TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

# ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
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TestAmerica Job ID: 480-20114-1
Client Project/Site: NYSDEC - Patton's Busy Bee:site #902014

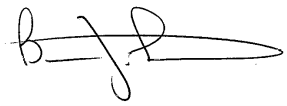
For:
New York State D.E.C.
270 Michigan Avenue
Buffalo, New York 14203

Attn: Mr. Brian Sadowski

*Authorized for release by:*
*5/29/2012 11:55:20 AM*

Brian Fischer
Project Manager II
brian.fischer@testamericainc.com

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.



Brian Fischer
Project Manager II
*5/29/2012 11:55:20 AM*

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# Definitions/Glossary

Client: New York State D.E.C.
Project/Site: NYSDEC - Patton's Busy Bee:site #902014

TestAmerica Job ID: 480-20114-1

## 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. |

### GC/MS Semi VOA

| Qualifier | Qualifier Description |
|---|---|
| X | Surrogate is outside control limits |
| * | LCS or LCSD exceeds the control limits |
| * | RPD of the LCS and LCSD exceeds the control limits |

### GC Semi 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. |

### Metals

| 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. |

### General Chemistry

| Qualifier | Qualifier Description |
|---|---|
| b | Result Detected in the USB |

## 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) |

## Job ID: 480-20114-1

### Laboratory: TestAmerica Buffalo

**Narrative**

**Job Narrative**
**480-20114-1**

**Comments**
No additional comments.

**Receipt**
The samples were received on 5/16/2012 9:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.8º C.

**GC/MS VOA**
Method(s) 8260B: The following sample was diluted due to the abundance of target analytes: BBT2 LEACHATE (480-20114-1). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

**GC/MS Semi VOA**
Method(s) 8270C: The following sample contained one acid and/or one base surrogate outside acceptance limits: BBT2 LEACHATE (480-20114-1). The laboratory's SOP allows one acid surrogate and/or one base surrogate to be outside acceptance limits; therefore, re-extraction/re-analysis was not performed. These results have been reported and qualified.

Method(s) 8270C: The following compound was outside control limits in the continuing calibration verification (CCV) associated with batch 65305: Atrazine. This compound is not classified as a Calibration Check Compound (CCC) in the reference method. Due to the large number of analytes contained in the CCV, the laboratory's SOP allows for four analytes to be outside limits; therefore, the data have been reported.

Method(s) 8270C: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 64974 exceeded control limits for multiple analytes. The recoveries were within quality control acceptance limits, therefore the data has been qualified and reported.\

Method(s) 8270C: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 64974 exceeded control limits for multiple analytes. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No other analytical or quality issues were noted.

**GC Semi VOA**
No analytical or quality issues were noted.

**Metals**
No analytical or quality issues were noted.

**General Chemistry**
Method(s) SM 5210B: The sample duplicate for the following sample associated with batch 64914 was not set due to insuffient volume: BBT2 LEACHATE (480-20114-1).

Method(s) SM 5210B: The dilution water D.O. depletion was greater than 0.2 mg/L but less than the reporting limit of 2.0 mg/L for batch 64914. The associated sample results are reported. (USB 480-64914/1)

Method(s) SM 5210B: The dilution water D.O. depletion was greater than 0.2 mg/L but less than the reporting limit of 2.0 mg/L for batch 64901. The associated sample results are reported.

No other analytical or quality issues were noted.

**Organic Prep**

## Job ID: 480-20114-1 (Continued)

### Laboratory: TestAmerica Buffalo (Continued)

Method(s) 3510C: Insufficient sample volume was available to perform batch matrix spike/matrix spike duplicate (MS/MSD) associated with batch 64881. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method(s) 3510C: Insufficient sample volume was available to perform batch matrix spike/matrix spike duplicate (MS/MSD) associated with batch 64974. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method(s) 3510C: Insufficient sample volume was available to perform batch matrix spike/matrix spike duplicate (MS/MSD) associated with batch 64885. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

No other analytical or quality issues were noted.

Client: New York State D.E.C.
Project/Site: NYSDEC - Patton's Busy Bee:site #902014

