Geosyntec consultants

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September 8, 2017

Mr. Russ Wilson
Lou's Auto Body Carstar
3940 South 13th Street
Milwaukee, WI 53221-1725

**RE: Transmittal of Groundwater Analytical Results for Lou's Auto Body Carstar Property, 3940 South 13th Street, Milwaukee, Wisconsin, BRRTS# 02-41-287051, FID# 241238360**

Dear Mr. Wilson:

Attached are the laboratory results for groundwater samples collected from your property in August 2017. The samples were collected pursuant to the 9 December 2013 letter from Geosyntec Consultants (Geosyntec) to Carstar and subsequent electronic mail correspondence. Three locations (MW-23, P-23M and P-23D) were sampled and submitted to Pace Analytical Laboratory (Wisconsin Certification #: 405132750) for analysis of volatile organic compounds (VOCs), methane, ethane, ethene and total organic carbon. For quality assurance/quality control purposes, a duplicate sample of MW-23 was collected and submitted for laboratory VOC analysis. A copy of the laboratory analytical report is attached. A copy of this letter has been provided to the WDNR for the Erie Manufacturing project case file.

Thank you for providing access to the Carstar property. Please contact Schneider Electric if you have any questions.

Sincerely,

James E Bannantine

Jim Bannantine, P.G.
Senior Geologist

Attached Laboratory Analytical Report (Pace Analytical)

Copies:
Victoria Stovall, Project Assistant, Wisconsin Department of Natural Resources
Duane Wanty, Director of Environmental Affairs, Schneider Electric
Mark Sylvester, ATS2, LLC

## Legend

- Monitoring Well
- Piezometer

20 10 0 20 40 Feet

# Monitoring Wells and Piezometers at CarStar

**3940 South 13th Street**
**Milwaukee, WI**

Geosyntec consultants

Milwaukee, Wisconsin | 21-April-2014

Figure 1

Note:
- Aerial obtained from Milwaukee County Land Management Department.

Q:\GISProjects\CHW8232_INV_Milwaukee\Projects\2013\CarStarLocations_2014update.mxd

**Summary of Groundwater Sample Analytical Results**
**August 2017**
**CarStar Property**
**3940 South 13th Street**
**Milwaukee, WI 53221**
**BRRTS # 02-41-287051**

| Well/Piezometer Identification | | | MW-23 | MW-23 DUP | P-23M | P-23D |
|---|---|---|---|---|---|---|
| Well Screen Depth (ft bgs) | | | 10-20 | 10-20 | 52.5-57.5 | 104-109 |
| Sample Date | | | 8/2/2017 | 8/2/2017 | 8/2/2017 | 8/2/2017 |
| Detected VOCs (ug/l) | ES[1] (ug/l) | *PAL[2] (ug/l)* | | | | |
| Benzene | **5** | *0.5* | <0.50 | <0.50 | <0.50 | <0.50 |
| Bromobenzene | **NS** | *NS* | <0.23 | <0.23 | <0.23 | <0.23 |
| Bromochloromethane | **NS** | *NS* | <0.34 | <0.34 | <0.34 | <0.34 |
| Bromodichloromethane | **0.6** | *0.06* | <0.50 | <0.50 | <0.50 | <0.50 |
| Bromoform | **4.4** | *0.44* | <0.50 | <0.50 | <0.50 | <0.50 |
| Bromomethane | **10** | *1* | <2.4 | <2.4 | <2.4 | <2.4 |
| n-Butylbenzene | **NS** | *NS* | <0.50 | <0.50 | <0.50 | <0.50 |
| sec-Butylbenzene | **NS** | *NS* | <2.2 | <2.2 | <2.2 | <2.2 |
| tert-Butylbenzene | **NS** | *NS* | <0.18 | <0.18 | <0.18 | <0.18 |
| Carbon Tetrachloride | **5** | *0.5* | <0.50 | <0.50 | <0.50 | <0.50 |
| Chlorobenzene | **NS** | *NS* | <0.50 | <0.50 | <0.50 | <0.50 |
| Chloroethane | **400** | *80* | <0.37 | <0.37 | <0.37 | <0.37 |
| Chloroform | **6** | *0.6* | <2.5 | <2.5 | <2.5 | <2.5 |
| Chloromethane | **30** | *3* | <0.50 | <0.50 | <0.50 | <0.50 |
| 2-Chlorotoluene | **NS** | *NS* | <0.50 | <0.50 | <0.50 | <0.50 |
| 4-Chlorotoluene | **NS** | *NS* | <0.21 | <0.21 | <0.21 | <0.21 |
| 1,2-Dibromo-3-chloropropane | **0.2** | *0.02* | <2.2 | <2.2 | <2.2 | <2.2 |
| Dibromochloromethane | **60** | *6* | <0.50 | <0.50 | <0.50 | <0.50 |
| 1,2-Dibromoethane (EDB) | **0.05** | *0.005* | <0.18 | <0.18 | <0.18 | <0.18 |
| Dibromomethane | **NS** | *NS* | <0.43 | <0.43 | <0.43 | <0.43 |
| 1,2-Dichlorobenzene | **600** | *60* | <0.50 | <0.50 | <0.50 | <0.50 |
| 1,3-Dichlorobenzene | **1,250** | *125* | <0.50 | <0.50 | <0.50 | <0.50 |
| 1,4-Dichlorobenzene | **75** | *15* | <0.50 | <0.50 | <0.50 | <0.50 |
| Dichlorodifluoromethane | **1,000** | *200* | <0.22 | <0.22 | <0.22 | <0.22 |
| 1,1-Dichloroethane | **850** | *85* | <0.24 | <0.24 | <0.24 | <0.24 |
| 1,2-Dichloroethane | **5** | *0.5* | <0.17 | <0.17 | <0.17 | <0.17 |
| 1,1-Dichloroethene | **7** | *0.7* | <0.41 | <0.41 | <0.41 | <0.41 |
| cis-1,2-Dichloroethene | **70** | *7* | 0.80J | 0.73J | <0.26 | <0.26 |
| trans-1,2-Dichloroethene | **100** | *20* | <0.26 | <0.26 | <0.26 | <0.26 |
| 1,2-Dichloropropane | **5** | *0.5* | <0.23 | <0.23 | <0.23 | <0.23 |
| 1,3-Dichloropropane | **NS** | *NS* | <0.50 | <0.50 | <0.50 | <0.50 |
| 2,2-Dichloropropane | **NS** | *NS* | <0.48 | <0.48 | <0.48 | <0.48 |
| 1,1-Dichloropropene | **NS** | *NS* | <0.44 | <0.44 | <0.44 | <0.44 |
| cis-1,3-Dichloropropene | **0.2** | *0.02* | <0.50 | <0.50 | <0.50 | <0.50 |
| trans-1,3-Dichloropropene | **0.2** | *0.02* | <0.23 | <0.23 | <0.23 | <0.23 |
| Di-Isopropyl ether | **NS** | *NS* | <0.50 | <0.50 | <0.50 | <0.50 |
| Ethylbenzene | **700** | *140* | <0.50 | <0.50 | <0.50 | <0.50 |
| Hexachlorobutadiene | **NS** | *NS* | <2.1 | <2.1 | <2.1 | <2.1 |
| Isopropylbenzene | **NS** | *NS* | <0.14 | <0.14 | <0.14 | <0.14 |
| p-Isopropyltoluene | **NS** | *NS* | <0.50 | <0.50 | <0.50 | <0.50 |
| Methylene chloride | **5** | *0.5* | <0.23 | <0.23 | <0.23 | <0.23 |
| MTBE | **60** | *12* | <0.17 | <0.17 | <0.17 | <0.17 |
| Naphthalene | **100** | *10* | <2.5 | <2.5 | <2.5 | <2.5 |
| n-Propylbenzene | **NS** | *NS* | <0.50 | <0.50 | <0.50 | <0.50 |
| Styrene | **100** | *10* | <0.50 | <0.50 | <0.50 | <0.50 |
| 1,1,1,2-Tetrachloroethane | **70** | *7* | <0.18 | <0.18 | <0.18 | <0.18 |
| 1,1,2,2-Tetrachloroethane | **0.2** | *0.02* | <0.25 | <0.25 | <0.25 | <0.25 |
| Tetrachloroethene | **5** | *0.5* | <0.50 | <0.50 | <0.50 | <0.50 |
| Toluene | **1,000** | *200* | <0.50 | <0.50 | <0.50 | <0.50 |
| 1,2,3-Trichlorobenzene | **NS** | *NS* | <2.1 | <2.1 | <2.1 | <2.1 |
| 1,2,4-Trichlorobenzene | **70** | *14* | <2.2 | <2.2 | <2.2 | <2.2 |
| 1,1,1-Trichloroethane | **200** | *40* | <0.50 | <0.50 | <0.50 | <0.50 |
| 1,1,2-Trichloroethane | **5** | *0.5* | <0.20 | <0.20 | <0.20 | <0.20 |
| Trichloroethene | **5** | *0.5* | <0.33 | <0.33 | <0.33 | <0.33 |
| Trichlorofluoromethane | **3,490** | *698* | <0.18 | <0.18 | <0.18 | <0.18 |
| 1,2,3-Trichloropropane | **60** | *12* | <0.50 | <0.50 | <0.50 | <0.50 |
| 1,2,4-Trimethylbenzene | **480*** | *96** | <0.50 | <0.50 | <0.50 | <0.50 |
| 1,3,5-Trimethylbenzene | | | <0.50 | <0.50 | <0.50 | <0.50 |
| Vinyl Chloride | **0.2** | *0.02* | **6.8** | **6.3** | <0.18 | <0.18 |
| m&p-Xylene | **2,000**** | *400*** | <1.0 | <1.0 | <1.0 | <1.0 |
| o-Xylene | | | <0.50 | <0.50 | <0.50 | <0.50 |
| Xylenes, Total | **2,000**** | *400*** | <1.50 | <1.50 | <1.50 | <1.50 |
| **Attenuation Analytes (ug/l)** | | | | | | |
| Total Organic Carbon | **NS** | *NS* | 3,700 | - | 1,500 | 490J |
| Ethane | **NS** | *NS* | <0.58 | - | <0.58 | <0.58 |
| Ethene | **NS** | *NS* | 1.3J | - | <0.52 | 1.8J |
| Methane | **NS** | *NS* | 54.4 | - | 13.5 | 4.8 |

