

October 2012
Off-site Bedrock Groundwater Investigation

Site No. 932151
915 Cleveland Avenue Off-site Bedrock Groundwater Plume
Niagara Falls, Niagara County

The 915 Cleveland Ave. Site is located in an urban area at the southeast intersection of Cleveland Ave. and Main St. in the City of Niagara Falls. The surrounding area is predominately commercial however there are residential properties to the east. The site had been home to auto repair and dry cleaning businesses. It was the original parcel of a BCP site (#C932133), which was expanded to include six additional parcels. The site was redeveloped and now forms a portion of the Niagara Falls Municipal Complex which houses a public safety building and court room facility. The building was opened in May 2009. The multiple parcels were combined and the current street address of the site is 1925 Main Street. A Certificate of Completion for the BCP site was issued on September 20, 2011.

Prior to remediation significant concentrations of tetrachloroethene (PCE) up to 17 parts per million (ppm) and associated breakdown products were detected in the overburden groundwater immediately above the bedrock surface. PCE was detected in bedrock groundwater samples, both on-site and at adjacent off-site locations, detected PCE at concentrations from < 1 to 550 parts per billion (ppb). Only limited soils data was available at that time. No soils data was available from beneath the on-site buildings which occupied the majority of the site. Volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs) were detected in the soil but were within Recommended Soil Cleanup Objectives (RSCOs) with the exception of 1,2,4-trimethylbenzene (9.5 ppm). Metals (arsenic, mercury and lead) were detected in the soil exceeding RSCOs.

Remediation at the site is complete. The buildings were removed and all on-site impacted soils were excavated to the top of the dolostone bedrock at approximately 15 feet below grade (bgs). Four underground storage tanks (USTs) were uncovered along the south side of Cleveland Ave. and were removed during the excavation work. Subsequent sampling confirmed significant concentrations of PCE, trichloroethene (TCE) and petroleum constituents in the excavated site soils. Post excavation confirmation soil sampling confirmed that remaining on-site soils meet Part 375 Unrestricted Use Soil Cleanup Objectives. One small area of off-site soils near the former UST field could not be excavated due to the proximity of the street. These off-site soils contained PCE up to 6ppm (below Part 375 Restricted Use- Restricted Residential SCOs). Groundwater monitoring wells BRMW-1 and BRMW-2, located off-site near the former UST field, detected residual PCE in the bedrock groundwater at 550 ppb and 360 ppb, respectively.

The BCP applicant is a volunteer and they were not obligated to undertake off-site characterizations of the bedrock groundwater. As such, the Department, in consultation with the Department of Health (DOH), has undertaken the appropriate off-site bedrock groundwater characterizations.

Prior investigation determined the bedrock groundwater flow direction was to the northwest. A standby contractor was called out and installed two additional off-site bedrock wells (BRMW-7 & BRMW-8) on the north side of Cleveland Ave., north and west of the former UST locations. The overburden materials, encountered during the well installations consisted of silty clay with gravelly silt and were consistent with those found on-site. Depth to bedrock ranged from 23.7 feet at BRMW-7 to 17.8 feet at BRMW-8. The wells were developed and latter sampled, along with all available previously installed bedrock wells, on July 25, 2011 and again on October 1,

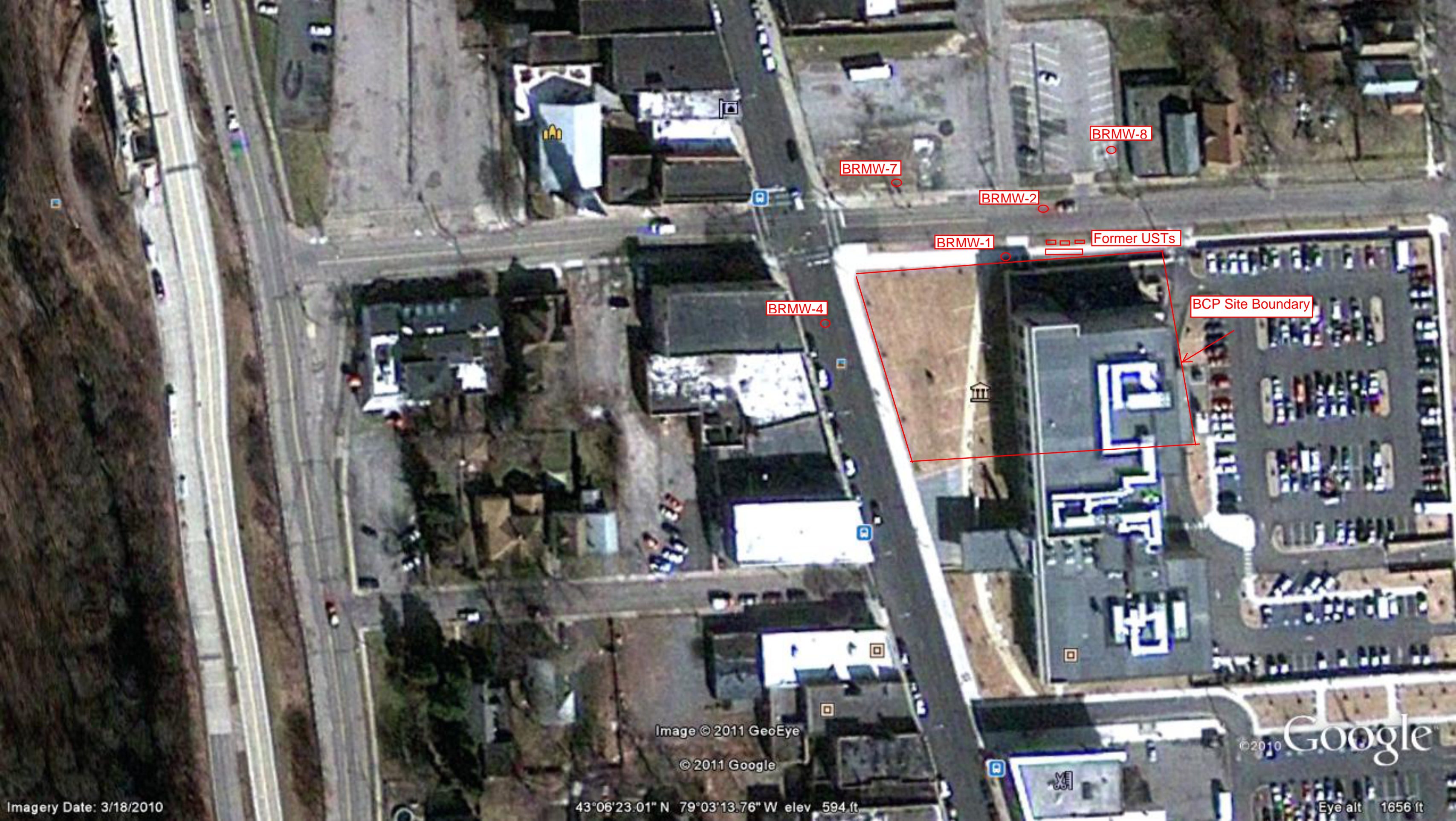
2012. A report summarizing the October 1, 2012 well sampling with the laboratory analytical report is attached.

