## Saari, Christopher A - DNR

**From:** Pooler, Cary <cary.pooler@aecom.com>
**Sent:** Thursday, June 15, 2017 4:06 PM
**To:** Saari, Christopher A - DNR
**Cc:** Bradley.S.Nave@chemours.com
**Subject:** Barksdale: BDC Clubhouse April 2017 Sample Results
**Attachments:** J96406-1 UDS Level 2 Report Final Report.pdf

Greetings Chris,

Attached is a portable document file (PDF) containing Test America's report for the inflow groundwater sample collected from Bretting Development Corporation's (BDC's) Clubhouse well on April 25, 2017. The sample was collected before the two granular activated carbon (GAC) filtration cylinders installed between the well and the point of use at the BDC Clubhouse (i.e., "inflow" port of system). The lab report was received for review on June 5, 2017.

As we discussed via telephone on June 6th, Test America reported the presence of nitrobenzene in the sample at an estimated, "J qualified" concentration of 0.072 micrograms per liter (µg/L). In addition to the "J qualifier", the result was also qualified with an "H" due to an issue with the holding time being exceeded when re-extraction was performed by the laboratory. The original sample was extracted within the method-specified seven day hold time; however, the laboratory found it necessary to re-extract for a yet to be determined reason after the holding time was exceeded, and that value was the one reported.

This inflow water has been sampled 24 times in the last 17 years and the nitrobenzene result is inconsistent with previous monitoring data. This estimated detection was the first nitroaromatic or nitramine organic compound (NNOC) detected at the well since December 2002 (see Table 1 of the February 1, 2017 letter from Brad Nave to you) and only the second time nitrobenzene has been detected in the inflow port (last detection was in October 2000 and that result was a "J qualified" value also).

Wisconsin NR140 does not specify a groundwater quality standard for nitrobenzene, so the estimated concentration was compared to the USEPA resident tap water value. The result of that comparison shows that the estimated, detected concentration is below the USEPA RSL value of 0.14 µg/L.

Nitrobenzene is not a primary constituent of concern at Barksdale in groundwater; this fact, coupled with the overall absence of the constituent and other NNOCs in the BDC Clubhouse inflow over the past 15 years and the laboratory issues, leads me to suspect that the detection in the April 2017 sample is likely due to laboratory contamination or error. As such, the "inflow" port was resampled on June 6, 2017 and an additional water sample was collected from the "effluent" port of the GAC system on the same day. As you recall, water collected from the "effluent" port of the GAC system represents what is present for use at the tap.

I notified Mr. Paul Bretting of BDC of the detection on June 6th and the resampling work, and I expect the laboratory results of the resampling to be available in next few weeks. In the meantime, if you have any questions or comments, please do not hesitate to contact me via email or telephone at (502) 252-5878.

Sincerely,

**C.E. "Cary" Pooler, III, P.G.**
Principal Project Manager (Environment)
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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

# ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Tel: (303)736-0100

TestAmerica Job ID: 280-96406-1
Client Project/Site: BAR-POTABLE

For:
Chemours Company FC, LLC The
c/o AECOM
Sabre Building, Suite 300
4051 Ogletown Road
Newark, Delaware 19713

Attn: Sharon Nordstrom

Stephanie Rothmeyer

*Authorized for release by:*
*5/24/2017 3:32:26 PM*
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# Table of Contents

# Definitions/Glossary

Client: Chemours Company FC, LLC The
Project/Site: BAR-POTABLE

TestAmerica Job ID: 280-96406-1

## Qualifiers

### GC/MS Semi VOA

| Qualifier | Qualifier Description |
|---|---|
| U | Indicates the analyte was analyzed for but not detected. |

### LCMS

| Qualifier | Qualifier Description |
|---|---|
| H | Sample was prepped or analyzed beyond the specified holding time |
| U | Indicates the analyte was analyzed for but not detected. |
| 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 |
| CFL | Contains Free Liquid |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| PQL | Practical Quantitation Limit |
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| 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: 280-96406-1

**Laboratory: TestAmerica Denver**

**Narrative**

# CASE NARRATIVE
# Client: Chemours Company FC, LLC The
# Project: BAR-POTABLE
# Report Number: 280-96406-1

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

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

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

Throughout this report the MDL is equivalent to the LOD and the RL is equivalent to the LOQ.