TestAmerica Job ID: 480-20114-1

## Client Sample ID: BBT2 LEACHATE

**Date Collected: 05/15/12 12:25**
**Date Received: 05/16/12 09:45**

## Lab Sample ID: 480-20114-1

**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **1,1,1-Trichloroethane** | **3.1** | | 1.0 | 0.82 | ug/L | | | 05/18/12 12:25 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.21 | ug/L | | | 05/18/12 12:25 | 1 |
| **1,1,2-Trichloroethane** | **0.85** | **J** | 1.0 | 0.23 | ug/L | | | 05/18/12 12:25 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 1.0 | 0.31 | ug/L | | | 05/18/12 12:25 | 1 |
| **1,1-Dichloroethane** | **6.7** | | 1.0 | 0.38 | ug/L | | | 05/18/12 12:25 | 1 |
| **1,1-Dichloroethene** | **3.4** | | 1.0 | 0.29 | ug/L | | | 05/18/12 12:25 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 1.0 | 0.41 | ug/L | | | 05/18/12 12:25 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | 0.39 | ug/L | | | 05/18/12 12:25 | 1 |
| 1,2-Dibromoethane | ND | | 1.0 | 0.73 | ug/L | | | 05/18/12 12:25 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.0 | 0.79 | ug/L | | | 05/18/12 12:25 | 1 |
| **1,2-Dichloroethane** | **0.47** | **J** | 1.0 | 0.21 | ug/L | | | 05/18/12 12:25 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.72 | ug/L | | | 05/18/12 12:25 | 1 |
| 1,3-Dichlorobenzene | ND | | 1.0 | 0.78 | ug/L | | | 05/18/12 12:25 | 1 |
| 1,4-Dichlorobenzene | ND | | 1.0 | 0.84 | ug/L | | | 05/18/12 12:25 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 05/18/12 12:25 | 1 |
| 2-Butanone (MEK) | ND | | 10 | 1.3 | ug/L | | | 05/18/12 12:25 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 05/18/12 12:25 | 1 |
| Acetone | ND | | 10 | 3.0 | ug/L | | | 05/18/12 12:25 | 1 |
| **Benzene** | **0.61** | **J** | 1.0 | 0.41 | ug/L | | | 05/18/12 12:25 | 1 |
| Bromodichloromethane | ND | | 1.0 | 0.39 | ug/L | | | 05/18/12 12:25 | 1 |
| Bromoform | ND | | 1.0 | 0.26 | ug/L | | | 05/18/12 12:25 | 1 |
| Bromomethane | ND | | 1.0 | 0.69 | ug/L | | | 05/18/12 12:25 | 1 |
| Carbon disulfide | ND | | 1.0 | 0.19 | ug/L | | | 05/18/12 12:25 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.27 | ug/L | | | 05/18/12 12:25 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.75 | ug/L | | | 05/18/12 12:25 | 1 |
| Dibromochloromethane | ND | | 1.0 | 0.32 | ug/L | | | 05/18/12 12:25 | 1 |
| **Chloroethane** | **1.2** | | 1.0 | 0.32 | ug/L | | | 05/18/12 12:25 | 1 |
| Chloroform | ND | | 1.0 | 0.34 | ug/L | | | 05/18/12 12:25 | 1 |
| Chloromethane | ND | | 1.0 | 0.35 | ug/L | | | 05/18/12 12:25 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.36 | ug/L | | | 05/18/12 12:25 | 1 |
| Cyclohexane | ND | | 1.0 | 0.18 | ug/L | | | 05/18/12 12:25 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.68 | ug/L | | | 05/18/12 12:25 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.74 | ug/L | | | 05/18/12 12:25 | 1 |
| Isopropylbenzene | ND | | 1.0 | 0.79 | ug/L | | | 05/18/12 12:25 | 1 |
| Methyl acetate | ND | | 1.0 | 0.50 | ug/L | | | 05/18/12 12:25 | 1 |
| Methyl tert-butyl ether | ND | | 1.0 | 0.16 | ug/L | | | 05/18/12 12:25 | 1 |
| Methylcyclohexane | ND | | 1.0 | 0.16 | ug/L | | | 05/18/12 12:25 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.44 | ug/L | | | 05/18/12 12:25 | 1 |
| Styrene | ND | | 1.0 | 0.73 | ug/L | | | 05/18/12 12:25 | 1 |
| Tetrachloroethene | ND | | 1.0 | 0.36 | ug/L | | | 05/18/12 12:25 | 1 |
| Toluene | ND | | 1.0 | 0.51 | ug/L | | | 05/18/12 12:25 | 1 |
| **trans-1,2-Dichloroethene** | **5.2** | | 1.0 | 0.90 | ug/L | | | 05/18/12 12:25 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.37 | ug/L | | | 05/18/12 12:25 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.88 | ug/L | | | 05/18/12 12:25 | 1 |
| **Vinyl chloride** | **52** | | 1.0 | 0.90 | ug/L | | | 05/18/12 12:25 | 1 |
| **Xylenes, Total** | **0.66** | **J** | 2.0 | 0.66 | ug/L | | | 05/18/12 12:25 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *111* | | *66 - 137* | | *05/18/12 12:25* | *1* |
| *Toluene-d8 (Surr)* | *110* | | *71 - 126* | | *05/18/12 12:25* | *1* |
| *4-Bromofluorobenzene (Surr)* | *102* | | *73 - 120* | | *05/18/12 12:25* | *1* |

## Client Sample ID: BBT2 LEACHATE

**Date Collected: 05/15/12 12:25**
**Date Received: 05/16/12 09:45**

## Lab Sample ID: 480-20114-1

**Matrix: Water**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| cis-1,2-Dichloroethene | 420 | | 8.0 | 6.5 | ug/L | | | 05/19/12 01:12 | 8 |
| Trichloroethene | 260 | | 8.0 | 3.7 | ug/L | | | 05/19/12 01:12 | 8 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *109* | | *66 - 137* | | *05/19/12 01:12* | *8* |
| *Toluene-d8 (Surr)* | *110* | | *71 - 126* | | *05/19/12 01:12* | *8* |
| *4-Bromofluorobenzene (Surr)* | *101* | | *73 - 120* | | *05/19/12 01:12* | *8* |