As listed in the attached table, PCE groundwater concentrations continued to exhibit a downward trend ranging from <1 to 120 ppb in October 2012. A greater than 50 % decrease in PCE concentrations occurred at both wells BRMW-1 and BRMW-2 currently ranging from 85 and 120 ppb, respectively.

Site # 932151 - 915 Cleveland Off-Site Bedrock Groundwater Plume

Bedrock Monitoring Well PCE Concentration (ug/l)

| | BRMW-1 | BRMW-2 | BRMW-3 | BRMW-4 | BRMW-5 | BRMW-6 | BRMW-7 | BRMW-8 |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|
| 10/31/2007 | 550 | 360 | <10 | 45 | <10 | <10 | | |
| 8/19/2010 | | 250 | | 7.3 | <1 | | | |
| 7/25/2011 | 180 | 250 | | 1.4 | | | 29 | <1 |
| 10/1/2012 | 85 | 120 | | 5.5 | | | 21 | 0.6 |



BRMW-8

BRMW-7

BRMW-2

BRMW-1

Former USTs

BRMW-4

BCP Site Boundary

Image © 2011 GeoEye

© 2011 Google

©2010 Google

Imagery Date: 3/18/2010

43°06'23.01" N 79°03'13.76" W elev 594 ft

Eye alt 1656 ft

EMPIRE **GEO** SERVICES, INC.

A SUBSIDIARY OF SJB SERVICES, INC.



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October 17, 2012

Empire GeoServices Project No. BEV-11-023

New York State Department of Environmental Conservation
270 Michigan Avenue
Buffalo, New York 14203-2999

Phone: (716) 851-7220

Fax: (716) 851-7252

Attention: Timothy E. Dieffenbach, Engineering Geologist 2

Reference: October 2012 Groundwater Sampling
Off-Site Bedrock Groundwater Plume
915 Cleveland Avenue, Niagara Falls, New York
NYSDEC Site Number 932151

Dear Mr. Dieffenbach:

Empire GeoServices, Inc. (Empire) sampled groundwater from five monitoring wells at the above referenced site, as requested and authorized by the New York State Department of Environmental Conservation (NYSDEC). The purpose of this work was to assess bedrock groundwater quality downgradient of the 915 Cleveland Avenue site where previous remedial activities were completed by others.

GROUNDWATER SAMPLING

Monitoring wells BRMW-1, BRMW-2, BRMW-4, BRMW-7 and BRMW-8 were purged and sampled on October 1, 2012. The wells were purged by surging a disposable polyethylene bailer in the water column prior to purging the water from the well with the same bailer. Three well volumes were removed from each well prior to groundwater sampling. Physical characteristics of the purged and sampled groundwater were noted on the groundwater purging and sampling field forms which are attached.

ENVIRONMENTAL LABORATORY ANALYSIS

The collected groundwater samples were placed into pre-cleaned appropriate glass containers, labeled with the date, time, location of the project, and placed in an iced cooler at approximately 4-degrees Celsius for transport to TestAmerica

October 2012 Groundwater Sampling Event
915 Cleveland Avenue, Niagara Falls, New York
Page 1 of 2

MEMBER

ACEC New York

American Council of Engineering Companies of New York

Laboratories, Inc. (TestAmerica) in Amherst, New York. TestAmerica is a New York State Department of Health (NYSDOH) certified analytical testing laboratory. Chain-of-custody documentation accompanied the samples. The groundwater samples were analyzed for volatile organic compounds (VOCs) utilizing EPA Method 8260 for the Target Compound List. Test America's analytical report is attached.

This report has been prepared for the exclusive use of the New York State Department of Environmental Conservation for specific application to this project site in accordance with generally accepted environmental practices. If you have any questions or require further assistance, please contact our office at 716-649-8110.

Respectfully submitted,
EMPIRE GEOSERVICES, INC.



Stephen J. Bochenek
Engineering Geologist



David R. Steiner
Environmental Services Manager

Attachments:

Groundwater Purging and Sampling Field Forms

TestAmerica, Inc. Laboratory Report

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-25897-1

Client Project/Site: NYSDEC - 915 Cleveland Ave:Site# 932151

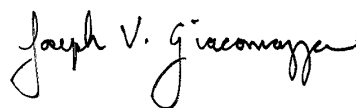
For:

New York State D.E.C.

270 Michigan Avenue

Buffalo, New York 14203

Attn: Timothy Dieffenbach



Authorized for release by:

10/11/2012 3:36:47 PM

Joe Giacomazza

Project Administrator

joe.giacomazza@testamericainc.com

Designee for

Brian Fischer

Project Manager II

brian.fischer@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



Visit us at:

www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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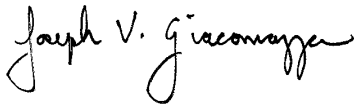
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I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.



Joe Giacomazza
Project Administrator
10/11/2012 3:36:47 PM

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Definitions/Glossary

Client: New York State D.E.C.

TestAmerica Job ID: 480-25897-1

Project/Site: NYSDEC - 915 Cleveland Ave:Site# 932151

Qualifiers

GC/MS VOA

| Qualifier | Qualifier Description |
|-----------|--|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|----------------|--|
| ☼ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CNF | Contains no Free Liquid |
| DL, RA, RE, IN | Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| EDL | Estimated Detection Limit |
| EPA | United States Environmental Protection Agency |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| ND | Not detected at the reporting limit (or MDL or EDL if shown) |
| PQL | Practical Quantitation Limit |
| QC | Quality Control |
| RL | Reporting Limit |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |

Case Narrative

Client: New York State D.E.C.
Project/Site: NYSDEC - 915 Cleveland Ave:Site# 932151

TestAmerica Job ID: 480-25897-1

Job ID: 480-25897-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-25897-1

Receipt

The samples were received on 10/1/2012 2:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.4° C.