**Sample Arrival and Receipt**
The sample was received on 4/27/2017 at 8:55 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.8º C.

**Semivolatiles - Method 8270C DNX**
Sample GW0417-CLUBHOUSE INFLOW (280-96406-1) was analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 05/02/2017 and analyzed on 05/22/2017.

The method required MS/MSD could not be performed for prep batch 280-371862, due to insufficient sample volume. Method precision and accuracy have been verified by the acceptable LCS/LCSD analyses data.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

**Explosives - Method 8321A**
Sample GW0417-CLUBHOUSE INFLOW (280-96406-1) was analyzed for explosives in accordance with EPA SW-846 Method 8321A. The samples were prepared on 05/08/2017 and analyzed on 05/12/2017.

The following sample was re-prepared and re-analyzed outside of preparation holding time due to multiple QC failures in the original run: GW0417-CLUBHOUSE INFLOW (280-96406-1).

The method required MS/MSD could not be performed for prep batch 280-372683, due to insufficient sample volume. Method precision and accuracy have been verified by the acceptable LCS/LCSD analyses data.

The 2,4-DNT-d3 Internal Standard (ISTD) retention time in LCS 280-372683/2-A) was outside the acceptance criteria of +/-0.5 minutes from the average of the of the initial calibration; it was within +/-0.5 minutes from the mid-point of the initial calibration per the SOP. The LCSD, MB, and samples were within +/-0.5 minutes from the mid-point and average of the initial calibration; therefore, no corrective action was required, per the SOP.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

# Detection Summary

Client: Chemours Company FC, LLC The
Project/Site: BAR-POTABLE

TestAmerica Job ID: 280-96406-1

## Client Sample ID: GW0417-CLUBHOUSE INFLOW — Lab Sample ID: 280-96406-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---|---|---|---|---|---|---|---|---|---|
| Nitrobenzene | 0.072 | J H | 0.096 | 0.032 | ug/L | 1 | | 8321A | Total/NA |

This Detection Summary does not include radiochemical test results.

# Method Summary

Client: Chemours Company FC, LLC The
Project/Site: BAR-POTABLE

TestAmerica Job ID: 280-96406-1

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 8270C | Semivolatile Organic Compounds (GC/MS) | SW846 | TAL DEN |
| 8321A | Nitroaromatic and Nitramine Compounds (Explosives) (LC/MS) | SW846 | TAL DEN |

**Protocol References:**

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

**Laboratory References:**

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

# Sample Summary

Client: Chemours Company FC, LLC The
Project/Site: BAR-POTABLE

TestAmerica Job ID: 280-96406-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 280-96406-1 | GW0417-CLUBHOUSE INFLOW | Water | 04/25/17 13:30 | 04/27/17 08:55 |