Notes:
1. Wisconsin Administrative Code Chapter NR 140 Enforcement Standard. Concentrations that are bold exceed the ES.
2. Wisconsin Administrative Code Chapter NR 140 Preventative Action Limit. Concentrations in italics exceed the PAL.
NS = no NR 140 standard published.
J or Q - estimated value
* The ES and PAL for trimethylbenzenes applies to the sum of the 1,2,4- and 1,3,5- isomers
** The ES and PAL for xylenes applies to the sum of the m-, p- and o-isomers
VOCs - Volatile Organic Compounds
ug/L - micrograms per Liter

**Pace Analytical Services, LLC**
1241 Bellevue Street - Suite 9
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(920)469-2436

August 24, 2017

Jim Bannantine
GEOSYNTEC CONSULTANTS
10600 North Port Washington Rd
Suite 100
Thiensville, WI 53092

RE: Project: CHW8232F FORMER ERIE MFG
Pace Project No.: 40154792

Dear Jim Bannantine:
Enclosed are the analytical results for sample(s) received by the laboratory on August 10, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Brian Basten
brian.basten@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Jeremiah Johnson, GEOSYNTEC CONSULTANTS



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## CERTIFICATIONS

Project: CHW8232F FORMER ERIE MFG
Pace Project No.: 40154792

**Green Bay Certification IDs**

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: CHW8232F FORMER ERIE MFG
Pace Project No.: 40154792

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|---|---|---|---|---|
| **40154792001** | **MW023** | Water | 08/02/17 12:30 | 08/10/17 10:30 |
| **40154792002** | **MW023 DUP** | Water | 08/02/17 12:30 | 08/10/17 10:30 |
| **40154792003** | **P-23M** | Water | 08/02/17 11:30 | 08/10/17 10:30 |
| **40154792004** | **P-23D** | Water | 08/02/17 13:20 | 08/10/17 10:30 |



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## SAMPLE ANALYTE COUNT

Project: CHW8232F FORMER ERIE MFG
Pace Project No.: 40154792

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|---|---|---|---|---|
| **40154792001** | **MW023** | EPA 8015B Modified | ALD | 3 |
| | | EPA 8260 | HNW | 64 |
| | | EPA 9060 | TJJ | 5 |
| **40154792002** | **MW023 DUP** | EPA 8260 | HNW | 64 |
| **40154792003** | **P-23M** | EPA 8015B Modified | ALD | 3 |
| | | EPA 8260 | HNW | 64 |
| | | EPA 9060 | TJJ | 5 |
| **40154792004** | **P-23D** | EPA 8015B Modified | ALD | 3 |
| | | EPA 8260 | HNW | 64 |
| | | EPA 9060 | TJJ | 5 |



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## ANALYTICAL RESULTS

Project: CHW8232F FORMER ERIE MFG
Pace Project No.: 40154792

**Sample: MW023** **Lab ID: 40154792001** Collected: 08/02/17 12:30 Received: 08/10/17 10:30 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Methane, Ethane, Ethene GCV** | Analytical Method: EPA 8015B Modified | | | | | | | | |
| Ethane | **<0.58** | ug/L | 5.6 | 0.58 | 1 | | 08/14/17 11:59 | 74-84-0 | |
| Ethene | **1.3J** | ug/L | 5.0 | 0.52 | 1 | | 08/14/17 11:59 | 74-85-1 | |
| Methane | **54.4** | ug/L | 2.8 | 1.4 | 1 | | 08/14/17 11:59 | 74-82-8 | HS |
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| Benzene | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 14:15 | 71-43-2 | |
| Bromobenzene | **<0.23** | ug/L | 1.0 | 0.23 | 1 | | 08/14/17 14:15 | 108-86-1 | |
| Bromochloromethane | **<0.34** | ug/L | 1.0 | 0.34 | 1 | | 08/14/17 14:15 | 74-97-5 | |
| Bromodichloromethane | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 14:15 | 75-27-4 | |
| Bromoform | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 14:15 | 75-25-2 | |
| Bromomethane | **<2.4** | ug/L | 5.0 | 2.4 | 1 | | 08/14/17 14:15 | 74-83-9 | |
| n-Butylbenzene | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 14:15 | 104-51-8 | |
| sec-Butylbenzene | **<2.2** | ug/L | 5.0 | 2.2 | 1 | | 08/14/17 14:15 | 135-98-8 | |
| tert-Butylbenzene | **<0.18** | ug/L | 1.0 | 0.18 | 1 | | 08/14/17 14:15 | 98-06-6 | |
| Carbon tetrachloride | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 14:15 | 56-23-5 | |
| Chlorobenzene | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 14:15 | 108-90-7 | |
| Chloroethane | **<0.37** | ug/L | 1.0 | 0.37 | 1 | | 08/14/17 14:15 | 75-00-3 | |
| Chloroform | **<2.5** | ug/L | 5.0 | 2.5 | 1 | | 08/14/17 14:15 | 67-66-3 | |
| Chloromethane | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 14:15 | 74-87-3 | |
| 2-Chlorotoluene | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 14:15 | 95-49-8 | |
| 4-Chlorotoluene | **<0.21** | ug/L | 1.0 | 0.21 | 1 | | 08/14/17 14:15 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | **<2.2** | ug/L | 5.0 | 2.2 | 1 | | 08/14/17 14:15 | 96-12-8 | |
| Dibromochloromethane | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 14:15 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | **<0.18** | ug/L | 1.0 | 0.18 | 1 | | 08/14/17 14:15 | 106-93-4 | |
| Dibromomethane | **<0.43** | ug/L | 1.0 | 0.43 | 1 | | 08/14/17 14:15 | 74-95-3 | |
| 1,2-Dichlorobenzene | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 14:15 | 95-50-1 | |
| 1,3-Dichlorobenzene | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 14:15 | 541-73-1 | |
| 1,4-Dichlorobenzene | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 14:15 | 106-46-7 | |
| Dichlorodifluoromethane | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 08/14/17 14:15 | 75-71-8 | |
| 1,1-Dichloroethane | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 08/14/17 14:15 | 75-34-3 | |
| 1,2-Dichloroethane | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 08/14/17 14:15 | 107-06-2 | |
| 1,1-Dichloroethene | **<0.41** | ug/L | 1.0 | 0.41 | 1 | | 08/14/17 14:15 | 75-35-4 | |
| cis-1,2-Dichloroethene | **0.80J** | ug/L | 1.0 | 0.26 | 1 | | 08/14/17 14:15 | 156-59-2 | |
| trans-1,2-Dichloroethene | **<0.26** | ug/L | 1.0 | 0.26 | 1 | | 08/14/17 14:15 | 156-60-5 | |
| 1,2-Dichloropropane | **<0.23** | ug/L | 1.0 | 0.23 | 1 | | 08/14/17 14:15 | 78-87-5 | |
| 1,3-Dichloropropane | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 14:15 | 142-28-9 | |
| 2,2-Dichloropropane | **<0.48** | ug/L | 1.0 | 0.48 | 1 | | 08/14/17 14:15 | 594-20-7 | |
| 1,1-Dichloropropene | **<0.44** | ug/L | 1.0 | 0.44 | 1 | | 08/14/17 14:15 | 563-58-6 | |
| cis-1,3-Dichloropropene | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 14:15 | 10061-01-5 | |
| trans-1,3-Dichloropropene | **<0.23** | ug/L | 1.0 | 0.23 | 1 | | 08/14/17 14:15 | 10061-02-6 | |
| Diisopropyl ether | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 14:15 | 108-20-3 | |
| Ethylbenzene | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 14:15 | 100-41-4 | |
| Hexachloro-1,3-butadiene | **<2.1** | ug/L | 5.0 | 2.1 | 1 | | 08/14/17 14:15 | 87-68-3 | |
| Isopropylbenzene (Cumene) | **<0.14** | ug/L | 1.0 | 0.14 | 1 | | 08/14/17 14:15 | 98-82-8 | |
| p-Isopropyltoluene | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 14:15 | 99-87-6 | |
| Methylene Chloride | **<0.23** | ug/L | 1.0 | 0.23 | 1 | | 08/14/17 14:15 | 75-09-2 | |

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: CHW8232F FORMER ERIE MFG
Pace Project No.: 40154792