GC/MS VOA

Method 8260B: The following samples were diluted to bring the concentration of target analytes within the calibration range: BRMW-2 (480-25897-2). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

Client Sample Results

Client: New York State D.E.C.
Project/Site: NYSDEC - 915 Cleveland Ave:Site# 932151

TestAmerica Job ID: 480-25897-1

Client Sample ID: BRMW-4

Date Collected: 10/01/12 10:30

Date Received: 10/01/12 14:40

Lab Sample ID: 480-25897-1

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | ND | | 1.0 | 0.82 | ug/L | | | 10/06/12 15:44 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.21 | ug/L | | | 10/06/12 15:44 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 1.0 | 0.31 | ug/L | | | 10/06/12 15:44 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.23 | ug/L | | | 10/06/12 15:44 | 1 |
| 1,1-Dichloroethane | ND | | 1.0 | 0.38 | ug/L | | | 10/06/12 15:44 | 1 |
| 1,1-Dichloroethene | ND | | 1.0 | 0.29 | ug/L | | | 10/06/12 15:44 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 1.0 | 0.41 | ug/L | | | 10/06/12 15:44 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | 0.39 | ug/L | | | 10/06/12 15:44 | 1 |
| 1,2-Dibromoethane | ND | | 1.0 | 0.73 | ug/L | | | 10/06/12 15:44 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.0 | 0.79 | ug/L | | | 10/06/12 15:44 | 1 |
| 1,2-Dichloroethane | ND | | 1.0 | 0.21 | ug/L | | | 10/06/12 15:44 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.72 | ug/L | | | 10/06/12 15:44 | 1 |
| 1,3-Dichlorobenzene | ND | | 1.0 | 0.78 | ug/L | | | 10/06/12 15:44 | 1 |
| 1,4-Dichlorobenzene | ND | | 1.0 | 0.84 | ug/L | | | 10/06/12 15:44 | 1 |
| 2-Butanone (MEK) | ND | | 10 | 1.3 | ug/L | | | 10/06/12 15:44 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 10/06/12 15:44 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 10/06/12 15:44 | 1 |
| Acetone | ND | | 10 | 3.0 | ug/L | | | 10/06/12 15:44 | 1 |
| Benzene | ND | | 1.0 | 0.41 | ug/L | | | 10/06/12 15:44 | 1 |
| Bromodichloromethane | ND | | 1.0 | 0.39 | ug/L | | | 10/06/12 15:44 | 1 |
| Bromoform | ND | | 1.0 | 0.26 | ug/L | | | 10/06/12 15:44 | 1 |
| Bromomethane | ND | | 1.0 | 0.69 | ug/L | | | 10/06/12 15:44 | 1 |
| Carbon disulfide | ND | | 1.0 | 0.19 | ug/L | | | 10/06/12 15:44 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.27 | ug/L | | | 10/06/12 15:44 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.75 | ug/L | | | 10/06/12 15:44 | 1 |
| Chloroethane | ND | | 1.0 | 0.32 | ug/L | | | 10/06/12 15:44 | 1 |
| Chloroform | ND | | 1.0 | 0.34 | ug/L | | | 10/06/12 15:44 | 1 |
| Chloromethane | ND | | 1.0 | 0.35 | ug/L | | | 10/06/12 15:44 | 1 |
| cis-1,2-Dichloroethene | 7.6 | | 1.0 | 0.81 | ug/L | | | 10/06/12 15:44 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.36 | ug/L | | | 10/06/12 15:44 | 1 |
| Cyclohexane | ND | | 1.0 | 0.18 | ug/L | | | 10/06/12 15:44 | 1 |
| Dibromochloromethane | ND | | 1.0 | 0.32 | ug/L | | | 10/06/12 15:44 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.68 | ug/L | | | 10/06/12 15:44 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.74 | ug/L | | | 10/06/12 15:44 | 1 |
| Isopropylbenzene | ND | | 1.0 | 0.79 | ug/L | | | 10/06/12 15:44 | 1 |
| Methyl acetate | ND | | 1.0 | 0.50 | ug/L | | | 10/06/12 15:44 | 1 |
| Methyl tert-butyl ether | ND | | 1.0 | 0.16 | ug/L | | | 10/06/12 15:44 | 1 |
| Methylcyclohexane | ND | | 1.0 | 0.16 | ug/L | | | 10/06/12 15:44 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.44 | ug/L | | | 10/06/12 15:44 | 1 |
| Styrene | ND | | 1.0 | 0.73 | ug/L | | | 10/06/12 15:44 | 1 |
| Tetrachloroethene | 5.5 | | 1.0 | 0.36 | ug/L | | | 10/06/12 15:44 | 1 |
| Toluene | ND | | 1.0 | 0.51 | ug/L | | | 10/06/12 15:44 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 10/06/12 15:44 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.37 | ug/L | | | 10/06/12 15:44 | 1 |
| Trichloroethene | 1.0 | | 1.0 | 0.46 | ug/L | | | 10/06/12 15:44 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.88 | ug/L | | | 10/06/12 15:44 | 1 |
| Vinyl chloride | ND | | 1.0 | 0.90 | ug/L | | | 10/06/12 15:44 | 1 |
| Xylenes, Total | ND | | 2.0 | 0.66 | ug/L | | | 10/06/12 15:44 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 111 | | 66 - 137 | | 10/06/12 15:44 | 1 |

Client Sample Results

Client: New York State D.E.C.
Project/Site: NYSDEC - 915 Cleveland Ave:Site# 932151

TestAmerica Job ID: 480-25897-1

Client Sample ID: BRMW-4

Date Collected: 10/01/12 10:30

Date Received: 10/01/12 14:40

Lab Sample ID: 480-25897-1

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| <i>Surrogate</i> | <i>%Recovery</i> | <i>Qualifier</i> | <i>Limits</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Dil Fac</i> |
|-----------------------------|------------------|------------------|---------------|-----------------|-----------------|----------------|
| 4-Bromofluorobenzene (Surr) | 90 | | 73 - 120 | | 10/06/12 15:44 | 1 |
| Toluene-d8 (Surr) | 105 | | 71 - 126 | | 10/06/12 15:44 | 1 |

Client Sample Results

Client: New York State D.E.C.
Project/Site: NYSDEC - 915 Cleveland Ave:Site# 932151

