5,000 U | 5,000 U | 130 U |
| 4-Methyl-2-pentanone (Methyl Isobutyl Ketone) | NC | 50 U | 5 U | 13 U | --- | --- | 10 U | --- | --- | --- | 4,000 U | --- | 50 U | 10,000 U | 5,000 U | 5,000 U | 500 U | 5,000 U | 5,000 U | 130 U |
| Acetone | 50 | 100 U | 5 U | 13 U | --- | --- | 10 U | --- | 10 U | --- | 4,000 U | 10,000 U | 50 U | 20,000 U | 10,000 UJ | 10,000 U | 1,000 U | 10,000 U | 10,000 U | 130 U |
| Acrylonitrile | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Benzene | 1 | 5 U | 1 U | 2.5 U | --- | --- | 10 U | --- | 10 U | --- | 4,000 U | 10,000 U | 50 U | 1,000 U | 500 U | 500 U | 50 U | 500 U | 500 U | 25 U |
| Bromodichloromethane | 50 | 5 U | 1 U | 2.5 U | 0.5 U | --- | 10 U | 0.5 U | 10 U | 5 U | 4,000 U | 10,000 U | 50 U | 1,000 U | 500 U | 500 U | 50 U | 500 U | 500 U | 25 U |
| Bromoform | 50 | 5 U | 1 U | 2.5 U | 0.5 U | --- | 10 U | 0.5 U | 10 U | 5 U | 4,000 U | 10,000 U | 50 U | 1,000 U | 500 U | 500 U | 50 U | 500 U | 500 U | 25 U |
| Bromomethane (Methyl Bromide) | 5 | 10 U | 1 U | 2.5 U | 0.5 U | --- | 10 U | 0.5 U | 10 U | 5 U | 4,000 U | 10,000 U | 50 U | 2,000 U | 1,000 U | 1,000 U | 100 U | 1,000 U | 1,000 U | 25 U |
| Carbon disulfide | 60 | 5 U | 1 U | 2.5 U | --- | --- | 10 U | --- | 10 U | --- | 4,000 U | 10,000 U | 50 U | 1,000 U | 500 U | 500 U | 50 U | 500 U | 500 U | 25 U |
| Carbon tetrachloride | 5 | 5 U | 1 U | 2.5 U | 0.5 U | --- | 10 U | 0.5 U | 10 U | 5 U | 4,000 U | 10,000 U | 50 U | 1,000 U | 500 U | 500 U | 50 U | 500 U | 500 U | 25 U |
| Chlorobenzene | 5 | 5 U | 1 U | 2.5 U | 0.5 U | --- | 10 U | 0.5 U | 10 U | 5 U | 4,000 U | 10,000 U | 50 U | 1,000 U | 500 U | 500 U | 50 U | 500 U | 500 U | 25 U |
| Chlorobromomethane | 5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Chloroethane | 5 | 10 U | 1 U | 2.5 U | 0.5 U | --- | 10 U | 0.5 U | 10 U | 5 U | 4,000 U | 10,000 U | 50 U | 2,000 U | 1,000 U | 1,000 U | 100 U | 1,000 U | 1,000 U | 25 U |
| Chloroform (Trichloromethane) | 7 | 5 U | 1 U | 2.5 U | 0.5 U | --- | 10 U | 0.5 U | 10 U | 5 U | 4,000 U | 10,000 U | 50 U | 1,000 U | 500 U | 500 U | 50 U | 500 U | 500 U | 25 U |
| Chloromethane (Methyl Chloride) | 5 | 10 U | 1 U | 2.5 U | 0.5 U | --- | 10 U | 0.5 U | 10 U | 5 U | 4,000 U | 10,000 U | 50 U | 2,000 U | 1,000 U | 1,000 U | 100 U | 1,000 U | 1,000 U | 25 U |
| cis-1,2-Dichloroethene | 5 | 5 U | 1 U | 0.8 J | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1,000 U | 500 U | 500 U | 50 U | 500 U | 500 U | 25 U |
| cis-1,3-Dichloropropene | 0.4 | 5 U | 1 U | 2.5 U | 0.5 U | --- | 10 U | 0.5 U | 10 U | 5 U | 4,000 U | 10,000 U | 50 U | 1,000 U | 500 U | 500 U | 50 U | 500 U | 500 U | 25 U |
| Dibromochloromethane | 50 | 5 U | 1 U | 2.5 U | 0.5 U | --- | 10 U | 0.5 U | 10 U | 5 U | 4,000 U | 10,000 U | 50 U | 1,000 U | 500 U | 500 U | 50 U | 500 U | 500 U | 25 U |
| Dibromomethane | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Ethane | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Ethylbenzene | 5 | 5 U | 1 U | 2.5 U | --- | --- | 10 U | --- | 10 U | --- | 4,000 U | 10,000 U | 50 U | 1,000 U | 500 U | 500 U | 50 U | 500 U | 500 U | 25 U |
| Ethene | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Iodomethane | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Methane | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Methylene chloride | 5 | 1.1 J | 1 U | 2.5 U | 2.5 | --- | 4 | **18.4** | 10 U | **11.4** | **620 J** | 10,000 U | **52 B** | 4,000 U | **320 J** | 2,000 U | 200 U | 2,000 U | 2,000 U | 25 U |
| o-Xylene | NC | --- | 1 U | 2.5 U | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 25 U |
| Styrene | 5 | 5 U | 1 U | 2.5 U | --- | --- | 10 U | --- | 10 U | --- | 4,000 U | 10,000 U | 50 U | 1,000 U | 500 U | 500 U | 50 U | 500 U | 500 U | 25 U |
| Tetrachloroethene | 5 | **11.9** | 3.7 | 3.8 | 1.4 | --- | 2 J | **14.4** | 4 J | 5 U | 4,000 U | 10,000 U | 50 U | 1,000 U | 500 U | 500 U | 50 UJ | 500 UJ | 500 UJ | 25 U |
| Toluene | 5 | 5 U | 1 U | 2.5 U | --- | --- | 10 U | --- | 10 U | --- | 4,000 U | 10,000 U | 50 U | 1,000 U | 500 U | 500 U | 50 U | 500 U | 500 U | 25 U |
| Total Btex | NC | 5 U | --- | --- | --- | --- | 10 U | --- | 10 U | --- | 4,000 U | 10,000 U | 50 U | 1,000 U | 500 U | 500 U | --- | --- | --- | --- |
| trans-1,2-Dichloroethene | 5 | 5 U | 1 U | 2.5 U | 0.5 U | --- | --- | 0.5 U | --- | 5 U | --- | --- | --- | 1,000 U | 500 U | 500 U | 50 UJ | 500 UJ | 500 UJ | 25 U |
| trans-1,3-Dichloropropene | 0.4 | 5 U | 1 U | 2.5 U | 0.5 U | --- | 10 U | 0.5 U | 10 U | 5 U | 4,000 U | 10,000 U | 50 U | 1,000 U | 500 U | 500 U | 50 U | 500 U | 500 U | 25 U |
| Trans-1,4-dichlorobutene | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Trichloroethene | 5 | 1.6 J | 1.7 | 2.6 | 0.5 U | --- | 10 U | **6.8** | 2 J | **349** | **420 J** | 10,000 U | **500** | **430 J** | **100 J** | **300 J** | **14 J** | **370 J** | **340 J** | **120** |
| Trichlorofluoromethane (CFC-11) | 5 | --- | 1 U | 2.5 U | 0.5 U | --- | --- | 0.5 U | --- | 5 U | --- | --- | --- | --- | --- | --- | --- | --- | --- | 25 U |
| Vinyl Acetate | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Vinyl chloride | 2 | 10 U | 1 U | 2.5 U | 0.5 U | --- | 10 U | 0.5 U | 10 U | 5 U | 4,000 U | 10,000 U | 50 U | 2,000 U | 1,000 U | 1,000 U | 100 U | 1,000 U | 1,000 U | 25 U |
| Xylene (m,p) | NC | --- | 2 U | 5 U | --- | --- | --- | --- | --- | --- | --- | 10,000 U | --- | --- | --- | --- | --- | --- | --- | 50 U |
| Xylene (total) | 5 | 10 U | --- | --- | --- | --- | 10 U | --- | 10 U | --- | 4,000 U | 10,000 U | 50 U | 1,000 U | 1,000 U | 1,000 U | 100 U | 1,000 U | 1,000 U | --- |

**Notes:**
All units in micrograms per liter (µg/L)
[1] New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values, Revised June 1998.
**BOLD** - Exceedes New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values.
* - Elevation - ft amsl (ft bgs) [ft amsl - feet above mean sea level, ft bgs - feet below ground surface]
[2] Passive diffusion bags deployed 12/2/2005 and retrieved on 12/22/2005.
- Only wells with a discrete fracture or sampling interval have start and end depths.
- Well AMSF-MW-12S was found to be obstructed prior to the April/May 2010 sampling event. The obstruction was cleared prior to the September 2010 sampling event
- Well ITT-DBW-8 was inadvertently missed during the April/May 2010 Sampling Event.
- Well ITT-SBW-9 was inadvertently missed during sampling in April 2010 and consequently sampled in May 2010 when the mistake was identified.
NC - No criteria exists
U - Not Detected at the Detection Limit shown, J - Estimated value, UJ - Approximate Non-detect, B - Blank Contamination, BJ - Estimated Value Detected in Blank
--- Not Analyzed

**Table 5-4a**
**Groundwater Sample VOC Results**
**Former ITT Rochester Form Machine Facility**
**Site #8-28-112**
**Town of Gates, New York**

| | Location Code | AMSF-MW-7 | AMSF-MW-8D | AMSF-MW-8D | AMSF-MW-8D | AMSF-MW-8D | AMSF-MW-8S | AMSF-MW-9D | AMSF-MW-9S | AMSF-MW-9S | AMSF-MW-9S | AMSF-MW-9S | AMSF-MW-9S | AMSF-MW-9S | AMSF-MW-9S | AMSF-MW-10 | AMSF-MW-10 | AMSF-MW-10 | AMSF-MW-10 | AMSF-MW-11S |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | 9/9/2010 | 6/11/1992 | 11/16/2000 | 2/8/2005 | 9/27/2005 | 6/11/1992 | 6/11/1992 | 6/11/1992 | 11/15/2000 | 2/8/2005 | 8/31/2005 | 10/4/2005 | 4/21/2010 | 9/15/2010 | 6/11/1992 | 11/15/2000 | 2/9/2005 | 10/4/2005 | 2/8/2005 |
| | Start Depth (ft) | | | | | | | | | | | | | | | | | | | |
| | End Depth (ft) | | | | | | | | | | | | | | | | | | | |
| **Analyte** | **Criteria** [1] | | | | | | | | | | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NC | --- | 0.5 U | --- | --- | --- | 0.5 U | 5U | 0.5 U | --- | --- | --- | --- | --- | --- | 0.5 U | --- | --- | --- | --- |
| 1,1,1-Trichloroethane | 5 | **8300** | **6.5** | 10 U | 0.6 | 0.5 U | **22.6** | **273** | **909** | **610** | **1100** | **1100** | **8.39** | **200** | **800** | 4 | **6** | 5 U | 10 U | **220** |
| 1,1,2,2-Tetrachloroethane | 5 | 50 U | --- | 10 U | 0.5 U | 0.5 U | --- | --- | --- | 50 U | 20 U | 25 U | 0.5 U | 1 U | 5 U | --- | 10 U | 5 U | 10 U | 0.5 U |
| 1,1,2-Trichloroethane | 1 | 50 U | 0.5 U | 10 U | 0.5 U | 0.5 U | 0.5 U | 5 U | 0.5 U | 50 U | 20 U | 25 U | 0.5 U | **4.9** | **4.1 J** | 0.5 U | 10 U | 5 U | 10 U | 0.5 U |
| 1,1-Dichloroethane | 5 | **230** | **25.3** | **12** | **10** | 2.21 | 2.5 | **50.6** | **91.2** | **25 J** | **62** | **85.5** | 0.74 | **46** | **89** | 0.5 U | 3 | 5 U | 10 U | **80** |
| 1,1-Dichloroethene | 5 | **30 J** | 1.6 | 10 U | 0.3 J | 0.1 J | 1.9 | **88.8** | **86.3** | **34 J** | **38** | **95.5** | 0.74 | **39** | **58** | 0.5 U | 10 U | 5 U | 10 U | **9** |
| 1,2,3-Trichloropropane | 0.04 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,2-Dibromo-3-chloropropane (DBCP) | 0.04 | 100 U | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 2 U | 10 U | --- | --- | --- | --- | --- |
| 1,2-Dibromoethane (Ethylene Dibromide) | 0.0006 | 50 U | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1 U | 5 U | --- | --- | --- | --- | --- |
| 1,2-Dichloroethane | 0.6 | 50 U | 0.5 U | 10 U | 0.5 U | 0.5 U | 0.5 U | 5U | 2.8 | 50 U | 20 U | 25 U | 0.5 U | **0.63 J** | **1.2 J** | 0.5 U | 10 U | 5 U | 10 U | 0.5 U |
| 1,2-Dichloroethene (total) | NC | --- | --- | 10 U | --- | --- | --- | --- | --- | 9 J | --- | --- | --- | --- | --- | --- | 2 | --- | --- | --- |
| 1,2-Dichloropropane | 1 | 50 U | 0.5 U | 10 U | 0.5 U | 0.5 U | 0.5 U | 5U | 0.5 U | 50 U | 20 U | 25 U | 0.5 U | 1 U | 5 U | 0.5 U | 10 U | 5 U | 10 U | 0.5 U |
| 2-Butanone (Methyl Ethyl Ketone) | 50 | 250 U | --- | 9 J | 10 U | 10 U | --- | --- | --- | 50 U | 400 U | 500 U | 10 U | 5 U | 25 U | --- | 10 U | 100 U | 200 U | 10 U |
| 2-Hexanone | 50 | 250 U | --- | 10 U | 5 U | 5 U | --- | --- | --- | 50 U | 200 U | 250 U | 5 U | 5 U | 25 U | --- | 10 U | 50 U | 100 U | 5 U |
| 4-Methyl-2-pentanone (Methyl Isobutyl Ketone) | NC | 250 U | --- | 10 U | 5 U | 5 U | --- | --- | --- | 50 U | 200 U | 250 UJ | 5 U | 5 U | 25 U | --- | 10 U | 50 U | 100 U | 5 U |
| Acetone | 50 | 250 U | --- | 45 | 10 U | 10 U | --- | --- | --- | 18 | 400 U | 500 UJ | 10 U | 5 U | 12 J | --- | 3 | 100 U | 200 U | 10 U |
| Acrylonitrile | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Benzene | 1 | 50 U | --- | **5 J** | **2** | **1.05** | --- | --- | --- | 50 U | 20 U | 25 U | 0.5 U | 1 U | 5 U | --- | 10 U | 5 U | 10 U | 0.4 J |
| Bromodichloromethane | 50 | 50 U | 0.5 U | 10 U | 0.5 U | 0.5 U | 0.5 U | 5 U | 0.5 U | 50 U | 20 U | 25 U | 0.5 U | 1 U | 5 U | 0.5 U | 10 U | 5 U | 10 U | 0.5 U |
| Bromoform | 50 | 50 U | 0.5 U | 10 U | 0.5 U | 0.5 U | 0.5 U | 5 U | 0.5 U | 50 U | 20 U | 25 U | 0.5 U | 1 U | 5 U | 0.5 U | 10 U | 5 U | 10 U | 0.5 U |
| Bromomethane (Methyl Bromide) | 5 | 50 U | 0.5 U | 10 U | 1 UJ | 1 U | 0.5 U | 5 U | 0.5 U | 50 U | 40 U | 50 U | 1 U | 1 U | 5 U | 0.5 U | 10 U | 10 UJ | 20 U | 1 U |
| Carbon disulfide | 60 | 50 U | --- | 10 U | 0.4 J | 0.47 J | --- | --- | --- | 50 U | 20 U | 25 U | 0.5 U | 1 U | 5 U | --- | 10 U | 5 U | 10 U | 0.5 U |
| Carbon tetrachloride | 5 | 50 U | 0.5 U | 10 U | 0.5 U | 0.5 U | 0.5 U | 5 U | 0.5 U | 50 U | 20 U | 25 U | 0.5 U | 1 U | 5 U | 0.5 U | 10 U | 5 U | 10 U | 0.5 U |
| Chlorobenzene | 5 | 50 U | 0.5 U | 10 U | 0.5 U | 0.5 U | 0.5 U | 5U | 0.5 U | 50 U | 20 U | 25 U | 0.5 U | 1 U | 5 U | 0.5 U | 10 U | 5 U | 10 U | 0.5 U |
| Chlorobromomethane | 5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Chloroethane | 5 | 50 U | 0.5 U | 10 U | 1 | 1.06 | 0.5 U | 5 U | 0.5 U | 50 U | 40 U | 50 U | 1 U | 1 U | 5 U | 0.5 U | 10 U | 10 U | 20 U | 0.6 J |
| Chloroform (Trichloromethane) | 7 | 50 U | 0.5 U | 10 U | 0.5 U | 0.5 U | 0.5 U | 5 U | 0.93 | 50 U | 20 U | 25 U | 0.5 U | 0.31 J | 5 U | 0.5 U | 10 U | 5 U | 10 U | 0.5 U |
| Chloromethane (Methyl Chloride) | 5 | 50 U | 0.5 U | 10 U | 1 U | 1 U | 0.5 U | 5 U | 0.5 U | 50 U | 40 U | 50 U | 1 U | 1 U | 5 U | 0.5 U | 10 U | 10 U | 20 U | 1 U |
| cis-1,2-Dichloroethene | 5 | 50 U | --- | --- | 0.5 U | 0.5 U | --- | --- | --- | --- | **21** | **49** | 0.35 J | **28** | **52** | --- | --- | 2 J | 10 U | 0.5 |
| cis-1,3-Dichloropropene | 0.4 | 50 U | 0.5 U | 10 U | 0.5 U | 0.5 U | 0.5 U | 5 U | 0.5 U | 50 U | 20 U | 25 U | 0.5 U | 1 U | 5 U | 0.5 U | 10 U | 5 U | 10 U | 0.5 U |
| Dibromochloromethane | 50 | 50 U | 0.5 U | 10 U | 0.5 U | 0.5 U | 0.5 U | 5 U | 0.67 | 50 U | 20 U | 25 U | 0.5 U | 1 U | 5 U | 0.5 U | 10 U | 5 U | 10 U | 0.5 U |
| Dibromomethane | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Ethane | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Ethylbenzene | 5 | 50 U | --- | 2 J | 0.8 | 0.28 J | --- | --- | --- | 50 U | 20 U | 25 U | 0.5 U | 1 U | 5 U | --- | 10 U | 5 U | 10 U | 0.2 J |
| Ethene | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Iodomethane | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Methane | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Methylene chloride | 5 | 50 U | 2.9 | 3 BJ | 2 U | 2 U | 1.6 | **32.8** | **5.9** | **34** | 80 U | **17 J** | 2 U | 1 U | 5 U | 1.7 | 5 | 20 U | 40 U | 2 U |
| o-Xylene | NC | 50 U | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1 U | 5 U | --- | --- | --- | --- | --- |
| Styrene | 5 | 50 U | --- | 10 U | 0.5 U | 0.5 U | --- | --- | --- | 50 U | 20 U | 25 U | 0.5 U | 1 U | 5 U | --- | 10 U | 5 U | 10 U | 0.5 U |
| Tetrachloroethene | 5 | 50 U | 0.5 U | 10 U | 0.5 U | 0.5 U | 1.7 | **7.7** | **90.2** | **21 J** | **96** | **138** | 1.8 | **35** | **52** | **117** | **60** | **270** | **417** | 4 |
| Toluene | 5 | 50 U | --- | 2 J | 4 | 0.15 J | --- | --- | --- | 50 U | 20 U | 25 U | 0.5 U | 1 U | 5 U | --- | 10 U | 5 U | 10 U | 2 |
| Total Btex | NC | --- | --- | 15 | 8.8 | 1.88 | --- | --- | --- | 50 U | 20 U | 50 U | 1 U | --- | --- | --- | 10 U | 5 U | 20 U | 3.3 |
| trans-1,2-Dichloroethene | 5 | 50 U | 0.5 U | --- | 0.5 U | 0.5 U | 0.5 U | 5 U | 0.5 U | --- | 20 U | 25 U | 0.5 U | 1 U | 2.3 J | 0.5 U | --- | 5 U | 10 U | 0.5 U |
| trans-1,3-Dichloropropene | 0.4 | 50 U | 0.5 U | 10 U | 0.5 U | 0.5 U | 0.5 U | 5 U | 0.5 U | 50 U | 20 U | 25 U | 0.5 U | 1 U | 5 U | 0.5 U | 10 U | 5 U | 10 U | 0.5 U |
| Trans-1,4-dichlorobutene | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Trichloroethene | 5 | **77** | 0.69 | 10 U | 0.5 U | 0.5 U | 1.5 | **13.5** | **20.7** | 50 U | **12 J** | **26** | 0.23 J | **10** | **37** | 1.9 | 2 | 3 J | 4.8 J | 3 |
| Trichlorofluoromethane (CFC-11) | 5 | 50 U | 0.5 U | --- | --- | --- | 0.5 U | 5 U | 0.5 U | --- | --- | --- | --- | 1 U | 5 U | 0.5 U | --- | --- | --- | --- |
| Vinyl Acetate | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Vinyl chloride | 2 | 50 U | 0.5 U | 10 U | 1 U | 1 U | 0.5 U | 5 U | 0.5 U | 50 U | 40 U | 50 U | 1 U | 1.3 | 5 U | 0.5 U | 10 U | 10 U | 20 U | 1 |
| Xylene (m,p) | NC | 100 U | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 2 U | 10 U | --- | --- | --- | --- | --- |
| Xylene (total) | 5 | --- | --- | **6 J** | 2 | 0.4 J | --- | --- | --- | 50 U | 20 U | 50 U | 1 U | --- | --- | --- | 10 U | 5 U | 20 U | 0.7 |

**Notes:**
All units in micrograms per liter (µg/L)
[1] New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values, Revised June 1998.
**BOLD** - Exceedes New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values.
* - Elevation - ft amsl (ft bgs) [ft amsl - feet above mean sea level, ft bgs - feet below ground surface]
[2] Passive diffusion bags deployed 12/2/2005 and retrieved on 12/22/2005.
- Only wells with a discrete fracture or sampling interval have start and end depths.
- Well AMSF-MW-12S was found to be obstructed prior to the April/May 2010 sampling event. The obstruction was cleared prior to the September 2010 sampling event
- Well ITT-DBW-8 was inadvertently missed during the April/May 2010 Sampling Event.
- Well ITT-SBW-9 was inadvertently missed during sampling in April 2010 and consequently sampled in May 2010 when the mistake was identified.
NC - No criteria exists
U - Not Detected at the Detection Limit shown, J - Estimated value, UJ - Approximate Non-detect, B - Blank Contamination, BJ - Estimated Value Detected in Blank
--- Not Analyzed