**Sample: MW023** **Lab ID: 40154792001** Collected: 08/02/17 12:30 Received: 08/10/17 10:30 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| Methyl-tert-butyl ether | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 08/14/17 14:15 | 1634-04-4 | |
| Naphthalene | **<2.5** | ug/L | 5.0 | 2.5 | 1 | | 08/14/17 14:15 | 91-20-3 | |
| n-Propylbenzene | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 14:15 | 103-65-1 | |
| Styrene | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 14:15 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | **<0.18** | ug/L | 1.0 | 0.18 | 1 | | 08/14/17 14:15 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | **<0.25** | ug/L | 1.0 | 0.25 | 1 | | 08/14/17 14:15 | 79-34-5 | |
| Tetrachloroethene | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 14:15 | 127-18-4 | |
| Toluene | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 14:15 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | **<2.1** | ug/L | 5.0 | 2.1 | 1 | | 08/14/17 14:15 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | **<2.2** | ug/L | 5.0 | 2.2 | 1 | | 08/14/17 14:15 | 120-82-1 | |
| 1,1,1-Trichloroethane | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 14:15 | 71-55-6 | |
| 1,1,2-Trichloroethane | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 08/14/17 14:15 | 79-00-5 | |
| Trichloroethene | **<0.33** | ug/L | 1.0 | 0.33 | 1 | | 08/14/17 14:15 | 79-01-6 | |
| Trichlorofluoromethane | **<0.18** | ug/L | 1.0 | 0.18 | 1 | | 08/14/17 14:15 | 75-69-4 | |
| 1,2,3-Trichloropropane | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 14:15 | 96-18-4 | |
| 1,2,4-Trimethylbenzene | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 14:15 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 14:15 | 108-67-8 | |
| Vinyl chloride | **6.8** | ug/L | 1.0 | 0.18 | 1 | | 08/14/17 14:15 | 75-01-4 | |
| m&p-Xylene | **<1.0** | ug/L | 2.0 | 1.0 | 1 | | 08/14/17 14:15 | 179601-23-1 | |
| o-Xylene | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 14:15 | 95-47-6 | |
| ***Surrogates*** | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 94 | % | 61-130 | | 1 | | 08/14/17 14:15 | 460-00-4 | HS |
| Dibromofluoromethane (S) | 107 | % | 67-130 | | 1 | | 08/14/17 14:15 | 1868-53-7 | |
| Toluene-d8 (S) | 99 | % | 70-130 | | 1 | | 08/14/17 14:15 | 2037-26-5 | |
| **Total Organic Carbon** | Analytical Method: EPA 9060 | | | | | | | | |
| Total Organic Carbon | **3.6** | mg/L | 0.85 | 0.25 | 1 | | 08/19/17 04:04 | 7440-44-0 | |
| Total Organic Carbon | **3.7** | mg/L | 0.85 | 0.25 | 1 | | 08/19/17 04:04 | 7440-44-0 | |
| Total Organic Carbon | **3.7** | mg/L | 0.85 | 0.25 | 1 | | 08/19/17 04:04 | 7440-44-0 | |
| Total Organic Carbon | **3.7** | mg/L | 0.85 | 0.25 | 1 | | 08/19/17 04:04 | 7440-44-0 | |
| Mean Total Organic Carbon | **3.7** | mg/L | 0.85 | 0.25 | 1 | | 08/19/17 04:04 | 7440-44-0 | |

**Sample: MW023 DUP** **Lab ID: 40154792002** Collected: 08/02/17 12:30 Received: 08/10/17 10:30 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| Benzene | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 14:38 | 71-43-2 | |
| Bromobenzene | **<0.23** | ug/L | 1.0 | 0.23 | 1 | | 08/14/17 14:38 | 108-86-1 | |
| Bromochloromethane | **<0.34** | ug/L | 1.0 | 0.34 | 1 | | 08/14/17 14:38 | 74-97-5 | |
| Bromodichloromethane | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 14:38 | 75-27-4 | |
| Bromoform | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 14:38 | 75-25-2 | |
| Bromomethane | **<2.4** | ug/L | 5.0 | 2.4 | 1 | | 08/14/17 14:38 | 74-83-9 | |
| n-Butylbenzene | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 14:38 | 104-51-8 | |

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(920)469-2436

## ANALYTICAL RESULTS

Project: CHW8232F FORMER ERIE MFG
Pace Project No.: 40154792

**Sample: MW023 DUP** **Lab ID: 40154792002** Collected: 08/02/17 12:30 Received: 08/10/17 10:30 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| sec-Butylbenzene | **<2.2** | ug/L | 5.0 | 2.2 | 1 | | 08/14/17 14:38 | 135-98-8 | |
| tert-Butylbenzene | **<0.18** | ug/L | 1.0 | 0.18 | 1 | | 08/14/17 14:38 | 98-06-6 | |
| Carbon tetrachloride | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 14:38 | 56-23-5 | |
| Chlorobenzene | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 14:38 | 108-90-7 | |
| Chloroethane | **<0.37** | ug/L | 1.0 | 0.37 | 1 | | 08/14/17 14:38 | 75-00-3 | |
| Chloroform | **<2.5** | ug/L | 5.0 | 2.5 | 1 | | 08/14/17 14:38 | 67-66-3 | |
| Chloromethane | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 14:38 | 74-87-3 | |
| 2-Chlorotoluene | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 14:38 | 95-49-8 | |
| 4-Chlorotoluene | **<0.21** | ug/L | 1.0 | 0.21 | 1 | | 08/14/17 14:38 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | **<2.2** | ug/L | 5.0 | 2.2 | 1 | | 08/14/17 14:38 | 96-12-8 | |
| Dibromochloromethane | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 14:38 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | **<0.18** | ug/L | 1.0 | 0.18 | 1 | | 08/14/17 14:38 | 106-93-4 | |
| Dibromomethane | **<0.43** | ug/L | 1.0 | 0.43 | 1 | | 08/14/17 14:38 | 74-95-3 | |
| 1,2-Dichlorobenzene | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 14:38 | 95-50-1 | |
| 1,3-Dichlorobenzene | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 14:38 | 541-73-1 | |
| 1,4-Dichlorobenzene | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 14:38 | 106-46-7 | |
| Dichlorodifluoromethane | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 08/14/17 14:38 | 75-71-8 | |
| 1,1-Dichloroethane | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 08/14/17 14:38 | 75-34-3 | |
| 1,2-Dichloroethane | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 08/14/17 14:38 | 107-06-2 | |
| 1,1-Dichloroethene | **<0.41** | ug/L | 1.0 | 0.41 | 1 | | 08/14/17 14:38 | 75-35-4 | |
| cis-1,2-Dichloroethene | **0.73J** | ug/L | 1.0 | 0.26 | 1 | | 08/14/17 14:38 | 156-59-2 | |
| trans-1,2-Dichloroethene | **<0.26** | ug/L | 1.0 | 0.26 | 1 | | 08/14/17 14:38 | 156-60-5 | |
| 1,2-Dichloropropane | **<0.23** | ug/L | 1.0 | 0.23 | 1 | | 08/14/17 14:38 | 78-87-5 | |
| 1,3-Dichloropropane | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 14:38 | 142-28-9 | |
| 2,2-Dichloropropane | **<0.48** | ug/L | 1.0 | 0.48 | 1 | | 08/14/17 14:38 | 594-20-7 | |
| 1,1-Dichloropropene | **<0.44** | ug/L | 1.0 | 0.44 | 1 | | 08/14/17 14:38 | 563-58-6 | |
| cis-1,3-Dichloropropene | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 14:38 | 10061-01-5 | |
| trans-1,3-Dichloropropene | **<0.23** | ug/L | 1.0 | 0.23 | 1 | | 08/14/17 14:38 | 10061-02-6 | |
| Diisopropyl ether | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 14:38 | 108-20-3 | |
| Ethylbenzene | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 14:38 | 100-41-4 | |
| Hexachloro-1,3-butadiene | **<2.1** | ug/L | 5.0 | 2.1 | 1 | | 08/14/17 14:38 | 87-68-3 | |
| Isopropylbenzene (Cumene) | **<0.14** | ug/L | 1.0 | 0.14 | 1 | | 08/14/17 14:38 | 98-82-8 | |
| p-Isopropyltoluene | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 14:38 | 99-87-6 | |
| Methylene Chloride | **<0.23** | ug/L | 1.0 | 0.23 | 1 | | 08/14/17 14:38 | 75-09-2 | |
| Methyl-tert-butyl ether | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 08/14/17 14:38 | 1634-04-4 | |
| Naphthalene | **<2.5** | ug/L | 5.0 | 2.5 | 1 | | 08/14/17 14:38 | 91-20-3 | |
| n-Propylbenzene | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 14:38 | 103-65-1 | |
| Styrene | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 14:38 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | **<0.18** | ug/L | 1.0 | 0.18 | 1 | | 08/14/17 14:38 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | **<0.25** | ug/L | 1.0 | 0.25 | 1 | | 08/14/17 14:38 | 79-34-5 | |
| Tetrachloroethene | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 14:38 | 127-18-4 | |
| Toluene | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 14:38 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | **<2.1** | ug/L | 5.0 | 2.1 | 1 | | 08/14/17 14:38 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | **<2.2** | ug/L | 5.0 | 2.2 | 1 | | 08/14/17 14:38 | 120-82-1 | |
| 1,1,1-Trichloroethane | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 14:38 | 71-55-6 | |
| 1,1,2-Trichloroethane | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 08/14/17 14:38 | 79-00-5 | |

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## ANALYTICAL RESULTS

Project: CHW8232F FORMER ERIE MFG
Pace Project No.: 40154792

**Sample: MW023 DUP** **Lab ID: 40154792002** Collected: 08/02/17 12:30 Received: 08/10/17 10:30 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| Trichloroethene | **<0.33** | ug/L | 1.0 | 0.33 | 1 | | 08/14/17 14:38 | 79-01-6 | |
| Trichlorofluoromethane | **<0.18** | ug/L | 1.0 | 0.18 | 1 | | 08/14/17 14:38 | 75-69-4 | |
| 1,2,3-Trichloropropane | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 14:38 | 96-18-4 | |
| 1,2,4-Trimethylbenzene | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 14:38 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 14:38 | 108-67-8 | |
| Vinyl chloride | **6.3** | ug/L | 1.0 | 0.18 | 1 | | 08/14/17 14:38 | 75-01-4 | |
| m&p-Xylene | **<1.0** | ug/L | 2.0 | 1.0 | 1 | | 08/14/17 14:38 | 179601-23-1 | |
| o-Xylene | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 14:38 | 95-47-6 | |
| ***Surrogates*** | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 94 | % | 61-130 | | 1 | | 08/14/17 14:38 | 460-00-4 | HS |
| Dibromofluoromethane (S) | 106 | % | 67-130 | | 1 | | 08/14/17 14:38 | 1868-53-7 | |
| Toluene-d8 (S) | 101 | % | 70-130 | | 1 | | 08/14/17 14:38 | 2037-26-5 | |