### Method: 8270C - Semivolatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Biphenyl | ND | | 4.8 | 0.62 | ug/L | | 05/18/12 06:45 | 05/22/12 00:12 | 1 |
| bis (2-chloroisopropyl) ether | ND | | 4.8 | 0.50 | ug/L | | 05/18/12 06:45 | 05/22/12 00:12 | 1 |
| 2,4,5-Trichlorophenol | ND | | 4.8 | 0.46 | ug/L | | 05/18/12 06:45 | 05/22/12 00:12 | 1 |
| 2,4,6-Trichlorophenol | ND | | 4.8 | 0.58 | ug/L | | 05/18/12 06:45 | 05/22/12 00:12 | 1 |
| 2,4-Dichlorophenol | ND | | 4.8 | 0.49 | ug/L | | 05/18/12 06:45 | 05/22/12 00:12 | 1 |
| 2,4-Dimethylphenol | ND | | 4.8 | 0.48 | ug/L | | 05/18/12 06:45 | 05/22/12 00:12 | 1 |
| 2,4-Dinitrophenol | ND | | 9.5 | 2.1 | ug/L | | 05/18/12 06:45 | 05/22/12 00:12 | 1 |
| 2,4-Dinitrotoluene | ND | | 4.8 | 0.43 | ug/L | | 05/18/12 06:45 | 05/22/12 00:12 | 1 |
| 2,6-Dinitrotoluene | ND | | 4.8 | 0.38 | ug/L | | 05/18/12 06:45 | 05/22/12 00:12 | 1 |
| 2-Chloronaphthalene | ND | | 4.8 | 0.44 | ug/L | | 05/18/12 06:45 | 05/22/12 00:12 | 1 |
| 2-Chlorophenol | ND | | 4.8 | 0.50 | ug/L | | 05/18/12 06:45 | 05/22/12 00:12 | 1 |
| 2-Methylnaphthalene | ND | | 4.8 | 0.57 | ug/L | | 05/18/12 06:45 | 05/22/12 00:12 | 1 |
| 2-Methylphenol | ND | | 4.8 | 0.38 | ug/L | | 05/18/12 06:45 | 05/22/12 00:12 | 1 |
| 2-Nitroaniline | ND | | 9.5 | 0.40 | ug/L | | 05/18/12 06:45 | 05/22/12 00:12 | 1 |
| 2-Nitrophenol | ND | | 4.8 | 0.46 | ug/L | | 05/18/12 06:45 | 05/22/12 00:12 | 1 |
| 3,3'-Dichlorobenzidine | ND | | 4.8 | 0.38 | ug/L | | 05/18/12 06:45 | 05/22/12 00:12 | 1 |
| 3-Nitroaniline | ND | | 9.5 | 0.46 | ug/L | | 05/18/12 06:45 | 05/22/12 00:12 | 1 |
| 4,6-Dinitro-2-methylphenol | ND | | 9.5 | 2.1 | ug/L | | 05/18/12 06:45 | 05/22/12 00:12 | 1 |
| 4-Bromophenyl phenyl ether | ND | | 4.8 | 0.43 | ug/L | | 05/18/12 06:45 | 05/22/12 00:12 | 1 |
| 4-Chloro-3-methylphenol | ND | | 4.8 | 0.43 | ug/L | | 05/18/12 06:45 | 05/22/12 00:12 | 1 |
| 4-Chloroaniline | ND | | 4.8 | 0.56 | ug/L | | 05/18/12 06:45 | 05/22/12 00:12 | 1 |
| 4-Chlorophenyl phenyl ether | ND | | 4.8 | 0.33 | ug/L | | 05/18/12 06:45 | 05/22/12 00:12 | 1 |
| 4-Methylphenol | ND | | 9.5 | 0.34 | ug/L | | 05/18/12 06:45 | 05/22/12 00:12 | 1 |
| 4-Nitroaniline | ND | | 9.5 | 0.24 | ug/L | | 05/18/12 06:45 | 05/22/12 00:12 | 1 |
| 4-Nitrophenol | ND | | 9.5 | 1.4 | ug/L | | 05/18/12 06:45 | 05/22/12 00:12 | 1 |
| Acenaphthene | ND | | 4.8 | 0.39 | ug/L | | 05/18/12 06:45 | 05/22/12 00:12 | 1 |
| Acenaphthylene | ND | | 4.8 | 0.36 | ug/L | | 05/18/12 06:45 | 05/22/12 00:12 | 1 |
| Acetophenone | ND | | 4.8 | 0.51 | ug/L | | 05/18/12 06:45 | 05/22/12 00:12 | 1 |
| Anthracene | ND | | 4.8 | 0.27 | ug/L | | 05/18/12 06:45 | 05/22/12 00:12 | 1 |
| Atrazine | ND | | 4.8 | 0.44 | ug/L | | 05/18/12 06:45 | 05/22/12 00:12 | 1 |
| Benzaldehyde | ND | | 4.8 | 0.25 | ug/L | | 05/18/12 06:45 | 05/22/12 00:12 | 1 |
| Benzo(a)anthracene | ND | | 4.8 | 0.34 | ug/L | | 05/18/12 06:45 | 05/22/12 00:12 | 1 |
| Benzo(a)pyrene | ND | * | 4.8 | 0.45 | ug/L | | 05/18/12 06:45 | 05/22/12 00:12 | 1 |
| Benzo(b)fluoranthene | ND | * | 4.8 | 0.32 | ug/L | | 05/18/12 06:45 | 05/22/12 00:12 | 1 |
| Benzo(g,h,i)perylene | ND | * | 4.8 | 0.33 | ug/L | | 05/18/12 06:45 | 05/22/12 00:12 | 1 |
| Benzo(k)fluoranthene | ND | * | 4.8 | 0.70 | ug/L | | 05/18/12 06:45 | 05/22/12 00:12 | 1 |
| Bis(2-chloroethoxy)methane | ND | | 4.8 | 0.33 | ug/L | | 05/18/12 06:45 | 05/22/12 00:12 | 1 |
| Bis(2-chloroethyl)ether | ND | | 4.8 | 0.38 | ug/L | | 05/18/12 06:45 | 05/22/12 00:12 | 1 |
| Bis(2-ethylhexyl) phthalate | ND | * | 4.8 | 1.7 | ug/L | | 05/18/12 06:45 | 05/22/12 00:12 | 1 |
| Butyl benzyl phthalate | ND | | 4.8 | 0.40 | ug/L | | 05/18/12 06:45 | 05/22/12 00:12 | 1 |
| Caprolactam | ND | | 4.8 | 2.1 | ug/L | | 05/18/12 06:45 | 05/22/12 00:12 | 1 |