**Table 5-4a**
**Groundwater Sample VOC Results**
**Former ITT Rochester Form Machine Facility**
**Site #8-28-112**
**Town of Gates, New York**

| | Location Code | AMSF-MW-11S | AMSF-MW-11S | AMSF-MW-11S | AMSF-MW-12S | AMSF-MW-12S | AMSF-MW-12S | AMSF-MW-12S | AMSF-MW-13S | AMSF-MW-13S | AMSF-MW-13S | AMSF-MW-13S | AMSF-MW-13S | AMSF-MW-13S | AMSF-MW-13S | AMSF-MW-13S | AMSF-MW-13S | AMSF-MW-14D | AMSF-MW-14D | AMSF-MW-14D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | 10/4/2005 | 4/23/2010 | 9/9/2010 | 2/8/2005 | 8/31/2005 | 10/4/2005 | 9/9/2010 | 2/8/2005 | 8/31/2005 | 8/31/2005 | 10/4/2005 | 12/22/2005 | 12/22/2005 | 12/22/2005 | 4/23/2010 | 9/10/2010 | 12/8/2004 | 12/9/2004 | 12/13/2004 |
| | Start Depth (ft) | | | | | | | | | | | | 552 (12.5)* | 547 (17.5)* | 542 (22.5)* | | | 534.9 (28.5)* | 529.2 (34.2)* | 514.9 (48.5)* |
| | End Depth (ft) | | | | | | | | | | | | 550 (14.5)* | 545 (19.5)* | 540 (24.5)* | | | 524.6 (38.9)* | 518.9 (44.6)* | 504.6 (58.9)* |
| **Analyte** | **Criteria** [1] | | | | | | | | | | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NC | --- | --- | --- | --- | --- | --- | --- | --- | 150 U | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,1,1-Trichloroethane | 5 | **6160** | **110** | **930** | **1500** | **125** | **4380** | **2000** | **25000** | **5800** | **5470** | **8690** | **1670** | **46300** | **71600** | **3400** | **3000** | **1300** | **1300** | **420** |
| 1,1,2,2-Tetrachloroethane | 5 | 5 U | 1 U | 1 U | 0.5 U | 2.5 U | 2.5 U | 5 U | 500 U | 150 U | 100 U | 100 U | 50 U | 1,000 U | 1,250 U | 1 U | 20 U | 20 U | 20 U | 12 U |
| 1,1,2-Trichloroethane | 1 | 5 U | 1 U | 1 U | 0.5 | 2.5 U | 0.95 J | 5 U | 500 U | 150 U | 100 U | 100 U | 50 U | 1,000 U | 1,250 U | 0.59 J | 20 U | 20 U | 20 U | 12 U |
| 1,1-Dichloroethane | 5 | **168** | **50** | **92** | **47** | 4.8 | **118** | **84** | **400 J** | 150 U | **106** | **234** | **118** | **1820** | **2720** | **280** | **210** | **170** | **61** | **32** |
| 1,1-Dichloroethene | 5 | **32.6** | 3.4 | **6.6** | **12** | 2.85 | **35.8** | **12** | 500 U | 150 U | **40 J** | **56 J** | **11 J** | 1,000 U | 1,250 U | **33** | **18 J** | **18 J** | **17 J** | **7.9 J** |
| 1,2,3-Trichloropropane | 0.04 | --- | --- | --- | --- | --- | --- | --- | --- | 150 U | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,2-Dibromo-3-chloropropane (DBCP) | 0.04 | --- | 2 U | 2 UJ | --- | --- | --- | 10 UJ | --- | 500 U | --- | --- | --- | --- | --- | 2 U | 40 U | --- | --- | --- |
| 1,2-Dibromoethane (Ethylene Dibromide) | 0.0006 | --- | 1 U | 1 U | --- | --- | --- | 5 U | --- | 150 U | --- | --- | --- | --- | --- | 1 U | 20 U | --- | --- | --- |
| 1,2-Dichloroethane | 0.6 | 5 U | 1 U | 1 U | 0.2 J | 2.5 U | 2.5 U | 5 U | 500 U | 150 U | 100 U | 100 U | 50 U | 1,000 U | 1,250 U | 1 U | 20 U | 20 U | 20 U | 12 U |
| 1,2-Dichloroethene (total) | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,2-Dichloropropane | 1 | 5 U | 1 U | 1 U | 0.5 U | 2.5 U | 2.5 U | 5 U | 500 U | 150 U | 100 U | 100 U | 50 U | 1,000 U | 1,250 U | 1 U | 20 U | 20 U | 20 U | 12 U |
| 2-Butanone (Methyl Ethyl Ketone) | 50 | 100 U | 5 U | 5 UJ | 10 U | 50 U | 50 U | 25 UJ | 10,000 U | 500 U | 2,000 U | 2,000 U | 1,000 U | 20,000 U | 25,000 U | 2.6 J | 100 U | 400 U | 400 U | 250 U |
| 2-Hexanone | 50 | 50 U | 5 U | 5 UJ | 5 U | 25 U | 25 U | 25 UJ | 5,000 U | 500 U | 1,000 U | 1,000 U | 500 U | 10,000 U | 12,500 U | 5 U | 100 U | 200 U | 200 U | 120 U |
| 4-Methyl-2-pentanone (Methyl Isobutyl Ketone) | NC | 50 U | 5 U | 5 U | 5 U | 25 U | 25 U | 25 U | 5,000 U | 500 U | 1,000 U | 1,000 U | 500 U | 10,000 U | 12,500 U | 5 U | 100 U | 200 U | 200 U | 120 U |
| Acetone | 50 | 100 U | 5 U | 5 U | 10 U | 50 UJ | 50 U | 25 U | 10,000 U | 500 UJ | 2,000 U | 2,000 U | 1,000 U | 20,000 U | 25,000 U | 5 U | 100 U | 400 U | 400 U | 250 U |
| Acrylonitrile | NC | --- | --- | --- | --- | --- | --- | --- | --- | 150 U | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Benzene | 1 | 5 U | 1 U | 1 U | **2** | 2.5 U | 2.5 U | 5 U | 500 U | --- | 100 U | 100 U | 50 U | 1,000 U | 1,250 U | 1 U | 20 U | 20 U | 20 U | 12 U |
| Bromodichloromethane | 50 | 5 U | 1 U | 1 U | 0.5 U | 2.5 U | 2.5 U | 5 U | 500 U | 150 U | 100 U | 100 U | 50 U | 1,000 U | 1,250 U | 1 U | 20 U | 20 U | 20 U | 12 U |
| Bromoform | 50 | 5 U | 1 U | 1 U | 0.5 U | 2.5 U | 2.5 U | 5 U | 500 U | 150 U | 100 U | 100 U | 50 U | 1,000 U | 1,250 U | 1 UJ | 20 U | 20 U | 20 U | 12 U |
| Bromomethane (Methyl Bromide) | 5 | 10 U | 1 U | 1 U | 1 U | 5 U | 5 U | 5 U | 1,000 U | 150 U | 200 U | 200 U | 100 U | 2,000 U | 2,500 U | 1 U | 20 U | 40 U | 40 U | 25 U |
| Carbon disulfide | 60 | 5 U | 1 U | 1 U | 0.5 U | 2.5 U | 2.5 U | 5 U | 500 U | 150 U | 100 U | **100 J** | 50 U | 1,000 U | 1,250 U | 1 UJ | 20 U | 20 U | 20 U | 12 U |
| Carbon tetrachloride | 5 | 5 U | 1 U | 1 U | 0.5 U | 2.5 U | 2.5 U | 5 U | 500 U | 150 U | 100 U | 100 U | 50 U | 1,000 U | 1,250 U | 1 U | 20 U | 20 U | 20 U | 12 U |
| Chlorobenzene | 5 | 5 U | 1 U | 1 U | 0.5 U | 2.5 U | 2.5 U | 5 U | 500 U | 150 U | 100 U | 100 U | 50 U | 1,000 U | 1,250 U | 1 U | 20 U | 20 U | 20 U | 12 U |
| Chlorobromomethane | 5 | --- | --- | --- | --- | --- | --- | --- | --- | 150 U | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Chloroethane | 5 | 10 U | 2.3 | 2.8 | 1 U | 5 U | 5 U | 5 U | 1,000 U | 150 U | 200 U | 200 U | 100 U | 2,000 U | 2,500 U | 5 | **5.8 J** | **9 J** | 40 U | 25 U |
| Chloroform (Trichloromethane) | 7 | 5 U | 1 U | 1 U | 0.5 U | 2.5 U | 2.5 U | 5 U | 500 U | 150 U | 100 U | 100 U | 50 U | 1,000 U | 1,250 U | 1 U | 20 U | 20 U | 20 U | 12 U |
| Chloromethane (Methyl Chloride) | 5 | 10 U | 1 U | 1 U | 1 U | 5 U | 5 U | 5 U | 1,000 U | 150 U | 200 U | 200 U | 100 U | 2,000 U | 2,500 U | 1 U | 20 U | 40 U | 40 U | 25 U |
| cis-1,2-Dichloroethene | 5 | 2.7 J | 0.8 J | 0.8 J | 2 | 2.5 U | 3.2 | 1.7 J | 500 U | 150 U | 100 U | 100 U | 50 U | 1,000 U | 1,250 U | **6.8** | 20 U | 20 U | 20 U | 12 U |
| cis-1,3-Dichloropropene | 0.4 | 5 U | 1 U | 1 U | 0.5 U | 2.5 U | 2.5 U | 5 U | 500 U | 150 U | 100 U | 100 U | 50 U | 1,000 U | 1,250 U | 1 U | 20 U | 20 U | 20 U | 12 U |
| Dibromochloromethane | 50 | 5 U | 1 U | 1 U | 0.5 U | 2.5 U | 2.5 U | 5 U | 500 U | 150 U | 100 U | 100 U | 50 U | 1,000 U | 1,250 U | 1 U | 20 U | 20 U | 20 U | 12 U |
| Dibromomethane | NC | --- | --- | --- | --- | --- | --- | --- | --- | 150 U | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Ethane | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Ethylbenzene | 5 | 5 U | 1 U | 1 U | 0.5 J | 2.5 U | 2.5 U | 5 U | 500 U | 150 U | 100 U | 100 U | 50 U | 1,000 U | 1,250 U | 1 U | 20 U | 20 U | 20 U | 12 U |
| Ethene | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Iodomethane | NC | --- | --- | --- | --- | --- | --- | --- | --- | 150 U | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Methane | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Methylene chloride | 5 | 20 U | 1 U | 1 U | 2 U | 1.5 J | 10 U | 5 U | 2,000 U | 150 U | **60 J** | **400 U** | 200 U | 4,000 U | 5,000 U | 1 U | 20 U | 80 U | 80 U | 50 U |
| o-Xylene | NC | --- | 1 U | 1 U | --- | --- | --- | 5 U | --- | 150 U | --- | --- | --- | --- | --- | 1 U | 20 U | --- | --- | --- |
| Styrene | 5 | 5 U | 1 U | 1 U | 0.5 U | 2.5 U | 2.5 U | 5 U | 500 U | 150 U | 100 U | 100 U | 50 U | 1,000 U | 1,250 U | 1 U | 20 U | 20 U | 20 U | 12 U |
| Tetrachloroethene | 5 | **11.2** | 1 U | 1 U | **12** | 3 | **14.7** | 5 U | 500 U | 150 U | 100 U | 100 U | 50 UJ | 1,000 UJ | 1,250 UJ | **8.3** | 20 U | 20 U | 20 U | 12 U |
| Toluene | 5 | 5 U | 1 U | 1 U | **9** | 2.5 U | 2.5 U | 5 U | 500 U | 150 U | 100 U | 100 U | 50 U | 1,000 U | 1,250 U | 1 U | 20 U | **28** | **12 J** | **33** |
| Total Btex | NC | --- | --- | --- | 13.5 | 5 U | 5 U | --- | 500 U | --- | 200 U | 200 U | --- | --- | --- | --- | --- | 28 | 12 | 33 |
| trans-1,2-Dichloroethene | 5 | 5 U | 1 U | 1 U | 0.5 U | 2.5 U | 2.5 U | 5 U | 500 U | 150 U | 100 U | 100 U | 50 UJ | 1,000 UJ | 1,250 UJ | 1 U | 20 U | 20 U | 20 U | 12 U |
| trans-1,3-Dichloropropene | 0.4 | 5 U | 1 U | 1 U | 0.5 U | 2.5 U | 2.5 U | 5 U | 500 U | 150 U | 100 U | 100 U | 50 U | 1,000 U | 1,250 U | 1 U | 20 U | 20 U | 20 U | 12 U |
| Trans-1,4-dichlorobutene | NC | --- | --- | --- | --- | --- | --- | --- | --- | 500 U | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Trichloroethene | 5 | **26.5** | 2.6 | **8.5** | **7** | 1 J | **19.9** | **8.8** | **130 J** | 150 U | **38 J** | **54 J** | 50 U | 1,000 U | **300 J** | **26** | **21** | **6 J** | **7 J** | 12 U |
| Trichlorofluoromethane (CFC-11) | 5 | --- | 1 U | 1 U | --- | --- | --- | 5 U | --- | 150 U | --- | --- | --- | --- | --- | 1 U | 20 U | --- | --- | --- |
| Vinyl Acetate | NC | --- | --- | --- | --- | --- | --- | --- | --- | 2,500 U | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Vinyl chloride | 2 | 10 U | **3.4** | **3.3** | 0.1 J | 5 U | 5 U | 5 U | 1,000 U | 100 U | 200 U | 200 U | 100 U | 2,000 U | 2,500 U | **2.7** | 20 U | 40 U | 40 U | 25 U |
| Xylene (m,p) | NC | --- | 2 U | 2 U | --- | --- | --- | 10 U | --- | --- | --- | --- | --- | --- | --- | 2 U | 4 U | --- | --- | --- |
| Xylene (total) | 5 | 10 U | --- | --- | 2 | 5 U | 5 U | --- | 500 U | --- | 200 U | 200 U | 100 U | 2,000 U | 2,500 U | --- | --- | 20 U | 20 U | 12 U |

**Notes:**
All units in micrograms per liter (µg/L)
[1] New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values, Revised June 1998.
**BOLD** - Exceedes New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values.
* - Elevation - ft amsl (ft bgs) [ft amsl - feet above mean sea level, ft bgs - feet below ground surface]
[2] Passive diffusion bags deployed 12/2/2005 and retrieved on 12/22/2005.
- Only wells with a discrete fracture or sampling interval have start and end depths.
- Well AMSF-MW-12S was found to be obstructed prior to the April/May 2010 sampling event. The obstruction was cleared prior to the September 2010 sampling event
- Well ITT-DBW-8 was inadvertently missed during the April/May 2010 Sampling Event.
- Well ITT-SBW-9 was inadvertently missed during sampling in April 2010 and consequently sampled in May 2010 when the mistake was identified.
NC - No criteria exists
U - Not Detected at the Detection Limit shown, J - Estimated value, UJ - Approximate Non-detect, B - Blank Contamination, BJ - Estimated Value Detected in Blank
--- Not Analyzed

**Table 5-4a**
**Groundwater Sample VOC Results**
**Former ITT Rochester Form Machine Facility**
**Site #8-28-112**
**Town of Gates, New York**

| | Location Code | AMSF-MW-14D | AMSF-MW-14D | AMSF-MW-14D | AMSF-MW-14D | AMSF-MW-14D | AMSF-MW-14D | AMSF-MW-14D | AMSF-MW-14D | AMSF-MW-14D | AMSF-MW-15I | AMSF-MW-15I | AMSF-MW-16I | AMSF-MW-16I | AMSF-MW-17MP | AMSF-MW-18MP | AMSF-MW-19MP | AMSF-RW-1 | AMSF-RW-1 | AMSF-RW-1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | 12/13/2004 | 12/14/2004 | 12/15/2004 | 12/15/2004 | 12/16/2004 | 12/16/2004 | 12/17/2004 | 12/23/2004 | 12/23/2004 | 4/26/2010 | 9/9/2010 | 4/23/2010 | 9/9/2010 | 3/18/2008 | 3/1/2010 | 2/22/2008 | 11/16/2000 | 11/16/2000 | 11/16/2000 |
| | Start Depth (ft) | 504.9 (58.5)* | 494.9 (68.5)* | 485.1 (78.3)* | 476.2 (87.2)* | 464.9 (98.5)* | 454.9 (108.5)* | 445.9 (117.5)* | 434.9 (128.5)* | 425.4 (138)* | | | | | 424.4 (139)* | 419.4 (144)* | 513.3 (50.0)* | 522.3 (36)* | 493.3 (65)* | 463.3 (95)* |
| | End Depth (ft) | 494.6 (68.9)* | 486.1 (77.3)* | 474.8 (88.7)* | 465.9 (97.6)* | 454.6 (108.9)* | 444.6 (118.9) | 435.6 (127.9) | 426.1 (137.3)* | 415.1 (148.4)* | | | | | 414.4 (149)* | 419.4(144)* | 483.3 (80)* | 522.3 (36)* | 493.3 (65)* | 463.3 (95)* |
| **Analyte** | **Criteria** [1] | | | | | | | | | | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,1,1-Trichloroethane | 5 | **790** | **510** | **360** | **440** | **280** | **250** | **410** | **5900** | **7900** | **660** | **1100** | **920** | **1200** | **62000** | **2500** | **27** | 10 U | 10 U | 10 U |
| 1,1,2,2-Tetrachloroethane | 5 | 25 U | 12 U | 10 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 1 U | 5 U | 1 U | 5 U | 100 U | 50 U | 1 U | 10 U | 10 U | 10 U |
| 1,1,2-Trichloroethane | 1 | 25 U | 12 U | 10 U | 10 U | 5 U | 5 U | 5 U | **2.5 J** | **1.9 J** | 1 U | 5 U | 1 U | 5 U | 100 U | 50 U | 1 U | 10 U | 10 U | 10 U |
| 1,1-Dichloroethane | 5 | **41** | **46** | **32** | **33** | **38** | **40** | **38** | **8300** | **5000** | **32** | **73** | **95** | **61** | **16000** | **8400** | **5.9** | 10 U | 10 U | 4 J |
| 1,1-Dichloroethene | 5 | **13 J** | **9.2 J** | **8.6 J** | **8.9 J** | **5.7** | 4.7 J | **7.4** | **230** | **210** | 2.7 | 4.6 J | **6.1** | 3.9 J | **300** | **210** | 1 U | 10 U | 10 U | 10 U |
| 1,2,3-Trichloropropane | 0.04 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,2-Dibromo-3-chloropropane (DBCP) | 0.04 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 2 U | 10 UJ | 2 U | 10 UJ | 200 U | 100 U | 2 U | --- | --- | --- |
| 1,2-Dibromoethane (Ethylene Dibromide) | 0.0006 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1 U | 5 U | 1 U | 5 U | 100 U | 50 U | 1 U | --- | --- | --- |
| 1,2-Dichloroethane | 0.6 | 25 U | 12 U | 10 U | 10 U | 5 U | 5 U | 5 U | **7.6** | **7.1** | 1 U | 5 U | 1 U | 5 U | 100 U | 50 U | 1 U | 10 U | 10 U | 10 U |
| 1,2-Dichloroethene (total) | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 10 U | 10 U | 10 U |
| 1,2-Dichloropropane | 1 | 25 U | 12 U | 10 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 1 U | 5 U | 1 U | 5 U | 100 U | 50 U | 1 U | 10 U | 10 U | 10 U |
| 2-Butanone (Methyl Ethyl Ketone) | 50 | 500 U | 250 U | 200 U | 200 U | 100 U | 100 U | 100 U | **180** | **93 J** | 5 U | 25 UJ | 5 U | 25 UJ | 500 U | 250 U | 5 U | 10 U | 10 U | 10 U |
| 2-Hexanone | 50 | 250 U | 120 U | 100 U | 100 U | 50 U | 50 U | 50 U | 50 U | 50 U | 5 U | 25 UJ | 5 U | 25 UJ | 500 U | 250 U | 5 U | 10 U | 10 U | 10 U |
| 4-Methyl-2-pentanone (Methyl Isobutyl Ketone) | NC | 250 U | 120 U | 100 U | 100 U | 50 U | 50 U | 50 U | 50 U | 50 U | 5 U | 25 U | 5 U | 25 U | 500 U | 250 U | 5 U | 10 U | 10 U | 10 U |
| Acetone | 50 | 500 U | 250 U | 200 U | 200 U | 100 U | 11 J | 100 U | **77 J** | 43 J | 5 U | 25 U | 5 U | 25 U | 1000 U | 250 U | 10 U | 10 U | 10 U | 10 U |
| Acrylonitrile | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Benzene | 1 | 25 U | 12 U | 10 U | 10 U | 5 U | 5 U | **2.5 J** | **160** | **100** | 1 U | 5 U | 1 U | 5 U | **470** | **470** | 1 U | 10 U | 10 U | **35** |
| Bromodichloromethane | 50 | 25 U | 12 U | 10 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 1 U | 5 U | 1 U | 5 U | 100 U | 50 U | 1 U | 10 U | 10 U | 10 U |
| Bromoform | 50 | 25 U | 12 U | 10 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 1 U | 5 U | 1 U | 5 U | 100 U | 50 U | 1 U | 10 U | 10 U | 10 U |
| Bromomethane (Methyl Bromide) | 5 | 50 U | 25 U | 20 U | 20 U | 10 U | 10 U | 10 U | 10 U | 10 U | 1 U | 5 U | 1 U | 5 U | 200 U | 50 U | 2 U | 10 U | 10 U | 10 U |
| Carbon disulfide | 60 | 25 U | 12 U | 10 U | 10 U | 5 U | 5 U | 5 U | 1.5 J | 5 U | 1 U | 5 U | 1 U | 5 U | 100 U | 50 U | 1 U | 10 U | 10 U | 10 U |
| Carbon tetrachloride | 5 | 25 U | 12 U | 10 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 1 U | 5 U | 1 U | 5 U | 100 U | 50 U | 1 U | 10 U | 10 U | 10 U |
| Chlorobenzene | 5 | 25 U | 12 U | 10 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 1 U | 5 U | 1 U | 5 U | 100 U | 50 U | 1 U | 10 U | 10 U | 10 U |
| Chlorobromomethane | 5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Chloroethane | 5 | 50 U | **6.3 J** | 20 U | 20 U | 2.3 J | **5.3 J** | 10 U | **5.6 J** | 4 J | 1 U | 5 U | 0.72 J | 5 U | 200 U | 50 U | 2 U | 10 U | 10 U | 1 J |
| Chloroform (Trichloromethane) | 7 | 25 U | 12 U | 10 U | 10 U | 5 U | 5 U | 5 U | 1.8 J | 1.8 J | 1 U | 5 U | 1 U | 5 U | 100 U | 50 U | 1 U | 10 U | 10 U | 10 U |
| Chloromethane (Methyl Chloride) | 5 | 50 U | 25 U | 20 U | 20 U | 10 U | 10 U | 10 U | 10 U | 10 U | 1 U | 5 U | 1 U | 5 U | 200 U | 50 U | 2 U | 10 U | 10 U | 10 U |
| cis-1,2-Dichloroethene | 5 | 25 U | 12 U | 10 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 0.6 J | 5 U | 0.66 J | 5 U | 100 U | 50 U | 1 U | --- | --- | --- |
| cis-1,3-Dichloropropene | 0.4 | 25 U | 12 U | 10 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 1 U | 5 U | 1 U | 5 U | 100 U | 50 U | 1 U | 10 U | 10 U | 10 U |
| Dibromochloromethane | 50 | 25 U | 12 U | 10 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 1 U | 5 U | 1 U | 5 U | 100 U | 50 U | 1 U | 10 U | 10 U | 10 U |
| Dibromomethane | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Ethane | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Ethylbenzene | 5 | 25 U | 12 U | 10 U | 10 U | 5 U | 5 U | 5 U | 4.5 J | 2.6 J | 1 U | 5 U | 1 U | 5 U | 100 U | 50 U | 1 U | 10 U | 10 U | 10 U |
| Ethene | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Iodomethane | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Methane | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Methylene chloride | 5 | 100 U | 50 U | 40 U | 40 U | 20 U | 20 U | 20 U | 20 U | 20 U | 1 U | 5 U | 1 U | 5 U | 100 U | 50 U | 1 U | 4 | 3 | **6 BJ** |
| o-Xylene | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1 U | 5 U | 1 U | 5 U | 100 U | 50 U | 1 U | --- | --- | --- |
| Styrene | 5 | 25 U | 12 U | 10 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 1 U | 5 U | 1 U | 5 U | 100 U | 50 U | 1 U | 10 U | 10 U | 10 U |
| Tetrachloroethene | 5 | 25 U | 12 U | 10 U | 2.6 J | 1.5 J | 1.3 J | 1.6 J | 5 U | 5 U | 1 U | 5 U | 1 U | 5 U | 100 U | 50 U | 1 U | 10 U | 10 U | 10 U |
| Toluene | 5 | **28** | **8 J** | **11** | **11** | 1.5 J | **5.5** | **47** | **100** | **67** | 1 U | 5 U | 1 U | 5 U | **440** | **430** | 1 U | 10 U | 10 U | 10 U |
| Total Btex | NC | 28 | 8 | 11 | 11 | 1.5 | 5.5 | 51.6 | 297.5 | 186.6 | --- | --- | --- | --- | --- | --- | --- | 10 U | 10 U | 35 |
| trans-1,2-Dichloroethene | 5 | 25 U | 12 U | 10 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 1 U | 5 U | 1 U | 5 U | 100 U | 50 U | 1 U | --- | --- | --- |
| trans-1,3-Dichloropropene | 0.4 | 25 U | 12 U | 10 U | 10 U | 5 U | 5 U | 5 U | **4 J** | **1.9 J** | 1 U | 5 U | 1 U | 5 U | 100 U | 50 U | 1 U | 10 U | 10 U | 10 U |
| Trans-1,4-dichlorobutene | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Trichloroethene | 5 | 25 U | 3 J | 2.4 J | 2.3 J | 1.9 J | 1.9 J | 2 J | **63** | **54** | 3.5 | **7.3** | 4.8 | 4.6 J | **500** | **140** | 1 U | 10 U | 10 U | 10 U |
| Trichlorofluoromethane (CFC-11) | 5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1 U | 5 U | 1 U | 5 U | 100 U | 50 U | 1 U | --- | --- | --- |
| Vinyl Acetate | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Vinyl chloride | 2 | 50 U | 25 U | 20 U | 20 U | 10 U | 10 U | 10 U | **5.7 J** | **3.3 J** | 1 U | 5 U | 1 U | 5 U | 100 U | 50 U | 1 U | 10 U | 10 U | 10 U |
| Xylene (m,p) | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | 2 U | 10 U | 10 U | 2 U | 160 | 140 | 1 U | --- | --- | --- |
| Xylene (total) | 5 | 25 U | 12 U | 10 U | 10 U | 5 U | 5 U | 2.1 J | **33** | **17** | --- | --- | --- | --- | --- | --- | --- | 10 U | 10 U | 10 U |