**Sample: P-23M** **Lab ID: 40154792003** Collected: 08/02/17 11:30 Received: 08/10/17 10:30 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Methane, Ethane, Ethene GCV** | Analytical Method: EPA 8015B Modified | | | | | | | | |
| Ethane | **<0.58** | ug/L | 5.6 | 0.58 | 1 | | 08/14/17 12:06 | 74-84-0 | |
| Ethene | **<0.52** | ug/L | 5.0 | 0.52 | 1 | | 08/14/17 12:06 | 74-85-1 | |
| Methane | **13.5** | ug/L | 2.8 | 1.4 | 1 | | 08/14/17 12:06 | 74-82-8 | HS |
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| Benzene | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 15:00 | 71-43-2 | |
| Bromobenzene | **<0.23** | ug/L | 1.0 | 0.23 | 1 | | 08/14/17 15:00 | 108-86-1 | |
| Bromochloromethane | **<0.34** | ug/L | 1.0 | 0.34 | 1 | | 08/14/17 15:00 | 74-97-5 | |
| Bromodichloromethane | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 15:00 | 75-27-4 | |
| Bromoform | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 15:00 | 75-25-2 | |
| Bromomethane | **<2.4** | ug/L | 5.0 | 2.4 | 1 | | 08/14/17 15:00 | 74-83-9 | |
| n-Butylbenzene | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 15:00 | 104-51-8 | |
| sec-Butylbenzene | **<2.2** | ug/L | 5.0 | 2.2 | 1 | | 08/14/17 15:00 | 135-98-8 | |
| tert-Butylbenzene | **<0.18** | ug/L | 1.0 | 0.18 | 1 | | 08/14/17 15:00 | 98-06-6 | |
| Carbon tetrachloride | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 15:00 | 56-23-5 | |
| Chlorobenzene | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 15:00 | 108-90-7 | |
| Chloroethane | **<0.37** | ug/L | 1.0 | 0.37 | 1 | | 08/14/17 15:00 | 75-00-3 | |
| Chloroform | **<2.5** | ug/L | 5.0 | 2.5 | 1 | | 08/14/17 15:00 | 67-66-3 | |
| Chloromethane | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 15:00 | 74-87-3 | |
| 2-Chlorotoluene | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 15:00 | 95-49-8 | |
| 4-Chlorotoluene | **<0.21** | ug/L | 1.0 | 0.21 | 1 | | 08/14/17 15:00 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | **<2.2** | ug/L | 5.0 | 2.2 | 1 | | 08/14/17 15:00 | 96-12-8 | |
| Dibromochloromethane | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 15:00 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | **<0.18** | ug/L | 1.0 | 0.18 | 1 | | 08/14/17 15:00 | 106-93-4 | |
| Dibromomethane | **<0.43** | ug/L | 1.0 | 0.43 | 1 | | 08/14/17 15:00 | 74-95-3 | |
| 1,2-Dichlorobenzene | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 15:00 | 95-50-1 | |

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## ANALYTICAL RESULTS

Project: CHW8232F FORMER ERIE MFG
Pace Project No.: 40154792

**Sample: P-23M** **Lab ID: 40154792003** Collected: 08/02/17 11:30 Received: 08/10/17 10:30 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| 1,3-Dichlorobenzene | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 15:00 | 541-73-1 | |
| 1,4-Dichlorobenzene | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 15:00 | 106-46-7 | |
| Dichlorodifluoromethane | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 08/14/17 15:00 | 75-71-8 | |
| 1,1-Dichloroethane | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 08/14/17 15:00 | 75-34-3 | |
| 1,2-Dichloroethane | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 08/14/17 15:00 | 107-06-2 | |
| 1,1-Dichloroethene | **<0.41** | ug/L | 1.0 | 0.41 | 1 | | 08/14/17 15:00 | 75-35-4 | |
| cis-1,2-Dichloroethene | **<0.26** | ug/L | 1.0 | 0.26 | 1 | | 08/14/17 15:00 | 156-59-2 | |
| trans-1,2-Dichloroethene | **<0.26** | ug/L | 1.0 | 0.26 | 1 | | 08/14/17 15:00 | 156-60-5 | |
| 1,2-Dichloropropane | **<0.23** | ug/L | 1.0 | 0.23 | 1 | | 08/14/17 15:00 | 78-87-5 | |
| 1,3-Dichloropropane | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 15:00 | 142-28-9 | |
| 2,2-Dichloropropane | **<0.48** | ug/L | 1.0 | 0.48 | 1 | | 08/14/17 15:00 | 594-20-7 | |
| 1,1-Dichloropropene | **<0.44** | ug/L | 1.0 | 0.44 | 1 | | 08/14/17 15:00 | 563-58-6 | |
| cis-1,3-Dichloropropene | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 15:00 | 10061-01-5 | |
| trans-1,3-Dichloropropene | **<0.23** | ug/L | 1.0 | 0.23 | 1 | | 08/14/17 15:00 | 10061-02-6 | |
| Diisopropyl ether | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 15:00 | 108-20-3 | |
| Ethylbenzene | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 15:00 | 100-41-4 | |
| Hexachloro-1,3-butadiene | **<2.1** | ug/L | 5.0 | 2.1 | 1 | | 08/14/17 15:00 | 87-68-3 | |
| Isopropylbenzene (Cumene) | **<0.14** | ug/L | 1.0 | 0.14 | 1 | | 08/14/17 15:00 | 98-82-8 | |
| p-Isopropyltoluene | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 15:00 | 99-87-6 | |
| Methylene Chloride | **<0.23** | ug/L | 1.0 | 0.23 | 1 | | 08/14/17 15:00 | 75-09-2 | |
| Methyl-tert-butyl ether | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 08/14/17 15:00 | 1634-04-4 | |
| Naphthalene | **<2.5** | ug/L | 5.0 | 2.5 | 1 | | 08/14/17 15:00 | 91-20-3 | |
| n-Propylbenzene | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 15:00 | 103-65-1 | |
| Styrene | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 15:00 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | **<0.18** | ug/L | 1.0 | 0.18 | 1 | | 08/14/17 15:00 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | **<0.25** | ug/L | 1.0 | 0.25 | 1 | | 08/14/17 15:00 | 79-34-5 | |
| Tetrachloroethene | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 15:00 | 127-18-4 | |
| Toluene | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 15:00 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | **<2.1** | ug/L | 5.0 | 2.1 | 1 | | 08/14/17 15:00 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | **<2.2** | ug/L | 5.0 | 2.2 | 1 | | 08/14/17 15:00 | 120-82-1 | |
| 1,1,1-Trichloroethane | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 15:00 | 71-55-6 | |
| 1,1,2-Trichloroethane | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 08/14/17 15:00 | 79-00-5 | |
| Trichloroethene | **<0.33** | ug/L | 1.0 | 0.33 | 1 | | 08/14/17 15:00 | 79-01-6 | |
| Trichlorofluoromethane | **<0.18** | ug/L | 1.0 | 0.18 | 1 | | 08/14/17 15:00 | 75-69-4 | |
| 1,2,3-Trichloropropane | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 15:00 | 96-18-4 | |
| 1,2,4-Trimethylbenzene | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 15:00 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 15:00 | 108-67-8 | |
| Vinyl chloride | **<0.18** | ug/L | 1.0 | 0.18 | 1 | | 08/14/17 15:00 | 75-01-4 | |
| m&p-Xylene | **<1.0** | ug/L | 2.0 | 1.0 | 1 | | 08/14/17 15:00 | 179601-23-1 | |
| o-Xylene | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 15:00 | 95-47-6 | |
| ***Surrogates*** | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 94 | % | 61-130 | | 1 | | 08/14/17 15:00 | 460-00-4 | HS |
| Dibromofluoromethane (S) | 106 | % | 67-130 | | 1 | | 08/14/17 15:00 | 1868-53-7 | |
| Toluene-d8 (S) | 100 | % | 70-130 | | 1 | | 08/14/17 15:00 | 2037-26-5 | |

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## ANALYTICAL RESULTS

Project: CHW8232F FORMER ERIE MFG
Pace Project No.: 40154792

**Sample: P-23M** **Lab ID: 40154792003** Collected: 08/02/17 11:30 Received: 08/10/17 10:30 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Total Organic Carbon** | Analytical Method: EPA 9060 | | | | | | | | |
| Total Organic Carbon | **1.5** | mg/L | 0.85 | 0.25 | 1 | | 08/19/17 04:45 | 7440-44-0 | |
| Total Organic Carbon | **1.4** | mg/L | 0.85 | 0.25 | 1 | | 08/19/17 04:45 | 7440-44-0 | |
| Total Organic Carbon | **1.5** | mg/L | 0.85 | 0.25 | 1 | | 08/19/17 04:45 | 7440-44-0 | |
| Total Organic Carbon | **1.5** | mg/L | 0.85 | 0.25 | 1 | | 08/19/17 04:45 | 7440-44-0 | |
| Mean Total Organic Carbon | **1.5** | mg/L | 0.85 | 0.25 | 1 | | 08/19/17 04:45 | 7440-44-0 | |