## Client Sample ID: GW0417-CLUBHOUSE INFLOW

**Lab Sample ID: 280-96406-1**

**Date Collected: 04/25/17 13:30**

**Matrix: Water**

**Date Received: 04/27/17 08:55**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dimethyl-3,4-Dinitrobenzene | 0.23 | U | 4.8 | 0.23 | ug/L | | 05/02/17 14:00 | 05/22/17 21:02 | 1 |
| 1,2-Dimethyl-3,5-Dinitrobenzene | 0.32 | U | 4.8 | 0.32 | ug/L | | 05/02/17 14:00 | 05/22/17 21:02 | 1 |
| 1,2-Dimethyl-3,6-Dinitrobenzene | 0.40 | U | 4.8 | 0.40 | ug/L | | 05/02/17 14:00 | 05/22/17 21:02 | 1 |
| 1,2-Dimethyl-4,5-Dinitrobenzene | 0.38 | U | 4.8 | 0.38 | ug/L | | 05/02/17 14:00 | 05/22/17 21:02 | 1 |
| 1,3-Dimethyl-2,4-Dinitrobenzene | 0.44 | U | 4.8 | 0.44 | ug/L | | 05/02/17 14:00 | 05/22/17 21:02 | 1 |
| 1,3-Dimethyl-2,5-Dinitrobenzene | 0.41 | U | 4.8 | 0.41 | ug/L | | 05/02/17 14:00 | 05/22/17 21:02 | 1 |
| 1,4-Dimethyl-2,3-Dinitrobenzene | 0.37 | U | 4.8 | 0.37 | ug/L | | 05/02/17 14:00 | 05/22/17 21:02 | 1 |
| 1,4-Dimethyl-2,5-Dinitrobenzene | 0.74 | U | 4.8 | 0.74 | ug/L | | 05/02/17 14:00 | 05/22/17 21:02 | 1 |
| 1,4-Dimethyl-2,6-Dinitrobenzene | 0.21 | U | 4.8 | 0.21 | ug/L | | 05/02/17 14:00 | 05/22/17 21:02 | 1 |
| 1,5-Dimethyl-2,3-Dinitrobenzene | 0.25 | U | 4.8 | 0.25 | ug/L | | 05/02/17 14:00 | 05/22/17 21:02 | 1 |
| 1,5-Dimethyl-2,4-Dinitrobenzene | 0.26 | U | 4.8 | 0.26 | ug/L | | 05/02/17 14:00 | 05/22/17 21:02 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2,4,6-Tribromophenol* | *86* | | *48 - 135* | *05/02/17 14:00* | *05/22/17 21:02* | *1* |
| *2-Fluorobiphenyl* | *85* | | *48 - 135* | *05/02/17 14:00* | *05/22/17 21:02* | *1* |
| *2-Fluorophenol* | *83* | | *41 - 135* | *05/02/17 14:00* | *05/22/17 21:02* | *1* |
| *Nitrobenzene-d5* | *86* | | *42 - 135* | *05/02/17 14:00* | *05/22/17 21:02* | *1* |
| *Phenol-d5* | *80* | | *46 - 135* | *05/02/17 14:00* | *05/22/17 21:02* | *1* |
| *Terphenyl-d14* | *88* | | *20 - 135* | *05/02/17 14:00* | *05/22/17 21:02* | *1* |

### Method: 8321A - Nitroaromatic and Nitramine Compounds (Explosives) (LC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,3,5-Trinitrobenzene | 0.016 | U H | 0.096 | 0.016 | ug/L | | 05/08/17 19:40 | 05/12/17 18:36 | 1 |
| 1,3-Dinitrobenzene | 0.013 | U H | 0.096 | 0.013 | ug/L | | 05/08/17 19:40 | 05/12/17 18:36 | 1 |
| 2,3-Dinitrotoluene | 0.014 | U H | 0.096 | 0.014 | ug/L | | 05/08/17 19:40 | 05/12/17 18:36 | 1 |
| 2,4,6-Trinitro-3-xylene | 0.012 | U H | 0.096 | 0.012 | ug/L | | 05/08/17 19:40 | 05/12/17 18:36 | 1 |
| 2,4,6-Trinitrotoluene | 0.021 | U H | 0.096 | 0.021 | ug/L | | 05/08/17 19:40 | 05/12/17 18:36 | 1 |
| 2,4-Dinitrotoluene | 0.018 | U H | 0.096 | 0.018 | ug/L | | 05/08/17 19:40 | 05/12/17 18:36 | 1 |
| 2,5-Dinitrotoluene | 0.013 | U H | 0.096 | 0.013 | ug/L | | 05/08/17 19:40 | 05/12/17 18:36 | 1 |
| 2,6-Dinitrotoluene | 0.021 | U H | 0.096 | 0.021 | ug/L | | 05/08/17 19:40 | 05/12/17 18:36 | 1 |
| 2-Amino-4,6-dinitrotoluene | 0.020 | U H | 0.096 | 0.020 | ug/L | | 05/08/17 19:40 | 05/12/17 18:36 | 1 |
| 2-Nitrotoluene | 0.021 | U H | 0.096 | 0.021 | ug/L | | 05/08/17 19:40 | 05/12/17 18:36 | 1 |
| 3,4-Dinitrotoluene | 0.019 | U H | 0.096 | 0.019 | ug/L | | 05/08/17 19:40 | 05/12/17 18:36 | 1 |
| 3,5-Dinitrotoluene | 0.033 | U H | 0.096 | 0.033 | ug/L | | 05/08/17 19:40 | 05/12/17 18:36 | 1 |
| 3-Nitrotoluene | 0.024 | U H | 0.096 | 0.024 | ug/L | | 05/08/17 19:40 | 05/12/17 18:36 | 1 |
| 4-Amino-2,6-dinitrotoluene | 0.018 | U H | 0.096 | 0.018 | ug/L | | 05/08/17 19:40 | 05/12/17 18:36 | 1 |
| 4-Nitrotoluene | 0.025 | U H | 0.096 | 0.025 | ug/L | | 05/08/17 19:40 | 05/12/17 18:36 | 1 |
| HMX | 0.018 | U H | 0.096 | 0.018 | ug/L | | 05/08/17 19:40 | 05/12/17 18:36 | 1 |
| **Nitrobenzene** | **0.072** | **J H** | 0.096 | 0.032 | ug/L | | 05/08/17 19:40 | 05/12/17 18:36 | 1 |
| Nitroglycerin | 0.043 | U H | 0.13 | 0.043 | ug/L | | 05/08/17 19:40 | 05/12/17 18:36 | 1 |
| PETN | 0.017 | U H | 0.096 | 0.017 | ug/L | | 05/08/17 19:40 | 05/12/17 18:36 | 1 |
| RDX | 0.020 | U H | 0.096 | 0.020 | ug/L | | 05/08/17 19:40 | 05/12/17 18:36 | 1 |
| Tetryl | 0.020 | U H | 0.096 | 0.020 | ug/L | | 05/08/17 19:40 | 05/12/17 18:36 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Nitrobenzene-d5* | *115* | | *48 - 130* | *05/08/17 19:40* | *05/12/17 18:36* | *1* |