**Notes:**
All units in micrograms per liter (µg/L)
[1] New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values, Revised June 1998.
**BOLD** - Exceedes New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values.
* - Elevation - ft amsl (ft bgs) [ft amsl - feet above mean sea level, ft bgs - feet below ground surface]
[2] Passive diffusion bags deployed 12/2/2005 and retrieved on 12/22/2005.
- Only wells with a discrete fracture or sampling interval have start and end depths.
- Well AMSF-MW-12S was found to be obstructed prior to the April/May 2010 sampling event. The obstruction was cleared prior to the September 2010 sampling event
- Well ITT-DBW-8 was inadvertently missed during the April/May 2010 Sampling Event.
- Well ITT-SBW-9 was inadvertently missed during sampling in April 2010 and consequently sampled in May 2010 when the mistake was identified.
NC - No criteria exists
U - Not Detected at the Detection Limit shown, J - Estimated value, UJ - Approximate Non-detect, B - Blank Contamination, BJ - Estimated Value Detected in Blank
--- Not Analyzed

**Table 5-4a**
**Groundwater Sample VOC Results**
**Former ITT Rochester Form Machine Facility**
**Site #8-28-112**
**Town of Gates, New York**

| | Location Code | AMSF-RW-1 | AMSF-RW-1 | AMSF-RW-1 | AMSF-RW-1 | AMSF-RW-1 | AMSF-RW-1 | AMSF-RW-1 | AMSF-RW-2 | AMSF-RW-2 | AMSF-RW-2 | AMSF-RW-2 | AMSF-RW-2 | AMSF-RW-2 | AMSF-RW-2 | AMSF-RW-2 | AMSF-RW-2 | AMSF-RW-2 | AMSF-RW-2 | AMSF-RW-3 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | 2/10/2005 | 2/10/2005 | 2/10/2005 | 2/16/2005 | 2/16/2005 | 10/3/2005 | 10/3/2005 | 5/4/1999 | 5/4/1999 | 5/4/1999 | 5/4/1999 | 11/16/2000 | 11/16/2000 | 11/16/2000 | 11/16/2000 | 11/16/2000 | 11/16/2000 | 8/31/2005 | 11/16/2000 |
| | Start Depth (ft) | 546.3 (12)* | 530.3 (28)* | 499.3 (59)* | 483.3 (75)* | 476.3 (82)* | 546.3 (12)* | 476.3 (82)* | 462.1 (101)* | 428.1 (135)* | 538.1 (25)* | 526.1 (37)* | 462.1 (101)* | 414.1 (149)* | 538.1 (25)* | 526.1 (37)* | 493.1 (70)* | 563.1 (0)* | 554.4 (9)* | 546.2 (19)* |
| | End Depth (ft) | 546.3 (12)* | 530.3 (28)* | 499.3 (59)* | 483.3 (75)* | 476.3 (82)* | 546.3 (12)* | 476.3 (82)* | 462.1 (101)* | 428.1 (135)* | 538.1 (25)* | 526.1 (37)* | 462.1 (101)* | 414.1 (149)* | 538.1 (25)* | 526.1 (37)* | 493.1 (70)* | 563.1 (0)* | 552.4 (11)* | 546.2 (19)* |
| **Analyte** | **Criteria** [1] | | | | | | | | | | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,1,1-Trichloroethane | 5 | 3 | 3 | 1 U | 0.3 J | 0.3 J | 0.17 J | 0.18 J | **6600** | **55000** | **3100** | **3000** | **56000** | **21000** | **4400** | **4500** | **34000** | **680** | **7.58** | **53** |
| 1,1,2,2-Tetrachloroethane | 5 | 2 U | 2 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 500 U | 5,000 U | 100 U | 250 U | 2,000 U | 2,000 U | 10 U | 10 U | 10 U | 10 U | 0.5 U | 10 U |
| 1,1,2-Trichloroethane | 1 | 2 U | 2 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 500 U | 5,000 U | 100 U | 250 U | 2,000 U | 2,000 U | 1 J | **2 J** | **15** | 10 U | 0.5 U | 10 U |
| 1,1-Dichloroethane | 5 | 0.7 J | 0.6 J | 1 U | 0.5 U | 0.3 J | 0.34 J | **27.6** | **570** | **7800** | **68 J** | **52 J** | **20000** | **17000** | **46** | **78** | **6000** | **13** | 0.5 U | **6 J** |
| 1,1-Dichloroethene | 5 | 2 U | 2 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 0.24 J | **230 J** | **1,200 J** | **160** | **100 J** | **3000** | **1,400 J** | **190** | **180** | **1500** | **30** | 0.32 J | 3 J |
| 1,2,3-Trichloropropane | 0.04 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,2-Dibromo-3-chloropropane (DBCP) | 0.04 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,2-Dibromoethane (Ethylene Dibromide) | 0.0006 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,2-Dichloroethane | 0.6 | 2 U | 2 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 500 U | 5,000 U | 100 U | 250 U | 2,000 U | 2,000 U | **2 J** | **2 J** | **36** | 10 U | 0.5 U | 10 U |
| 1,2-Dichloroethene (total) | NC | --- | --- | --- | --- | --- | --- | --- | 500 U | 5,000 U | 12 J | 250 U | 2,000 U | 2,000 U | 4 J | 4 J | 6 J | 10 U | --- | 10 U |
| 1,2-Dichloropropane | 1 | 2 U | 2 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 500 U | 5,000 U | 100 U | 250 U | 2,000 U | 2,000 U | 10 U | 10 U | 10 U | 10 U | 0.5 U | 10 U |
| 2-Butanone (Methyl Ethyl Ketone) | 50 | 50 U | 50 U | 25 U | 10 U | 10 U | 10 U | 10 U | 500 U | 5,000 U | 100 U | 250 U | 2,000 U | 2,000 U | 10 U | 10 U | 2,000 U | 10 U | 10 U | 10 U |
| 2-Hexanone | 50 | 25 U | 25 U | 12 U | 5 U | 5 U | 5 U | 5 U | 500 U | 5,000 U | 100 U | 250 U | 2,000 U | 2,000 U | 10 U | 10 U | 2 J | 10 U | 5 U | 10 U |
| 4-Methyl-2-pentanone (Methyl Isobutyl Ketone) | NC | 25 U | 25 U | 12 U | 5 U | 5 U | 5 U | 5 U | --- | --- | --- | --- | 5,000 U | 2,000 U | 10 U | 10 U | 1 J | 10 U | 5 U | 10 U |
| Acetone | 50 | 50 U | 50 U | 25 U | 10 U | 10 U | 10 U | 10 U | 500 U | 5,000 U | 100 U | 250 U | **5800** | 2,000 U | 10 U | 10 U | **130** | 10 U | 2.69 J | 10 U |
| Acrylonitrile | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Benzene | 1 | **11** | **14** | **12** | **2** | **6** | 0.5 U | **146** | 500 U | 5,000 U | 100 U | 250 U | **390 J** | **500 J** | 10 U | 10 U | **150** | 10 U | 0.5 U | 10 U |
| Bromodichloromethane | 50 | 2 U | 2 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 500 U | 5,000 U | 100 U | 250 U | 2,000 U | 2,000 U | 10 U | 10 U | 10 U | 10 U | 0.5 U | 10 U |
| Bromoform | 50 | 2 U | 2 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 500 U | 5,000 U | 100 U | 250 U | 2,000 U | 2,000 U | 10 U | 10 U | 10 U | 10 U | 0.5 U | 10 U |
| Bromomethane (Methyl Bromide) | 5 | 5 U | 5 U | 2 U | 1 U | 1 U | 1 U | 1 U | 500 U | 5,000 U | 100 U | 250 U | 2,000 U | 2,000 U | 10 U | 10 U | 10 U | 10 U | 1 U | 10 U |
| Carbon disulfide | 60 | 2 U | 2 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 0.36 J | 500 U | 5,000 U | 100 U | 250 U | 2,000 U | 2,000 U | 10 U | 10 U | 10 U | 10 U | 0.5 U | 10 U |
| Carbon tetrachloride | 5 | 2 U | 2 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 500 U | 5,000 U | 100 U | 250 U | 2,000 U | 2,000 U | 10 U | 10 U | 10 U | 10 U | 0.5 U | 10 U |
| Chlorobenzene | 5 | 2 U | 2 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 500 U | 5,000 U | 100 U | 250 U | 2,000 U | 2,000 U | 10 U | 10 U | 10 U | 10 U | 0.5 U | 10 U |
| Chlorobromomethane | 5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Chloroethane | 5 | 5 U | 5 U | 2 U | 1 U | 1 U | 1 U | 1 U | 500 U | 5,000 U | 100 U | 250 U | 2,000 U | 2,000 U | 10 U | 10 U | **41** | 10 U | 1 U | 10 U |
| Chloroform (Trichloromethane) | 7 | 2 U | 2 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 500 U | 5,000 U | 100 U | 250 U | 2,000 U | 2,000 U | 10 U | 10 U | **9 J** | 10 U | 0.5 U | 10 U |
| Chloromethane (Methyl Chloride) | 5 | 5 U | 5 U | 2 U | 1 U | 1 U | 1 U | 1 U | 500 U | 5,000 U | 100 U | 250 U | 2,000 U | 2,000 U | 10 U | 10 U | **6 J** | 10 U | 1 U | 10 U |
| cis-1,2-Dichloroethene | 5 | 2 U | 2 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 0.85 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 0.5 U | --- |
| cis-1,3-Dichloropropene | 0.4 | 2 U | 2 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 500 U | 5,000 U | 100 U | 250 U | 2,000 U | 2,000 U | 10 U | 10 U | 10 U | 10 U | 0.5 U | 10 U |
| Dibromochloromethane | 50 | 2 U | 2 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 500 U | 5,000 U | 100 U | 250 U | 2,000 U | 2,000 U | 10 U | 10 U | 10 U | 10 U | 0.5 U | 10 U |
| Dibromomethane | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Ethane | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Ethylbenzene | 5 | **7** | **9** | 5 | 1 | 2 | 0.5 U | 0.5 U | 500 U | 5,000 U | 100 U | 250 U | 5,000 U | 2,000 U | 10 U | 10 U | **12** | 10 U | 0.5 U | 10 U |
| Ethene | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Iodomethane | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Methane | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Methylene chloride | 5 | 10 U | 10 U | 5 U | 2 U | 2 U | 2 U | 2 U | 500 U | 5,000 U | 100 U | 250 U | **2,500 B** | **3,100 B** | **7** | **7 BJ** | **16 B** | **7** | 2 U | 3 BJ |
| o-Xylene | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Styrene | 5 | 2 U | 2 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 500 U | 5,000 U | 100 U | 250 U | 2,000 U | 2,000 U | 10 U | 10 U | 10 U | 10 U | 0.5 U | 10 U |
| Tetrachloroethene | 5 | 0.6 J | 0.7 J | 1 U | 0.5 U | 0.1 J | 0.5 U | 0.5 U | 500 U | 5,000 U | **35 J** | **25 J** | 5,000 U | 2,000 U | **14** | **16** | **13** | 3 J | 0.5 U | 1 J |
| Toluene | 5 | **76** | **100** | **66** | **15** | **24** | 0.5 U | 0.2 J | 500 U | 5,000 U | 100 U | 250 U | **210 J** | **340 J** | 10 U | 10 U | **120** | 10 U | 0.5 U | 10 U |
| Total Btex | NC | 132 | 179 | 107 | 26 | 42 | 1 U | 0.2 | 500 U | 5,000 U | 100 U | 250 U | 600 | 840 | 10 U | 10 U | 362 | 10 U | 1 U | 10 U |
| trans-1,2-Dichloroethene | 5 | 2 U | 2 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 0.36 J | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 0.5 U | --- |
| trans-1,3-Dichloropropene | 0.4 | 2 U | 2 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 500 U | 5,000 U | 100 U | 250 U | 2,000 U | 2,000 U | 10 U | 10 U | 10 U | 10 U | 0.5 U | 10 U |
| Trans-1,4-dichlorobutene | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Trichloroethene | 5 | 2 U | 2 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 0.48 J | **52 J** | 5,000 U | **12 J** | 250 U | **680 J** | **430 J** | **13** | **15** | **340** | 2 J | 0.5 U | 10 U |
| Trichlorofluoromethane (CFC-11) | 5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Vinyl Acetate | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Vinyl chloride | 2 | 5 U | 5 U | 2 U | 1 U | 1 U | 1 U | 1 U | 500 U | 5,000 U | 100 U | 250 U | 2,000 U | 2,000 U | 10 U | 10 U | 10 U | 10 U | 1 U | 10 U |
| Xylene (m,p) | NC | --- | --- | --- | --- | --- | --- | --- | 500 U | 5,000 U | 100 U | 250 U | --- | --- | --- | --- | --- | --- | --- | --- |
| Xylene (total) | 5 | **38** | **56** | **24** | **8** | **10** | 1 U | 1 U | 500 U | 5,000 U | 100 U | 250 U | 5,000 U | 2,000 U | 10 U | 10 U | **80** | 10 U | 1 U | 10 U |

**Notes:**
All units in micrograms per liter (µg/L)
[1] New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values, Revised June 1998.
**BOLD** - Exceedes New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values.
* - Elevation - ft amsl (ft bgs) [ft amsl - feet above mean sea level, ft bgs - feet below ground surface]
[2] Passive diffusion bags deployed 12/2/2005 and retrieved on 12/22/2005.
- Only wells with a discrete fracture or sampling interval have start and end depths.
- Well AMSF-MW-12S was found to be obstructed prior to the April/May 2010 sampling event. The obstruction was cleared prior to the September 2010 sampling event
- Well ITT-DBW-8 was inadvertently missed during the April/May 2010 Sampling Event.
- Well ITT-SBW-9 was inadvertently missed during sampling in April 2010 and consequently sampled in May 2010 when the mistake was identified.
NC - No criteria exists
U - Not Detected at the Detection Limit shown, J - Estimated value, UJ - Approximate Non-detect, B - Blank Contamination, BJ - Estimated Value Detected in Blank
--- Not Analyzed

**Table 5-4a**
**Groundwater Sample VOC Results**
**Former ITT Rochester Form Machine Facility**
**Site #8-28-112**
**Town of Gates, New York**

| | Location Code | AMSF-RW-3 | AMSF-RW-3 | AMSF-RW-3 | AMSF-RW-3 | AMSF-RW-4 | AMSF-RW-4 | AMSF-RW-4 | AMSF-RW-4 | AMSF-RW-5 | AMSF-RW-5 | AMSF-RW-5 | ITT-DBW-2 | ITT-DBW-2 | ITT-DBW-2 | ITT-DBW-2 | ITT-DBW-2 | ITT-DBW-2 | ITT-DBW-2 | ITT-DBW-5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | 2/17/2005 | 2/17/2005 | 10/3/2005 | 10/3/2005 | 11/16/2000 | 2/18/2005 | 2/18/2005 | 10/4/2005 | 2/10/2005 | 2/10/2005 | 10/4/2005 | 6/30/1999 | 9/23/1999 | 11/16/2000 | 2/7/2005 | 9/28/2005 | 4/28/2010 | 9/14/2010 | 6/30/1999 |
| | Start Depth (ft) | 549.2 (8)* | 549.2 (16)* | 552.2 (13)* | 549.2 (16)* | 547.4 (19)* | 559.4 (7)* | 551.9 (14.5)* | 551.9 (14.5)* | 556.4 (9)* | 554.4 (11)* | 554.4 (11)* | | | | | | | | |
| | End Depth (ft) | 549.2 (8)* | 549.2 (16)* | 552.2 (13)* | 549.2 (16)* | 547.4 (19)* | 559.4 (7)* | 551.9 (14.5)* | 551.9 (14.5)* | 556.4 (9)* | 554.4 (11)* | 554.4 (11)* | | | | | | | | |
| **Analyte** | **Criteria** [1] | | | | | | | | | | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,1,1-Trichloroethane | 5 | 3 | **20** | **877** | **894** | **54** | 0.5 U | 0.5 U | 0.58 | 0.5 U | 0.5 U | 0.25 J | **9** | --- | 3 J | 2 U | 2.5 U | 1 U | 1 U | 5 |
| 1,1,2,2-Tetrachloroethane | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 10 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 5 U | --- | 10 U | 2 U | 2.5 U | 1 U | 1 U | 5 U |
| 1,1,2-Trichloroethane | 1 | 0.5 U | 0.5 U | 0.35 J | 0.32 J | 10 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 5 U | --- | 10 U | 2 U | 2.5 U | 1 U | 1 U | 5 U |
| 1,1-Dichloroethane | 5 | 0.6 | 1 | **38.8** | **39.8** | 3 J | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | **13** | --- | **15** | 1 J | **9.5** | 4.8 | **6.2** | 5 U |
| 1,1-Dichloroethene | 5 | 0.1 J | 0.6 | **19.5** | **20.7** | 2 J | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 5 U | --- | 10 U | 2 U | 2.5 U | 1 U | 1 U | 5 U |
| 1,2,3-Trichloropropane | 0.04 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,2-Dibromo-3-chloropropane (DBCP) | 0.04 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 2 U | 2 U | --- |
| 1,2-Dibromoethane (Ethylene Dibromide) | 0.0006 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1 U | 1 U | --- |
| 1,2-Dichloroethane | 0.6 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 10 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 5 U | --- | 10 U | 2 U | 2.5 U | 1 U | 1 U | 5 U |
| 1,2-Dichloroethene (total) | NC | --- | --- | --- | --- | 10 U | --- | --- | --- | --- | --- | --- | --- | --- | 10 U | --- | --- | --- | --- | --- |
| 1,2-Dichloropropane | 1 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 10 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 5 U | --- | 10 U | 2 U | 2.5 U | 1 U | 1 U | 5 U |
| 2-Butanone (Methyl Ethyl Ketone) | 50 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 25 U | --- | 24 | 50 U | 48.8 J | 44 | **82** | 25 U |
| 2-Hexanone | 50 | 5 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | --- | 10 U | 25 U | 25 U | 1.8 J | 2.8 J | 10 U |
| 4-Methyl-2-pentanone (Methyl Isobutyl Ketone) | NC | 5 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | --- | --- | 10 U | 25 U | 25 U | 1.9 J | 8.8 | --- |
| Acetone | 50 | 10 U | 10 U | 6.55 J | 2.52 J | 10 U | 10 U | 1 J | 10 U | 10 U | 10 U | 10 U | 25 U | --- | **51** | 50 U | **110** | **90 J** | **180 J** | 25 U |
| Acrylonitrile | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Benzene | 1 | 0.5 U | 0.5 U | 0.16 J | 0.5 U | 10 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | **51** | --- | **60** | **150** | **180** | **170** | **180** | **20** |
| Bromodichloromethane | 50 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 10 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 5 U | --- | 10 U | 2 U | 2.5 U | 1 U | 1 U | 5 U |
| Bromoform | 50 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 10 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 5 U | --- | 10 U | 2 U | 2.5 U | 1 U | 1 U | 5 U |
| Bromomethane (Methyl Bromide) | 5 | 1 U | 1 U | 1 U | 1 U | 10 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 5 U | --- | 10 U | 5 U | 5 U | 1 U | 1 U | 5 U |
| Carbon disulfide | 60 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 10 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 5 U | --- | 10 U | 2 U | 2.5 U | 1 U | 1 U | 5 U |
| Carbon tetrachloride | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 10 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 5 U | --- | 10 U | 2 U | 2.5 U | 1 U | 1 U | 5 U |
| Chlorobenzene | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 10 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 5 U | --- | 10 U | 2 U | 2.5 U | 1 U | 1 U | 5 U |
| Chlorobromomethane | 5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Chloroethane | 5 | 1 U | 1 U | 1 U | 0.89 J | 10 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 5 U | --- | 10 U | 5 U | 5 U | 1 U | 1 U | 5 U |
| Chloroform (Trichloromethane) | 7 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 10 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 5 U | --- | 10 U | 2 U | 2.5 U | 1 U | 1 U | 5 U |
| Chloromethane (Methyl Chloride) | 5 | 1 U | 1 U | 1 U | 1 U | 10 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 5 U | --- | 10 U | 5 U | 5 U | 1 U | 1 U | 5 U |
| cis-1,2-Dichloroethene | 5 | 0.5 U | 0.5 U | 0.78 | 0.81 | --- | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | --- | --- | --- | 2 U | 2.5 U | 1 U | 1 U | 5 U |
| cis-1,3-Dichloropropene | 0.4 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 10 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 5 U | --- | 10 U | 2 U | 2.5 U | 1 U | 1 U | 5 U |
| Dibromochloromethane | 50 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 10 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 5 U | --- | 10 U | 2 U | 2.5 U | 1 U | 1 U | 5 U |
| Dibromomethane | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Ethane | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1410 | --- | --- | --- | --- | --- | --- |
| Ethylbenzene | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 10 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 5 U | --- | **6 J** | **15** | **15** | **11** | **11** | 5 U |
| Ethene | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 100 U | --- | --- | --- | --- | --- | --- |
| Iodomethane | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Methane | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1850 | --- | --- | --- | --- | --- | --- |
| Methylene chloride | 5 | 2 U | 2 U | 2 U | 2 U | 4 BJ | 2 U | 2 U | 2 U | 2 U | 2 U | 2 U | 5 U | --- | 4 BJ | 10 U | 10 U | 1 U | 1 U | 5 U |
| o-Xylene | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 5 U | --- | --- | --- | --- | 15 | 20 | 5 U |
| Styrene | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 10 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 5 U | --- | 10 U | 2 U | 2.5 U | 1 U | 1 U | 5 U |
| Tetrachloroethene | 5 | 0.5 U | 0.4 J | **11.9** | **13** | 4 J | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.8 | 5 U | --- | 10 U | 2 U | 2.5 U | 1 U | 1 U | 5 U |
| Toluene | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 10 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | **16** | --- | **14** | 1 J | **67.9** | **64** | **83** | **30** |
| Total Btex | NC | 0.5 U | 0.5 U | 0.16 | 1 U | 10 U | 0.5 U | 0.1 | 1 U | 0.5 U | 0.5 U | 1 U | --- | --- | 101 | 188 | 316.1 | --- | --- | --- |
| trans-1,2-Dichloroethene | 5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | --- | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 5 U | --- | --- | 2 U | 2.5 U | 1 U | 1 U | 5 U |
| trans-1,3-Dichloropropene | 0.4 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 10 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 5 U | --- | 10 U | 2 U | 2.5 U | 1 U | 1 U | 5 U |
| Trans-1,4-dichlorobutene | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Trichloroethene | 5 | 0.5 U | 0.2 J | 4.17 | 4.44 | 10 U | 3 | 3 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 5 U | --- | 10 U | 2 U | 2.5 U | 1 U | 1 U | 5 U |
| Trichlorofluoromethane (CFC-11) | 5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1 U | 1 U | --- |
| Vinyl Acetate | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Vinyl chloride | 2 | 1 U | 1 U | 1 U | 1 U | 10 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U | --- | 10 U | 5 U | 5 U | 1 U | 1 U | 2 U |
| Xylene (m,p) | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 5 U | --- | --- | --- | --- | 25 | 33 | 12 |
| Xylene (total) | 5 | 0.5 U | 0.5 U | 1 U | 1 U | 10 U | 0.5 U | 0.1 J | 1 U | 0.5 U | 0.5 U | 1 U | --- | --- | **21** | **22** | **53.2** | --- | --- | --- |