Client: New York State D.E.C.
Project/Site: NYSDEC - Patton's Busy Bee:site #902014

TestAmerica Job ID: 480-20114-1

**Client Sample ID: BBT2 LEACHATE**
**Date Collected: 05/15/12 12:25**
**Date Received: 05/16/12 09:45**

**Lab Sample ID: 480-20114-1**
**Matrix: Water**

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Carbazole | ND | | 4.8 | 0.29 | ug/L | | 05/18/12 06:45 | 05/22/12 00:12 | 1 |
| Chrysene | ND | | 4.8 | 0.31 | ug/L | | 05/18/12 06:45 | 05/22/12 00:12 | 1 |
| Di-n-butyl phthalate | ND | | 4.8 | 0.30 | ug/L | | 05/18/12 06:45 | 05/22/12 00:12 | 1 |
| Di-n-octyl phthalate | ND | | 4.8 | 0.45 | ug/L | | 05/18/12 06:45 | 05/22/12 00:12 | 1 |
| Dibenz(a,h)anthracene | ND | * | 4.8 | 0.40 | ug/L | | 05/18/12 06:45 | 05/22/12 00:12 | 1 |
| Dibenzofuran | ND | | 9.5 | 0.49 | ug/L | | 05/18/12 06:45 | 05/22/12 00:12 | 1 |
| Diethyl phthalate | ND | | 4.8 | 0.21 | ug/L | | 05/18/12 06:45 | 05/22/12 00:12 | 1 |
| Dimethyl phthalate | ND | | 4.8 | 0.34 | ug/L | | 05/18/12 06:45 | 05/22/12 00:12 | 1 |
| Fluoranthene | ND | | 4.8 | 0.38 | ug/L | | 05/18/12 06:45 | 05/22/12 00:12 | 1 |
| Fluorene | ND | | 4.8 | 0.34 | ug/L | | 05/18/12 06:45 | 05/22/12 00:12 | 1 |
| Hexachlorobenzene | ND | | 4.8 | 0.49 | ug/L | | 05/18/12 06:45 | 05/22/12 00:12 | 1 |
| Hexachlorobutadiene | ND | * | 4.8 | 0.65 | ug/L | | 05/18/12 06:45 | 05/22/12 00:12 | 1 |
| Hexachlorocyclopentadiene | ND | | 4.8 | 0.56 | ug/L | | 05/18/12 06:45 | 05/22/12 00:12 | 1 |
| Hexachloroethane | ND | * | 4.8 | 0.56 | ug/L | | 05/18/12 06:45 | 05/22/12 00:12 | 1 |
| Indeno(1,2,3-cd)pyrene | ND | * | 4.8 | 0.45 | ug/L | | 05/18/12 06:45 | 05/22/12 00:12 | 1 |
| Isophorone | ND | | 4.8 | 0.41 | ug/L | | 05/18/12 06:45 | 05/22/12 00:12 | 1 |
| N-Nitrosodi-n-propylamine | ND | | 4.8 | 0.51 | ug/L | | 05/18/12 06:45 | 05/22/12 00:12 | 1 |
| N-Nitrosodiphenylamine | ND | | 4.8 | 0.49 | ug/L | | 05/18/12 06:45 | 05/22/12 00:12 | 1 |
| Naphthalene | ND | | 4.8 | 0.72 | ug/L | | 05/18/12 06:45 | 05/22/12 00:12 | 1 |
| Nitrobenzene | ND | | 4.8 | 0.28 | ug/L | | 05/18/12 06:45 | 05/22/12 00:12 | 1 |
| Pentachlorophenol | ND | | 9.5 | 2.1 | ug/L | | 05/18/12 06:45 | 05/22/12 00:12 | 1 |
| Phenanthrene | ND | | 4.8 | 0.42 | ug/L | | 05/18/12 06:45 | 05/22/12 00:12 | 1 |
| Phenol | ND | | 4.8 | 0.37 | ug/L | | 05/18/12 06:45 | 05/22/12 00:12 | 1 |
| Pyrene | ND | | 4.8 | 0.32 | ug/L | | 05/18/12 06:45 | 05/22/12 00:12 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2,4,6-Tribromophenol* | *135* | *X* | *52 - 132* | *05/18/12 06:45* | *05/22/12 00:12* | *1* |
| *2-Fluorobiphenyl* | *97* | | *48 - 120* | *05/18/12 06:45* | *05/22/12 00:12* | *1* |
| *2-Fluorophenol* | *41* | | *20 - 120* | *05/18/12 06:45* | *05/22/12 00:12* | *1* |
| *Nitrobenzene-d5* | *95* | | *46 - 120* | *05/18/12 06:45* | *05/22/12 00:12* | *1* |
| *p-Terphenyl-d14* | *44* | *X* | *67 - 150* | *05/18/12 06:45* | *05/22/12 00:12* | *1* |
| *Phenol-d5* | *30* | | *16 - 120* | *05/18/12 06:45* | *05/22/12 00:12* | *1* |