# Surrogate Summary

Client: Chemours Company FC, LLC The
Project/Site: BAR-POTABLE

TestAmerica Job ID: 280-96406-1

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

**Matrix: Water** **Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | | | | | |
|---|---|---|---|---|---|---|---|
| | | TBP | FBP | 2FP | NBZ | PHL | TPH |
| Lab Sample ID | Client Sample ID | (48-135) | (48-135) | (41-135) | (42-135) | (46-135) | (20-135) |
| 280-96406-1 | GW0417-CLUBHOUSE INFLOV | 86 | 85 | 83 | 86 | 80 | 88 |
| LCS 280-371862/2-A | Lab Control Sample | 79 | 69 | 78 | 80 | 75 | 84 |
| LCSD 280-371862/3-A | Lab Control Sample Dup | 83 | 80 | 84 | 84 | 83 | 87 |
| MB 280-371862/1-A | Method Blank | 81 | 77 | 84 | 84 | 80 | 83 |

**Surrogate Legend**

TBP = 2,4,6-Tribromophenol
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol
NBZ = Nitrobenzene-d5
PHL = Phenol-d5
TPH = Terphenyl-d14

## Method: 8321A - Nitroaromatic and Nitramine Compounds (Explosives) (LC/MS)

**Matrix: Water** **Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) |
|---|---|---|
| | | NBZ |
| Lab Sample ID | Client Sample ID | (48-130) |
| 280-96406-1 | GW0417-CLUBHOUSE INFLOV | 115 |
| LCS 280-372683/2-A | Lab Control Sample | 97 |
| LCSD 280-372683/3-A | Lab Control Sample Dup | 98 |
| MB 280-372683/1-A | Method Blank | 89 |