**Notes:**
All units in micrograms per liter (µg/L)
[1] New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values, Revised June 1998.
**BOLD** - Exceedes New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values.
* - Elevation - ft amsl (ft bgs) [ft amsl - feet above mean sea level, ft bgs - feet below ground surface]
[2] Passive diffusion bags deployed 12/2/2005 and retrieved on 12/22/2005.
- Only wells with a discrete fracture or sampling interval have start and end depths.
- Well AMSF-MW-12S was found to be obstructed prior to the April/May 2010 sampling event. The obstruction was cleared prior to the September 2010 sampling event
- Well ITT-DBW-8 was inadvertently missed during the April/May 2010 Sampling Event.
- Well ITT-SBW-9 was inadvertently missed during sampling in April 2010 and consequently sampled in May 2010 when the mistake was identified.
NC - No criteria exists
U - Not Detected at the Detection Limit shown, J - Estimated value, UJ - Approximate Non-detect, B - Blank Contamination, BJ - Estimated Value Detected in Blank
--- Not Analyzed

**Table 5-4a**
**Groundwater Sample VOC Results**
**Former ITT Rochester Form Machine Facility**
**Site #8-28-112**
**Town of Gates, New York**

| | Location Code | ITT-DBW-5 | ITT-DBW-5 | ITT-DBW-5 | ITT-DBW-5 | ITT-DBW-5 | ITT-DBW-8 | ITT-DBW-8 | ITT-DBW-8 | ITT-DBW-8 | ITT-DBW-8 | ITT-IBW-19 | ITT-IBW-19 | ITT-IBW-20 | ITT-IBW-20 | ITT-MW-1 | ITT-MW-1 | ITT-MW-1 | ITT-MW-2 | ITT-MW-2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | 9/23/1999 | 11/16/2000 | 2/7/2005 | 9/28/2005 | 10/4/2005 | 6/29/1999 | 9/21/1999 | 2/9/2005 | 9/30/2005 | 9/15/2010 | 4/20/2010 | 9/14/2010 | 4/22/2010 | 9/10/2010 | 8/3/1998 | 2/8/2005 | 9/30/2005 | 5/4/1999 | 5/4/1999 |
| | Start Depth (ft) | | | | | | | | | | | | | | | | | | | |
| | End Depth (ft) | | | | | | | | | | | | | | | | | | | |
| **Analyte** | **Criteria** [1] | | | | | | | | | | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,1,1-Trichloroethane | 5 | --- | 4 J | 5 U | 5 U | --- | 5 U | --- | 5 U | 5 U | 1 U | 3.2 | 0.67 J | **700** | **180** | 10 U | 0.2 J | 0.14 J | **14000** | **18000** |
| 1,1,2,2-Tetrachloroethane | 5 | --- | 20 U | 5 U | 5 U | --- | 5 U | --- | 5 U | 5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 10 U | 0.5 U | 0.5 U | 1,300 U | 500 U |
| 1,1,2-Trichloroethane | 1 | --- | 20 U | 5 U | 5 U | --- | 5 U | --- | 5 U | 5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 10 U | 0.5 U | 0.5 U | 1,300 U | 500 U |
| 1,1-Dichloroethane | 5 | --- | 20 U | 5 U | 5 U | --- | **8** | --- | 5 U | 1.6 J | **54** | 3.1 | 1.6 | **43** | **17** | 10 U | 0.5 U | 0.12 J | 1,300 U | **84 J** |
| 1,1-Dichloroethene | 5 | --- | 20 U | 5 U | 5 U | --- | 5 U | --- | 5 U | 5 U | 1 U | 1 U | 1 U | 3.7 | 1.5 | 10 U | 0.5 U | 0.5 U | **1000** | **1100** |
| 1,2,3-Trichloropropane | 0.04 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,2-Dibromo-3-chloropropane (DBCP) | 0.04 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 2 U | 2 U | 2 U | 2 U | 2 U | --- | --- | --- | --- | --- |
| 1,2-Dibromoethane (Ethylene Dibromide) | 0.0006 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1 U | 1 U | 1 U | 1 U | 1 U | --- | --- | --- | --- | --- |
| 1,2-Dichloroethane | 0.6 | --- | 20 U | 5 U | 5 U | --- | 5 U | --- | 5 U | 5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 10 U | 0.5 U | 0.5 U | 1,300 U | 500 U |
| 1,2-Dichloroethene (total) | NC | --- | 20 U | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 10 U | --- | --- | --- | 500 U |
| 1,2-Dichloropropane | 1 | --- | 20 U | 5 U | 5 U | --- | 5 U | --- | 5 U | 5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 10 U | 0.5 U | 0.5 U | 1,300 U | 500 U |
| 2-Butanone (Methyl Ethyl Ketone) | 50 | --- | **210** | **55 J** | **91.5 J** | --- | 25 U | --- | 15 J | 34.1 J | 3.7 J | 5 U | 5 U | 5 U | 5 U | --- | 10 U | 10 U | 6,300 U | 500 U |
| 2-Hexanone | 50 | --- | 9 J | 50 U | 50 U | --- | 10 U | --- | 50 U | 50 U | 5 U | 5 U | 5 U | 5 U | 5 UJ | 10 U | 5 U | 5 U | 2,500 U | 500 U |
| 4-Methyl-2-pentanone (Methyl Isobutyl Ketone) | NC | --- | 11 J | 50 U | 50 U | --- | --- | --- | 50 U | 50 U | 0.48 J | 5 U | 5 U | 5 U | 5 U | 10 U | 5 U | 5 U | --- | --- |
| Acetone | 50 | --- | **580** | **280** | **281** | --- | 25 U | --- | 100 U | **366** | 25 J | 5 U | 5 UJ | 5 U | 5 U | 10 U | 10 U | 10 U | 6,300 U | 500 U |
| Acrylonitrile | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Benzene | 1 | --- | **200** | **300** | **179** | --- | **3** | --- | **240** | **289** | **110** | 1 U | 1 U | 1 U | 1 U | 10 U | 0.1 J | 0.5 U | 180 U | 500 U |
| Bromodichloromethane | 50 | --- | 20 U | 5 U | 5 U | --- | 5 U | --- | 5 U | 5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 10 U | 0.5 U | 0.5 U | 1,300 U | 500 U |
| Bromoform | 50 | --- | 20 U | 5 U | 5 U | --- | 5 U | --- | 5 U | 5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 10 U | 0.5 U | 0.5 U | 1,300 U | 500 U |
| Bromomethane (Methyl Bromide) | 5 | --- | 20 U | 10 U | 10 U | --- | 5 U | --- | 10 U | 10 U | 1 U | 1 U | 1 U | 1 U | 1 U | 10 U | 1 U | 1 U | 1,300 U | 500 U |
| Carbon disulfide | 60 | --- | 2 J | 2 J | 2.2 J | --- | 5 U | --- | 5 U | 3.9 J | 1.3 | 1 U | 1 U | 1 U | 1 U | 10 U | 0.4 J | 0.5 U | 1,300 U | 500 U |
| Carbon tetrachloride | 5 | --- | 20 U | 5 U | 5 U | --- | 5 U | --- | 5 U | 5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 10 U | 0.5 U | 0.5 U | 1,300 U | 500 U |
| Chlorobenzene | 5 | --- | 20 U | 5 U | 5 U | --- | 5 U | --- | 5 U | 5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 10 U | 0.5 U | 0.5 U | 1,300 U | 500 U |
| Chlorobromomethane | 5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Chloroethane | 5 | --- | 20 U | 10 U | 10 U | --- | 5 U | --- | 10 U | 10 U | 1 U | 1 U | 1 U | 0.56 J | 1 U | 10 U | 1 U | 1 U | 1,300 U | 500 U |
| Chloroform (Trichloromethane) | 7 | --- | 20 U | 5 U | 5 U | --- | 5 U | --- | 5 U | 5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 10 U | 0.5 U | 0.5 U | 1,300 U | 500 U |
| Chloromethane (Methyl Chloride) | 5 | --- | 20 U | 10 U | 10 U | --- | 5 U | --- | 10 U | 10 U | 1 U | 1 U | 1 U | 1 U | 1 U | 10 U | 1 U | 1 U | 1,300 U | 500 U |
| cis-1,2-Dichloroethene | 5 | --- | --- | 5 U | 5 U | --- | 5 U | --- | 5 U | 5 U | 0.35 J | 1 U | 1 U | 0.48 J | 1 U | --- | 0.5 U | 0.5 U | 1,300 U | --- |
| cis-1,3-Dichloropropene | 0.4 | --- | 20 U | 5 U | 5 U | --- | 5 U | --- | 5 U | 5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 10 U | 0.5 U | 0.5 U | 1,300 U | 500 U |
| Dibromochloromethane | 50 | --- | 20 U | 5 U | 5 U | --- | 5 U | --- | 5 U | 5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 10 U | 0.5 U | 0.5 U | 1,300 U | 500 U |
| Dibromomethane | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Ethane | NC | 6220 | --- | --- | --- | --- | --- | 1020 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Ethylbenzene | 5 | --- | **7 J** | **9** | **6.1** | --- | 5 U | --- | **10** | **13.3** | 0.97 J | 1 U | 1 U | 1 U | 1 U | 10 U | 0.5 U | 0.5 U | 1,300 U | 500 U |
| Ethene | NC | 100 U | --- | --- | --- | --- | --- | 100 U | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Iodomethane | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Methane | NC | 9210 | --- | --- | --- | --- | --- | 2700 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Methylene chloride | 5 | --- | **19 BJ** | 20 U | 20 U | --- | 5 U | --- | 20 U | **12.7 J** | 1 U | 1 U | 1 U | 1 U | 1 U | 10 U | 2 U | 2 U | 1,300 U | 500 U |
| o-Xylene | NC | --- | --- | --- | --- | --- | 5 U | --- | --- | --- | 0.9 J | 1 U | 1 U | 1 U | 1 U | --- | --- | --- | 1,300 U | --- |
| Styrene | 5 | --- | 20 U | 5 U | 5 U | --- | 5 U | --- | 5 U | 5 U | 1 U | 1 UJ | 1 U | 1 U | 1 U | 10 U | 0.5 U | 0.5 U | 1,300 U | 500 U |
| Tetrachloroethene | 5 | --- | 20 U | 5 U | 5 U | --- | 5 U | --- | 5 U | 5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 10 U | 0.5 U | 0.5 U | 1,300 U | 500 U |
| Toluene | 5 | --- | **130** | **200** | **115** | --- | 5 U | --- | **130** | **217** | **6.4** | 1 U | 1 U | 1 U | 1 U | 10 U | 0.2 J | 0.5 U | 1,300 U | 500 U |
| Total Btex | NC | --- | 386 | 568 | 338.4 | --- | --- | --- | 441 | 601.6 | --- | --- | --- | --- | --- | 10 U | 0.5 | 1 U | --- | 500 U |
| trans-1,2-Dichloroethene | 5 | --- | --- | 5 U | 5 U | --- | 5 U | --- | 5 U | 5 U | 1 U | 1 U | 1 U | 1 U | 1 U | --- | 0.5 U | 0.5 U | 1,300 U | --- |
| trans-1,3-Dichloropropene | 0.4 | --- | 20 U | 5 U | 5 U | --- | 5 U | --- | 5 U | 5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 10 U | 0.5 U | 0.5 U | 1,300 U | 500 U |
| Trans-1,4-dichlorobutene | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Trichloroethene | 5 | --- | 20 U | 5 U | 5 U | --- | 5 U | --- | 5 U | 5 U | 0.29 J | 1 U | 1 U | 3.2 | 1.8 | 10 U | 0.5 U | 0.5 U | 1,300 U | 500 U |
| Trichlorofluoromethane (CFC-11) | 5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 1 U | 1 U | 1 U | 1 U | 1 U | --- | --- | --- | --- | --- |
| Vinyl Acetate | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Vinyl chloride | 2 | --- | 20 U | 10 U | 10 U | --- | 2 U | --- | 10 U | 10 U | 1 U | 1 U | 1 U | 1 U | 1 U | 10 U | 1 U | 1 U | 500 U | 500 U |
| Xylene (m,p) | NC | --- | --- | --- | --- | --- | 5 U | --- | --- | --- | 2.2 | 2 U | 2 U | 2 U | 2 U | --- | --- | --- | 1,300 U | 500 U |
| Xylene (total) | 5 | --- | **49** | **59** | **38.3** | --- | --- | --- | **61** | **82.3** | --- | --- | --- | --- | --- | 10 U | 0.2 J | 1 U | --- | 500 U |

**Notes:**
All units in micrograms per liter (µg/L)
[1] New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values, Revised June 1998.
**BOLD** - Exceedes New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values.
* - Elevation - ft amsl (ft bgs) [ft amsl - feet above mean sea level, ft bgs - feet below ground surface]
[2] Passive diffusion bags deployed 12/2/2005 and retrieved on 12/22/2005.
- Only wells with a discrete fracture or sampling interval have start and end depths.
- Well AMSF-MW-12S was found to be obstructed prior to the April/May 2010 sampling event. The obstruction was cleared prior to the September 2010 sampling event
- Well ITT-DBW-8 was inadvertently missed during the April/May 2010 Sampling Event.
- Well ITT-SBW-9 was inadvertently missed during sampling in April 2010 and consequently sampled in May 2010 when the mistake was identified.
NC - No criteria exists
U - Not Detected at the Detection Limit shown, J - Estimated value, UJ - Approximate Non-detect, B - Blank Contamination, BJ - Estimated Value Detected in Blank
--- Not Analyzed

**Table 5-4a**
**Groundwater Sample VOC Results**
**Former ITT Rochester Form Machine Facility**
**Site #8-28-112**
**Town of Gates, New York**

| | Location Code | ITT-MPBW-21 | ITT-MPBW-22 | ITT-MW-4 | ITT-SBW-1A | ITT-SBW-1A | ITT-SBW-1A | ITT-SBW-1A | ITT-SBW-1A | ITT-SBW-1A | ITT-SBW-1A | ITT-SBW-1A | ITT-SBW-2 | ITT-SBW-2 | ITT-SBW-2 | ITT-SBW-2 | ITT-SBW-2 | ITT-SBW-2 | ITT-SBW-2 | ITT-SBW-2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | 2/20/2008 | 2/21/2008 | 2/9/2005 | 9/10/1998 | 5/3/1999 | 5/4/1999 | 6/29/1999 | 9/21/1999 | 11/16/2000 | 2/9/2005 | 9/30/2005 | 9/10/1998 | 5/4/1999 | 5/4/1999 | 6/30/1999 | 9/22/1999 | 11/16/2000 | 2/7/2005 | 8/31/2005 |
| | Start Depth (ft) | 491.6 (70.0)* | 510.5 (62.5)* | | | | | | | | | | | | | | | | | |
| | End Depth (ft) | 481.6 (80)* | 493 (80)* | | | | | | | | | | | | | | | | | |
| **Analyte** | **Criteria** [1] | | | | | | | | | | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,1,1-Trichloroethane | 5 | 1 U | 1 U | **7** | **1200** | **1200** | **1300** | **390** | --- | **89** | **11** | **430** | **1800** | **1200** | **1000** | **4400** | --- | **7400** | **560** | **894** |
| 1,1,2,2-Tetrachloroethane | 5 | 1 U | 1 U | 0.5 U | 10 U | 50 U | 100 U | 25 U | --- | 10 U | 0.5 U | 0.5 U | 20 U | 50 U | 100 U | 250 U | --- | 10 U | 10 U | 10 U |
| 1,1,2-Trichloroethane | 1 | 1 U | 1 U | 0.5 U | 10 U | 50 U | 100 U | 25 U | --- | 10 U | 0.5 U | 0.5 U | 20 U | 50 U | 100 U | 250 U | --- | **2 J** | 10 U | 10 U |
| 1,1-Dichloroethane | 5 | 1 U | 1 U | 5 | **19** | 50 U | **17 J** | 25 U | --- | **10** | **8** | **8.26** | **26** | 50 U | **20 J** | 250 U | --- | **360** | **6 J** | 2.8 J |
| 1,1-Dichloroethene | 5 | 1 U | 1 U | 0.5 | **40** | 50 U | **49 J** | **27** | --- | **6 J** | 3 | **16.7** | **60** | 50 U | **45 J** | **260** | --- | **430** | **14** | **17.4** |
| 1,2,3-Trichloropropane | 0.04 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,2-Dibromo-3-chloropropane (DBCP) | 0.04 | 2 U | 2 U | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,2-Dibromoethane (Ethylene Dibromide) | 0.0006 | 1 U | 1 U | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,2-Dichloroethane | 0.6 | 1 U | 1 U | 0.5 U | 10 U | 50 U | 100 U | 25 U | --- | 10 U | 0.5 U | 0.14 J | 20 U | 50 U | 100 U | 250 U | --- | **12** | 10 U | 10 U |
| 1,2-Dichloroethene (total) | NC | --- | --- | --- | 10 U | --- | 100 U | --- | --- | 10 U | --- | --- | 20 U | --- | 100 U | --- | --- | 10 U | --- | --- |
| 1,2-Dichloropropane | 1 | 1 U | 1 U | 0.5 U | 10 U | 50 U | 100 U | 25 U | --- | 10 U | 0.5 U | 0.5 U | 20 U | 50 U | 100 U | 250 U | --- | 10 U | 10 U | 10 U |
| 2-Butanone (Methyl Ethyl Ketone) | 50 | 5 U | 5 U | 10 U | 10 U | 250 U | 100 U | 130 U | --- | 10 U | 10 U | 10 U | 20 U | 250 U | 100 U | 1,300 U | --- | 10 U | 200 U | 200 U |
| 2-Hexanone | 50 | 5 U | 5 U | 5 U | 10 U | 100 U | 100 U | 50 U | --- | 10 U | 5 U | 5 U | 20 U | 100 U | 100 U | 500 U | --- | 10 U | 100 U | 100 U |
| 4-Methyl-2-pentanone (Methyl Isobutyl Ketone) | NC | 5 U | 5 U | 5 U | --- | --- | --- | --- | --- | 10 U | 5 U | 5 U | --- | --- | --- | --- | --- | 2,000 U | 100 U | 100 U |
| Acetone | 50 | 10 U | 10 U | 10 U | 10 U | 250 U | 100 U | 130 U | --- | 10 U | 10 U | 10 U | 20 U | 250 U | 43 J | 1,300 U | --- | 10 U | 200 U | 200 U |
| Acrylonitrile | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Benzene | 1 | 1 U | 1 U | 0.5 U | 10 U | 7 U | 100 U | 4 U | --- | 10 U | 0.5 U | 0.5 U | 20 U | 7 U | 100 U | 35 U | --- | 2,000 U | 10 U | 10 U |
| Bromodichloromethane | 50 | 1 U | 1 U | 0.5 U | 10 U | 50 U | 100 U | 25 U | --- | 10 U | 0.5 U | 0.5 U | 20 U | 50 U | 100 U | 250 U | --- | 10 U | 10 U | 10 U |
| Bromoform | 50 | 1 U | 1 U | 0.5 U | 10 U | 50 U | 100 U | 25 U | --- | 10 U | 0.5 U | 0.5 U | 20 U | 50 U | 100 U | 250 U | --- | 10 U | 10 U | 10 U |
| Bromomethane (Methyl Bromide) | 5 | 2 U | 2 U | 1 U | 10 U | 50 U | 100 U | 25 U | --- | 10 U | 1 U | 1 U | 20 U | 50 U | 100 U | 250 U | --- | 10 U | 20 U | 20 U |
| Carbon disulfide | 60 | 1 U | 1 U | 0.5 U | 10 U | 50 U | 100 U | 25 U | --- | 10 U | 0.2 J | 0.5 U | 20 U | 50 U | 100 U | 250 U | --- | 10 U | 3 J | 10 U |
| Carbon tetrachloride | 5 | 1 U | 1 U | 0.5 U | 10 U | 50 U | 100 U | 25 U | --- | 10 U | 0.5 U | 0.5 U | 20 U | 50 U | 100 U | 250 U | --- | 10 U | 10 U | 10 U |
| Chlorobenzene | 5 | 1 U | 1 U | 0.5 U | 10 U | 50 U | 100 U | 25 U | --- | 10 U | 0.5 U | 0.5 U | 20 U | 50 U | 100 U | 250 U | --- | 10 U | 10 U | 10 U |
| Chlorobromomethane | 5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Chloroethane | 5 | 2 U | 2 U | 1 U | 10 U | 50 U | 100 U | 25 U | --- | 10 U | 0.6 J | 0.25 J | 20 U | 50 U | 100 U | 250 U | --- | 10 U | 20 U | 20 U |
| Chloroform (Trichloromethane) | 7 | 1 U | 1 U | 0.5 U | 10 U | 50 U | 100 U | 25 U | --- | 10 U | 0.5 U | 0.5 U | 20 U | 50 U | 100 U | 250 U | --- | 10 U | 10 U | 10 U |
| Chloromethane (Methyl Chloride) | 5 | --- | --- | 1 U | 10 U | 50 U | 100 U | 25 U | --- | 10 U | 1 U | 1 U | 20 U | 50 U | 100 U | 250 U | --- | 10 U | 20 U | 20 U |
| cis-1,2-Dichloroethene | 5 | 1 U | 1 U | 0.5 U | --- | 50 U | --- | 25 U | --- | --- | 0.5 U | 0.5 U | --- | 50 U | --- | 250 U | --- | --- | 10 U | 10 U |
| cis-1,3-Dichloropropene | 0.4 | 1 U | 1 U | 0.5 U | 10 U | 50 U | 100 U | 25 U | --- | 10 U | 0.5 U | 0.5 U | 20 U | 50 U | 100 U | 250 U | --- | 10 U | 10 U | 10 U |
| Dibromochloromethane | 50 | 1 U | 1 U | 0.5 U | 10 U | 50 U | 100 U | 25 U | --- | 10 U | 0.5 U | 0.5 U | 20 U | 50 U | 100 U | 250 U | --- | 10 U | 10 U | 10 U |
| Dibromomethane | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Ethane | NC | --- | --- | --- | --- | --- | --- | --- | 100 U | --- | --- | --- | --- | --- | --- | --- | 100 U | --- | --- | --- |
| Ethylbenzene | 5 | 1 U | 1 U | 0.5 U | 10 U | 50 U | 100 U | 25 U | --- | 10 U | 0.5 U | 0.5 U | 20 U | 50 U | 100 U | 250 U | --- | 2,000 U | 10 U | 10 U |
| Ethene | NC | --- | --- | --- | --- | --- | --- | --- | 100 U | --- | --- | --- | --- | --- | --- | --- | 100 U | --- | --- | --- |
| Iodomethane | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Methane | NC | --- | --- | --- | --- | --- | --- | --- | 60 U | --- | --- | --- | --- | --- | --- | --- | 82.6 | --- | --- | --- |
| Methylene chloride | 5 | 1 U | 1 U | 2 U | 10 U | 50 U | 100 U | 25 U | --- | **13 B** | 2 U | 2 U | 20 U | 50 U | 100 U | 250 U | --- | **14 B** | 40 U | **6.8 J** |
| o-Xylene | NC | 1 U | 1 U | --- | --- | 50 U | --- | 25 U | --- | --- | --- | --- | --- | 50 U | --- | 250 U | --- | --- | --- | --- |
| Styrene | 5 | 1 U | 1 U | 0.5 U | 10 U | 50 U | 100 U | 25 U | --- | 10 U | 0.5 U | 0.5 U | 20 U | 50 U | 100 U | 250 U | --- | 10 U | 10 U | 10 U |
| Tetrachloroethene | 5 | 1 U | 1 U | 0.3 J | **11** | 50 U | 100 U | 25 U | --- | 10 U | 0.3 J | 1.61 | **12 J** | 50 U | 100 U | 250 U | --- | 2,000 U | 10 U | 10 U |
| Toluene | 5 | 1 U | 1 U | 0.1 J | 10 U | 50 U | 100 U | 25 U | --- | 10 U | 0.2 J | 0.5 U | 20 U | 50 U | 100 U | 250 U | --- | 2,000 U | 10 U | 10 U |
| Total Btex | NC | --- | --- | 0.1 | 10 U | --- | 100 U | --- | --- | 10 U | 0.4 | 1 U | 20 U | --- | 100 U | --- | --- | 2,000 U | 10 U | 20 U |
| trans-1,2-Dichloroethene | 5 | 1 U | 1 U | 0.5 U | --- | 50 U | --- | 25 U | --- | --- | 0.5 U | 0.5 U | --- | 50 U | --- | 250 U | --- | --- | 10 U | 10 U |
| trans-1,3-Dichloropropene | 0.4 | 1 U | 1 U | 0.5 U | 10 U | 50 U | 100 U | 25 U | --- | 10 U | 0.5 U | 0.5 U | 20 U | 50 U | 100 U | 250 U | --- | 10 U | 10 U | 10 U |
| Trans-1,4-dichlorobutene | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Trichloroethene | 5 | 1 U | 1 U | 0.3 J | **9 J** | 50 U | 100 U | 25 U | --- | 10 U | 0.3 J | 2.69 | **13 J** | 50 U | 100 U | 250 U | --- | 5 J | 10 U | 10 U |
| Trichlorofluoromethane (CFC-11) | 5 | 1 U | 1 U | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Vinyl Acetate | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Vinyl chloride | 2 | 1 U | 1 U | 1 U | 10 U | 20 U | 100 U | 10 U | --- | 10 U | 1 U | 1 U | 20 U | 20 U | 100 U | 100 U | --- | 10 U | 20 U | 20 U |
| Xylene (m,p) | NC | 1 U | 1 U | --- | --- | 50 U | 100 U | 25 U | --- | --- | --- | --- | --- | 50 U | 100 U | 250 U | --- | --- | --- | --- |
| Xylene (total) | 5 | --- | --- | 0.5 U | 10 U | --- | 100 U | --- | --- | 10 U | 0.2 J | 1 U | 20 U | --- | 100 U | --- | --- | 2,000 U | 10 U | 20 U |