## Method: 8081A - Organochlorine Pesticides (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 4,4'-DDD | ND | | 0.049 | 0.0089 | ug/L | | 05/17/12 12:52 | 05/24/12 08:03 | 1 |
| **4,4'-DDE** | **0.011** | **J** | 0.049 | 0.011 | ug/L | | 05/17/12 12:52 | 05/24/12 08:03 | 1 |
| 4,4'-DDT | ND | | 0.049 | 0.011 | ug/L | | 05/17/12 12:52 | 05/24/12 08:03 | 1 |
| Aldrin | ND | | 0.049 | 0.0064 | ug/L | | 05/17/12 12:52 | 05/24/12 08:03 | 1 |
| alpha-BHC | ND | | 0.049 | 0.0064 | ug/L | | 05/17/12 12:52 | 05/24/12 08:03 | 1 |
| alpha-Chlordane | ND | | 0.049 | 0.014 | ug/L | | 05/17/12 12:52 | 05/24/12 08:03 | 1 |
| beta-BHC | ND | | 0.049 | 0.024 | ug/L | | 05/17/12 12:52 | 05/24/12 08:03 | 1 |
| delta-BHC | ND | | 0.049 | 0.0097 | ug/L | | 05/17/12 12:52 | 05/24/12 08:03 | 1 |
| Dieldrin | ND | | 0.049 | 0.0095 | ug/L | | 05/17/12 12:52 | 05/24/12 08:03 | 1 |
| **Endosulfan I** | **0.023** | **J** | 0.049 | 0.011 | ug/L | | 05/17/12 12:52 | 05/24/12 08:03 | 1 |
| Endosulfan II | ND | | 0.049 | 0.012 | ug/L | | 05/17/12 12:52 | 05/24/12 08:03 | 1 |
| Endosulfan sulfate | ND | | 0.049 | 0.015 | ug/L | | 05/17/12 12:52 | 05/24/12 08:03 | 1 |
| Endrin | ND | | 0.049 | 0.013 | ug/L | | 05/17/12 12:52 | 05/24/12 08:03 | 1 |
| Endrin aldehyde | ND | | 0.049 | 0.016 | ug/L | | 05/17/12 12:52 | 05/24/12 08:03 | 1 |
| Endrin ketone | ND | | 0.049 | 0.012 | ug/L | | 05/17/12 12:52 | 05/24/12 08:03 | 1 |
| gamma-BHC (Lindane) | ND | | 0.049 | 0.0058 | ug/L | | 05/17/12 12:52 | 05/24/12 08:03 | 1 |

## Client Sample ID: BBT2 LEACHATE

**Date Collected: 05/15/12 12:25**
**Date Received: 05/16/12 09:45**

## Lab Sample ID: 480-20114-1

**Matrix: Water**

### Method: 8081A - Organochlorine Pesticides (GC) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| gamma-Chlordane | ND | | 0.049 | 0.011 | ug/L | | 05/17/12 12:52 | 05/24/12 08:03 | 1 |
| Heptachlor | ND | | 0.049 | 0.0083 | ug/L | | 05/17/12 12:52 | 05/24/12 08:03 | 1 |
| Heptachlor epoxide | ND | | 0.049 | 0.0051 | ug/L | | 05/17/12 12:52 | 05/24/12 08:03 | 1 |
| Methoxychlor | ND | | 0.049 | 0.014 | ug/L | | 05/17/12 12:52 | 05/24/12 08:03 | 1 |
| Toxaphene | ND | | 0.49 | 0.12 | ug/L | | 05/17/12 12:52 | 05/24/12 08:03 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *DCB Decachlorobiphenyl* | *42* | | *16 - 120* | *05/17/12 12:52* | *05/24/12 08:03* | *1* |
| *Tetrachloro-m-xylene* | *67* | | *35 - 120* | *05/17/12 12:52* | *05/24/12 08:03* | *1* |

### Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 | ND | | 0.48 | 0.17 | ug/L | | 05/17/12 13:35 | 05/18/12 18:11 | 1 |
| PCB-1221 | ND | | 0.48 | 0.17 | ug/L | | 05/17/12 13:35 | 05/18/12 18:11 | 1 |
| PCB-1232 | ND | | 0.48 | 0.17 | ug/L | | 05/17/12 13:35 | 05/18/12 18:11 | 1 |
| PCB-1242 | ND | | 0.48 | 0.17 | ug/L | | 05/17/12 13:35 | 05/18/12 18:11 | 1 |
| PCB-1248 | ND | | 0.48 | 0.17 | ug/L | | 05/17/12 13:35 | 05/18/12 18:11 | 1 |
| PCB-1254 | ND | | 0.48 | 0.24 | ug/L | | 05/17/12 13:35 | 05/18/12 18:11 | 1 |
| PCB-1260 | ND | | 0.48 | 0.24 | ug/L | | 05/17/12 13:35 | 05/18/12 18:11 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *DCB Decachlorobiphenyl* | *31* | | *19 - 120* | *05/17/12 13:35* | *05/18/12 18:11* | *1* |
| *Tetrachloro-m-xylene* | *83* | | *23 - 127* | *05/17/12 13:35* | *05/18/12 18:11* | *1* |

### Method: 6010B - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Aluminum** | **0.079** | **J** | 0.20 | 0.060 | mg/L | | 05/18/12 09:00 | 05/18/12 15:54 | 1 |
| Antimony | ND | | 0.020 | 0.0068 | mg/L | | 05/18/12 09:00 | 05/22/12 18:57 | 1 |
| **Arsenic** | **0.058** | | 0.010 | 0.0056 | mg/L | | 05/18/12 09:00 | 05/18/12 15:54 | 1 |
| **Barium** | **0.44** | | 0.0020 | 0.00070 | mg/L | | 05/18/12 09:00 | 05/18/12 15:54 | 1 |
| Beryllium | ND | | 0.0020 | 0.00030 | mg/L | | 05/18/12 09:00 | 05/18/12 15:54 | 1 |
| **Cadmium** | **0.0039** | | 0.0010 | 0.00050 | mg/L | | 05/18/12 09:00 | 05/18/12 15:54 | 1 |
| **Calcium** | **181** | | 0.50 | 0.10 | mg/L | | 05/18/12 09:00 | 05/18/12 15:54 | 1 |
| **Chromium** | **0.0030** | **J** | 0.0040 | 0.0010 | mg/L | | 05/18/12 09:00 | 05/18/12 15:54 | 1 |
| **Cobalt** | **0.0039** | **J** | 0.0040 | 0.00063 | mg/L | | 05/18/12 09:00 | 05/18/12 15:54 | 1 |
| **Copper** | **0.0018** | **J** | 0.010 | 0.0016 | mg/L | | 05/18/12 09:00 | 05/18/12 15:54 | 1 |
| **Iron** | **27.3** | | 0.050 | 0.019 | mg/L | | 05/18/12 09:00 | 05/18/12 15:54 | 1 |
| **Lead** | **0.023** | | 0.0050 | 0.0030 | mg/L | | 05/18/12 09:00 | 05/18/12 15:54 | 1 |
| **Magnesium** | **79.8** | | 0.20 | 0.043 | mg/L | | 05/18/12 09:00 | 05/18/12 15:54 | 1 |
| **Manganese** | **6.2** | | 0.0030 | 0.00040 | mg/L | | 05/18/12 09:00 | 05/18/12 15:54 | 1 |
| **Nickel** | **0.020** | | 0.010 | 0.0013 | mg/L | | 05/18/12 09:00 | 05/18/12 15:54 | 1 |
| **Potassium** | **44.5** | | 0.50 | 0.10 | mg/L | | 05/18/12 09:00 | 05/18/12 15:54 | 1 |
| **Selenium** | **0.047** | | 0.015 | 0.0087 | mg/L | | 05/18/12 09:00 | 05/18/12 15:54 | 1 |
| Silver | ND | | 0.0030 | 0.0017 | mg/L | | 05/18/12 09:00 | 05/18/12 15:54 | 1 |
| **Sodium** | **277** | | 1.0 | 0.32 | mg/L | | 05/18/12 09:00 | 05/18/12 15:54 | 1 |
| **Thallium** | **0.011** | **J** | 0.020 | 0.010 | mg/L | | 05/18/12 09:00 | 05/18/12 15:54 | 1 |
| **Vanadium** | **0.0062** | | 0.0050 | 0.0015 | mg/L | | 05/18/12 09:00 | 05/18/12 15:54 | 1 |
| **Zinc** | **0.0046** | **J** | 0.010 | 0.0015 | mg/L | | 05/18/12 09:00 | 05/18/12 15:54 | 1 |