TestAmerica Job ID: 480-25897-1

Client Sample ID: BRMW-2

Lab Sample ID: 480-25897-2

Date Collected: 10/01/12 11:20

Matrix: Water

Date Received: 10/01/12 14:40

Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | ND | | 1.0 | 0.82 | ug/L | | | 10/06/12 16:06 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.21 | ug/L | | | 10/06/12 16:06 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 1.0 | 0.31 | ug/L | | | 10/06/12 16:06 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.23 | ug/L | | | 10/06/12 16:06 | 1 |
| 1,1-Dichloroethane | ND | | 1.0 | 0.38 | ug/L | | | 10/06/12 16:06 | 1 |
| 1,1-Dichloroethene | ND | | 1.0 | 0.29 | ug/L | | | 10/06/12 16:06 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 1.0 | 0.41 | ug/L | | | 10/06/12 16:06 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | 0.39 | ug/L | | | 10/06/12 16:06 | 1 |
| 1,2-Dibromoethane | ND | | 1.0 | 0.73 | ug/L | | | 10/06/12 16:06 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.0 | 0.79 | ug/L | | | 10/06/12 16:06 | 1 |
| 1,2-Dichloroethane | ND | | 1.0 | 0.21 | ug/L | | | 10/06/12 16:06 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.72 | ug/L | | | 10/06/12 16:06 | 1 |
| 1,3-Dichlorobenzene | ND | | 1.0 | 0.78 | ug/L | | | 10/06/12 16:06 | 1 |
| 1,4-Dichlorobenzene | ND | | 1.0 | 0.84 | ug/L | | | 10/06/12 16:06 | 1 |
| 2-Butanone (MEK) | ND | | 10 | 1.3 | ug/L | | | 10/06/12 16:06 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 10/06/12 16:06 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 10/06/12 16:06 | 1 |
| Acetone | ND | | 10 | 3.0 | ug/L | | | 10/06/12 16:06 | 1 |
| Benzene | ND | | 1.0 | 0.41 | ug/L | | | 10/06/12 16:06 | 1 |
| Bromodichloromethane | ND | | 1.0 | 0.39 | ug/L | | | 10/06/12 16:06 | 1 |
| Bromoform | ND | | 1.0 | 0.26 | ug/L | | | 10/06/12 16:06 | 1 |
| Bromomethane | ND | | 1.0 | 0.69 | ug/L | | | 10/06/12 16:06 | 1 |
| Carbon disulfide | ND | | 1.0 | 0.19 | ug/L | | | 10/06/12 16:06 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.27 | ug/L | | | 10/06/12 16:06 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.75 | ug/L | | | 10/06/12 16:06 | 1 |
| Chloroethane | ND | | 1.0 | 0.32 | ug/L | | | 10/06/12 16:06 | 1 |
| Chloroform | ND | | 1.0 | 0.34 | ug/L | | | 10/06/12 16:06 | 1 |
| Chloromethane | ND | | 1.0 | 0.35 | ug/L | | | 10/06/12 16:06 | 1 |
| cis-1,2-Dichloroethene | 2.0 | | 1.0 | 0.81 | ug/L | | | 10/06/12 16:06 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.36 | ug/L | | | 10/06/12 16:06 | 1 |
| Cyclohexane | ND | | 1.0 | 0.18 | ug/L | | | 10/06/12 16:06 | 1 |
| Dibromochloromethane | ND | | 1.0 | 0.32 | ug/L | | | 10/06/12 16:06 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.68 | ug/L | | | 10/06/12 16:06 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.74 | ug/L | | | 10/06/12 16:06 | 1 |
| Isopropylbenzene | ND | | 1.0 | 0.79 | ug/L | | | 10/06/12 16:06 | 1 |
| Methyl acetate | ND | | 1.0 | 0.50 | ug/L | | | 10/06/12 16:06 | 1 |
| Methyl tert-butyl ether | ND | | 1.0 | 0.16 | ug/L | | | 10/06/12 16:06 | 1 |
| Methylcyclohexane | ND | | 1.0 | 0.16 | ug/L | | | 10/06/12 16:06 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.44 | ug/L | | | 10/06/12 16:06 | 1 |
| Styrene | ND | | 1.0 | 0.73 | ug/L | | | 10/06/12 16:06 | 1 |
| Toluene | ND | | 1.0 | 0.51 | ug/L | | | 10/06/12 16:06 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 10/06/12 16:06 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.37 | ug/L | | | 10/06/12 16:06 | 1 |
| Trichloroethene | 2.5 | | 1.0 | 0.46 | ug/L | | | 10/06/12 16:06 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.88 | ug/L | | | 10/06/12 16:06 | 1 |
| Vinyl chloride | ND | | 1.0 | 0.90 | ug/L | | | 10/06/12 16:06 | 1 |
| Xylenes, Total | ND | | 2.0 | 0.66 | ug/L | | | 10/06/12 16:06 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 110 | | 66 - 137 | | 10/06/12 16:06 | 1 |
| 4-Bromofluorobenzene (Surr) | 91 | | 73 - 120 | | 10/06/12 16:06 | 1 |

Client Sample Results

Client: New York State D.E.C.
Project/Site: NYSDEC - 915 Cleveland Ave:Site# 932151

TestAmerica Job ID: 480-25897-1

Client Sample ID: BRMW-2

Date Collected: 10/01/12 11:20

Date Received: 10/01/12 14:40

Lab Sample ID: 480-25897-2

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-------------------|-----------|-----------|----------|----------|----------------|---------|
| Toluene-d8 (Surr) | 108 | | 71 - 126 | | 10/06/12 16:06 | 1 |

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Tetrachloroethene | 120 | | 2.0 | 0.72 | ug/L | | | 10/08/12 13:04 | 2 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 111 | | 66 - 137 | | 10/08/12 13:04 | 2 |
| 4-Bromofluorobenzene (Surr) | 92 | | 73 - 120 | | 10/08/12 13:04 | 2 |
| Toluene-d8 (Surr) | 104 | | 71 - 126 | | 10/08/12 13:04 | 2 |

Client Sample Results

Client: New York State D.E.C.
Project/Site: NYSDEC - 915 Cleveland Ave:Site# 932151