**Notes:**
All units in micrograms per liter (µg/L)
[1] New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values, Revised June 1998.
**BOLD** - Exceedes New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values.
* - Elevation - ft amsl (ft bgs) [ft amsl - feet above mean sea level, ft bgs - feet below ground surface]
[2] Passive diffusion bags deployed 12/2/2005 and retrieved on 12/22/2005.
- Only wells with a discrete fracture or sampling interval have start and end depths.
- Well AMSF-MW-12S was found to be obstructed prior to the April/May 2010 sampling event. The obstruction was cleared prior to the September 2010 sampling event
- Well ITT-DBW-8 was inadvertently missed during the April/May 2010 Sampling Event.
- Well ITT-SBW-9 was inadvertently missed during sampling in April 2010 and consequently sampled in May 2010 when the mistake was identified.
NC - No criteria exists
U - Not Detected at the Detection Limit shown, J - Estimated value, UJ - Approximate Non-detect, B - Blank Contamination, BJ - Estimated Value Detected in Blank
--- Not Analyzed

**Table 5-4a**
**Groundwater Sample VOC Results**
**Former ITT Rochester Form Machine Facility**
**Site #8-28-112**
**Town of Gates, New York**

| | Location Code | ITT-SBW-2 | ITT-SBW-2 | ITT-SBW-2 | ITT-SBW-2 | ITT-SBW-2 | ITT-SBW-2 | ITT-SBW-2 | ITT-SBW-3 | ITT-SBW-3 | ITT-SBW-3 | ITT-SBW-3 | ITT-SBW-3 | ITT-SBW-3 | ITT-SBW-4 | ITT-SBW-4 | ITT-SBW-4 | ITT-SBW-4 | ITT-SBW-4 | ITT-SBW-4 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | 9/30/2005 | 9/30/2005 | 12/22/2005 | 12/22/2005 | 12/22/2005 | 4/22/2010 | 9/10/2010 | 9/10/1998 | 9/10/1998 | 5/3/1999 | 5/4/1999 | 6/30/1999 | 9/23/1999 | 5/3/1999 | 6/29/1999 | 9/20/1999 | 11/16/2000 | 2/8/2005 | 9/30/2005 |
| | Start Depth (ft) | | | 551 (14.3)* | 546 (19.3)* | 542 (23.3)* | | | | | | | | | | | | | | |
| | End Depth (ft) | | | 549 (16.3)* | 544 (21.3)* | 540 (25.3)* | | | | | | | | | | | | | | |
| **Analyte** | **Criteria** [1] | | | | | | | | | | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NC | 15 U | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,1,1-Trichloroethane | 5 | **240** | **218** | **2070** | 0.37 J | 0.5 U | 0.88 J | 1.3 | **1600** | **1500** | **210** | **1800** | **4700** | --- | 5 U | 5 U | --- | 10 U | 2 | 0.12 J |
| 1,1,2,2-Tetrachloroethane | 5 | 15 U | 5 U | 50 U | 0.5 U | 0.5 U | 1 U | 1 U | 50 U | 20 U | 130 U | 100 U | 250 U | --- | 5 U | 5 U | --- | 10 U | 0.5 U | 0.5 U |
| 1,1,2-Trichloroethane | 1 | 15 U | 5 U | 50 U | 0.5 U | 0.5 U | 1 U | 1 U | 50 U | 20 U | 130 U | 100 U | 250 U | --- | 5 U | 5 U | --- | 10 U | 0.5 U | 0.5 U |
| 1,1-Dichloroethane | 5 | 15 U | **5.1** | **144** | **5.22** | 4.36 | **5.7** | 2.9 | **24 J** | **22** | **350** | **330** | 250 U | --- | 5 U | 5 U | --- | 10 U | 0.2 J | 0.11 J |
| 1,1-Dichloroethene | 5 | 15 U | **11.2** | **109** | 1.56 | 1.38 | 1 U | 0.68 J | **50 J** | **44** | 130 U | **76 J** | 250 U | --- | 5 U | 5 U | --- | 10 U | 0.1 J | 0.5 U |
| 1,2,3-Trichloropropane | 0.04 | 15 U | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,2-Dibromo-3-chloropropane (DBCP) | 0.04 | 50 U | --- | --- | --- | --- | 2 U | 2 U | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,2-Dibromoethane (Ethylene Dibromide) | 0.0006 | 15 U | --- | --- | --- | --- | 1 U | 1 U | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,2-Dichloroethane | 0.6 | 15 U | 5 U | 50 U | 0.5 U | 0.5 U | 1 U | 1 U | 50 U | 20 U | 130 U | 100 U | 250 U | --- | 5 U | 5 U | --- | 10 U | 0.5 U | 0.5 U |
| 1,2-Dichloroethene (total) | NC | --- | --- | --- | --- | --- | --- | --- | 50 U | 20 U | --- | 100 U | --- | --- | --- | --- | --- | 10 U | --- | --- |
| 1,2-Dichloropropane | 1 | 15 U | 5 U | 50 U | 0.5 U | 0.5 U | 1 U | 1 U | 50 U | 20 U | 130 U | 100 U | 250 U | --- | 5 U | 5 U | --- | 10 U | 0.5 U | 0.5 U |
| 2-Butanone (Methyl Ethyl Ketone) | 50 | 50 U | 100 U | 1,000 U | 10 U | 10 U | 5 U | 5 U | 50 U | 20 U | 630 U | 100 U | 1,300 U | --- | 25 U | 25 U | --- | 10 U | 10 U | 10 U |
| 2-Hexanone | 50 | 50 U | 50 U | 500 U | 5 U | 5 U | 5 U | 5 UJ | 50 U | 20 U | 250 U | 100 U | 500 U | --- | 10 U | 10 U | --- | 10 U | 5 U | 5 U |
| 4-Methyl-2-pentanone (Methyl Isobutyl Ketone) | NC | 50 U | 50 U | 500 U | 5 U | 5 U | 5 U | 5 U | --- | 20 U | --- | --- | --- | --- | --- | --- | --- | 10 U | 5 U | 5 U |
| Acetone | 50 | 50 U | 100 U | 1,000 U | 10 U | 1.1 J | 5 U | 5 U | 50 U | 20 U | 630 U | 49 J | 1,300 U | --- | 25 U | 25 U | --- | 10 U | 10 U | 10 U |
| Acrylonitrile | NC | 250 U | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Benzene | 1 | --- | 5 U | 50 U | 0.5 U | 0.5 U | 1 U | 1 U | 50 U | 20 U | 18 U | 100 U | 35 U | --- | 0.7 U | 0.7 U | --- | 10 U | 0.5 U | 0.5 U |
| Bromodichloromethane | 50 | 15 U | 5 U | 50 U | 0.5 U | 0.5 U | 1 U | 1 U | 50 U | 20 U | 130 U | 100 U | 250 U | --- | 5 U | 5 U | --- | 10 U | 0.5 U | 0.5 U |
| Bromoform | 50 | 15 U | 5 U | 50 U | 0.5 U | 0.5 U | 1 U | 1 U | 50 U | 20 U | 130 U | 100 U | 250 U | --- | 5 U | 5 U | --- | 10 U | 0.5 U | 0.5 U |
| Bromomethane (Methyl Bromide) | 5 | 15 U | 10 U | 100 U | 1 U | 1 U | 1 U | 1 U | 50 U | 20 U | 130 U | 100 U | 250 U | --- | 5 U | 5 U | --- | 10 U | 1 U | 1 U |
| Carbon disulfide | 60 | 15 U | 5 U | 50 U | 0.5 U | 0.5 U | 1 U | 1 U | 50 U | 20 U | 130 U | 100 U | 250 U | --- | 5 U | 5 U | --- | 10 U | 0.5 U | 0.2 J |
| Carbon tetrachloride | 5 | 15 U | 5 U | 50 U | 0.5 U | 0.5 U | 1 U | 1 U | 50 U | 20 U | 130 U | 100 U | 250 U | --- | 5 U | 5 U | --- | 10 U | 0.5 U | 0.5 U |
| Chlorobenzene | 5 | 15 U | 5 U | 50 U | 0.5 U | 0.5 U | 1 U | 1 U | 50 U | 20 U | 130 U | 100 U | 250 U | --- | 5 U | 5 U | --- | 10 U | 0.5 U | 0.5 U |
| Chlorobromomethane | 5 | 15 U | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Chloroethane | 5 | 15 U | 10 U | 100 U | 0.7 J | 0.83 J | 0.96 J | 1 U | 50 U | 20 U | 130 U | 100 U | 250 U | --- | 5 U | 5 U | --- | 10 U | 1 U | 1 U |
| Chloroform (Trichloromethane) | 7 | 15 U | 5 U | 50 U | 0.5 U | 0.5 U | 1 U | 1 U | 50 U | 20 U | 130 U | 100 U | 250 U | --- | 5 U | 5 U | --- | 10 U | 0.5 U | 0.5 U |
| Chloromethane (Methyl Chloride) | 5 | 15 U | 10 U | 100 U | 1 U | 1 U | 1 U | 1 U | 50 U | 20 U | 130 U | 100 U | 250 U | --- | 5 U | 5 U | --- | 10 U | 1 U | 1 U |
| cis-1,2-Dichloroethene | 5 | 15 U | 5 U | 50 U | 0.5 U | 0.5 U | 0.53 J | 0.42 J | --- | --- | 130 U | --- | 250 U | --- | 5 U | 5 U | --- | --- | 0.5 U | 0.5 U |
| cis-1,3-Dichloropropene | 0.4 | 15 U | 5 U | 50 U | 0.5 U | 0.5 U | 1 U | 1 U | 50 U | 20 U | 130 U | 100 U | 250 U | --- | 5 U | 5 U | --- | 10 U | 0.5 U | 0.5 U |
| Dibromochloromethane | 50 | 15 U | 5 U | 50 U | 0.5 U | 0.5 U | 1 U | 1 U | 50 U | 20 U | 130 U | 100 U | 250 U | --- | 5 U | 5 U | --- | 10 U | 0.5 U | 0.5 U |
| Dibromomethane | NC | 15 U | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Ethane | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 100 U | --- | --- | 100 U | --- | --- | --- |
| Ethylbenzene | 5 | 15 U | 5 U | 50 U | 0.5 U | 0.5 U | 1 U | 1 U | 50 U | 20 U | 130 U | 100 U | 250 U | --- | 5 U | 5 U | --- | 10 U | 0.5 U | 0.5 U |
| Ethene | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 100 U | --- | --- | 100 U | --- | --- | --- |
| Iodomethane | NC | 15 U | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Methane | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 70 U | --- | --- | 219 | --- | --- | --- |
| Methylene chloride | 5 | 15 U | 20 U | 200 U | 2 U | 2 U | 1 U | 1 U | 50 U | 20 U | 130 U | 100 U | 250 U | --- | 5 U | 5 U | --- | 4 | 2 U | 2 U |
| o-Xylene | NC | 15 U | --- | --- | --- | --- | 1 U | 1 U | --- | --- | 130 U | --- | 250 U | --- | 5 U | 5 U | --- | --- | --- | --- |
| Styrene | 5 | 15 U | 5 U | 50 U | 0.5 U | 0.5 U | 1 U | 1 U | 50 U | 20 U | 130 U | 100 U | 250 U | --- | 5 U | 5 U | --- | 10 U | 0.5 U | 0.5 U |
| Tetrachloroethene | 5 | 15 U | 5 U | 50 UJ | 0.5 UJ | 0.5 UJ | 1 U | 1 U | **13 J** | **12 J** | 130 U | 100 U | 250 U | --- | 5 U | 5 U | --- | 10 U | 0.5 U | 0.5 U |
| Toluene | 5 | 15 U | 5 U | 50 U | 0.5 U | 0.5 U | 1 U | 1 U | 50 U | 20 U | 130 U | 100 U | 250 U | --- | 5 U | 5 U | --- | 10 U | 0.5 U | 0.5 U |
| Total Btex | NC | --- | 5 U | --- | --- | --- | --- | --- | 50 U | 20 U | --- | 100 U | --- | --- | --- | --- | --- | 10 U | 0.5 U | 1 U |
| trans-1,2-Dichloroethene | 5 | 15 U | 5 U | 50 UJ | 0.5 UJ | 0.5 UJ | 1 U | 1 U | --- | --- | 130 U | --- | 250 U | --- | 5 U | 5 U | --- | --- | 0.5 U | 0.5 U |
| trans-1,3-Dichloropropene | 0.4 | 15 U | 5 U | 50 U | 0.5 U | 0.5 U | 1 U | 1 U | 50 U | 20 U | 130 U | 100 U | 250 U | --- | 5 U | 5 U | --- | 10 U | 0.5 U | 0.5 U |
| Trans-1,4-dichlorobutene | NC | 50 U | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Trichloroethene | 5 | 15 U | 1.1 J | 50 U | 0.29 J | 0.26 J | 1 U | 1 U | **12 J** | **10 J** | 130 U | **27 J** | 250 U | --- | 5 U | 5 U | --- | 10 U | 0.1 J | 0.5 U |
| Trichlorofluoromethane (CFC-11) | 5 | 15 U | --- | --- | --- | --- | 1 U | 1 U | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Vinyl Acetate | NC | 250 U | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Vinyl chloride | 2 | 10 U | 10 U | 100 U | 1 U | 0.14 J | **2.3** | 0.94 J | 50 U | 20 U | 50 U | 100 U | 100 U | --- | 5 U | 2 U | --- | 10 U | 1 U | 1 U |
| Xylene (m,p) | NC | 15 U | --- | --- | --- | --- | 2 U | 2 U | --- | --- | 130 U | 100 U | 250 U | --- | 5 U | 5 U | --- | --- | --- | --- |
| Xylene (total) | 5 | --- | 10 U | 100 U | 1 U | 1 U | --- | --- | 50 U | 20 U | --- | 100 U | --- | --- | --- | --- | --- | 10 U | 0.5 U | 1 U |

**Notes:**
All units in micrograms per liter (µg/L)
[1] New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values, Revised June 1998.
**BOLD** - Exceedes New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values.
* - Elevation - ft amsl (ft bgs) [ft amsl - feet above mean sea level, ft bgs - feet below ground surface]
[2] Passive diffusion bags deployed 12/2/2005 and retrieved on 12/22/2005.
- Only wells with a discrete fracture or sampling interval have start and end depths.
- Well AMSF-MW-12S was found to be obstructed prior to the April/May 2010 sampling event. The obstruction was cleared prior to the September 2010 sampling event
- Well ITT-DBW-8 was inadvertently missed during the April/May 2010 Sampling Event.
- Well ITT-SBW-9 was inadvertently missed during sampling in April 2010 and consequently sampled in May 2010 when the mistake was identified.
NC - No criteria exists
U - Not Detected at the Detection Limit shown, J - Estimated value, UJ - Approximate Non-detect, B - Blank Contamination, BJ - Estimated Value Detected in Blank
--- Not Analyzed

**Table 5-4a**
**Groundwater Sample VOC Results**
**Former ITT Rochester Form Machine Facility**
**Site #8-28-112**
**Town of Gates, New York**