### Method: 7470A - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Mercury | ND | | 0.00020 | 0.00012 | mg/L | | 05/18/12 08:30 | 05/18/12 12:26 | 1 |

# Client Sample Results

Client: New York State D.E.C.
Project/Site: NYSDEC - Patton's Busy Bee:site #902014

TestAmerica Job ID: 480-20114-1

**Client Sample ID: BBT2 LEACHATE**
**Date Collected: 05/15/12 12:25**
**Date Received: 05/16/12 09:45**

**Lab Sample ID: 480-20114-1**
**Matrix: Water**

## General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chemical Oxygen Demand | 107 | | 10.0 | 5.0 | mg/L | | | 05/18/12 17:02 | 1 |
| Biochemical Oxygen Demand | 4.9 | b | 2.0 | 2.0 | mg/L | | | 05/17/12 09:52 | 1 |

# Lab Chronicle

Client: New York State D.E.C.
Project/Site: NYSDEC - Patton's Busy Bee:site #902014

TestAmerica Job ID: 480-20114-1

## Client Sample ID: BBT2 LEACHATE

**Lab Sample ID: 480-20114-1**

**Date Collected: 05/15/12 12:25**

**Matrix: Water**

**Date Received: 05/16/12 09:45**

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8260B | | 1 | 65012 | 05/18/12 12:25 | RL | TAL BUF |
| Total/NA | Analysis | 8260B | DL | 8 | 65114 | 05/19/12 01:12 | DC | TAL BUF |
| Total/NA | Prep | 3510C | | | 64974 | 05/18/12 06:45 | TR | TAL BUF |
| Total/NA | Analysis | 8270C | | 1 | 65305 | 05/22/12 00:12 | RMM | TAL BUF |
| Total/NA | Prep | 3510C | | | 64885 | 05/17/12 13:35 | KB | TAL BUF |
| Total/NA | Analysis | 8082 | | 1 | 64981 | 05/18/12 18:11 | DB | TAL BUF |
| Total/NA | Prep | 3510C | | | 64881 | 05/17/12 12:52 | KB | TAL BUF |
| Total/NA | Analysis | 8081A | | 1 | 65629 | 05/24/12 08:03 | DB | TAL BUF |
| Total/NA | Prep | 7470A | | | 64983 | 05/18/12 08:30 | JRK | TAL BUF |
| Total/NA | Analysis | 7470A | | 1 | 65079 | 05/18/12 12:26 | JRK | TAL BUF |
| Total/NA | Prep | 3005A | | | 64942 | 05/18/12 09:00 | SS | TAL BUF |
| Total/NA | Analysis | 6010B | | 1 | 65303 | 05/18/12 15:54 | MM | TAL BUF |
| Total/NA | Analysis | 6010B | | 1 | 65617 | 05/22/12 18:57 | LH | TAL BUF |
| Total/NA | Analysis | SM 5210B | | 1 | 64901 | 05/17/12 09:52 | KS | TAL BUF |
| Total/NA | Analysis | 410.4 | | 1 | 65104 | 05/18/12 17:02 | KJ | 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.
Project/Site: NYSDEC - Patton's Busy Bee:site #902014