TestAmerica Job ID: 480-25897-1

Client Sample ID: BRMW-7

Lab Sample ID: 480-25897-3

Date Collected: 10/01/12 12:14

Matrix: Water

Date Received: 10/01/12 14:40

Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | ND | | 1.0 | 0.82 | ug/L | | | 10/06/12 16:28 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.21 | ug/L | | | 10/06/12 16:28 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 1.0 | 0.31 | ug/L | | | 10/06/12 16:28 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.23 | ug/L | | | 10/06/12 16:28 | 1 |
| 1,1-Dichloroethane | ND | | 1.0 | 0.38 | ug/L | | | 10/06/12 16:28 | 1 |
| 1,1-Dichloroethene | ND | | 1.0 | 0.29 | ug/L | | | 10/06/12 16:28 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 1.0 | 0.41 | ug/L | | | 10/06/12 16:28 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | 0.39 | ug/L | | | 10/06/12 16:28 | 1 |
| 1,2-Dibromoethane | ND | | 1.0 | 0.73 | ug/L | | | 10/06/12 16:28 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.0 | 0.79 | ug/L | | | 10/06/12 16:28 | 1 |
| 1,2-Dichloroethane | ND | | 1.0 | 0.21 | ug/L | | | 10/06/12 16:28 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.72 | ug/L | | | 10/06/12 16:28 | 1 |
| 1,3-Dichlorobenzene | ND | | 1.0 | 0.78 | ug/L | | | 10/06/12 16:28 | 1 |
| 1,4-Dichlorobenzene | ND | | 1.0 | 0.84 | ug/L | | | 10/06/12 16:28 | 1 |
| 2-Butanone (MEK) | ND | | 10 | 1.3 | ug/L | | | 10/06/12 16:28 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 10/06/12 16:28 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 10/06/12 16:28 | 1 |
| Acetone | ND | | 10 | 3.0 | ug/L | | | 10/06/12 16:28 | 1 |
| Benzene | ND | | 1.0 | 0.41 | ug/L | | | 10/06/12 16:28 | 1 |
| Bromodichloromethane | ND | | 1.0 | 0.39 | ug/L | | | 10/06/12 16:28 | 1 |
| Bromoform | ND | | 1.0 | 0.26 | ug/L | | | 10/06/12 16:28 | 1 |
| Bromomethane | ND | | 1.0 | 0.69 | ug/L | | | 10/06/12 16:28 | 1 |
| Carbon disulfide | 1.2 | | 1.0 | 0.19 | ug/L | | | 10/06/12 16:28 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.27 | ug/L | | | 10/06/12 16:28 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.75 | ug/L | | | 10/06/12 16:28 | 1 |
| Chloroethane | ND | | 1.0 | 0.32 | ug/L | | | 10/06/12 16:28 | 1 |
| Chloroform | ND | | 1.0 | 0.34 | ug/L | | | 10/06/12 16:28 | 1 |
| Chloromethane | ND | | 1.0 | 0.35 | ug/L | | | 10/06/12 16:28 | 1 |
| cis-1,2-Dichloroethene | 2.1 | | 1.0 | 0.81 | ug/L | | | 10/06/12 16:28 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.36 | ug/L | | | 10/06/12 16:28 | 1 |
| Cyclohexane | ND | | 1.0 | 0.18 | ug/L | | | 10/06/12 16:28 | 1 |
| Dibromochloromethane | ND | | 1.0 | 0.32 | ug/L | | | 10/06/12 16:28 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.68 | ug/L | | | 10/06/12 16:28 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.74 | ug/L | | | 10/06/12 16:28 | 1 |
| Isopropylbenzene | ND | | 1.0 | 0.79 | ug/L | | | 10/06/12 16:28 | 1 |
| Methyl acetate | ND | | 1.0 | 0.50 | ug/L | | | 10/06/12 16:28 | 1 |
| Methyl tert-butyl ether | ND | | 1.0 | 0.16 | ug/L | | | 10/06/12 16:28 | 1 |
| Methylcyclohexane | 0.71 J | | 1.0 | 0.16 | ug/L | | | 10/06/12 16:28 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.44 | ug/L | | | 10/06/12 16:28 | 1 |
| Styrene | ND | | 1.0 | 0.73 | ug/L | | | 10/06/12 16:28 | 1 |
| Tetrachloroethene | 21 | | 1.0 | 0.36 | ug/L | | | 10/06/12 16:28 | 1 |
| Toluene | ND | | 1.0 | 0.51 | ug/L | | | 10/06/12 16:28 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 10/06/12 16:28 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.37 | ug/L | | | 10/06/12 16:28 | 1 |
| Trichloroethene | 2.8 | | 1.0 | 0.46 | ug/L | | | 10/06/12 16:28 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.88 | ug/L | | | 10/06/12 16:28 | 1 |
| Vinyl chloride | ND | | 1.0 | 0.90 | ug/L | | | 10/06/12 16:28 | 1 |
| Xylenes, Total | ND | | 2.0 | 0.66 | ug/L | | | 10/06/12 16:28 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 113 | | 66 - 137 | | 10/06/12 16:28 | 1 |

Client Sample Results

Client: New York State D.E.C.
Project/Site: NYSDEC - 915 Cleveland Ave:Site# 932151

TestAmerica Job ID: 480-25897-1

Client Sample ID: BRMW-7

Date Collected: 10/01/12 12:14

Date Received: 10/01/12 14:40

Lab Sample ID: 480-25897-3

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| <i>Surrogate</i> | <i>%Recovery</i> | <i>Qualifier</i> | <i>Limits</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Dil Fac</i> |
|-----------------------------|------------------|------------------|---------------|-----------------|-----------------|----------------|
| 4-Bromofluorobenzene (Surr) | 90 | | 73 - 120 | | 10/06/12 16:28 | 1 |
| Toluene-d8 (Surr) | 107 | | 71 - 126 | | 10/06/12 16:28 | 1 |

Client Sample Results

Client: New York State D.E.C.
Project/Site: NYSDEC - 915 Cleveland Ave:Site# 932151