| | Location Code | ITT-SBW-4 | ITT-SBW-4 | ITT-SBW-5A | ITT-SBW-5A | ITT-SBW-5A | ITT-SBW-5A | ITT-SBW-5A | ITT-SBW-5A | ITT-SBW-5A | ITT-SBW-5A | ITT-SBW-6 | ITT-SBW-6 | ITT-SBW-6 | ITT-SBW-6 | ITT-SBW-6 | ITT-SBW-6 | ITT-SBW-6 | ITT-SBW-7 | ITT-SBW-7 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | 4/21/2010 | 9/10/2010 | 5/3/1999 | 6/29/1999 | 9/20/1999 | 11/16/2000 | 2/7/2005 | 9/27/2005 | 4/22/2010 | 9/15/2010 | 5/3/1999 | 5/4/1999 | 6/30/1999 | 9/22/1999 | 11/16/2000 | 2/9/2005 | 9/30/2005 | 5/3/1999 | 5/4/1999 |
| | Start Depth (ft) | | | | | | | | | | | | | | | | | | | |
| | End Depth (ft) | | | | | | | | | | | | | | | | | | | |
| **Analyte** | **Criteria** [1] | | | | | | | | | | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,1,1-Trichloroethane | 5 | 1 U | 1 U | **170** | **16** | --- | **19** | **6** | 4.72 | **16** | **34** | **850** | **760** | **200** | --- | **180** | **22 J** | **19** | **37000** | **28000** |
| 1,1,2,2-Tetrachloroethane | 5 | 1 U | 1 U | 5 U | 5 U | --- | 10 U | 0.5 U | 0.5 U | 1 U | 1 U | 25 U | 50 U | 5 U | --- | 10 U | 1 U | 0.5 U | 2,500 U | 2,500 U |
| 1,1,2-Trichloroethane | 1 | 1 U | 1 U | 5 U | 5 U | --- | 10 U | 0.5 U | 0.5 U | 1 U | 1 U | 25 U | 50 U | 5 U | --- | 10 U | 1 U | 0.5 U | 2,500 U | 2,500 U |
| 1,1-Dichloroethane | 5 | 1 U | 1 U | 5 U | 5U | --- | 2 J | 2 | 1.49 | 1 | 2.3 | **140** | **110** | **23** | --- | **12** | **9** | **5.53** | **3100** | **2600** |
| 1,1-Dichloroethene | 5 | 1 U | 1 U | **17** | 5U | --- | 2 J | 2 | 1.24 | 1.6 | 2.2 | **50** | **48 J** | **92** | --- | **54** | 5 | **7.43** | 2,500 U | **260 J** |
| 1,2,3-Trichloropropane | 0.04 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,2-Dibromo-3-chloropropane (DBCP) | 0.04 | 2 U | 2 U | --- | --- | --- | --- | --- | --- | 2 U | 2 U | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,2-Dibromoethane (Ethylene Dibromide) | 0.0006 | 1 U | 1 U | --- | --- | --- | --- | --- | --- | 1 U | 1 U | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,2-Dichloroethane | 0.6 | 1 U | 1 U | 5 U | 5 U | --- | 10 U | 0.5 U | 0.5 U | 1 U | 1 U | 25 U | 50 U | 5 U | --- | 10 U | 1 U | 0.5 U | 2,500 U | 2,500 U |
| 1,2-Dichloroethene (total) | NC | --- | --- | --- | --- | --- | 10 U | --- | --- | --- | --- | --- | 50 U | --- | --- | 10 U | --- | --- | --- | 2,500 U |
| 1,2-Dichloropropane | 1 | 1 U | 1 U | 5 U | 5 U | --- | 10 U | 0.5 U | 0.5 U | 1 U | 1 U | 25 U | 50 U | 5 U | --- | 10 U | 1 U | 0.5 U | 2,500 U | 2,500 U |
| 2-Butanone (Methyl Ethyl Ketone) | 50 | 5 U | 5 U | 25 U | 25 U | --- | 10 U | 10 U | 10 U | 5 U | 5 U | 130 U | 50 U | 25 U | --- | 10 U | 20 U | 10 U | 13,000 U | 2,500 U |
| 2-Hexanone | 50 | 5 U | 5 U | 10 U | 10 U | --- | 10 U | 5 U | 5 U | 5 U | 5 U | 10 U | 50 U | 10 U | --- | 10 U | 10 U | 5 U | 5,000 U | 2,500 U |
| 4-Methyl-2-pentanone (Methyl Isobutyl Ketone) | NC | 5 U | 5 U | --- | --- | --- | 10 U | 5 U | 5 U | 5 U | 5 U | --- | --- | --- | --- | 10 U | 10 U | 5 U | --- | --- |
| Acetone | 50 | 5 U | 5 U | 25 U | 25 U | --- | 10 U | 10 U | 1.21 J | 5 U | 5 UJ | 130 U | 50 U | 25 U | --- | 10 U | 20 U | 10 U | 13,000 U | 2,500 U |
| Acrylonitrile | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Benzene | 1 | 1 U | 1 U | 0.7 U | 0.7 U | --- | 10 U | 0.1 J | 0.5 U | 1 U | 1 U | 4 U | 50 U | 0.7 U | --- | 10 U | **13** | 0.5 U | 350 U | 2,500 U |
| Bromodichloromethane | 50 | 1 U | 1 U | 5 U | 5 U | --- | 10 U | 0.5 U | 0.5 U | 1 U | 1 U | 25 U | 50 U | 5 U | --- | 10 U | 1 U | 0.5 U | 2,500 U | 2,500 U |
| Bromoform | 50 | 1 U | 1 U | 5 U | 5 U | --- | 10 U | 0.5 U | 0.5 U | 1 U | 1 U | 25 U | 50 U | 5 U | --- | 10 U | 1 U | 0.5 U | 2,500 U | 2,500 U |
| Bromomethane (Methyl Bromide) | 5 | 1 U | 1 U | 5 U | 5 U | --- | 10 U | 1 UJ | 1 U | 1 U | 1 U | 25 U | 50 U | 5 U | --- | 10 U | 2 U | 1 U | 2,500 U | 2,500 U |
| Carbon disulfide | 60 | 1 U | 1 U | 5 U | 5 U | --- | 10 U | 0.6 | 0.5 U | 1 U | 1 U | 25 U | 50 U | 5 U | --- | 10 U | 0.5 J | 0.5 U | 2,500 U | 2,500 U |
| Carbon tetrachloride | 5 | 1 U | 1 U | 5 U | 5 U | --- | 10 U | 0.5 U | 0.5 U | 1 U | 1 U | 25 U | 50 U | 5 U | --- | 10 U | 1 U | 0.5 U | 2,500 U | 2,500 U |
| Chlorobenzene | 5 | 1 U | 1 U | 5 U | 5 U | --- | 10 U | 0.5 U | 0.5 U | 1 U | 1 U | 25 U | 50 U | 5 U | --- | 10 U | 1 U | 0.5 U | 2,500 U | 2,500 U |
| Chlorobromomethane | 5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Chloroethane | 5 | 1 U | 1 U | 5 U | 5 U | --- | 10 U | 1 U | 1 U | 1 U | 1 U | 25 U | 50 U | 5 U | --- | 10 U | 2 U | 1 U | 2,500 U | 2,500 U |
| Chloroform (Trichloromethane) | 7 | 1 U | 1 U | 5 U | 5 U | --- | 10 U | 0.5 U | 0.5 U | 1 U | 1 U | 25 U | 50 U | 5 U | --- | 10 U | 1 U | 0.5 U | 2,500 U | 2,500 U |
| Chloromethane (Methyl Chloride) | 5 | 1 U | 1 U | 5 U | 5 U | --- | 10 U | 1 U | 1 U | 1 U | 1 U | 25 U | 50 U | 5 U | --- | 10 U | 2 U | 1 U | 2,500 U | 2,500 U |
| cis-1,2-Dichloroethene | 5 | 1 U | 1 U | 5 U | 5 U | --- | --- | 0.5 U | 0.5 U | 1 U | 1 U | 25 U | --- | 5 U | --- | --- | 0.3 J | 0.36 J | 2,500 U | --- |
| cis-1,3-Dichloropropene | 0.4 | 1 U | 1 U | 5 U | 5 U | --- | 10 U | 0.5 U | 0.5 U | 1 U | 1 U | 25 U | 50 U | 5 U | --- | 10 U | 1 U | 0.5 U | 2,500 U | 2,500 U |
| Dibromochloromethane | 50 | 1 U | 1 U | 5 U | 5 U | --- | 10 U | 0.5 U | 0.5 U | 1 U | 1 U | 50 U | 50 U | 5 U | --- | 10 U | 1 U | 0.5 U | 2,500 U | 2,500 U |
| Dibromomethane | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Ethane | NC | --- | --- | --- | --- | 100 U | --- | --- | --- | --- | --- | --- | --- | --- | 100 U | --- | --- | --- | --- | --- |
| Ethylbenzene | 5 | 1 U | 1 U | 5 U | 5 U | --- | 10 U | 0.5 U | 0.5 U | 1 U | 1 U | 25 U | 50 U | 5 U | --- | 10 U | 5 | 0.5 U | 2,500 U | 2,500 U |
| Ethene | NC | --- | --- | --- | --- | 100 U | --- | --- | --- | --- | --- | --- | --- | --- | 100 U | --- | --- | --- | --- | --- |
| Iodomethane | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Methane | NC | --- | --- | --- | --- | 60 U | --- | --- | --- | --- | --- | --- | --- | --- | 60 U | --- | --- | --- | --- | --- |
| Methylene chloride | 5 | 1 U | 1 U | 5 U | 5 U | --- | 5 | 2 U | 2 U | 1 U | 1 U | 25 U | 50 U | 5 U | --- | **12 B** | 4 U | 2 U | 2,500 U | 2,500 U |
| o-Xylene | NC | 1 U | 1 U | 5 U | 5 U | --- | --- | --- | --- | 1 U | 1 U | 25 U | --- | 5 U | --- | --- | --- | --- | 2,500 U | --- |
| Styrene | 5 | 1 U | 1 U | 5 U | 5 U | --- | 10 U | 0.5 U | 0.5 U | 1 U | 1 U | 25 U | 50 U | 5 U | --- | 10 U | 1 U | 0.5 U | 2,500 U | 2,500 U |
| Tetrachloroethene | 5 | 1 U | 1 U | 5 U | 5 U | --- | 10 U | 0.4 J | 0.35 J | 0.91 J | 1.1 | U | **7 J** | **6** | --- | 3 J | 5 | 2.54 | 2,500 U | 2,500 U |
| Toluene | 5 | 1 U | 1 U | 5 U | 5 U | --- | 10 U | 0.5 J | 0.5 U | 1 U | 1 U | 25 U | 50 U | 5 U | --- | 10 U | **78** | 0.5 U | 2,500 U | 2,500 U |
| Total Btex | NC | --- | --- | --- | --- | --- | 10 U | 1 | 1 U | --- | --- | --- | 50 U | --- | --- | 10 U | 128 | 1 U | --- | 2,500 U |
| trans-1,2-Dichloroethene | 5 | 1 U | 1 U | 5 U | 5 U | --- | --- | 0.5 U | 0.5 U | 1 U | 1 U | 25 U | --- | 5 U | --- | --- | 1 U | 0.5 U | 2,500 U | --- |
| trans-1,3-Dichloropropene | 0.4 | 1 U | 1 U | 5 U | 5 U | --- | 10 U | 0.5 U | 0.5 U | 1 U | 1 U | 25 U | 50 U | 5 U | --- | 10 U | 1 U | 0.5 U | 2,500 U | 2,500 U |
| Trans-1,4-dichlorobutene | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Trichloroethene | 5 | 1 U | 1 U | 5 U | 5 U | --- | 10 U | 0.1 J | 0.19 J | 1 U | 0.33 J | U | **8 J** | **6** | --- | 5 J | 1 | 1.26 | 2,500 U | 2,500 U |
| Trichlorofluoromethane (CFC-11) | 5 | 1 U | 1 U | --- | --- | --- | --- | --- | --- | 1 U | 1 U | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Vinyl Acetate | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Vinyl chloride | 2 | 1 U | 1 U | 2 U | 2 U | --- | 10 U | 1 U | 1 U | 1 U | 1 U | 10 U | 50 U | 2 U | --- | 10 U | 2 U | 1 U | 1,000 U | 2,500 U |
| Xylene (m,p) | NC | 2 U | 2 U | 5 U | 5 U | --- | --- | --- | --- | 2 U | 2 U | 25 U | 50 U | 5 U | --- | --- | --- | --- | 2,500 U | 2,500 U |
| Xylene (total) | 5 | --- | --- | --- | --- | --- | 10 U | 0.4 J | 1 U | --- | --- | --- | 50 U | --- | --- | 10 U | **32** | 1 U | --- | 2,500 U |

**Notes:**
All units in micrograms per liter (µg/L)
[1] New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values, Revised June 1998.
**BOLD** - Exceedes New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values.
* - Elevation - ft amsl (ft bgs) [ft amsl - feet above mean sea level, ft bgs - feet below ground surface]
[2] Passive diffusion bags deployed 12/2/2005 and retrieved on 12/22/2005.
- Only wells with a discrete fracture or sampling interval have start and end depths.
- Well AMSF-MW-12S was found to be obstructed prior to the April/May 2010 sampling event. The obstruction was cleared prior to the September 2010 sampling event
- Well ITT-DBW-8 was inadvertently missed during the April/May 2010 Sampling Event.
- Well ITT-SBW-9 was inadvertently missed during sampling in April 2010 and consequently sampled in May 2010 when the mistake was identified.
NC - No criteria exists
U - Not Detected at the Detection Limit shown, J - Estimated value, UJ - Approximate Non-detect, B - Blank Contamination, BJ - Estimated Value Detected in Blank
--- Not Analyzed

**Table 5-4a**
**Groundwater Sample VOC Results**
**Former ITT Rochester Form Machine Facility**
**Site #8-28-112**
**Town of Gates, New York**

| | Location Code | ITT-SBW-7 | ITT-SBW-7 | ITT-SBW-7 | ITT-SBW-7 | ITT-SBW-7 | ITT-SBW-7 | ITT-SBW-7 | ITT-SBW-7 | ITT-SBW-8 | ITT-SBW-8 | ITT-SBW-8 | ITT-SBW-8 | ITT-SBW-8 | ITT-SBW-8 | ITT-SBW-8 | ITT-SBW-8 | ITT-SBW-9 | ITT-SBW-9 | ITT-SBW-9 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | 6/30/1999 | 9/22/1999 | 11/16/2000 | 2/9/2005 | 8/31/2005 | 9/30/2005 | 4/22/2010 | 9/16/2010 | 5/3/1999 | 6/29/1999 | 9/21/1999 | 11/16/2000 | 2/8/2005 | 9/30/2005 | 4/21/2010 | 9/15/2010 | 2/7/2005 | 8/31/2005 | 9/30/2005 |
| | Start Depth (ft) | | | | | | | | | | | | | | | | | | | |
| | End Depth (ft) | | | | | | | | | | | | | | | | | | | |
| **Analyte** | **Criteria** [1] | | | | | | | | | | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,1,1-Trichloroethane | 5 | **3100** | --- | **340** | **3500** | **406** | **2960** | **2000** | **5.1** | **11** | 5 U | --- | 4 J | 0.7 J | 0.17 J | 1 U | 1 U | **460** | **687** | **1750** |
| 1,1,2,2-Tetrachloroethane | 5 | 250 U | --- | 10 U | 50 U | 10 U | 10 U | 1 U | 1 U | 5 U | 5 U | --- | 10 U | 2 U | 0.5 U | 1 U | 1 U | 10 U | 10 U | 10 U |
| 1,1,2-Trichloroethane | 1 | 250 U | --- | 10 U | 50 U | 10 U | 10 U | 1 U | 1 U | 5 U | 5 U | --- | 10 U | 2 U | 0.5 U | 1 U | 1 U | 10 U | 10 U | 10 U |
| 1,1-Dichloroethane | 5 | 250 U | --- | **340** | **58** | **11.2** | **69.4** | **130** | **7.2** | 5 U | 5 U | --- | 4 J | 2 U | 0.39 J | 1 U | 0.29 J | **13** | **7.2 J** | **16.6** |
| 1,1-Dichloroethene | 5 | 250 U | --- | **83** | 50 U | 4.2 J | **6.6 J** | **8.7** | 2.3 | **6** | 5 U | --- | 3 J | 2 U | 0.5 U | 1 U | 1 U | **8 J** | **13** | **89.4** |
| 1,2,3-Trichloropropane | 0.04 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,2-Dibromo-3-chloropropane (DBCP) | 0.04 | --- | --- | --- | --- | --- | --- | 2 U | 2 U | --- | --- | --- | --- | --- | --- | 2 U | 2 U | --- | --- | --- |
| 1,2-Dibromoethane (Ethylene Dibromide) | 0.0006 | --- | --- | --- | --- | --- | --- | 1 U | 1 U | --- | --- | --- | --- | --- | --- | 1 U | 1 U | --- | --- | --- |
| 1,2-Dichloroethane | 0.6 | 250 U | --- | 10 U | 50 U | 10 U | 10 U | 1 U | 1 U | 5 U | 5 U | --- | 10 U | 2 U | 0.5 U | 1 U | 1 U | 10 U | 10 U | 10 U |
| 1,2-Dichloroethene (total) | NC | --- | --- | 2 J | --- | --- | --- | --- | --- | --- | --- | --- | 10 U | --- | --- | --- | --- | --- | --- | --- |
| 1,2-Dichloropropane | 1 | 250 U | --- | 10 U | 50 U | 10 U | 10 U | 1 U | 1 U | 5 U | 5 U | --- | 10 U | 2 U | 0.5 U | 1 U | 1 U | 10 U | 10 U | 10 U |
| 2-Butanone (Methyl Ethyl Ketone) | 50 | 1300 U | --- | 10 U | 1,000 U | 200 UJ | 200 U | 1.6 J | 5 U | 25 U | 25 U | --- | 10 U | 40 U | 10 U | 5 U | 5 U | 200 U | 200 U | 200 U |
| 2-Hexanone | 50 | 500 U | --- | 10 U | 500 U | 100 U | 100 U | 5 U | 5 U | 10 U | 10 U | --- | 10 U | 20 U | 5 U | 5 U | 5 U | 100 U | 100 U | 100 U |
| 4-Methyl-2-pentanone (Methyl Isobutyl Ketone) | NC | --- | --- | 10 U | 500 U | 100 U | 100 U | 5 U | 5 U | --- | --- | --- | 10 U | 20 U | 5 U | 5 U | 5 U | 100 U | 100 UJ | 100 U |
| Acetone | 50 | 1300 U | --- | 10 U | 1,000 U | 200 UJ | 200 U | 5 U | 5 UJ | 25 U | 25 U | --- | 10 U | 40 U | 10 U | 5 U | 3 J | 200 U | 200 UJ | 200 U |
| Acrylonitrile | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Benzene | 1 | 35 U | --- | 10 U | **14 J** | 10 U | 10 U | 1 U | 1 U | 0.7 U | 0.7 U | --- | 10 U | **10** | 0.5 U | 1 U | 1 U | 10 U | 10 U | 10 U |
| Bromodichloromethane | 50 | 250 U | --- | 10 U | 50 U | 10 U | 10 U | 1 U | 1 U | 5 U | 5 U | --- | 10 U | 2 U | 0.5 U | 1 U | 1 U | 10 U | 10 U | 10 U |
| Bromoform | 50 | 250 U | --- | 10 U | 50 U | 10 U | 10 U | 1 U | 1 U | 5 U | 5 U | --- | 10 U | 2 U | 0.5 U | 1 U | 1 U | 10 U | 10 U | 10 U |
| Bromomethane (Methyl Bromide) | 5 | 250 U | --- | 10 U | 100 U | 20 U | 20 U | 1 U | 1 U | 5 U | 5 U | --- | 10 U | 4 UJ | 1 U | 1 U | 1 U | 20 UJ | 20 U | 20 U |
| Carbon disulfide | 60 | 250 U | --- | 10 U | 14 J | 10 U | 10 U | 1 U | 1 U | 5 U | 5 U | --- | 10 U | 0.5 J | 0.5 U | 1 U | 1 U | 10 U | 10 U | 10 U |
| Carbon tetrachloride | 5 | 250 U | --- | 10 U | 50 U | 10 U | 10 U | 1 U | 1 U | 5 U | 5 U | --- | 10 U | 2 U | 0.5 U | 1 U | 1 U | 10 U | 10 U | 10 U |
| Chlorobenzene | 5 | 250 U | --- | 10 U | 50 U | 10 U | 10 U | 1 U | 1 U | 5 U | 5 U | --- | 10 U | 2 U | 0.5 U | 1 U | 1 U | 10 U | 10 U | 10 U |
| Chlorobromomethane | 5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Chloroethane | 5 | 250 U | --- | **28** | 100 U | 20 U | 20 U | **8.7** | 1 U | 5 U | 5 U | --- | 10 U | 4 U | 1 U | 1 U | 1 U | 20 U | 20 U | 20 U |
| Chloroform (Trichloromethane) | 7 | 250 U | --- | 10 U | 50 U | 10 U | 10 U | 1 U | 1 U | 5 U | 5 U | --- | 10 U | 2 U | 0.5 U | 1 U | 1 U | 10 U | 10 U | 10 U |
| Chloromethane (Methyl Chloride) | 5 | 250 U | --- | 10 U | 100 U | 20 U | 20 U | 1 U | 1 U | 5 U | 5 U | --- | 10 U | 4 U | 1 U | 1 U | 1 U | 20 U | 20 U | 20 U |
| cis-1,2-Dichloroethene | 5 | 250 U | --- | --- | 50 U | 10 U | 10 U | 1.4 | 0.22 J | 5 U | 5 U | --- | --- | 2 U | 0.5 U | 1 U | 1 U | 10 U | 10 U | 10 U |
| cis-1,3-Dichloropropene | 0.4 | 250 U | --- | 10 U | 50 U | 10 U | 10 U | 1 U | 1 U | 5 U | 5 U | --- | 10 U | 2 U | 0.5 U | 1 U | 1 U | 10 U | 10 U | 10 U |
| Dibromochloromethane | 50 | 250 U | --- | 10 U | 50 U | 10 U | 10 U | 1 U | 1 U | 5 U | 5 U | --- | 10 U | 2 U | 0.5 U | 1 U | 1 U | 10 U | 10 U | 10 U |
| Dibromomethane | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Ethane | NC | --- | 100 U | --- | --- | --- | --- | --- | --- | --- | --- | 100 U | --- | --- | --- | --- | --- | --- | --- | --- |
| Ethylbenzene | 5 | 250 U | --- | 10 U | 50 U | 10 U | 10 U | 1 U | 1 U | 5 U | 5 U | --- | 10 U | **11** | 0.5 U | 1 U | 1 U | 10 U | 10 U | 10 U |
| Ethene | NC | --- | 100 U | --- | --- | --- | --- | --- | --- | --- | --- | 100 U | --- | --- | --- | --- | --- | --- | --- | --- |
| Iodomethane | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Methane | NC | --- | 70 U | --- | --- | --- | --- | --- | --- | --- | --- | 147 | --- | --- | --- | --- | --- | --- | --- | --- |
| Methylene chloride | 5 | 250 U | --- | **12 B** | 200 U | 5 J | 40 U | 1 U | 1 U | 5 U | 5 U | --- | 4 | 8 U | 2 U | 1 U | 1 U | 40 U | **7 J** | 40 U |
| o-Xylene | NC | 250 U | --- | --- | --- | --- | --- | 1 U | 1 U | 5 U | 5 U | --- | --- | --- | --- | 1 U | 1 U | --- | --- | --- |
| Styrene | 5 | 250 U | --- | 10 U | 50 U | 10 U | 10 U | 1 U | 1 U | 5 U | 5 U | --- | 10 U | 2 U | 0.5 U | 1 U | 1 U | 10 U | 10 U | 10 U |
| Tetrachloroethene | 5 | 250 U | --- | 10 U | 50 U | 10 U | 10 U | 1 U | 1 U | 5 U | 5 U | --- | 10 U | 2 U | 0.5 U | 1 U | 1 U | 10 U | 10 U | 4.6 J |
| Toluene | 5 | 250 U | --- | 10 U | **88** | 10 U | 10 U | 1 U | 1 U | 5 U | 5 U | --- | 10 U | **100** | 0.5 U | 1 U | 1 U | 10 U | 10 U | 10 U |
| Total Btex | NC | --- | --- | 10 U | 154 | 20 U | 20 U | --- | --- | --- | --- | --- | 10 U | 186 | 1 U | --- | --- | 10 U | 20 U | 20 U |
| trans-1,2-Dichloroethene | 5 | 250 U | --- | --- | 50 U | 10 U | 10 U | 1 U | 1 U | 5 U | 5 U | --- | --- | 2 U | 0.5 U | 1 U | 1 U | 10 U | 10 U | 10 U |
| trans-1,3-Dichloropropene | 0.4 | 250 U | --- | 10 U | 50 U | 10 U | 10 U | 1 U | 1 U | 5 U | 5 U | --- | 10 U | 2 U | 0.5 U | 1 U | 1 U | 10 U | 10 U | 10 U |
| Trans-1,4-dichlorobutene | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Trichloroethene | 5 | 250 U | --- | 3 J | **23 J** | 2.8 J | **16.6** | **22** | 0.54 J | 5 U | 5 U | --- | 10 U | 2 U | 0.12 J | 1 U | 1 U | 10 U | **5.2 J** | **5.4 J** |
| Trichlorofluoromethane (CFC-11) | 5 | --- | --- | --- | --- | --- | --- | 1 U | 1 U | --- | --- | --- | --- | --- | --- | 1 U | 1 U | --- | --- | --- |
| Vinyl Acetate | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Vinyl chloride | 2 | 100 U | --- | 10 U | 100 U | 20 U | 20 U | **2.1** | 1 U | 2 U | 2 U | --- | 10 U | 4 U | 1 U | 1 U | 1 U | 20 U | 20 U | 20 U |
| Xylene (m,p) | NC | 250 U | --- | --- | --- | --- | --- | 2 U | 2 U | 5 U | 5 U | --- | --- | --- | --- | 2 U | 2 U | --- | --- | --- |
| Xylene (total) | 5 | --- | --- | 10 U | **52** | 20 U | 20 U | --- | --- | --- | --- | --- | 10 U | **65** | 1 U | --- | --- | 10 U | 20 U | 20 U |

**Notes:**
All units in micrograms per liter (µg/L)
[1] New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values, Revised June 1998.
**BOLD** - Exceedes New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values.
* - Elevation - ft amsl (ft bgs) [ft amsl - feet above mean sea level, ft bgs - feet below ground surface]
[2] Passive diffusion bags deployed 12/2/2005 and retrieved on 12/22/2005.
- Only wells with a discrete fracture or sampling interval have start and end depths.
- Well AMSF-MW-12S was found to be obstructed prior to the April/May 2010 sampling event. The obstruction was cleared prior to the September 2010 sampling event
- Well ITT-DBW-8 was inadvertently missed during the April/May 2010 Sampling Event.
- Well ITT-SBW-9 was inadvertently missed during sampling in April 2010 and consequently sampled in May 2010 when the mistake was identified.
NC - No criteria exists
U - Not Detected at the Detection Limit shown, J - Estimated value, UJ - Approximate Non-detect, B - Blank Contamination, BJ - Estimated Value Detected in Blank
--- Not Analyzed