**Sample: P-23D** **Lab ID: 40154792004** Collected: 08/02/17 13:20 Received: 08/10/17 10:30 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **Methane, Ethane, Ethene GCV** | Analytical Method: EPA 8015B Modified | | | | | | | | |
| Ethane | **<0.58** | ug/L | 5.6 | 0.58 | 1 | | 08/14/17 12:13 | 74-84-0 | |
| Ethene | **1.8J** | ug/L | 5.0 | 0.52 | 1 | | 08/14/17 12:13 | 74-85-1 | |
| Methane | **4.8** | ug/L | 2.8 | 1.4 | 1 | | 08/14/17 12:13 | 74-82-8 | HS |
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| Benzene | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 15:23 | 71-43-2 | |
| Bromobenzene | **<0.23** | ug/L | 1.0 | 0.23 | 1 | | 08/14/17 15:23 | 108-86-1 | |
| Bromochloromethane | **<0.34** | ug/L | 1.0 | 0.34 | 1 | | 08/14/17 15:23 | 74-97-5 | |
| Bromodichloromethane | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 15:23 | 75-27-4 | |
| Bromoform | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 15:23 | 75-25-2 | |
| Bromomethane | **<2.4** | ug/L | 5.0 | 2.4 | 1 | | 08/14/17 15:23 | 74-83-9 | |
| n-Butylbenzene | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 15:23 | 104-51-8 | |
| sec-Butylbenzene | **<2.2** | ug/L | 5.0 | 2.2 | 1 | | 08/14/17 15:23 | 135-98-8 | |
| tert-Butylbenzene | **<0.18** | ug/L | 1.0 | 0.18 | 1 | | 08/14/17 15:23 | 98-06-6 | |
| Carbon tetrachloride | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 15:23 | 56-23-5 | |
| Chlorobenzene | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 15:23 | 108-90-7 | |
| Chloroethane | **<0.37** | ug/L | 1.0 | 0.37 | 1 | | 08/14/17 15:23 | 75-00-3 | |
| Chloroform | **<2.5** | ug/L | 5.0 | 2.5 | 1 | | 08/14/17 15:23 | 67-66-3 | |
| Chloromethane | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 15:23 | 74-87-3 | |
| 2-Chlorotoluene | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 15:23 | 95-49-8 | |
| 4-Chlorotoluene | **<0.21** | ug/L | 1.0 | 0.21 | 1 | | 08/14/17 15:23 | 106-43-4 | |
| 1,2-Dibromo-3-chloropropane | **<2.2** | ug/L | 5.0 | 2.2 | 1 | | 08/14/17 15:23 | 96-12-8 | |
| Dibromochloromethane | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 15:23 | 124-48-1 | |
| 1,2-Dibromoethane (EDB) | **<0.18** | ug/L | 1.0 | 0.18 | 1 | | 08/14/17 15:23 | 106-93-4 | |
| Dibromomethane | **<0.43** | ug/L | 1.0 | 0.43 | 1 | | 08/14/17 15:23 | 74-95-3 | |
| 1,2-Dichlorobenzene | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 15:23 | 95-50-1 | |
| 1,3-Dichlorobenzene | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 15:23 | 541-73-1 | |
| 1,4-Dichlorobenzene | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 15:23 | 106-46-7 | |
| Dichlorodifluoromethane | **<0.22** | ug/L | 1.0 | 0.22 | 1 | | 08/14/17 15:23 | 75-71-8 | |
| 1,1-Dichloroethane | **<0.24** | ug/L | 1.0 | 0.24 | 1 | | 08/14/17 15:23 | 75-34-3 | |
| 1,2-Dichloroethane | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 08/14/17 15:23 | 107-06-2 | |
| 1,1-Dichloroethene | **<0.41** | ug/L | 1.0 | 0.41 | 1 | | 08/14/17 15:23 | 75-35-4 | |
| cis-1,2-Dichloroethene | **<0.26** | ug/L | 1.0 | 0.26 | 1 | | 08/14/17 15:23 | 156-59-2 | |

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## ANALYTICAL RESULTS

Project: CHW8232F FORMER ERIE MFG
Pace Project No.: 40154792

**Sample: P-23D** **Lab ID: 40154792004** Collected: 08/02/17 13:20 Received: 08/10/17 10:30 Matrix: Water

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8260 MSV** | Analytical Method: EPA 8260 | | | | | | | | |
| trans-1,2-Dichloroethene | **<0.26** | ug/L | 1.0 | 0.26 | 1 | | 08/14/17 15:23 | 156-60-5 | |
| 1,2-Dichloropropane | **<0.23** | ug/L | 1.0 | 0.23 | 1 | | 08/14/17 15:23 | 78-87-5 | |
| 1,3-Dichloropropane | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 15:23 | 142-28-9 | |
| 2,2-Dichloropropane | **<0.48** | ug/L | 1.0 | 0.48 | 1 | | 08/14/17 15:23 | 594-20-7 | |
| 1,1-Dichloropropene | **<0.44** | ug/L | 1.0 | 0.44 | 1 | | 08/14/17 15:23 | 563-58-6 | |
| cis-1,3-Dichloropropene | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 15:23 | 10061-01-5 | |
| trans-1,3-Dichloropropene | **<0.23** | ug/L | 1.0 | 0.23 | 1 | | 08/14/17 15:23 | 10061-02-6 | |
| Diisopropyl ether | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 15:23 | 108-20-3 | |
| Ethylbenzene | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 15:23 | 100-41-4 | |
| Hexachloro-1,3-butadiene | **<2.1** | ug/L | 5.0 | 2.1 | 1 | | 08/14/17 15:23 | 87-68-3 | |
| Isopropylbenzene (Cumene) | **<0.14** | ug/L | 1.0 | 0.14 | 1 | | 08/14/17 15:23 | 98-82-8 | |
| p-Isopropyltoluene | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 15:23 | 99-87-6 | |
| Methylene Chloride | **<0.23** | ug/L | 1.0 | 0.23 | 1 | | 08/14/17 15:23 | 75-09-2 | |
| Methyl-tert-butyl ether | **<0.17** | ug/L | 1.0 | 0.17 | 1 | | 08/14/17 15:23 | 1634-04-4 | |
| Naphthalene | **<2.5** | ug/L | 5.0 | 2.5 | 1 | | 08/14/17 15:23 | 91-20-3 | |
| n-Propylbenzene | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 15:23 | 103-65-1 | |
| Styrene | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 15:23 | 100-42-5 | |
| 1,1,1,2-Tetrachloroethane | **<0.18** | ug/L | 1.0 | 0.18 | 1 | | 08/14/17 15:23 | 630-20-6 | |
| 1,1,2,2-Tetrachloroethane | **<0.25** | ug/L | 1.0 | 0.25 | 1 | | 08/14/17 15:23 | 79-34-5 | |
| Tetrachloroethene | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 15:23 | 127-18-4 | |
| Toluene | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 15:23 | 108-88-3 | |
| 1,2,3-Trichlorobenzene | **<2.1** | ug/L | 5.0 | 2.1 | 1 | | 08/14/17 15:23 | 87-61-6 | |
| 1,2,4-Trichlorobenzene | **<2.2** | ug/L | 5.0 | 2.2 | 1 | | 08/14/17 15:23 | 120-82-1 | |
| 1,1,1-Trichloroethane | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 15:23 | 71-55-6 | |
| 1,1,2-Trichloroethane | **<0.20** | ug/L | 1.0 | 0.20 | 1 | | 08/14/17 15:23 | 79-00-5 | |
| Trichloroethene | **<0.33** | ug/L | 1.0 | 0.33 | 1 | | 08/14/17 15:23 | 79-01-6 | |
| Trichlorofluoromethane | **<0.18** | ug/L | 1.0 | 0.18 | 1 | | 08/14/17 15:23 | 75-69-4 | |
| 1,2,3-Trichloropropane | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 15:23 | 96-18-4 | |
| 1,2,4-Trimethylbenzene | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 15:23 | 95-63-6 | |
| 1,3,5-Trimethylbenzene | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 15:23 | 108-67-8 | |
| Vinyl chloride | **<0.18** | ug/L | 1.0 | 0.18 | 1 | | 08/14/17 15:23 | 75-01-4 | |
| m&p-Xylene | **<1.0** | ug/L | 2.0 | 1.0 | 1 | | 08/14/17 15:23 | 179601-23-1 | |
| o-Xylene | **<0.50** | ug/L | 1.0 | 0.50 | 1 | | 08/14/17 15:23 | 95-47-6 | |
| ***Surrogates*** | | | | | | | | | |
| 4-Bromofluorobenzene (S) | 94 | % | 61-130 | | 1 | | 08/14/17 15:23 | 460-00-4 | HS |
| Dibromofluoromethane (S) | 106 | % | 67-130 | | 1 | | 08/14/17 15:23 | 1868-53-7 | |
| Toluene-d8 (S) | 100 | % | 70-130 | | 1 | | 08/14/17 15:23 | 2037-26-5 | |
| **Total Organic Carbon** | Analytical Method: EPA 9060 | | | | | | | | |
| Total Organic Carbon | **0.49J** | mg/L | 0.85 | 0.25 | 1 | | 08/19/17 05:27 | 7440-44-0 | |
| Total Organic Carbon | **0.50J** | mg/L | 0.85 | 0.25 | 1 | | 08/19/17 05:27 | 7440-44-0 | |
| Total Organic Carbon | **0.49J** | mg/L | 0.85 | 0.25 | 1 | | 08/19/17 05:27 | 7440-44-0 | |
| Total Organic Carbon | **0.50J** | mg/L | 0.85 | 0.25 | 1 | | 08/19/17 05:27 | 7440-44-0 | |
| Mean Total Organic Carbon | **0.49J** | mg/L | 0.85 | 0.25 | 1 | | 08/19/17 05:27 | 7440-44-0 | |

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## QUALITY CONTROL DATA

Project: CHW8232F FORMER ERIE MFG
Pace Project No.: 40154792

QC Batch: 264420 Analysis Method: EPA 8015B Modified
QC Batch Method: EPA 8015B Modified Analysis Description: Methane, Ethane, Ethene GCV
Associated Lab Samples: 40154792001, 40154792003, 40154792004

METHOD BLANK: 1556314 Matrix: Water
Associated Lab Samples: 40154792001, 40154792003, 40154792004

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Ethane | ug/L | <0.58 | 5.6 | 08/14/17 09:24 | |
| Ethene | ug/L | <0.52 | 5.0 | 08/14/17 09:24 | |
| Methane | ug/L | <1.4 | 2.8 | 08/14/17 09:24 | |

LABORATORY CONTROL SAMPLE & LCSD: 1556315 1556316

| Parameter | Units | Spike Conc. | LCS Result | LCSD Result | LCS % Rec | LCSD % Rec | % Rec Limits | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|---|---|---|---|
| Ethane | ug/L | 53.6 | 50.6 | 52.8 | 94 | 99 | 80-120 | 4 | 20 | |
| Ethene | ug/L | 50 | 46.4 | 48.9 | 93 | 98 | 80-119 | 5 | 20 | |
| Methane | ug/L | 28.6 | 27.8 | 29.1 | 97 | 102 | 80-120 | 5 | 20 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1556317 1556318

| Parameter | Units | 40154789039 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Ethane | ug/L | <0.58 | 53.6 | 53.6 | 54.9 | 53.1 | 102 | 99 | 79-120 | 3 | 20 | |
| Ethene | ug/L | 0.56J | 50 | 50 | 51.6 | 50.0 | 102 | 99 | 78-119 | 3 | 20 | |
| Methane | ug/L | 2.0J | 28.6 | 28.6 | 32.7 | 31.8 | 107 | 105 | 10-200 | 3 | 20 | |