TestAmerica Job ID: 480-20114-1

| Laboratory | Authority | Program | EPA Region | Certification ID |
|---|---|---|---|---|
| TestAmerica Buffalo | Arkansas DEQ | State Program | 6 | 88-0686 |
| TestAmerica Buffalo | California | NELAC | 9 | 1169CA |
| TestAmerica Buffalo | Connecticut | State Program | 1 | PH-0568 |
| TestAmerica Buffalo | Florida | NELAC | 4 | E87672 |
| TestAmerica Buffalo | Georgia | State Program | 4 | 956 |
| TestAmerica Buffalo | Georgia | State Program | 4 | N/A |
| TestAmerica Buffalo | Illinois | NELAC | 5 | 100325 / 200003 |
| TestAmerica Buffalo | Iowa | State Program | 7 | 374 |
| TestAmerica Buffalo | Kansas | NELAC | 7 | E-10187 |
| TestAmerica Buffalo | Kentucky | State Program | 4 | 90029 |
| TestAmerica Buffalo | Kentucky (UST) | State Program | 4 | 30 |
| TestAmerica Buffalo | Louisiana | NELAC | 6 | 02031 |
| TestAmerica Buffalo | Maine | State Program | 1 | NY0044 |
| TestAmerica Buffalo | Maryland | State Program | 3 | 294 |
| TestAmerica Buffalo | Massachusetts | State Program | 1 | M-NY044 |
| TestAmerica Buffalo | Michigan | State Program | 5 | 9937 |
| TestAmerica Buffalo | Minnesota | NELAC | 5 | 036-999-337 |
| TestAmerica Buffalo | New Hampshire | NELAC | 1 | 2337 |
| TestAmerica Buffalo | New Hampshire | NELAC | 1 | 68-00281 |
| TestAmerica Buffalo | New Jersey | NELAC | 2 | NY455 |
| TestAmerica Buffalo | New York | NELAC | 2 | 10026 |
| TestAmerica Buffalo | North Dakota | State Program | 8 | R-176 |
| TestAmerica Buffalo | Oklahoma | State Program | 6 | 9421 |
| TestAmerica Buffalo | Oregon | NELAC | 10 | NY200003 |
| TestAmerica Buffalo | Pennsylvania | NELAC | 3 | 68-00281 |
| TestAmerica Buffalo | Tennessee | State Program | 4 | TN02970 |
| TestAmerica Buffalo | Texas | NELAC | 6 | T104704412-08-TX |
| TestAmerica Buffalo | USDA | Federal | | P330-08-00242 |
| TestAmerica Buffalo | Virginia | NELAC | 3 | 460185 |
| TestAmerica Buffalo | Virginia | State Program | 3 | 278 |
| TestAmerica Buffalo | Washington | State Program | 10 | C1677 |
| TestAmerica Buffalo | West Virginia DEP | State Program | 3 | 252 |
| TestAmerica Buffalo | Wisconsin | State Program | 5 | 998310390 |

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

# Method Summary

Client: New York State D.E.C.
Project/Site: NYSDEC - Patton's Busy Bee:site #902014

TestAmerica Job ID: 480-20114-1

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 8260B | Volatile Organic Compounds (GC/MS) | SW846 | TAL BUF |
| 8270C | Semivolatile Organic Compounds (GC/MS) | SW846 | TAL BUF |
| 8081A | Organochlorine Pesticides (GC) | SW846 | TAL BUF |
| 8082 | Polychlorinated Biphenyls (PCBs) by Gas Chromatography | SW846 | TAL BUF |
| 6010B | Metals (ICP) | SW846 | TAL BUF |
| 7470A | Mercury (CVAA) | SW846 | TAL BUF |
| 410.4 | COD | MCAWW | TAL BUF |
| SM 5210B | BOD, 5-Day | SM | TAL BUF |

**Protocol References:**

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

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.
Project/Site: NYSDEC - Patton's Busy Bee:site #902014

TestAmerica Job ID: 480-20114-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 480-20114-1 | BBT2 LEACHATE | Water | 05/15/12 12:25 | 05/16/12 09:45 |

# Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☐

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

| Client | Project Manager | Date | Chain of Custody Number |
|---|---|---|---|
| N.Y.S.D.E.C. | BRIAN SADOWSKI | 5/16/12 | 222908 |
| **Address** | **Telephone Number (Area Code)/Fax Number** | **Lab Number** | **Page 1 of 1** |
| 270 MICHIGAN AVE. | 716 - 851-7220 | | |
| **City / State / Zip Code** | **Site Contact** | **Lab Contact** | |
| BUFFALO / N.Y. / 14203 | | B. FISCHER | |
| **Project Name and Location (State)** | **Carrier/Waybill Number** | | |
| PATTON'S BUSY BEE | | | |
| **Contract/Purchase Order/Quote No.** | | | |

| Sample I.D. No. and Description (Containers for each sample may be combined on one line) | Date | Time | Matrix: Air | Aqueous | Sed. | Soil | Containers & Preservatives: Unpres. | H2SO4 | HNO3 | HCl | NaOH | ZnAc/NaOH | Analysis: VOA | SVOC | PEST. | PCB's | TAL METALS | BOD 5310B | COD 5220 | Special Instructions/ Conditions of Receipt |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BBT2, LEACHATE | 5/15/12 | 1155 | | ✓ | | | | | | ✓ | | | 3 | | | | | | | |
| " | | 1205 | | ✓ | | | | | | | | | | 2 | | | | | | |
| | | 1210 | | | | | | | | | | | | | 2 | | | | | |
| | | 1215 | | | | | | | | | | | | | | 2 | | | | |
| | | 1220 | | | | | | | ✓ | | | | | | | | 1 | | | |
| | | 1225 | | | | | | | | | | | | | | | | 1 | | |
| | | 1225 | | | | | | ✓ | | | | | | | | | | | 1 | |

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

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

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

QC Requirements (Specify)

| | Date | Time | | Date | Time |
|---|---|---|---|---|---|
| 1. Relinquished By: Brian Sadowski | 5/16/12 | 0945 | 1. Received By: [signature] FEDEX | 6/16/12 | 0945 |
| 2. Relinquished By | | | 2. Received By | | |
| 3. Relinquished By | | | 3. Received By | | |

Comments

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

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5/29/2012

# Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 480-20114-1

**Login Number: 20114**

**List Source: TestAmerica Buffalo**

**List Number: 1**

**Creator: May, Joel M**

| 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 | NYSDEC |
| 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 | |