**Table 5-4a**
**Groundwater Sample VOC Results**
**Former ITT Rochester Form Machine Facility**
**Site #8-28-112**
**Town of Gates, New York**

| | Location Code | ITT-SBW-9 | ITT-SBW-9 | ITT-SBW-10 | ITT-SBW-10 | ITT-SBW-10 | ITT-SBW-10 | ITT-SBW-11 | ITT-SBW-11 | ITT-SBW-12 | ITT-SBW-12 | ITT-SBW-13 | ITT-SBW-13 | ITT-SBW-13 | ITT-SBW-13 | ITT-SBW-13 | ITT-SBW-14 | ITT-SBW-14 | ITT-SBW-14 | ITT-SBW-14 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | 5/12/2010 | 9/15/2010 | 2/7/2005 | 9/27/2005 | 4/21/2010 | 9/14/2010 | 2/9/2005 | 10/4/2005 | 2/9/2005 | 10/4/2005 | 2/11/2005 | 8/31/2005 | 9/28/2005 | 4/20/2010 | 9/14/2010 | 2/11/2005 | 9/28/2005 | 4/20/2010 | 9/14/2010 |
| | Start Depth (ft) | | | | | | | | | | | | | | | | | | | |
| | End Depth (ft) | | | | | | | | | | | | | | | | | | | |
| **Analyte** | **Criteria** [1] | | | | | | | | | | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,1,1-Trichloroethane | 5 | **11** | 0.9 J | **32** | **161** | **110** | **260** | **7** | **13.2** | **13** | **17.8** | **12** | **296** | **321** | 2 | 1.1 | **7** | **21.1** | 1.2 | 0.47 J |
| 1,1,2,2-Tetrachloroethane | 5 | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 2 U | 2 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 10 U | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 1 U |
| 1,1,2-Trichloroethane | 1 | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 2 U | 2 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 10 U | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 1 U |
| 1,1-Dichloroethane | 5 | 2.8 | 2.9 | 2 | 4.55 | **6.4** | **6.3** | 0.8 J | 1.07 | 2 | 1.95 | **9** | 4.06 | **7.6 J** | 3.6 | 3.9 | 5 | **6.66** | 4.8 | 3.5 |
| 1,1-Dichloroethene | 5 | 1.1 | 0.71 J | 2 | **6.27** | 3.3 | 3.3 | 3 | **15.8** | 4 | **5.66** | 2 | **8.93** | **13.6** | 1 U | 0.62 J | 0.6 | 1.77 | 1 U | 1 U |
| 1,2,3-Trichloropropane | 0.04 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,2-Dibromo-3-chloropropane (DBCP) | 0.04 | 2 U | 2 U | --- | --- | 2 U | 4 U | --- | --- | --- | --- | --- | --- | --- | 2 U | 2 U | --- | --- | 2 U | 2 U |
| 1,2-Dibromoethane (Ethylene Dibromide) | 0.0006 | 1 U | 1 U | --- | --- | 1 U | 2 U | --- | --- | --- | --- | --- | --- | --- | 1 U | 1 U | --- | --- | 1 U | 1 U |
| 1,2-Dichloroethane | 0.6 | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 2 U | 2 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 10 U | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 1 U |
| 1,2-Dichloroethene (total) | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,2-Dichloropropane | 1 | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 2 U | 2 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 10 U | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 1 U |
| 2-Butanone (Methyl Ethyl Ketone) | 50 | 5 UJ | 5 U | 10 U | 10 U | 5 U | 10 U | 50 U | 10 U | 10 U | 10 U | 10 U | 10 U | 200 U | 5 U | 5 U | 10 U | 10 U | 5 U | 5 U |
| 2-Hexanone | 50 | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 25 U | 5 U | 5 U | 5 U | 5 U | 5 U | 100 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| 4-Methyl-2-pentanone (Methyl Isobutyl Ketone) | NC | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | 25 U | 5 U | 5 U | 5 U | 5 U | 5 UJ | 100 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U |
| Acetone | 50 | 5 U | 5 UJ | 10 U | 1.08 J | 5 U | 10 UJ | 50 U | 10 U | 10 U | 10 U | 10 U | 10 UJ | 200 U | 5 U | 5 U | 1 J | 10 U | 5 U | 5 UJ |
| Acrylonitrile | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Benzene | 1 | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 2 U | **12** | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 10 U | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 1 U |
| Bromodichloromethane | 50 | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 2 U | 2 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 10 U | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 1 U |
| Bromoform | 50 | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 2 U | 2 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 10 U | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 1 U |
| Bromomethane (Methyl Bromide) | 5 | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U | 5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 20 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| Carbon disulfide | 60 | 5 U | 1 U | 0.5 U | 0.5 U | 1 U | 2 U | 2 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 10 U | 1 U | 1 U | 0.1 J | 0.5 U | 1 U | 1 U |
| Carbon tetrachloride | 5 | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 2 U | 2 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 10 U | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 1 U |
| Chlorobenzene | 5 | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 2 U | 2 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 10 U | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 1 U |
| Chlorobromomethane | 5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Chloroethane | 5 | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U | 5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 20 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| Chloroform (Trichloromethane) | 7 | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 2 U | 2 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 10 U | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 1 U |
| Chloromethane (Methyl Chloride) | 5 | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U | 5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 20 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| cis-1,2-Dichloroethene | 5 | 1 U | 0.45 J | 0.5 U | 0.5 U | 0.51 J | 2 U | 2 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 10 U | 1 U | 0.34 J | 0.5 U | 0.5 U | 0.55 J | 0.28 J |
| cis-1,3-Dichloropropene | 0.4 | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 2 U | 2 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 10 U | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 1 U |
| Dibromochloromethane | 50 | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 2 U | 2 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 10 U | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 1 U |
| Dibromomethane | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Ethane | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Ethylbenzene | 5 | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 2 U | **9** | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 10 U | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 1 U |
| Ethene | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Iodomethane | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Methane | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Methylene chloride | 5 | 1 U | 1 U | 2 U | 2 U | 1 U | 2 U | 10 U | 2 U | 2 U | 2 U | 2 U | 2 U | 40 U | 1 U | 1 U | 2 U | 2 U | 1 U | 1 U |
| o-Xylene | NC | 1 U | 1 U | --- | --- | 1 U | 2 U | --- | --- | --- | --- | --- | --- | --- | 1 U | 1 U | --- | --- | 1 U | 1 U |
| Styrene | 5 | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 2 U | 2 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 10 U | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 1 U |
| Tetrachloroethene | 5 | 1 U | 1 U | 0.9 | 1.56 | **6.4** | 4.1 | 0.6 J | 0.26 J | 0.6 | 0.63 | 0.3 J | 1.07 | 10 U | 1 U | 1 U | 0.5 U | 0.31 J | 1 U | 1 U |
| Toluene | 5 | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 2 U | **78** | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 10 U | 1 U | 1 U | 0.1 J | 0.12 J | 1 U | 1 U |
| Total Btex | NC | --- | --- | 0.5 U | 1 U | --- | --- | 157 | 1 U | 0.5 U | 1 U | 0.5 U | 1 U | 20 U | --- | --- | 0.1 | 0.12 | --- | --- |
| trans-1,2-Dichloroethene | 5 | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 2 U | 2 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 10 U | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 1 U |
| trans-1,3-Dichloropropene | 0.4 | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 2 U | 2 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 10 U | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 1 U |
| Trans-1,4-dichlorobutene | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Trichloroethene | 5 | 1 U | 1 U | 0.4 J | 1.19 | 2.3 | 2.4 | 2 U | 0.66 | 0.3 J | 0.36 J | 0.7 | 1.03 | 10 U | 1 U | 1 U | 0.4 J | 0.57 | 1 U | 1 U |
| Trichlorofluoromethane (CFC-11) | 5 | 1 U | 1 U | --- | --- | 1 U | 2 U | --- | --- | --- | --- | --- | --- | --- | 1 U | 1 U | --- | --- | 1 U | 1 U |
| Vinyl Acetate | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Vinyl chloride | 2 | 1 U | 0.84 J | 1 U | 1 U | 1 U | 2 U | 5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 20 U | 1.5 | 1.3 | 1 U | 1 U | 1.5 | 0.97 J |
| Xylene (m,p) | NC | 2 U | 2 U | --- | --- | 2 U | 4 U | --- | --- | --- | --- | --- | --- | --- | 2 U | 2 U | --- | --- | 2 U | 2 U |
| Xylene (total) | 5 | --- | --- | 0.5 U | 1 U | --- | --- | **58** | 1 U | 0.5 U | 1 U | 0.5 U | 1 U | 20 U | --- | --- | 0.5 U | 1 U | --- | --- |

**Notes:**
All units in micrograms per liter (µg/L)
[1] New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values, Revised June 1998.
**BOLD** - Exceedes New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values.
* - Elevation - ft amsl (ft bgs) [ft amsl - feet above mean sea level, ft bgs - feet below ground surface]
[2] Passive diffusion bags deployed 12/2/2005 and retrieved on 12/22/2005.
- Only wells with a discrete fracture or sampling interval have start and end depths.
- Well AMSF-MW-12S was found to be obstructed prior to the April/May 2010 sampling event. The obstruction was cleared prior to the September 2010 sampling event
- Well ITT-DBW-8 was inadvertently missed during the April/May 2010 Sampling Event.
- Well ITT-SBW-9 was inadvertently missed during sampling in April 2010 and consequently sampled in May 2010 when the mistake was identified.
NC - No criteria exists
U - Not Detected at the Detection Limit shown, J - Estimated value, UJ - Approximate Non-detect, B - Blank Contamination, BJ - Estimated Value Detected in Blank
--- Not Analyzed

**Table 5-4a**
**Groundwater Sample VOC Results**
**Former ITT Rochester Form Machine Facility**
**Site #8-28-112**
**Town of Gates, New York**

| | Location Code | ITT-SBW-15 | ITT-SBW-15 | ITT-SBW-15 | ITT-SBW-15 | ITT-SBW-16 | ITT-SBW-16 | ITT-SBW-16 | ITT-SBW-16 | ITT-SBW-17 | ITT-SBW-17 | ITT-SBW-18 | ITT-SBW-18 | ITT-SBW-23 | ITT-SBW-23 | ITT-W-1 | ITT-W-1 | ITT-W-1 | ITT-W-1 | ITT-W-1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | 2/11/2005 | 9/28/2005 | 4/20/2010 | 9/8/2010 | 2/11/2005 | 9/28/2005 | 4/20/2010 | 9/14/2010 | 4/19/2010 | 9/8/2010 | 4/19/2010 | 9/8/2010 | 4/21/2010 | 9/14/2010 | 11/13/1991 | 9/10/1998 | 5/3/1999 | 6/29/1999 | 9/20/1999 |
| | Start Depth (ft) | | | | | | | | | | | | | | | | 536.3 (25)* | 536.3 (25)* | 536.3 (25)* | 568.3 (18)* |
| | End Depth (ft) | | | | | | | | | | | | | | | | 536.3 (25)* | 536.3 (25)* | 536.3 (25)* | 568.3 (18)* |
| **Analyte** | **Criteria** [1] | | | | | | | | | | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,1,1-Trichloroethane | 5 | 4 | **32.1** | 3.6 | **24** | 0.2 J | 1.74 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | **6** | **31** | **77** | **81** | --- |
| 1,1,2,2-Tetrachloroethane | 5 | 0.5 U | 0.5 U | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 5 U | 10 U | 5 U | 5 U | --- |
| 1,1,2-Trichloroethane | 1 | 0.5 U | 0.5 U | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 5 U | 10 U | 5 U | 5 U | --- |
| 1,1-Dichloroethane | 5 | 0.2 J | 1.28 | 1 U | 0.78 J | 0.5 U | 0.65 | 1 U | 0.59 J | 1 U | 0.29 J | 1 U | 1 U | 4.2 | 3.3 | 5 U | 2 J | 5 U | 5 U | --- |
| 1,1-Dichloroethene | 5 | 0.1 J | 1.12 | 1 U | 1 | 0.5 U | 0.28 J | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.56 J | 5 U | 10 U | 5 U | 5 U | --- |
| 1,2,3-Trichloropropane | 0.04 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,2-Dibromo-3-chloropropane (DBCP) | 0.04 | --- | --- | 2 U | 2 UJ | --- | --- | 2 U | 2 U | 2 U | 2 UJ | 2 U | 2 UJ | 2 U | 2 U | --- | --- | --- | --- | --- |
| 1,2-Dibromoethane (Ethylene Dibromide) | 0.0006 | --- | --- | 1 U | 1 U | --- | --- | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | --- | --- | --- | --- | --- |
| 1,2-Dichloroethane | 0.6 | 0.5 U | 0.5 U | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 5 U | 10 U | 5 U | 5 U | --- |
| 1,2-Dichloroethene (total) | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 5 U | 10 U | --- | --- | --- |
| 1,2-Dichloropropane | 1 | 0.5 U | 0.5 U | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 5 U | 10 U | 5 U | 5 U | --- |
| 2-Butanone (Methyl Ethyl Ketone) | 50 | 10 U | 10 U | 5 U | 5 UJ | 10 U | 10 U | 5 U | 5 U | 5 U | 5 UJ | 5 U | 5 UJ | 5 U | 5 U | 15 | 10 U | 25 U | 25 U | --- |
| 2-Hexanone | 50 | 5 U | 5 U | 5 U | 5 UJ | 5 U | 5 U | 5 U | 5 U | 5 U | 5 UJ | 5 U | 5 UJ | 5 U | 5 U | 10 U | 10 U | 10 U | 10 U | --- |
| 4-Methyl-2-pentanone (Methyl Isobutyl Ketone) | NC | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 5 U | 10 U | --- | --- | --- | --- |
| Acetone | 50 | 1 J | 10 U | 5 U | 5 U | 10 U | 10 U | 5 U | 5 UJ | 5 U | 5 U | 5 U | 5 U | 5 U | 5 UJ | 14 | 9 J | --- | 25 U | --- |
| Acrylonitrile | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Benzene | 1 | 0.5 U | 0.5 U | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 5 U | 10 U | 0.7 U | 0.7 U | --- |
| Bromodichloromethane | 50 | 0.5 U | 0.5 U | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 5 U | 10 U | 5 U | 5 U | --- |
| Bromoform | 50 | 0.5 U | 0.5 U | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 5 U | 10 U | 5 U | 5 U | --- |
| Bromomethane (Methyl Bromide) | 5 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 10 U | 10 U | 5 U | 5 U | --- |
| Carbon disulfide | 60 | 0.5 U | 0.5 U | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 5 U | 10 U | 5 U | 5 U | --- |
| Carbon tetrachloride | 5 | 0.5 U | 0.5 U | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 5 U | 10 U | 5 U | 5 U | --- |
| Chlorobenzene | 5 | 0.5 U | 0.5 U | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 5 U | 10 U | 5 U | 5 U | --- |
| Chlorobromomethane | 5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Chloroethane | 5 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1.1 | 1 U | 10 U | 10 U | 5 U | 5 U | --- |
| Chloroform (Trichloromethane) | 7 | 0.5 U | 0.5 U | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 5 U | 10 U | 5 U | 5 U | --- |
| Chloromethane (Methyl Chloride) | 5 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 10 U | 10 U | 5 U | 5 U | --- |
| cis-1,2-Dichloroethene | 5 | 0.5 U | 0.5 U | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.28 J | --- | --- | 5 U | 5 U | --- |
| cis-1,3-Dichloropropene | 0.4 | 0.5 U | 0.5 U | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 5 U | 10 U | 5 U | 5 U | --- |
| Dibromochloromethane | 50 | 0.5 U | 0.5 U | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 5 U | 10 U | 5 U | 5 U | --- |
| Dibromomethane | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Ethane | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 100 U |
| Ethylbenzene | 5 | 0.5 U | 0.5 U | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 5 U | 10 U | 5 U | 5 U | --- |
| Ethene | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 100 U |
| Iodomethane | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Methane | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 231 |
| Methylene chloride | 5 | 2 U | 2 U | 1 U | 1 U | 2 U | 2 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 5 U | 10 U | 5 U | 5 U | --- |
| o-Xylene | NC | --- | --- | 1 U | 1 U | --- | --- | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | --- | --- | 5 U | 5 U | --- |
| Styrene | 5 | 0.5 U | 0.5 U | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 5 U | 10 U | 5 U | 5 U | --- |
| Tetrachloroethene | 5 | 0.1 J | 0.45 J | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 5 U | 10 U | 5 U | 5 U | --- |
| Toluene | 5 | 0.5 U | 0.5 U | 1 U | 1 U | 0.5 U | 0.19 J | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 5 U | 10 U | 5 U | 5 U | --- |
| Total Btex | NC | 0.5 U | 1 U | --- | --- | 0.5 U | 0.19 | --- | --- | --- | --- | --- | --- | --- | --- | 5 U | 10 U | --- | --- | --- |
| trans-1,2-Dichloroethene | 5 | 0.5 U | 0.5 U | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | --- | --- | 5 U | 5 U | --- |
| trans-1,3-Dichloropropene | 0.4 | 0.5 U | 0.5 U | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 5 U | 10 U | 5 U | 5 U | --- |
| Trans-1,4-dichlorobutene | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Trichloroethene | 5 | 0.5 U | 0.28 J | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 5 U | 10 U | 5 U | 5 U | --- |
| Trichlorofluoromethane (CFC-11) | 5 | --- | --- | 1 U | 1 U | --- | --- | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | --- | --- | --- | --- | --- |
| Vinyl Acetate | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | 10 U | --- | --- | --- | --- |
| Vinyl chloride | 2 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | **2.1** | 0.89 J | 10 U | 10 U | 5 U | 2 U | --- |
| Xylene (m,p) | NC | --- | --- | 2 U | 2 U | --- | --- | 2 U | 2 U | --- | --- | 2 U | 2 U | 2 U | 2 U | --- | --- | 5 U | 5 U | --- |
| Xylene (total) | 5 | 0.5 U | 1 U | --- | --- | 0.5 U | 1 U | --- | --- | --- | --- | --- | --- | --- | --- | 5 U | 10 U | --- | --- | --- |

**Notes:**
All units in micrograms per liter (µg/L)
[1] New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values, Revised June 1998.
**BOLD** - Exceedes New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values.
* - Elevation - ft amsl (ft bgs) [ft amsl - feet above mean sea level, ft bgs - feet below ground surface]
[2] Passive diffusion bags deployed 12/2/2005 and retrieved on 12/22/2005.
- Only wells with a discrete fracture or sampling interval have start and end depths.
- Well AMSF-MW-12S was found to be obstructed prior to the April/May 2010 sampling event. The obstruction was cleared prior to the September 2010 sampling event
- Well ITT-DBW-8 was inadvertently missed during the April/May 2010 Sampling Event.
- Well ITT-SBW-9 was inadvertently missed during sampling in April 2010 and consequently sampled in May 2010 when the mistake was identified.
NC - No criteria exists
U - Not Detected at the Detection Limit shown, J - Estimated value, UJ - Approximate Non-detect, B - Blank Contamination, BJ - Estimated Value Detected in Blank
--- Not Analyzed

**Table 5-4a**
**Groundwater Sample VOC Results**
**Former ITT Rochester Form Machine Facility**
**Site #8-28-112**
**Town of Gates, New York**

| | Location Code | ITT-W-1 | ITT-W-1 | ITT-W-1 | ITT-W-1 | ITT-W-1 | ITT-W-1 | ITT-W-1 | ITT-W-1 | ITT-W-1 | ITT-W-1 | ITT-W-1 | ITT-W-1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | 9/20/1999 | 11/16/2000 | 11/16/2000 | 11/16/2000 | 11/16/2000 | 2/10/2005 | 2/10/2005 | 2/17/2005 | 2/17/2005 | 2/17/2005 | 10/3/2005 | 10/3/2005 |
| | Start Depth (ft) | 476.3 (110)* | 525.3 (36)* | 496.3 (65)* | 466.3 (95)* | 446.3 (140)* | 540.3 (21)* | 523.3 (38)* | 466.3 (95)* | 443.3 (118)* | 428.8 (132.5)* | 546.3 (15)* | 428.8(132.5)* |
| | End Depth (ft) | 476.3 (110)* | 525.3 (36)* | 496.3 (65)* | 466.3 (95)* | 446.3 (140)* | 540.3 (21)* | 523.3 (38)* | 466.3 (95)* | 443.3 (118)* | 428.8 (132.5)* | 546.3 (15)* | 428.8 (132.5)* |
| **Analyte** | **Criteria** [1] | | | | | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,1,1-Trichloroethane | 5 | --- | 10 U | 10 U | 1 J | **510** | 0.5 U | 0.5 U | 0.5 U | **22** | **810** | 0.5 U | **685** |
| 1,1,2,2-Tetrachloroethane | 5 | --- | 10 U | 10 U | 10 U | 100 U | 0.5 U | 0.5 U | 0.5 U | 2 U | 50 U | 0.5 U | 0.5 U |
| 1,1,2-Trichloroethane | 1 | --- | 10 U | 10 U | 10 U | 100 U | 0.5 U | 0.5 U | 0.5 U | 2 U | 50 U | 0.5 U | 0.5 U |
| 1,1-Dichloroethane | 5 | --- | 10 U | 10 U | 10 U | **1400** | 0.5 U | 0.5 U | 2 | **78** | **1300** | 0.5 U | **1240** |
| 1,1-Dichloroethene | 5 | --- | 10 U | 10 U | 10 U | **29 J** | 0.5 U | 0.5 U | 0.5 U | 3 | **28 J** | 0.5 U | **21.1** |
| 1,2,3-Trichloropropane | 0.04 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,2-Dibromo-3-chloropropane (DBCP) | 0.04 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,2-Dibromoethane (Ethylene Dibromide) | 0.0006 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1,2-Dichloroethane | 0.6 | --- | 10 U | 10 U | 10 U | 100 U | 0.5 U | 0.5 U | 0.5 U | 2 U | 50 U | 0.5 U | 0.5 U |
| 1,2-Dichloroethene (total) | NC | --- | 10 U | 10 U | 10 U | 100 U | --- | --- | --- | --- | --- | --- | --- |
| 1,2-Dichloropropane | 1 | --- | 10 U | 10 U | 10 U | 100 U | 0.5 U | 0.5 U | 0.5 U | 2 U | 50 U | 0.5 U | 0.5 U |
| 2-Butanone (Methyl Ethyl Ketone) | 50 | --- | 10 U | 10 U | 10 U | **1000** | 10 U | 10 U | 10 U | 50 U | **130 J** | 10 U | **145 J** |
| 2-Hexanone | 50 | --- | 10 U | 10 U | 10 U | 100 U | 5 U | 5 U | 5 U | 25 U | 500 U | 5 U | 5 U |
| 4-Methyl-2-pentanone (Methyl Isobutyl Ketone) | NC | --- | 10 U | 10 U | 10 U | 100 U | 5 U | 5 U | 5 U | 25 U | 500 U | 5 U | 5.42 |
| Acetone | 50 | --- | 10 U | 10 U | 10 U | **450** | 10 U | 10 U | 10 U | 50 U | **130 J** | 10 U | **207 J** |
| Acrylonitrile | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Benzene | 1 | --- | 10 U | 10 U | 10 U | **350** | 0.5 U | 0.5 U | **3** | **40** | **460** | 0.5 U | **472** |
| Bromodichloromethane | 50 | --- | 10 U | 10 U | 10 U | 100 U | 0.5 U | 0.5 U | 0.5 U | 2 U | 50 U | 0.5 U | 0.5 U |
| Bromoform | 50 | --- | 10 U | 10 U | 10 U | 100 U | 0.5 U | 0.5 U | 0.5 U | 2 U | 50 U | 0.5 U | 0.5 U |
| Bromomethane (Methyl Bromide) | 5 | --- | 10 U | 10 U | 10 U | 100 U | 1 U | 1 U | 1 U | 5 U | 100 U | 1 U | 1 U |
| Carbon disulfide | 60 | --- | 10 U | 10 U | 10 U | 100 U | 0.5 U | 0.5 U | 0.5 U | 2 U | 50 U | 0.5 U | 0.5 U |
| Carbon tetrachloride | 5 | --- | 10 U | 10 U | 10 U | 100 U | 0.5 U | 0.5 U | 0.5 U | 2 U | 50 U | 0.5 U | 0.5 U |
| Chlorobenzene | 5 | --- | 10 U | 10 U | 10 U | 100 U | 0.5 U | 0.5 U | 0.5 U | 2 U | 50 U | 0.5 U | 0.5 U |
| Chlorobromomethane | 5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Chloroethane | 5 | --- | 10 U | 10 U | 10 U | 100 U | 1 U | 1 U | 0.5 J | 2 J | 100 U | 1 U | 1.75 |
| Chloroform (Trichloromethane) | 7 | --- | 10 U | 10 U | 10 U | 100 U | 0.5 U | 0.5 U | 0.5 U | 2 U | 50 U | 0.5 U | 0.5 U |
| Chloromethane (Methyl Chloride) | 5 | --- | 10 U | 10 U | 10 U | 100 U | 1 U | 1 U | 1 U | 5 U | 100 U | 1 U | 1 U |
| cis-1,2-Dichloroethene | 5 | --- | --- | --- | --- | --- | 0.5 U | 0.5 U | 0.5 U | 2 J | 50 U | 0.5 U | 0.5 U |
| cis-1,3-Dichloropropene | 0.4 | --- | 10 U | 10 U | 10 U | 100 U | 0.5 U | 0.5 U | 0.5 U | 2 U | 50 U | 0.5 U | 0.5 U |
| Dibromochloromethane | 50 | --- | 10 U | 10 U | 10 U | 100 U | 0.5 U | 0.5 U | 0.5 U | 2 U | 50 U | 0.5 U | 0.5 U |
| Dibromomethane | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Ethane | NC | 11500 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Ethylbenzene | 5 | --- | 10 U | 10 U | 10 U | **12 J** | 0.5 U | 0.5 U | 0.5 U | 5 | **18 J** | 0.5 U | **17.4** |
| Ethene | NC | 100 U | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Iodomethane | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Methane | NC | 11100 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Methylene chloride | 5 | --- | 4 | 4 | **7 BJ** | **140 B** | 2 U | 2 U | 2 U | 10 U | 200 U | 2 U | 2 U |
| o-Xylene | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Styrene | 5 | --- | 10 U | 10 U | 10 U | 100 U | 0.5 U | 0.5 U | 0.5 U | 2 U | 50 U | 0.5 U | 0.5 U |
| Tetrachloroethene | 5 | --- | 10 U | 10 U | 10 U | **54 J** | 0.5 U | 0.5 U | 0.5 U | 2 U | **71** | 0.5 U | **77** |
| Toluene | 5 | --- | 10 U | 10 U | 10 U | **230** | 0.5 U | 0.5 U | 0.5 U | 2 U | **340** | 0.5 U | **358** |
| Total Btex | NC | --- | 10 U | 10 U | 10 U | 682 | 0.5 U | 0.5 U | 3 | 60 | 918 | 1 U | --- |
| trans-1,2-Dichloroethene | 5 | --- | --- | --- | --- | --- | 0.5 U | 0.5 U | 0.2 J | 5 | 50 U | 0.5 U | 0.5 U |
| trans-1,3-Dichloropropene | 0.4 | --- | 10 U | 10 U | 10 U | 100 U | 0.5 U | 0.5 U | 0.5 U | 2 U | 50 U | 0.5 U | 0.5 U |
| Trans-1,4-dichlorobutene | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Trichloroethene | 5 | --- | 10 U | 10 U | 10 U | **22 J** | 0.5 U | 0.5 U | 0.5 U | 4 | **26 J** | 0.5 U | **19.2** |
| Trichlorofluoromethane (CFC-11) | 5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Vinyl Acetate | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Vinyl chloride | 2 | --- | 10 U | 10 U | 10 U | 100 U | 1 U | 1 U | 1 U | 5 U | 100 U | 1 U | **3.38** |
| Xylene (m,p) | NC | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Xylene (total) | 5 | --- | 10 U | 10 U | 10 U | **90 J** | 0.5 U | 0.5 U | 0.5 U | **10** | **100** | 1 U | **108** |