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## QUALITY CONTROL DATA

Project: CHW8232F FORMER ERIE MFG
Pace Project No.: 40154792

QC Batch: 264264 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40154792001, 40154792002, 40154792003, 40154792004

METHOD BLANK: 1555345 Matrix: Water
Associated Lab Samples: 40154792001, 40154792002, 40154792003, 40154792004

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| 1,1,1,2-Tetrachloroethane | ug/L | <0.18 | 1.0 | 08/14/17 07:22 | |
| 1,1,1-Trichloroethane | ug/L | <0.50 | 1.0 | 08/14/17 07:22 | |
| 1,1,2,2-Tetrachloroethane | ug/L | <0.25 | 1.0 | 08/14/17 07:22 | |
| 1,1,2-Trichloroethane | ug/L | <0.20 | 1.0 | 08/14/17 07:22 | |
| 1,1-Dichloroethane | ug/L | <0.24 | 1.0 | 08/14/17 07:22 | |
| 1,1-Dichloroethene | ug/L | <0.41 | 1.0 | 08/14/17 07:22 | |
| 1,1-Dichloropropene | ug/L | <0.44 | 1.0 | 08/14/17 07:22 | |
| 1,2,3-Trichlorobenzene | ug/L | <2.1 | 5.0 | 08/14/17 07:22 | |
| 1,2,3-Trichloropropane | ug/L | <0.50 | 1.0 | 08/14/17 07:22 | |
| 1,2,4-Trichlorobenzene | ug/L | <2.2 | 5.0 | 08/14/17 07:22 | |
| 1,2,4-Trimethylbenzene | ug/L | <0.50 | 1.0 | 08/14/17 07:22 | |
| 1,2-Dibromo-3-chloropropane | ug/L | <2.2 | 5.0 | 08/14/17 07:22 | |
| 1,2-Dibromoethane (EDB) | ug/L | <0.18 | 1.0 | 08/14/17 07:22 | |
| 1,2-Dichlorobenzene | ug/L | <0.50 | 1.0 | 08/14/17 07:22 | |
| 1,2-Dichloroethane | ug/L | <0.17 | 1.0 | 08/14/17 07:22 | |
| 1,2-Dichloropropane | ug/L | <0.23 | 1.0 | 08/14/17 07:22 | |
| 1,3,5-Trimethylbenzene | ug/L | <0.50 | 1.0 | 08/14/17 07:22 | |
| 1,3-Dichlorobenzene | ug/L | <0.50 | 1.0 | 08/14/17 07:22 | |
| 1,3-Dichloropropane | ug/L | <0.50 | 1.0 | 08/14/17 07:22 | |
| 1,4-Dichlorobenzene | ug/L | <0.50 | 1.0 | 08/14/17 07:22 | |
| 2,2-Dichloropropane | ug/L | <0.48 | 1.0 | 08/14/17 07:22 | |
| 2-Chlorotoluene | ug/L | <0.50 | 1.0 | 08/14/17 07:22 | |
| 4-Chlorotoluene | ug/L | <0.21 | 1.0 | 08/14/17 07:22 | |
| Benzene | ug/L | <0.50 | 1.0 | 08/14/17 07:22 | |
| Bromobenzene | ug/L | <0.23 | 1.0 | 08/14/17 07:22 | |
| Bromochloromethane | ug/L | <0.34 | 1.0 | 08/14/17 07:22 | |
| Bromodichloromethane | ug/L | <0.50 | 1.0 | 08/14/17 07:22 | |
| Bromoform | ug/L | <0.50 | 1.0 | 08/14/17 07:22 | |
| Bromomethane | ug/L | <2.4 | 5.0 | 08/14/17 07:22 | |
| Carbon tetrachloride | ug/L | <0.50 | 1.0 | 08/14/17 07:22 | |
| Chlorobenzene | ug/L | <0.50 | 1.0 | 08/14/17 07:22 | |
| Chloroethane | ug/L | <0.37 | 1.0 | 08/14/17 07:22 | |
| Chloroform | ug/L | <2.5 | 5.0 | 08/14/17 07:22 | |
| Chloromethane | ug/L | <0.50 | 1.0 | 08/14/17 07:22 | |
| cis-1,2-Dichloroethene | ug/L | <0.26 | 1.0 | 08/14/17 07:22 | |
| cis-1,3-Dichloropropene | ug/L | <0.50 | 1.0 | 08/14/17 07:22 | |
| Dibromochloromethane | ug/L | <0.50 | 1.0 | 08/14/17 07:22 | |
| Dibromomethane | ug/L | <0.43 | 1.0 | 08/14/17 07:22 | |
| Dichlorodifluoromethane | ug/L | <0.22 | 1.0 | 08/14/17 07:22 | |
| Diisopropyl ether | ug/L | <0.50 | 1.0 | 08/14/17 07:22 | |
| Ethylbenzene | ug/L | <0.50 | 1.0 | 08/14/17 07:22 | |

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## QUALITY CONTROL DATA

Project: CHW8232F FORMER ERIE MFG
Pace Project No.: 40154792

METHOD BLANK: 1555345 Matrix: Water
Associated Lab Samples: 40154792001, 40154792002, 40154792003, 40154792004

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Hexachloro-1,3-butadiene | ug/L | <2.1 | 5.0 | 08/14/17 07:22 | |
| Isopropylbenzene (Cumene) | ug/L | <0.14 | 1.0 | 08/14/17 07:22 | |
| m&p-Xylene | ug/L | <1.0 | 2.0 | 08/14/17 07:22 | |
| Methyl-tert-butyl ether | ug/L | <0.17 | 1.0 | 08/14/17 07:22 | |
| Methylene Chloride | ug/L | 0.24J | 1.0 | 08/14/17 07:22 | |
| n-Butylbenzene | ug/L | <0.50 | 1.0 | 08/14/17 07:22 | |
| n-Propylbenzene | ug/L | <0.50 | 1.0 | 08/14/17 07:22 | |
| Naphthalene | ug/L | <2.5 | 5.0 | 08/14/17 07:22 | |
| o-Xylene | ug/L | <0.50 | 1.0 | 08/14/17 07:22 | |
| p-Isopropyltoluene | ug/L | <0.50 | 1.0 | 08/14/17 07:22 | |
| sec-Butylbenzene | ug/L | <2.2 | 5.0 | 08/14/17 07:22 | |
| Styrene | ug/L | <0.50 | 1.0 | 08/14/17 07:22 | |
| tert-Butylbenzene | ug/L | <0.18 | 1.0 | 08/14/17 07:22 | |
| Tetrachloroethene | ug/L | <0.50 | 1.0 | 08/14/17 07:22 | |
| Toluene | ug/L | <0.50 | 1.0 | 08/14/17 07:22 | |
| trans-1,2-Dichloroethene | ug/L | <0.26 | 1.0 | 08/14/17 07:22 | |
| trans-1,3-Dichloropropene | ug/L | <0.23 | 1.0 | 08/14/17 07:22 | |
| Trichloroethene | ug/L | <0.33 | 1.0 | 08/14/17 07:22 | |
| Trichlorofluoromethane | ug/L | <0.18 | 1.0 | 08/14/17 07:22 | |
| Vinyl chloride | ug/L | <0.18 | 1.0 | 08/14/17 07:22 | |
| 4-Bromofluorobenzene (S) | % | 97 | 61-130 | 08/14/17 07:22 | |
| Dibromofluoromethane (S) | % | 104 | 67-130 | 08/14/17 07:22 | |
| Toluene-d8 (S) | % | 101 | 70-130 | 08/14/17 07:22 | |

LABORATORY CONTROL SAMPLE: 1555346

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ug/L | 50 | 50.3 | 101 | 70-130 | |
| 1,1,2,2-Tetrachloroethane | ug/L | 50 | 51.6 | 103 | 70-130 | |
| 1,1,2-Trichloroethane | ug/L | 50 | 52.4 | 105 | 70-130 | |
| 1,1-Dichloroethane | ug/L | 50 | 47.8 | 96 | 71-132 | |
| 1,1-Dichloroethene | ug/L | 50 | 43.4 | 87 | 75-130 | |
| 1,2,4-Trichlorobenzene | ug/L | 50 | 45.2 | 90 | 70-130 | |
| 1,2-Dibromo-3-chloropropane | ug/L | 50 | 47.5 | 95 | 63-123 | |
| 1,2-Dibromoethane (EDB) | ug/L | 50 | 51.6 | 103 | 70-130 | |
| 1,2-Dichlorobenzene | ug/L | 50 | 50.5 | 101 | 70-130 | |
| 1,2-Dichloroethane | ug/L | 50 | 51.1 | 102 | 70-131 | |
| 1,2-Dichloropropane | ug/L | 50 | 51.6 | 103 | 80-120 | |
| 1,3-Dichlorobenzene | ug/L | 50 | 49.6 | 99 | 70-130 | |
| 1,4-Dichlorobenzene | ug/L | 50 | 50.6 | 101 | 70-130 | |
| Benzene | ug/L | 50 | 49.7 | 99 | 73-145 | |
| Bromodichloromethane | ug/L | 50 | 51.6 | 103 | 70-130 | |
| Bromoform | ug/L | 50 | 52.3 | 105 | 67-130 | |
| Bromomethane | ug/L | 50 | 38.6 | 77 | 26-128 | |

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## REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## QUALITY CONTROL DATA