**Surrogate Legend**

NBZ = Nitrobenzene-d5

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

**Lab Sample ID: MB 280-371862/1-A**
**Matrix: Water**
**Analysis Batch: 374697**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 371862**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dimethyl-3,4-Dinitrobenzene | 0.24 | U | 5.0 | 0.24 | ug/L | | 05/02/17 14:00 | 05/22/17 19:03 | 1 |
| 1,2-Dimethyl-3,5-Dinitrobenzene | 0.33 | U | 5.0 | 0.33 | ug/L | | 05/02/17 14:00 | 05/22/17 19:03 | 1 |
| 1,2-Dimethyl-3,6-Dinitrobenzene | 0.41 | U | 5.0 | 0.41 | ug/L | | 05/02/17 14:00 | 05/22/17 19:03 | 1 |
| 1,2-Dimethyl-4,5-Dinitrobenzene | 0.39 | U | 5.0 | 0.39 | ug/L | | 05/02/17 14:00 | 05/22/17 19:03 | 1 |
| 1,3-Dimethyl-2,4-Dinitrobenzene | 0.45 | U | 5.0 | 0.45 | ug/L | | 05/02/17 14:00 | 05/22/17 19:03 | 1 |
| 1,3-Dimethyl-2,5-Dinitrobenzene | 0.42 | U | 5.0 | 0.42 | ug/L | | 05/02/17 14:00 | 05/22/17 19:03 | 1 |
| 1,4-Dimethyl-2,3-Dinitrobenzene | 0.38 | U | 5.0 | 0.38 | ug/L | | 05/02/17 14:00 | 05/22/17 19:03 | 1 |
| 1,4-Dimethyl-2,5-Dinitrobenzene | 0.76 | U | 5.0 | 0.76 | ug/L | | 05/02/17 14:00 | 05/22/17 19:03 | 1 |
| 1,4-Dimethyl-2,6-Dinitrobenzene | 0.22 | U | 5.0 | 0.22 | ug/L | | 05/02/17 14:00 | 05/22/17 19:03 | 1 |
| 1,5-Dimethyl-2,3-Dinitrobenzene | 0.26 | U | 5.0 | 0.26 | ug/L | | 05/02/17 14:00 | 05/22/17 19:03 | 1 |
| 1,5-Dimethyl-2,4-Dinitrobenzene | 0.27 | U | 5.0 | 0.27 | ug/L | | 05/02/17 14:00 | 05/22/17 19:03 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *2,4,6-Tribromophenol* | *81* | | *48 - 135* | *05/02/17 14:00* | *05/22/17 19:03* | *1* |
| *2-Fluorobiphenyl* | *77* | | *48 - 135* | *05/02/17 14:00* | *05/22/17 19:03* | *1* |
| *2-Fluorophenol* | *84* | | *41 - 135* | *05/02/17 14:00* | *05/22/17 19:03* | *1* |
| *Nitrobenzene-d5* | *84* | | *42 - 135* | *05/02/17 14:00* | *05/22/17 19:03* | *1* |
| *Phenol-d5* | *80* | | *46 - 135* | *05/02/17 14:00* | *05/22/17 19:03* | *1* |
| *Terphenyl-d14* | *83* | | *20 - 135* | *05/02/17 14:00* | *05/22/17 19:03* | *1* |

**Lab Sample ID: LCS 280-371862/2-A**
**Matrix: Water**
**Analysis Batch: 374697**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 371862**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| 1,2-Dimethyl-3,4-Dinitrobenzene | 50.0 | 48.5 | | ug/L | | 97 | 50 - 135 |
| 1,2-Dimethyl-3,5-Dinitrobenzene | 50.0 | 48.1 | | ug/L | | 96 | 50 - 135 |
| 1,2-Dimethyl-3,6-Dinitrobenzene | 50.0 | 48.0 | | ug/L | | 96 | 50 - 135 |
| 1,2-Dimethyl-4,5-Dinitrobenzene | 50.0 | 50.7 | | ug/L | | 101 | 50 - 135 |
| 1,3-Dimethyl-2,4-Dinitrobenzene | 50.0 | 50.9 | | ug/L | | 102 | 50 - 135 |
| 1,3-Dimethyl-2,5-Dinitrobenzene | 50.0 | 49.2 | | ug/L | | 98 | 50 - 135 |
| 1,4-Dimethyl-2,3-Dinitrobenzene | 50.0 | 47.6 | | ug/L | | 95 | 50 - 135 |
| 1,4-Dimethyl-2,5-Dinitrobenzene | 50.0 | 47.4 | | ug/L | | 95 | 50 - 135 |
| 1,4-Dimethyl-2,6-Dinitrobenzene | 50.0 | 48.5 | | ug/L | | 97 | 50 - 135 |
| 1,5-Dimethyl-2,3-Dinitrobenzene | 50.0 | 47.8 | | ug/L | | 96 | 50 - 135 |
| 1,5-Dimethyl-2,4-Dinitrobenzene | 50.0 | 49.8 | | ug/L | | 100 | 50 - 135 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *2,4,6-Tribromophenol* | *79* | | *48 - 135* |
| *2-Fluorobiphenyl* | *69* | | *48 - 135* |
| *2-Fluorophenol* | *78* | | *41 - 135* |
| *Nitrobenzene-d5* | *80* | | *42 - 135* |
| *Phenol-d5* | *75* | | *46 - 135* |
| *Terphenyl-d14* | *84* | | *20 - 135* |