**Notes:**
All units in micrograms per liter (µg/L)
[1] New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values, Revised June 1998.
**BOLD** - Exceedes New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values.
* - Elevation - ft amsl (ft bgs) [ft amsl - feet above mean sea level, ft bgs - feet below ground surface]
[2] Passive diffusion bags deployed 12/2/2005 and retrieved on 12/22/2005.
- Only wells with a discrete fracture or sampling interval have start and end depths.
- Well AMSF-MW-12S was found to be obstructed prior to the April/May 2010 sampling event. The obstruction was cleared prior to the September 2010 sampling event
- Well ITT-DBW-8 was inadvertently missed during the April/May 2010 Sampling Event.
- Well ITT-SBW-9 was inadvertently missed during sampling in April 2010 and consequently sampled in May 2010 when the mistake was identified.
NC - No criteria exists
U - Not Detected at the Detection Limit shown, J - Estimated value, UJ - Approximate Non-detect, B - Blank Contamination, BJ - Estimated Value Detected in Blank
--- Not Analyzed

**Table 5-4b**
**Groundwater Sample 1,4-Dioxane Results**
**Former ITT Rochester Form Machine Facility**
**Site #8-28-112**
**Town of Gates, New York**

| | Location Code | AMSF-MW-1D | AMSF-MW-1S | AMSF-MW-1S | AMSF-MW-1S | AMSF-MW-1S | AMSF-MW-1S | AMSF-MW-1S | AMSF-MW-1S | AMSF-MW-3D | AMSF-MW-3D | AMSF-MW-3D | AMSF-MW-3D | AMSF-MW-3D | AMSF-MW-3S |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | 11/16/2000 | 11/15/2000 | 11/16/2000 | 2/8/2005 | 8/31/2005 | 10/4/2005 | 4/23/2010 | 9/10/2010 | 11/16/2000 | 2/9/2005 | 9/28/2005 | 4/26/2010 | 9/13/2010 | 11/15/2000 |
| | Start Depth (ft) | | | | | | | | | | | | | | |
| | End Depth (ft) | | | | | | | | | | | | | | |
| **Analyte** | **Criteria** [1] | | | | | | | | | | | | | | |
| 1,4-Dioxane | NC | 8 J | 6 J | 10 U | 2 J | 1.1 J | 2 J | 1.1 | 2 U | 10 U | 3 J | 12 | 0.16 J | 2 U | 0.9 J |

| | Location Code | AMSF-MW-3S | AMSF-MW-3S | AMSF-MW-3S | AMSF-MW-3S | AMSF-MW-4 | AMSF-MW-4 | AMSF-MW-5D | AMSF-MW-5D | AMSF-MW-5D | AMSF-MW-5D | AMSF-MW-5D | AMSF-MW-5S | AMSF-MW-7 | AMSF-MW-7 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | 2/9/2005 | 9/30/2005 | 4/21/2010 | 9/8/2010 | 11/15/2000 | 10/4/2005 | 11/16/2000 | 2/9/2005 | 9/28/2005 | 4/26/2010 | 9/13/2010 | 11/15/2000 | 11/16/2000 | 2/8/2005 |
| | Start Depth (ft) | | | | | | | | | | | | | | |
| | End Depth (ft) | | | | | | | | | | | | | | |
| **Analyte** | **Criteria** [1] | | | | | | | | | | | | | | |
| 1,4-Dioxane | NC | 10 U | 10 U | 0.69 | 1.6 J | 5 J | 23 | 3 J | 10 U | 4.1 J | 8.3 | 9.2 | 10 | 12 | 3 J |

| | Location Code | AMSF-MW-7 | AMSF-MW-7 | AMSF-MW-7 | AMSF-MW-7 | AMSF-MW-8D | AMSF-MW-8D | AMSF-MW-8D | AMSF-MW-9S | AMSF-MW-9S | AMSF-MW-9S | AMSF-MW-9S | AMSF-MW-9S | AMSF-MW-9S | AMSF-MW-10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | 8/31/2005 | 10/4/2005 | 4/26/2010 | 9/9/2010 | 11/16/2000 | 2/8/2005 | 9/27/2005 | 11/15/2000 | 2/8/2005 | 8/31/2005 | 10/4/2005 | 4/21/2010 | 9/15/2010 | 11/15/2000 |
| | Start Depth (ft) | | | | | | | | | | | | | | |
| | End Depth (ft) | | | | | | | | | | | | | | |
| **Analyte** | **Criteria** [1] | | | | | | | | | | | | | | |
| 1,4-Dioxane | NC | 3.4 J | 2.2 J | 1.1 | 3 | 2 J | 10 U | 10 U | 75 | 39 | 160 | 110 | 130 | 250 | 10 U |

| | Location Code | AMSF-MW-10 | AMSF-MW-10 | AMSF-MW-11S | AMSF-MW-11S | AMSF-MW-11S | AMSF-MW-11S | AMSF-MW-12S | AMSF-MW-12S | AMSF-MW-12S | AMSF-MW-12S | AMSF-MW-13S | AMSF-MW-13S | AMSF-MW-13S | AMSF-MW-13S |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | 2/9/2005 | 10/4/2005 | 2/8/2005 | 10/4/2005 | 4/23/2010 | 9/9/2010 | 2/8/2005 | 8/31/2005 | 10/4/2005 | 9/9/2010 | 2/8/2005 | 8/31/2005 | 10/4/2005 | 4/23/2010 |
| | Start Depth (ft) | | | | | | | | | | | | | | |
| | End Depth (ft) | | | | | | | | | | | | | | |
| **Analyte** | **Criteria** [1] | | | | | | | | | | | | | | |
| 1,4-Dioxane | NC | 10 U | 10 U | 2 J | 16 | 3 | 2 U | 17 | 2.6 J | 26 | 3.7 | 15 | 8.2 J | 15 | 33 |

| | Location Code | AMSF-MW-13S | AMSF-MW-15I | AMSF-MW-15I | AMSF-MW-16I | AMSF-MW-16I | AMSF-MW-18MP | AMSF-RW-1 | AMSF-RW-1 | AMSF-RW-1 | AMSF-RW-1 | AMSF-RW-1 | AMSF-RW-1 | AMSF-RW-1 | AMSF-RW-1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | 9/10/2010 | 4/26/2010 | 9/9/2010 | 4/23/2010 | 9/9/2010 | 3/1/2010 | 11/16/2000 | 11/16/2000 | 11/16/2000 | 2/10/2005 | 2/10/2005 | 2/10/2005 | 2/16/2005 | 2/16/2005 |
| | Start Depth (ft) | | | | | | 419.4 (144) | 522.3 (36)* | 493.3 (65)* | 463.3 (95)* | 546.3 (12)* | 530.3 (28)* | 499.3 (59)* | 483.3 (75)* | 476.3 (82)* |
| | End Depth (ft) | | | | | | 419.4(144) | 522.3 (36)* | 493.3 (65)* | 463.3 (95)* | 546.3 (12)* | 530.3 (28)* | 499.3 (59)* | 483.3 (75)* | 476.3 (82)* |
| **Analyte** | **Criteria** [1] | | | | | | | | | | | | | | |
| 1,4-Dioxane | NC | 2 U | 0.23 | 2 U | 0.21 | 2 U | 6.8 | 11 U | 12 U | 12 U | 10 U | 10 U | 10 U | 10 U | 10 U |

| | Location Code | AMSF-RW-1 | AMSF-RW-1 | AMSF-RW-2 | AMSF-RW-2 | AMSF-RW-2 | AMSF-RW-2 | AMSF-RW-2 | AMSF-RW-2 | AMSF-RW-2 | AMSF-RW-3 | AMSF-RW-3 | AMSF-RW-3 | AMSF-RW-3 | AMSF-RW-3 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | 10/3/2005 | 10/3/2005 | 11/16/2000 | 11/16/2000 | 11/16/2000 | 11/16/2000 | 11/16/2000 | 11/16/2000 | 8/31/2005 | 11/16/2000 | 2/17/2005 | 2/17/2005 | 10/3/2005 | 10/3/2005 |
| | Start Depth (ft) | 546.3 (12)* | 476.3 (82)* | 462.1 (101)* | 414.1 (149)* | 538.1 (25)* | 526.1 (37)* | 493.1 (70)* | 563.1 (0)* | | 546.2 (19)* | 549.2 (16)* | 557.2 (8)* | 552.2 (13)* | 549.2 (16)* |
| | End Depth (ft) | 546.3 (12)* | 476.3 (82)* | 462.1 (101)* | 414.1 (149)* | 538.1 (25)* | 526.1 (37)* | 493.1 (70)* | 563.1 (0)* | | 546.2 (19)* | 549.2 (16)* | 557.2 (8)* | 552.2 (13)* | 549.2 (16)* |
| **Analyte** | **Criteria** [1] | | | | | | | | | | | | | | |
| 1,4-Dioxane | NC | 10 U | 10 U | 49 | 71 J | 20 | 11 | 20 J | 18 | 10 U | 2 J | 10 U | 10 U | 15 | 14 |

| | Location Code | AMSF-RW-4 | AMSF-RW-4 | AMSF-RW-4 | AMSF-RW-4 | AMSF-RW-5 | AMSF-RW-5 | AMSF-RW-5 | ITT-DBW-2 | ITT-DBW-2 | ITT-DBW-2 | ITT-DBW-2 | ITT-DBW-2 | ITT-DBW-5 | ITT-DBW-5 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | 11/16/2000 | 2/18/2005 | 2/18/2005 | 10/4/2005 | 2/10/2005 | 2/10/2005 | 10/4/2005 | 11/16/2000 | 2/7/2005 | 9/28/2005 | 4/28/2010 | 9/14/2010 | 11/16/2000 | 2/7/2005 |
| | Start Depth (ft) | 547.4 (19)* | 551.9 (14.5)* | 559.4 (7)* | | 554.4 (11)* | 556.4 (9)* | 554.4 (11)* | | | | | | | |
| | End Depth (ft) | 547.4 (19)* | 551.9 (14.5)* | 559.4 (7)* | | 554.4 (11)* | 556.4 (9)* | 554.4 (11)* | | | | | | | |
| **Analyte** | **Criteria** [1] | | | | | | | | | | | | | | |
| 1,4-Dioxane | NC | 11 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 2 J | 10 U | 2.4 J | 0.49 | 2 U | 10 U | 12 U |

**Notes:**
All units in micrograms per liter (µg/L)
* - Elevation - ft amsl (ft bgs) [ft amsl - feet above mean sea level, ft bgs - feet below ground surface
[1] There is no criteria under New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values, Revised June 1998
J - Estimated value
NC - No criteria exists
U - Not Detected at the Detection Limit shown
- Well AMSF-MW-12S was found to be obstructed prior to the April/May 2010 sampling event. The obstruction was cleared prior to the September 2010 sampling event
- Well ITT-DBW-8 was inadvertently missed during the April/May 2010 Sampling Event
- Well ITT-SBW-9 was inadvertently missed during sampling in April 2010 and consequently sampled in May 2010 when the mistake was identified
- Only wells with a discrete fracture or sampling interval have start and end depths

**Table 5-4b**
**Groundwater Sample 1,4-Dioxane Results**
**Former ITT Rochester Form Machine Facility**
**Site #8-28-112**
**Town of Gates, New York**

| | Location Code | ITT-DBW-5 | ITT-DBW-8 | ITT-DBW-8 | ITT-DBW-8 | ITT-DBW-8 | ITT-IBW-19 | ITT-IBW-19 | ITT-IBW-20 | ITT-IBW-20 | ITT-MW-1 | ITT-MW-1 | ITT-MW-1 | ITT-MW-2 | ITT-MW-4 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | 10/4/2005 | 6/29/1999 | 2/9/2005 | 9/30/2005 | 9/15/2010 | 4/20/2010 | 9/14/2010 | 4/22/2010 | 9/10/2010 | 8/3/1998 | 2/8/2005 | 9/30/2005 | 5/4/1999 | 2/9/2005 |
| | Start Depth (ft) | | | | | | | | | | | | | | |
| | End Depth (ft) | | | | | | | | | | | | | | |
| Analyte | Criteria [1] | | | | | | | | | | | | | | |
| 1,4-Dioxane | NC | 10 U | 180 U | 10 U | 10 U | 2 U | 0.19 U | 2 U | 0.25 J | 2 U | 10 U | 10 U | 10 U | 1,300 U | 8 J |

| | Location Code | ITT-SBW-1A | ITT-SBW-1A | ITT-SBW-1A | ITT-SBW-1A | ITT-SBW-1A | ITT-SBW-2 | ITT-SBW-2 | ITT-SBW-2 | ITT-SBW-2 | ITT-SBW-2 | ITT-SBW-2 | ITT-SBW-2 | ITT-SBW-2 | ITT-SBW-3 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | 5/3/1999 | 6/29/1999 | 11/16/2000 | 2/9/2005 | 9/30/2005 | 5/4/1999 | 6/30/1999 | 11/16/2000 | 2/7/2005 | 8/31/2005 | 9/30/2005 | 4/22/2010 | 9/10/2010 | 6/30/1999 |
| | Start Depth (ft) | | | | | | | | | | | | | | |
| | End Depth (ft) | | | | | | | | | | | | | | |
| Analyte | Criteria [1] | | | | | | | | | | | | | | |
| 1,4-Dioxane | NC | 1,800 U | 250 U | 140 | 10 U | 6.8 J | 1,800 U | 2,500 U | 2,400 | 3 J | 5 J | 10 U | 1.8 | 2 U | 2,500 U |

| | Location Code | ITT-SBW-4 | ITT-SBW-4 | ITT-SBW-4 | ITT-SBW-4 | ITT-SBW-4 | ITT-SBW-4 | ITT-SBW-4 | ITT-SBW-5A | ITT-SBW-5A | ITT-SBW-5A | ITT-SBW-5A | ITT-SBW-5A | ITT-SBW-5A | ITT-SBW-5A |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | 5/3/1999 | 6/29/1999 | 11/16/2000 | 2/8/2005 | 9/30/2005 | 4/21/2010 | 9/10/2010 | 5/3/1999 | 6/29/1999 | 11/16/2000 | 2/7/2005 | 9/27/2005 | 4/22/2010 | 9/15/2010 |
| | Start Depth (ft) | | | | | | | | | | | | | | |
| | End Depth (ft) | | | | | | | | | | | | | | |
| Analyte | Criteria [1] | | | | | | | | | | | | | | |
| 1,4-Dioxane | NC | 180 U | 50 U | 11 U | 11 U | 10 U | 0.19 U | 2 U | 180 U | 50 U | 3 J | 1 J | 10 U | 0.36 J | 2 U |

| | Location Code | ITT-SBW-6 | ITT-SBW-6 | ITT-SBW-6 | ITT-SBW-6 | ITT-SBW-6 | ITT-SBW-7 | ITT-SBW-7 | ITT-SBW-7 | ITT-SBW-7 | ITT-SBW-7 | ITT-SBW-7 | ITT-SBW-7 | ITT-SBW-7 | ITT-SBW-8 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | 5/3/1999 | 6/30/1999 | 11/16/2000 | 2/9/2005 | 9/30/2005 | 5/3/1999 | 6/30/1999 | 11/16/2000 | 2/9/2005 | 8/31/2005 | 9/30/2005 | 4/22/2010 | 9/16/2010 | 5/3/1999 |
| | Start Depth (ft) | | | | | | | | | | | | | | |
| | End Depth (ft) | | | | | | | | | | | | | | |
| Analyte | Criteria [1] | | | | | | | | | | | | | | |
| 1,4-Dioxane | NC | 900 U | 50 U | 17 | 3 J | 4 J | 90,000 U | 2,500 U | 1,100 | 10 U | 10 U | 10 U | 0.6 J | 2 U | 180 U |

| | Location Code | ITT-SBW-8 | ITT-SBW-8 | ITT-SBW-8 | ITT-SBW-8 | ITT-SBW-8 | ITT-SBW-9 | ITT-SBW-9 | ITT-SBW-9 | ITT-SBW-9 | ITT-SBW-9 | ITT-SBW-10 | ITT-SBW-10 | ITT-SBW-10 | ITT-SBW-10 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | 6/29/1999 | 2/8/2005 | 9/30/2005 | 4/21/2010 | 9/15/2010 | 2/7/2005 | 8/31/2005 | 9/30/2005 | 5/12/2010 | 9/15/2010 | 2/7/2005 | 9/27/2005 | 4/21/2010 | 9/14/2010 |
| | Start Depth (ft) | | | | | | | | | | | | | | |
| | End Depth (ft) | | | | | | | | | | | | | | |
| Analyte | Criteria [1] | | | | | | | | | | | | | | |
| 1,4-Dioxane | NC | 50 U | 10 U | 10 U | 0.19 U | 2 U | 2 J | 11 | 14 | 0.28 | 2 U | 2 J | 3 J | 2.4 | 2 U |

| | Location Code | ITT-SBW-11 | ITT-SBW-11 | ITT-SBW-12 | ITT-SBW-12 | ITT-SBW-13 | ITT-SBW-13 | ITT-SBW-13 | ITT-SBW-13 | ITT-SBW-13 | ITT-SBW-14 | ITT-SBW-14 | ITT-SBW-14 | ITT-SBW-14 | ITT-SBW-15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | 2/9/2005 | 10/4/2005 | 2/9/2005 | 10/4/2005 | 2/11/2005 | 8/31/2005 | 9/28/2005 | 4/20/2010 | 9/14/2010 | 2/11/2005 | 9/28/2005 | 4/20/2010 | 9/14/2010 | 2/11/2005 |
| | Start Depth (ft) | | | | | | | | | | | | | | |
| | End Depth (ft) | | | | | | | | | | | | | | |
| Analyte | Criteria [1] | | | | | | | | | | | | | | |
| 1,4-Dioxane | NC | 10 U | 2.6 J | 2 J | 3.7 J | 10 U | 3.4 J | 4.8 J | 0.72 | 2 U | 10 U | 10 U | 0.64 | 2 U | 10 U |

| | Location Code | ITT-SBW-15 | ITT-SBW-15 | ITT-SBW-15 | ITT-SBW-16 | ITT-SBW-16 | ITT-SBW-16 | ITT-SBW-16 | ITT-SBW-17 | ITT-SBW-17 | ITT-SBW-18 | ITT-SBW-18 | ITT-SBW-23 | ITT-SBW-23 | ITT-W-1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | 9/28/2005 | 4/20/2010 | 9/8/2010 | 2/11/2005 | 9/28/2005 | 4/20/2010 | 9/14/2010 | 4/19/2010 | 9/8/2010 | 4/19/2010 | 9/8/2010 | 4/21/2010 | 9/14/2010 | 11/11/1991 |
| | Start Depth (ft) | | | | | | | | | | | | | | |
| | End Depth (ft) | | | | | | | | | | | | | | |
| Analyte | Criteria [1] | | | | | | | | | | | | | | |
| 1,4-Dioxane | NC | 10 U | 0.18 J | 2 U | 10 U | 10 U | 0.19 U | 2 UJ | 0.23 | 2 U | 0.23 | 2 U | 0.92 J | 2 U | 1,600 |

**Notes:**
All units in micrograms per liter (µg/L)
* - Elevation - ft amsl (ft bgs) [ft amsl - feet above mean sea level, ft bgs - feet below ground surface
[1] There is no criteria under New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values, Revised June 1998
J - Estimated value
NC - No criteria exists
U - Not Detected at the Detection Limit shown
- Well AMSF-MW-12S was found to be obstructed prior to the April/May 2010 sampling event. The obstruction was cleared prior to the September 2010 sampling event
- Well ITT-DBW-8 was inadvertently missed during the April/May 2010 Sampling Event
- Well ITT-SBW-9 was inadvertently missed during sampling in April 2010 and consequently sampled in May 2010 when the mistake was identified
- Only wells with a discrete fracture or sampling interval have start and end depths

**Table 5-4b**
**Groundwater Sample 1,4-Dioxane Results**
**Former ITT Rochester Form Machine Facility**
**Site #8-28-112**
**Town of Gates, New York**

| | Location Code | ITT-W-1 | ITT-W-1 | ITT-W-1 | ITT-W-1 | ITT-W-1 | ITT-W-1 | ITT-W-1 | ITT-W-1 | ITT-W-1 | ITT-W-1 | ITT-W-1 | ITT-W-1 | ITT-W-1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Sample Date | 5/3/1999 | 6/29/1999 | 11/16/2000 | 11/16/2000 | 11/16/2000 | 11/16/2000 | 2/10/2005 | 2/10/2005 | 2/17/2005 | 2/17/2005 | 2/17/2005 | 10/3/2005 | 10/3/2005 |
| | Start Depth (ft) | 536.3 (25)* | 536.3 (25)* | 446.3 (140)* | 525.3 (36)* | 496.3 (65)* | 466.3 (95)* | 540.3 (21)* | 523.3 (38)* | 466.3 (95)* | 443.3 (118)* | 428.8 (132.5)* | 546.3 (15)* | 428.8 (132.5)* |
| | End Depth (ft) | 536.3 (25)* | 536.3 (25)* | 446.3 (140)* | 525.3 (36)* | 496.3 (65)* | 466.3 (95)* | 540.3 (21)* | 523.3 (38)* | 466.3 (95)* | 443.3 (118)* | 428.8 (132.5)* | 546.3 (15)* | 428.8 (132.5)* |
| **Analyte** | **Criteria** [1] | | | | | | | | | | | | | |
| 1,4-Dioxane | NC | 180 U | 50 U | 4 J | 11 U | 11 U | 12 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 |

**Notes:**
All units in micrograms per liter (µg/L)
* - Elevation - ft amsl (ft bgs)  [ft amsl - feet above mean sea level, ft bgs - feet below ground surface
[1] There is no criteria under New York State Department of Environmental Conservation, Technical and Operational Guidance Series (1.1.1), Class GA Standards and Guidance Values, Revised June 199
J - Estimated value
NC - No criteria exists
U - Not Detected at the Detection Limit shown
- Well AMSF-MW-12S was found to be obstructed prior to the April/May 2010 sampling event. The obstruction was cleared prior to the September 2010 sampling event
- Well ITT-DBW-8 was inadvertently missed during the April/May 2010 Sampling Event
- Well ITT-SBW-9 was inadvertently missed during sampling in April 2010 and consequently sampled in May 2010 when the mistake was identifiec
- Only wells with a discrete fracture or sampling interval have start and end depths