TestAmerica Job ID: 480-25897-1

Client Sample ID: BRMW-1

Lab Sample ID: 480-25897-4

Date Collected: 10/01/12 13:02

Matrix: Water

Date Received: 10/01/12 14:40

Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | ND | | 1.0 | 0.82 | ug/L | | | 10/06/12 16:50 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.21 | ug/L | | | 10/06/12 16:50 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 1.0 | 0.31 | ug/L | | | 10/06/12 16:50 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.23 | ug/L | | | 10/06/12 16:50 | 1 |
| 1,1-Dichloroethane | ND | | 1.0 | 0.38 | ug/L | | | 10/06/12 16:50 | 1 |
| 1,1-Dichloroethene | ND | | 1.0 | 0.29 | ug/L | | | 10/06/12 16:50 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 1.0 | 0.41 | ug/L | | | 10/06/12 16:50 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | 0.39 | ug/L | | | 10/06/12 16:50 | 1 |
| 1,2-Dibromoethane | ND | | 1.0 | 0.73 | ug/L | | | 10/06/12 16:50 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.0 | 0.79 | ug/L | | | 10/06/12 16:50 | 1 |
| 1,2-Dichloroethane | ND | | 1.0 | 0.21 | ug/L | | | 10/06/12 16:50 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.72 | ug/L | | | 10/06/12 16:50 | 1 |
| 1,3-Dichlorobenzene | ND | | 1.0 | 0.78 | ug/L | | | 10/06/12 16:50 | 1 |
| 1,4-Dichlorobenzene | ND | | 1.0 | 0.84 | ug/L | | | 10/06/12 16:50 | 1 |
| 2-Butanone (MEK) | ND | | 10 | 1.3 | ug/L | | | 10/06/12 16:50 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 10/06/12 16:50 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 10/06/12 16:50 | 1 |
| Acetone | ND | | 10 | 3.0 | ug/L | | | 10/06/12 16:50 | 1 |
| Benzene | ND | | 1.0 | 0.41 | ug/L | | | 10/06/12 16:50 | 1 |
| Bromodichloromethane | ND | | 1.0 | 0.39 | ug/L | | | 10/06/12 16:50 | 1 |
| Bromoform | ND | | 1.0 | 0.26 | ug/L | | | 10/06/12 16:50 | 1 |
| Bromomethane | ND | | 1.0 | 0.69 | ug/L | | | 10/06/12 16:50 | 1 |
| Carbon disulfide | 0.37 | J | 1.0 | 0.19 | ug/L | | | 10/06/12 16:50 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.27 | ug/L | | | 10/06/12 16:50 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.75 | ug/L | | | 10/06/12 16:50 | 1 |
| Chloroethane | ND | | 1.0 | 0.32 | ug/L | | | 10/06/12 16:50 | 1 |
| Chloroform | ND | | 1.0 | 0.34 | ug/L | | | 10/06/12 16:50 | 1 |
| Chloromethane | ND | | 1.0 | 0.35 | ug/L | | | 10/06/12 16:50 | 1 |
| cis-1,2-Dichloroethene | 6.1 | | 1.0 | 0.81 | ug/L | | | 10/06/12 16:50 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.36 | ug/L | | | 10/06/12 16:50 | 1 |
| Cyclohexane | ND | | 1.0 | 0.18 | ug/L | | | 10/06/12 16:50 | 1 |
| Dibromochloromethane | ND | | 1.0 | 0.32 | ug/L | | | 10/06/12 16:50 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.68 | ug/L | | | 10/06/12 16:50 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.74 | ug/L | | | 10/06/12 16:50 | 1 |
| Isopropylbenzene | ND | | 1.0 | 0.79 | ug/L | | | 10/06/12 16:50 | 1 |
| Methyl acetate | ND | | 1.0 | 0.50 | ug/L | | | 10/06/12 16:50 | 1 |
| Methyl tert-butyl ether | ND | | 1.0 | 0.16 | ug/L | | | 10/06/12 16:50 | 1 |
| Methylcyclohexane | 0.69 | J | 1.0 | 0.16 | ug/L | | | 10/06/12 16:50 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.44 | ug/L | | | 10/06/12 16:50 | 1 |
| Styrene | ND | | 1.0 | 0.73 | ug/L | | | 10/06/12 16:50 | 1 |
| Tetrachloroethene | 85 | | 1.0 | 0.36 | ug/L | | | 10/06/12 16:50 | 1 |
| Toluene | ND | | 1.0 | 0.51 | ug/L | | | 10/06/12 16:50 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 10/06/12 16:50 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.37 | ug/L | | | 10/06/12 16:50 | 1 |
| Trichloroethene | 5.0 | | 1.0 | 0.46 | ug/L | | | 10/06/12 16:50 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.88 | ug/L | | | 10/06/12 16:50 | 1 |
| Vinyl chloride | ND | | 1.0 | 0.90 | ug/L | | | 10/06/12 16:50 | 1 |
| Xylenes, Total | ND | | 2.0 | 0.66 | ug/L | | | 10/06/12 16:50 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 112 | | 66 - 137 | | 10/06/12 16:50 | 1 |

Client Sample Results

Client: New York State D.E.C.
Project/Site: NYSDEC - 915 Cleveland Ave:Site# 932151

TestAmerica Job ID: 480-25897-1

Client Sample ID: BRMW-1

Date Collected: 10/01/12 13:02

Date Received: 10/01/12 14:40

Lab Sample ID: 480-25897-4

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| <i>Surrogate</i> | <i>%Recovery</i> | <i>Qualifier</i> | <i>Limits</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Dil Fac</i> |
|-----------------------------|------------------|------------------|---------------|-----------------|-----------------|----------------|
| 4-Bromofluorobenzene (Surr) | 89 | | 73 - 120 | | 10/06/12 16:50 | 1 |
| Toluene-d8 (Surr) | 104 | | 71 - 126 | | 10/06/12 16:50 | 1 |

Client Sample Results

Client: New York State D.E.C.
Project/Site: NYSDEC - 915 Cleveland Ave:Site# 932151