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

**Lab Sample ID: LCSD 280-371862/3-A**
**Matrix: Water**
**Analysis Batch: 374697**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 371862**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,2-Dimethyl-3,4-Dinitrobenzene | | | 50.0 | 51.8 | | ug/L | | 104 | 50 - 135 | 6 | 30 |
| 1,2-Dimethyl-3,5-Dinitrobenzene | | | 50.0 | 50.3 | | ug/L | | 101 | 50 - 135 | 5 | 30 |
| 1,2-Dimethyl-3,6-Dinitrobenzene | | | 50.0 | 51.2 | | ug/L | | 102 | 50 - 135 | 6 | 30 |
| 1,2-Dimethyl-4,5-Dinitrobenzene | | | 50.0 | 51.4 | | ug/L | | 103 | 50 - 135 | 1 | 30 |
| 1,3-Dimethyl-2,4-Dinitrobenzene | | | 50.0 | 53.8 | | ug/L | | 108 | 50 - 135 | 6 | 30 |
| 1,3-Dimethyl-2,5-Dinitrobenzene | | | 50.0 | 52.8 | | ug/L | | 106 | 50 - 135 | 7 | 30 |
| 1,4-Dimethyl-2,3-Dinitrobenzene | | | 50.0 | 51.2 | | ug/L | | 102 | 50 - 135 | 7 | 30 |
| 1,4-Dimethyl-2,5-Dinitrobenzene | | | 50.0 | 49.7 | | ug/L | | 99 | 50 - 135 | 5 | 30 |
| 1,4-Dimethyl-2,6-Dinitrobenzene | | | 50.0 | 51.6 | | ug/L | | 103 | 50 - 135 | 6 | 30 |
| 1,5-Dimethyl-2,3-Dinitrobenzene | | | 50.0 | 51.5 | | ug/L | | 103 | 50 - 135 | 7 | 30 |
| 1,5-Dimethyl-2,4-Dinitrobenzene | | | 50.0 | 52.3 | | ug/L | | 105 | 50 - 135 | 5 | 30 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *2,4,6-Tribromophenol* | *83* | | *48 - 135* |
| *2-Fluorobiphenyl* | *80* | | *48 - 135* |
| *2-Fluorophenol* | *84* | | *41 - 135* |
| *Nitrobenzene-d5* | *84* | | *42 - 135* |
| *Phenol-d5* | *83* | | *46 - 135* |
| *Terphenyl-d14* | *87* | | *20 - 135* |

## Method: 8321A - Nitroaromatic and Nitramine Compounds (Explosives) (LC/MS)

**Lab Sample ID: MB 280-372683/1-A**
**Matrix: Water**
**Analysis Batch: 373330**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 372683**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| 1,3,5-Trinitrobenzene | 0.017 | U | 0.10 | 0.017 | ug/L | | 05/08/17 19:40 | 05/12/17 16:59 | 1 |
| 1,3-Dinitrobenzene | 0.014 | U | 0.10 | 0.014 | ug/L | | 05/08/17 19:40 | 05/12/17 16:59 | 1 |
| 2,3-Dinitrotoluene | 0.015 | U | 0.10 | 0.015 | ug/L | | 05/08/17 19:40 | 05/12/17 16:59 | 1 |
| 2,4,6-Trinitro-3-xylene | 0.012 | U | 0.10 | 0.012 | ug/L | | 05/08/17 19:40 | 05/12/17 16:59 | 1 |
| 2,4,6-Trinitrotoluene | 0.022 | U | 0.10 | 0.022 | ug/L | | 05/08/17 19:40 | 05/12/17 16:59 | 1 |
| 2,4-Dinitrotoluene | 0.019 | U | 0.10 | 0.019 | ug/L | | 05/08/17 19:40 | 05/12/17 16:59 | 1 |
| 2,5-Dinitrotoluene | 0.014 | U | 0.10 | 0.014 | ug/L | | 05/08/17 19:40 | 05/12/17 16:59 | 1 |
| 2,6-Dinitrotoluene | 0.022 | U | 0.10 | 0.022 | ug/L | | 05/08/17 19:40 | 05/12/17 16:59 | 1 |
| 2-Amino-4,6-dinitrotoluene | 0.021 | U | 0.10 | 0.021 | ug/L | | 05/08/17 19:40 | 05/12/17 16:59 | 1 |
| 2-Nitrotoluene | 0.022 | U | 0.10 | 0.022 | ug/L | | 05/08/17 19:40 | 05/12/17 16:59 | 1 |
| 3,4-Dinitrotoluene | 0.020 | U | 0.10 | 0.020 | ug/L | | 05/08/17 19:40 | 05/12/17 16:59 | 1 |
| 3,5-Dinitrotoluene | 0.034 | U | 0.10 | 0.034 | ug/L | | 05/08/17 19:40 | 05/12/17 16:59 | 1 |
| 3-Nitrotoluene | 0.025 | U | 0.10 | 0.025 | ug/L | | 05/08/17 19:40 | 05/12/17 16:59 | 1 |
| 4-Amino-2,6-dinitrotoluene | 0.019 | U | 0.10 | 0.019 | ug/L | | 05/08/17 19:40 | 05/12/17 16:59 | 1 |
| 4-Nitrotoluene | 0.026 | U | 0.10 | 0.026 | ug/L | | 05/08/17 19:40 | 05/12/17 16:59 | 1 |
| HMX | 0.019 | U | 0.10 | 0.019 | ug/L | | 05/08/17 19:40 | 05/12/17 16:59 | 1 |
| Nitrobenzene | 0.033 | U | 0.10 | 0.033 | ug/L | | 05/08/17 19:40 | 05/12/17 16:59 | 1 |
| Nitroglycerin | 0.045 | U | 0.14 | 0.045 | ug/L | | 05/08/17 19:40 | 05/12/17 16:59 | 1 |
| PETN | 0.018 | U | 0.10 | 0.018 | ug/L | | 05/08/17 19:40 | 05/12/17 16:59 | 1 |
| RDX | 0.021 | U | 0.10 | 0.021 | ug/L | | 05/08/17 19:40 | 05/12/17 16:59 | 1 |