Project: CHW8232F FORMER ERIE MFG
Pace Project No.: 40154792

LABORATORY CONTROL SAMPLE: 1555346

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Carbon tetrachloride | ug/L | 50 | 51.8 | 104 | 70-133 | |
| Chlorobenzene | ug/L | 50 | 52.7 | 105 | 70-130 | |
| Chloroethane | ug/L | 50 | 43.8 | 88 | 58-120 | |
| Chloroform | ug/L | 50 | 51.5 | 103 | 80-121 | |
| Chloromethane | ug/L | 50 | 34.3 | 69 | 40-127 | |
| cis-1,2-Dichloroethene | ug/L | 50 | 48.7 | 97 | 70-130 | |
| cis-1,3-Dichloropropene | ug/L | 50 | 40.5 | 81 | 70-130 | |
| Dibromochloromethane | ug/L | 50 | 51.7 | 103 | 70-130 | |
| Dichlorodifluoromethane | ug/L | 50 | 32.7 | 65 | 20-135 | |
| Ethylbenzene | ug/L | 50 | 49.7 | 99 | 87-129 | |
| Isopropylbenzene (Cumene) | ug/L | 50 | 50.5 | 101 | 70-130 | |
| m&p-Xylene | ug/L | 100 | 100 | 100 | 70-130 | |
| Methyl-tert-butyl ether | ug/L | 50 | 47.9 | 96 | 66-143 | |
| Methylene Chloride | ug/L | 50 | 46.3 | 93 | 70-130 | |
| o-Xylene | ug/L | 50 | 50.4 | 101 | 70-130 | |
| Styrene | ug/L | 50 | 51.1 | 102 | 70-130 | |
| Tetrachloroethene | ug/L | 50 | 50.9 | 102 | 70-130 | |
| Toluene | ug/L | 50 | 51.2 | 102 | 82-130 | |
| trans-1,2-Dichloroethene | ug/L | 50 | 46.7 | 93 | 75-132 | |
| trans-1,3-Dichloropropene | ug/L | 50 | 39.8 | 80 | 70-130 | |
| Trichloroethene | ug/L | 50 | 52.2 | 104 | 70-130 | |
| Trichlorofluoromethane | ug/L | 50 | 50.2 | 100 | 76-133 | |
| Vinyl chloride | ug/L | 50 | 39.6 | 79 | 57-136 | |
| 4-Bromofluorobenzene (S) | % | | | 98 | 61-130 | |
| Dibromofluoromethane (S) | % | | | 104 | 67-130 | |
| Toluene-d8 (S) | % | | | 100 | 70-130 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1555523 1555524

| Parameter | Units | 40154781001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | ug/L | <0.50 | 50 | 50 | 50.5 | 49.1 | 101 | 98 | 70-134 | 3 | 20 | |
| 1,1,2,2-Tetrachloroethane | ug/L | <0.25 | 50 | 50 | 53.4 | 52.2 | 107 | 104 | 70-130 | 2 | 20 | |
| 1,1,2-Trichloroethane | ug/L | <0.20 | 50 | 50 | 53.2 | 52.5 | 106 | 105 | 70-130 | 1 | 20 | |
| 1,1-Dichloroethane | ug/L | <0.24 | 50 | 50 | 48.2 | 47.2 | 96 | 94 | 71-133 | 2 | 20 | |
| 1,1-Dichloroethene | ug/L | <0.41 | 50 | 50 | 44.2 | 42.6 | 88 | 85 | 75-136 | 4 | 20 | |
| 1,2,4-Trichlorobenzene | ug/L | <2.2 | 50 | 50 | 46.8 | 45.6 | 93 | 91 | 70-130 | 3 | 20 | |
| 1,2-Dibromo-3-chloropropane | ug/L | <2.2 | 50 | 50 | 50.1 | 48.9 | 100 | 98 | 63-123 | 2 | 20 | |
| 1,2-Dibromoethane (EDB) | ug/L | <0.18 | 50 | 50 | 52.2 | 51.5 | 104 | 103 | 70-130 | 1 | 20 | |
| 1,2-Dichlorobenzene | ug/L | <0.50 | 50 | 50 | 51.2 | 50.1 | 102 | 100 | 70-130 | 2 | 20 | |
| 1,2-Dichloroethane | ug/L | <0.17 | 50 | 50 | 51.9 | 51.0 | 104 | 102 | 70-131 | 2 | 20 | |
| 1,2-Dichloropropane | ug/L | <0.23 | 50 | 50 | 51.0 | 51.2 | 102 | 102 | 80-120 | 0 | 20 | |
| 1,3-Dichlorobenzene | ug/L | <0.50 | 50 | 50 | 50.2 | 49.6 | 100 | 99 | 70-130 | 1 | 20 | |
| 1,4-Dichlorobenzene | ug/L | <0.50 | 50 | 50 | 51.1 | 50.4 | 102 | 101 | 70-130 | 1 | 20 | |

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Green Bay, WI 54302
(920)469-2436

## QUALITY CONTROL DATA

Project: CHW8232F FORMER ERIE MFG
Pace Project No.: 40154792

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1555523 1555524

| Parameter | Units | 40154781001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | ug/L | <0.50 | 50 | 50 | 49.9 | 49.3 | 100 | 99 | 73-145 | 1 | 20 | |
| Bromodichloromethane | ug/L | <0.50 | 50 | 50 | 52.0 | 51.7 | 104 | 103 | 70-130 | 1 | 20 | |
| Bromoform | ug/L | <0.50 | 50 | 50 | 52.9 | 52.2 | 106 | 104 | 67-130 | 1 | 20 | |
| Bromomethane | ug/L | <2.4 | 50 | 50 | 42.5 | 43.8 | 85 | 88 | 26-129 | 3 | 20 | |
| Carbon tetrachloride | ug/L | <0.50 | 50 | 50 | 52.3 | 50.1 | 105 | 100 | 70-134 | 4 | 20 | |
| Chlorobenzene | ug/L | <0.50 | 50 | 50 | 53.0 | 52.5 | 106 | 105 | 70-130 | 1 | 20 | |
| Chloroethane | ug/L | <0.37 | 50 | 50 | 44.2 | 43.4 | 88 | 87 | 58-120 | 2 | 20 | |
| Chloroform | ug/L | <2.5 | 50 | 50 | 51.7 | 50.9 | 103 | 102 | 80-121 | 2 | 20 | |
| Chloromethane | ug/L | <0.50 | 50 | 50 | 35.6 | 34.3 | 71 | 69 | 40-128 | 3 | 20 | |
| cis-1,2-Dichloroethene | ug/L | <0.26 | 50 | 50 | 49.3 | 48.0 | 99 | 96 | 70-130 | 3 | 20 | |
| cis-1,3-Dichloropropene | ug/L | <0.50 | 50 | 50 | 40.7 | 40.5 | 81 | 81 | 70-130 | 1 | 20 | |
| Dibromochloromethane | ug/L | <0.50 | 50 | 50 | 52.6 | 51.5 | 105 | 103 | 70-130 | 2 | 20 | |
| Dichlorodifluoromethane | ug/L | <0.22 | 50 | 50 | 32.7 | 29.5 | 65 | 59 | 20-146 | 10 | 20 | |
| Ethylbenzene | ug/L | <0.50 | 50 | 50 | 49.6 | 49.2 | 99 | 98 | 87-129 | 1 | 20 | |
| Isopropylbenzene (Cumene) | ug/L | <0.14 | 50 | 50 | 49.9 | 49.6 | 100 | 99 | 70-130 | 1 | 20 | |
| m&p-Xylene | ug/L | <1.0 | 100 | 100 | 100 | 99.2 | 100 | 99 | 70-130 | 1 | 20 | |
| Methyl-tert-butyl ether | ug/L | <0.17 | 50 | 50 | 48.4 | 47.6 | 97 | 95 | 66-143 | 2 | 20 | |
| Methylene Chloride | ug/L | <0.23 | 50 | 50 | 46.7 | 46.0 | 93 | 92 | 70-130 | 2 | 20 | |
| o-Xylene | ug/L | <0.50 | 50 | 50 | 50.6 | 50.1 | 101 | 100 | 70-130 | 1 | 20 | |
| Styrene | ug/L | <0.50 | 50 | 50 | 50.6 | 50.3 | 101 | 101 | 70-130 | 1 | 20 | |
| Tetrachloroethene | ug/L | <0.50 | 50 | 50 | 51.1 | 49.1 | 102 | 98 | 70-130 | 4 | 20 | |
| Toluene | ug/L | <0.50 | 50 | 50 | 51.2 | 51.0 | 102 | 102 | 82-131 | 1 | 20 | |
| trans-1,2-Dichloroethene | ug/L | <0.26 | 50 | 50 | 47.3 | 46.2 | 95 | 92 | 75-135 | 2 | 20 | |
| trans-1,3-Dichloropropene | ug/L | <0.23 | 50 | 50 | 40.3 | 40.6 | 81 | 81 | 70-130 | 1 | 20 | |
| Trichloroethene | ug/L | <0.33 | 50 | 50 | 52.3 | 51.0 | 105 | 102 | 70-130 | 3 | 20 | |
| Trichlorofluoromethane | ug/L | <0.18 | 50 | 50 | 50.5 | 46.9 | 101 | 94 | 76-150 | 7 | 20 | |
| Vinyl chloride | ug/L | <0.18 | 50 | 50 | 39.9 | 38.3 | 80 | 77 | 56-143 | 4 | 20 | |
| 4-Bromofluorobenzene (S) | % | | | | | | 97 | 97 | 61-130 | | | |
| Dibromofluoromethane (S) | % | | | | | | 104 | 104 | 67-130 | | | |
| Toluene-d8 (S) | % | | | | | | 99 | 100 | 70-130 | | | |

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(920)469-2436

## QUALITY CONTROL DATA

Project: CHW8232F FORMER ERIE MFG
Pace Project No.: 40154792

QC Batch: 265002 Analysis Method: EPA 9060
QC Batch Method: EPA 9060 Analysis Description: 9060 TOC
Associated Lab Samples: 40154792001, 40154792003, 40154792004