TestAmerica Job ID: 480-25897-1

Client Sample ID: BRMW-8

Date Collected: 10/01/12 14:12

Date Received: 10/01/12 14:40

Lab Sample ID: 480-25897-5

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|-------------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | ND | | 1.0 | 0.82 | ug/L | | | 10/06/12 17:13 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.21 | ug/L | | | 10/06/12 17:13 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 1.0 | 0.31 | ug/L | | | 10/06/12 17:13 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.23 | ug/L | | | 10/06/12 17:13 | 1 |
| 1,1-Dichloroethane | ND | | 1.0 | 0.38 | ug/L | | | 10/06/12 17:13 | 1 |
| 1,1-Dichloroethene | ND | | 1.0 | 0.29 | ug/L | | | 10/06/12 17:13 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 1.0 | 0.41 | ug/L | | | 10/06/12 17:13 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | 0.39 | ug/L | | | 10/06/12 17:13 | 1 |
| 1,2-Dibromoethane | ND | | 1.0 | 0.73 | ug/L | | | 10/06/12 17:13 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.0 | 0.79 | ug/L | | | 10/06/12 17:13 | 1 |
| 1,2-Dichloroethane | ND | | 1.0 | 0.21 | ug/L | | | 10/06/12 17:13 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.72 | ug/L | | | 10/06/12 17:13 | 1 |
| 1,3-Dichlorobenzene | ND | | 1.0 | 0.78 | ug/L | | | 10/06/12 17:13 | 1 |
| 1,4-Dichlorobenzene | ND | | 1.0 | 0.84 | ug/L | | | 10/06/12 17:13 | 1 |
| 2-Butanone (MEK) | ND | | 10 | 1.3 | ug/L | | | 10/06/12 17:13 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 10/06/12 17:13 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 10/06/12 17:13 | 1 |
| Acetone | ND | | 10 | 3.0 | ug/L | | | 10/06/12 17:13 | 1 |
| Benzene | ND | | 1.0 | 0.41 | ug/L | | | 10/06/12 17:13 | 1 |
| Bromodichloromethane | ND | | 1.0 | 0.39 | ug/L | | | 10/06/12 17:13 | 1 |
| Bromoform | ND | | 1.0 | 0.26 | ug/L | | | 10/06/12 17:13 | 1 |
| Bromomethane | ND | | 1.0 | 0.69 | ug/L | | | 10/06/12 17:13 | 1 |
| Carbon disulfide | ND | | 1.0 | 0.19 | ug/L | | | 10/06/12 17:13 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.27 | ug/L | | | 10/06/12 17:13 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.75 | ug/L | | | 10/06/12 17:13 | 1 |
| Chloroethane | ND | | 1.0 | 0.32 | ug/L | | | 10/06/12 17:13 | 1 |
| Chloroform | ND | | 1.0 | 0.34 | ug/L | | | 10/06/12 17:13 | 1 |
| Chloromethane | ND | | 1.0 | 0.35 | ug/L | | | 10/06/12 17:13 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.81 | ug/L | | | 10/06/12 17:13 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.36 | ug/L | | | 10/06/12 17:13 | 1 |
| Cyclohexane | ND | | 1.0 | 0.18 | ug/L | | | 10/06/12 17:13 | 1 |
| Dibromochloromethane | ND | | 1.0 | 0.32 | ug/L | | | 10/06/12 17:13 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.68 | ug/L | | | 10/06/12 17:13 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.74 | ug/L | | | 10/06/12 17:13 | 1 |
| Isopropylbenzene | ND | | 1.0 | 0.79 | ug/L | | | 10/06/12 17:13 | 1 |
| Methyl acetate | ND | | 1.0 | 0.50 | ug/L | | | 10/06/12 17:13 | 1 |
| Methyl tert-butyl ether | ND | | 1.0 | 0.16 | ug/L | | | 10/06/12 17:13 | 1 |
| Methylcyclohexane | ND | | 1.0 | 0.16 | ug/L | | | 10/06/12 17:13 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.44 | ug/L | | | 10/06/12 17:13 | 1 |
| Styrene | ND | | 1.0 | 0.73 | ug/L | | | 10/06/12 17:13 | 1 |
| Tetrachloroethene | 0.63 | J | 1.0 | 0.36 | ug/L | | | 10/06/12 17:13 | 1 |
| Toluene | ND | | 1.0 | 0.51 | ug/L | | | 10/06/12 17:13 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 10/06/12 17:13 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.37 | ug/L | | | 10/06/12 17:13 | 1 |
| Trichloroethene | ND | | 1.0 | 0.46 | ug/L | | | 10/06/12 17:13 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.88 | ug/L | | | 10/06/12 17:13 | 1 |
| Vinyl chloride | ND | | 1.0 | 0.90 | ug/L | | | 10/06/12 17:13 | 1 |
| Xylenes, Total | ND | | 2.0 | 0.66 | ug/L | | | 10/06/12 17:13 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 111 | | 66 - 137 | | 10/06/12 17:13 | 1 |

Client Sample Results

Client: New York State D.E.C.
Project/Site: NYSDEC - 915 Cleveland Ave:Site# 932151

TestAmerica Job ID: 480-25897-1

Client Sample ID: BRMW-8

Date Collected: 10/01/12 14:12

Date Received: 10/01/12 14:40

Lab Sample ID: 480-25897-5

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| <i>Surrogate</i> | <i>%Recovery</i> | <i>Qualifier</i> | <i>Limits</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Dil Fac</i> |
|-----------------------------|------------------|------------------|---------------|-----------------|-----------------|----------------|
| 4-Bromofluorobenzene (Surr) | 91 | | 73 - 120 | | 10/06/12 17:13 | 1 |
| Toluene-d8 (Surr) | 107 | | 71 - 126 | | 10/06/12 17:13 | 1 |

Lab Chronicle

Client: New York State D.E.C.
Project/Site: NYSDEC - 915 Cleveland Ave:Site# 932151

TestAmerica Job ID: 480-25897-1

Client Sample ID: BRMW-4

Date Collected: 10/01/12 10:30

Date Received: 10/01/12 14:40

Lab Sample ID: 480-25897-1

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260B | | 1 | 84219 | 10/06/12 15:44 | TRF | TAL BUF |

Client Sample ID: BRMW-2

Date Collected: 10/01/12 11:20

Date Received: 10/01/12 14:40

Lab Sample ID: 480-25897-2

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260B | | 1 | 84219 | 10/06/12 16:06 | TRF | TAL BUF |
| Total/NA | Analysis | 8260B | DL | 2 | 84362 | 10/08/12 13:04 | RL | TAL BUF |

Client Sample ID: BRMW-7

Date Collected: 10/01/12 12:14

Date Received: 10/01/12 14:40

Lab Sample ID: 480-25897-3

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260B | | 1 | 84219 | 10/06/12 16:28 | TRF | TAL BUF |

Client Sample ID: BRMW-1

Date Collected: 10/01/12 13:02

Date Received: 10/01/12 14:40

Lab Sample ID: 480-25897-4

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260B | | 1 | 84219 | 10/06/12 16:50 | TRF | TAL BUF |

Client Sample ID: BRMW-8

Date Collected: 10/01/12 14:12

Date Received: 10/01/12 14:40

Lab Sample ID: 480-25897-5

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260B | | 1 | 84219 | 10/06/12 17:13 | TRF | TAL BUF |

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Certification Summary

Client: New York State D.E.C.