METHOD BLANK: 1558913 Matrix: Water
Associated Lab Samples: 40154792001, 40154792003, 40154792004

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Mean Total Organic Carbon | mg/L | <0.25 | 0.85 | 08/18/17 16:36 | |
| Total Organic Carbon | mg/L | <0.25 | 0.85 | 08/18/17 16:36 | |
| Total Organic Carbon | mg/L | <0.25 | 0.85 | 08/18/17 16:36 | |
| Total Organic Carbon | mg/L | <0.25 | 0.85 | 08/18/17 16:36 | |
| Total Organic Carbon | mg/L | <0.25 | 0.85 | 08/18/17 16:36 | |

LABORATORY CONTROL SAMPLE: 1558914

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Mean Total Organic Carbon | mg/L | 2.5 | 2.4 | 97 | 80-120 | |
| Total Organic Carbon | mg/L | 2.5 | 2.4 | 98 | | |
| Total Organic Carbon | mg/L | 2.5 | 2.4 | 97 | | |
| Total Organic Carbon | mg/L | 2.5 | 2.4 | 96 | | |
| Total Organic Carbon | mg/L | 2.5 | 2.4 | 96 | | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1558915 1558916

| Parameter | Units | 40154789023 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mean Total Organic Carbon | mg/L | 57.1 | 30 | 30 | 88.4 | 88.6 | 104 | 105 | 80-120 | 0 | 20 | |
| Total Organic Carbon | mg/L | 56.9 | 30 | 30 | 88.8 | 88.7 | 106 | 106 | | 0 | | |
| Total Organic Carbon | mg/L | 57.9 | 30 | 30 | 88.2 | 88.7 | 101 | 103 | | 1 | | |
| Total Organic Carbon | mg/L | 56.5 | 30 | 30 | 88.2 | 89.4 | 105 | 110 | | 1 | | |
| Total Organic Carbon | mg/L | 57.3 | 30 | 30 | 88.4 | 87.5 | 104 | 101 | | 1 | | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1558917 1558918

| Parameter | Units | 40154789038 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mean Total Organic Carbon | mg/L | 8.3 | 3 | 3 | 11.5 | 11.4 | 105 | 102 | 80-120 | 1 | 20 | |
| Total Organic Carbon | mg/L | 8.3 | 3 | 3 | 11.5 | 11.4 | 108 | 103 | | 1 | | |
| Total Organic Carbon | mg/L | 8.3 | 3 | 3 | 11.4 | 11.4 | 103 | 103 | | 0 | | |
| Total Organic Carbon | mg/L | 8.3 | 3 | 3 | 11.4 | 11.3 | 105 | 102 | | 1 | | |
| Total Organic Carbon | mg/L | 8.4 | 3 | 3 | 11.5 | 11.4 | 104 | 101 | | 1 | | |

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(920)469-2436

# QUALIFIERS

Project: CHW8232F FORMER ERIE MFG
Pace Project No.: 40154792

**DEFINITIONS**

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

**ANALYTE QUALIFIERS**

| | |
|---|---|
| HS | Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter). |



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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CHW8232F FORMER ERIE MFG
Pace Project No.: 40154792

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|---|---|---|---|---|---|
| **40154792001** | **MW023** | EPA 8015B Modified | 264420 | | |
| **40154792003** | **P-23M** | EPA 8015B Modified | 264420 | | |
| **40154792004** | **P-23D** | EPA 8015B Modified | 264420 | | |
| **40154792001** | **MW023** | EPA 8260 | 264264 | | |
| **40154792002** | **MW023 DUP** | EPA 8260 | 264264 | | |
| **40154792003** | **P-23M** | EPA 8260 | 264264 | | |
| **40154792004** | **P-23D** | EPA 8260 | 264264 | | |
| **40154792001** | **MW023** | EPA 9060 | 265002 | | |
| **40154792003** | **P-23M** | EPA 9060 | 265002 | | |
| **40154792004** | **P-23D** | EPA 9060 | 265002 | | |



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**UPPER MIDWEST REGION**
MN: 612-607-1700 WI: 920-469-2436

40154792

# CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

| (Please Print Clearly) | |
|---|---|
| Company Name: | Geosyntec |
| Branch/Location: | Mequon, WI |
| Project Contact: | Jim Bannantine |
| Phone: | 262-834-0227 |
| Project Number: | CHW 8232F |
| Project Name: | Former Erie MFG |
| Project State: | WI |
| Sampled By (Print): | Emma MacAlister |
| Sampled By (Sign): | Cama |
| PO #: | |
| Regulatory Program: | |

| | |
|---|---|
| Quote #: | |
| Mail To Contact: | Jim Bannantine |
| Mail To Company: | Geosyntec |
| Mail To Address: | 10600 N. Port Washington Rd ste 100 Mequon, WI 53092 |
| Invoice To Contact: | Same |
| Invoice To Company: | Same |
| Invoice To Address: | Same |
| Invoice To Phone: | Same |

**Data Package Options** (billable)
- ☐ EPA Level III
- ☐ EPA Level IV

**MS/MSD**
- ☐ On your sample (billable)
- ☐ NOT needed on your sample

**Matrix Codes**
A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, SI = Sludge, W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

| PACE LAB # | CLIENT FIELD ID | COLLECTION DATE | COLLECTION TIME | MATRIX | Analyses Requested: VOC | methane, Ethane, Ethene (MEE) | TOC | CLIENT COMMENTS | LAB COMMENTS (Lab Use Only) | Profile # |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Y/N: N | N | N | | | |
| | | | | | Pick Letter: B | B | C | | | |
| 001 | MW023 | 8/2/17 | 1230 | GW | X | X | X | 2-125mLag C | 6-40mLv B | |
| 002 | MW023 DUP | 8/2/17 | 1230 | GW | X | | | | 3-40 mLv B | |
| 003 | P-23M | 8/2/17 | 1130 | GW | X | X | X | | | |
| 004 | P-23D | 8/2/17 | 1320 | GW | X | X | X | | | |

Cama 8/8/17

| Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge) Date Needed: | Relinquished By: | Date/Time: | Received By: | Date/Time: | PACE Project No. |
|---|---|---|---|---|---|
| | Cama | 8/9/17 0800 | Mary Fannin | 8/9/17 9:00 | 40154792 |
| Transmit Prelim Rush Results by (complete what you want): | Mary Fannin | 8/9/17 1515 | | | Receipt Temp = R01 °C |
| Email #1: | CS logistics | 8/10/17 1030 | Sue Sobeck Pace | 8/10/17 1030 | Sample Receipt pH OK / Adjusted |
| Email #2: | | | | | |
| Telephone: | | | | | Cooler Custody Seal Present / Not Present Intact / Not Intact |
| Fax: | | | | | |
| Samples on HOLD are subject to special pricing and release of liability | | | | | |

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

# Sample Condition Upon Receipt

Pace Analytical Services, LLC. - Green Bay WI
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Project #: **WO# : 40154792**

40154792

**Client Name:** Geosyntec

**Courier:** ☐ Fed Ex ☑ UPS ☐ Client ☐ Pace Other: CS logistics

**Tracking #:**

**Custody Seal on Cooler/Box Present:** ☑ yes ☐ no Seals intact: ☑ yes ☐ no

**Custody Seal on Samples Present:** ☐ yes ☑ no Seals intact: ☐ yes ☑ no

**Packing Material:** ☑ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

**Thermometer Used** N/A **Type of Ice:** (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun

**Cooler Temperature** Uncorr: 2.01 /Corr: **Biological Tissue is Frozen:** ☐ yes ☐ no

**Temp Blank Present:** ☐ yes ☑ no

**Person examining contents:** Date: 8/10/17 Initials: BJS

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

| | | Comments: |
|---|---|---|
| Chain of Custody Present: | ☑Yes ☐No ☐N/A | 1. |
| Chain of Custody Filled Out: | ☑Yes ☐No ☐N/A | 2. |
| Chain of Custody Relinquished: | ☑Yes ☐No ☐N/A | 3. |
| Sampler Name & Signature on COC: | ☑Yes ☐No ☐N/A | 4. |
| Samples Arrived within Hold Time: | ☑Yes ☐No ☐N/A | 5. |
| - VOA Samples frozen upon receipt | ☐Yes ☑No | Date/Time: |
| **Short Hold Time Analysis (<72hr):** | ☐Yes ☑No ☐N/A | 6. |
| **Rush Turn Around Time Requested:** | ☐Yes ☑No ☐N/A | 7. |
| Sufficient Volume: | ☑Yes ☐No ☐N/A | 8. |
| Correct Containers Used: | ☑Yes ☐No ☐N/A | 9. |
| -Pace Containers Used: | ☑Yes ☐No ☐N/A | |
| -Pace IR Containers Used: | ☐Yes ☐No ☑N/A | |
| Containers Intact: | ☑Yes ☐No ☐N/A | 10. |
| Filtered volume received for Dissolved tests | ☐Yes ☐No ☑N/A | 11. |
| Sample Labels match COC: | ☑Yes ☐No ☐N/A | 12. |
| -Includes date/time/ID/Analysis Matrix: W | | |
| All containers needing preservation have been checked. (Non-Compliance noted in 13.) | ☐Yes ☐No ☑N/A | 13. ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ NaOH +ZnAct |
| All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12) | ☐Yes ☐No ☑N/A | |
| exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER: | ☑Yes ☐No | Initial when completed / Lab Std #ID of preservative / Date/ Time: 8/10 8/10/17 |
| Headspace in VOA Vials ( >6mm): | ☐Yes ☑No ☐N/A | 14. 001-004 all VIALS have headspace |
| Trip Blank Present: | ☐Yes ☑No ☐N/A | 15. |
| Trip Blank Custody Seals Present | ☐Yes ☑No ☐N/A | |
| Pace Trip Blank Lot # (if purchased): | | |

**Client Notification/ Resolution:** If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution:

**Project Manager Review:** Date: 8-10-17

F-GB-C-031-Rev.04 (12Dec2016) SCUR.xls
Pace Analytical Services LLC. - Green Bay WI