TestAmerica Job ID: 480-25897-1

Project/Site: NYSDEC - 915 Cleveland Ave:Site# 932151

Laboratory: TestAmerica Buffalo

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|-------------------|---------------|------------|------------------|-----------------|
| Arkansas DEQ | State Program | 6 | 88-0686 | 07-06-13 |
| California | NELAC | 9 | 1169CA | 09-30-12 |
| Connecticut | State Program | 1 | PH-0568 | 09-30-12 |
| Florida | NELAC | 4 | E87672 | 06-30-13 |
| Georgia | State Program | 4 | N/A | 03-31-13 |
| Georgia | State Program | 4 | 956 | 03-31-12 |
| Illinois | NELAC | 5 | 200003 | 09-30-12 |
| Iowa | State Program | 7 | 374 | 03-01-13 |
| Kansas | NELAC | 7 | E-10187 | 01-31-13 |
| Kentucky | State Program | 4 | 90029 | 12-31-12 |
| Kentucky (UST) | State Program | 4 | 30 | 04-01-13 |
| Louisiana | NELAC | 6 | 02031 | 06-30-13 |
| Maine | State Program | 1 | NY00044 | 12-04-12 |
| Maryland | State Program | 3 | 294 | 03-31-13 |
| Massachusetts | State Program | 1 | M-NY044 | 06-30-13 |
| Michigan | State Program | 5 | 9937 | 04-01-13 |
| Minnesota | NELAC | 5 | 036-999-337 | 12-31-12 |
| New Hampshire | NELAC | 1 | 2973 | 09-11-13 |
| New Hampshire | NELAC | 1 | 2337 | 11-17-12 |
| New Jersey | NELAC | 2 | NY455 | 06-30-13 |
| New York | NELAC | 2 | 10026 | 03-31-13 |
| North Dakota | State Program | 8 | R-176 | 03-31-13 |
| Oklahoma | State Program | 6 | 9421 | 08-31-13 |
| Oregon | NELAC | 10 | NY200003 | 06-09-13 |
| Pennsylvania | NELAC | 3 | 68-00281 | 07-31-13 |
| Tennessee | State Program | 4 | TN02970 | 04-01-13 |
| Texas | NELAC | 6 | T104704412-11-2 | 07-31-13 |
| USDA | Federal | | P330-11-00386 | 11-22-14 |
| Virginia | NELAC | 3 | 460185 | 09-14-13 |
| Washington | State Program | 10 | C784 | 02-10-13 |
| West Virginia DEP | State Program | 3 | 252 | 09-30-12 |
| Wisconsin | State Program | 5 | 998310390 | 08-31-13 |

Method Summary

Client: New York State D.E.C.

TestAmerica Job ID: 480-25897-1

Project/Site: NYSDEC - 915 Cleveland Ave:Site# 932151

| Method | Method Description | Protocol | Laboratory |
|--------|------------------------------------|----------|------------|
| 8260B | Volatile Organic Compounds (GC/MS) | SW846 | TAL BUF |

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: New York State D.E.C.

TestAmerica Job ID: 480-25897-1

Project/Site: NYSDEC - 915 Cleveland Ave:Site# 932151

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 480-25897-1 | BRMW-4 | Water | 10/01/12 10:30 | 10/01/12 14:40 |
| 480-25897-2 | BRMW-2 | Water | 10/01/12 11:20 | 10/01/12 14:40 |
| 480-25897-3 | BRMW-7 | Water | 10/01/12 12:14 | 10/01/12 14:40 |
| 480-25897-4 | BRMW-1 | Water | 10/01/12 13:02 | 10/01/12 14:40 |
| 480-25897-5 | BRMW-8 | Water | 10/01/12 14:12 | 10/01/12 14:40 |

Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Temperature on Receipt _____
 Drinking Water? Yes ☐ No ☒

Client: **NYSDEC - Region 9**
 Address: **270 Michigan Avenue**
 City: **Buffalo** State: **NY** Zip Code: _____
 Project Name and Location (State): **NYSDEC Spill No. 932151**
 Cleveland Avenue, Niagara Falls
 Contract/Purchase Order/Quote No.: _____

Project Manager: **Tim Dieffenbach / (Empire Geosound)** Date: **10.1.12**
 Telephone Number (Area Code)/Fax Number: **716-851-7330 / 716-649-8110**
 Site Contact: _____ Lab Contact: _____
 Chain of Custody Number: **215696**
 Page **1** of **1**

| Sample I.D. No. and Description (Containers for each sample may be combined on one line) | Date | Matrix | | | Containers & Preservatives | | | | | Analysis (Attach list if more space is needed) | Special Instructions/ Conditions of Receipt |
|---|---------|--------|-----|------|----------------------------|-------|------|-----|------|--|--|
| | | Air | Sed | Soil | Unpres. | H2SO4 | HNO3 | HCl | NaOH | | |
| BRMW-4 | 10.1.12 | X | | | | | | X | | X | |
| BRMW-2 | 10.1.12 | X | | | | | | X | | X | |
| BRMW-7 | 10.1.12 | X | | | | | | X | | X | |
| BRMW-1 | 10.1.12 | X | | | | | | X | | X | |
| BRMW-8 | 10.1.12 | X | | | | | | X | | X | |

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days

Sample Disposal
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months
 (A fee may be assessed if samples are retained longer than 1 month)

QC Requirements (Specify): _____

Relinquished By: **Bob** Date: **10.1.12** Time: **1440**
 Relinquished By: _____ Date: _____ Time: _____
 Relinquished By: _____ Date: _____ Time: _____

Comments: **1414**

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 480-25897-1

Login Number: 25897

List Source: TestAmerica Buffalo

List Number: 1

Creator: Janish, Carl

| Question | Answer | Comment |
|--|--------|---------|
| Radioactivity either was not measured or, if measured, is at or below background | True | |
| The cooler's custody seal, if present, is intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the sample IDs on the containers and the COC. | True | |
| Samples are received within Holding Time. | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter. | True | |
| If necessary, staff have been informed of any short hold time or quick TAT needs | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Sampling Company provided. | True | empire |
| Samples received within 48 hours of sampling. | True | |
| Samples requiring field filtration have been filtered in the field. | N/A | |
| Chlorine Residual checked. | N/A | |

| HNu/PPM | LEL/% | O ₂ /% | H ₂ S/PPM | CO/PPM | |
|---------|-------|-------------------|----------------------|--------|--|
| | | | | | |
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| HNu/PPM | LEL/% | O ₂ /% | H ₂ S/PPM | CO/PPM | |
|---------|-------|-------------------|----------------------|--------|--|
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| HNu/PPM | LEL/% | O ₂ /% | H ₂ S/PPM | CO/PPM | |
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| HNu/PPM | LEL/% | O ₂ /% | H ₂ S/PPM | CO/PPM | |
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