## Method: 8321A - Nitroaromatic and Nitramine Compounds (Explosives) (LC/MS) (Continued)

**Lab Sample ID: MB 280-372683/1-A** — **Client Sample ID: Method Blank**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 373330** — **Prep Batch: 372683**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Tetryl | 0.021 | U | 0.10 | 0.021 | ug/L | | 05/08/17 19:40 | 05/12/17 16:59 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *Nitrobenzene-d5* | *89* | | *48 - 130* | *05/08/17 19:40* | *05/12/17 16:59* | *1* |

**Lab Sample ID: LCS 280-372683/2-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 373330** — **Prep Batch: 372683**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|---|---|---|---|---|---|---|---|
| 1,3,5-Trinitrobenzene | 0.500 | 0.551 | | ug/L | | 110 | 54 - 145 |
| 1,3-Dinitrobenzene | 0.500 | 0.525 | | ug/L | | 105 | 68 - 131 |
| 2,3-Dinitrotoluene | 0.500 | 0.471 | | ug/L | | 94 | 50 - 150 |
| 2,4,6-Trinitro-3-xylene | 0.500 | 0.464 | | ug/L | | 93 | 50 - 150 |
| 2,4,6-Trinitrotoluene | 0.500 | 0.391 | | ug/L | | 78 | 20 - 147 |
| 2,4-Dinitrotoluene | 0.500 | 0.434 | | ug/L | | 87 | 66 - 130 |
| 2,5-Dinitrotoluene | 0.500 | 0.522 | | ug/L | | 104 | 50 - 150 |
| 2,6-Dinitrotoluene | 0.500 | 0.465 | | ug/L | | 93 | 64 - 133 |
| 2-Amino-4,6-dinitrotoluene | 0.500 | 0.550 | | ug/L | | 110 | 64 - 138 |
| 2-Nitrotoluene | 0.500 | 0.435 | | ug/L | | 87 | 34 - 131 |
| 3,4-Dinitrotoluene | 0.501 | 0.429 | | ug/L | | 86 | 50 - 150 |
| 3,5-Dinitrotoluene | 0.500 | 0.365 | | ug/L | | 73 | 50 - 150 |
| 3-Nitrotoluene | 0.500 | 0.409 | | ug/L | | 82 | 36 - 133 |
| 4-Amino-2,6-dinitrotoluene | 0.500 | 0.513 | | ug/L | | 103 | 65 - 131 |
| 4-Nitrotoluene | 0.500 | 0.444 | | ug/L | | 89 | 40 - 137 |
| HMX | 0.500 | 0.474 | | ug/L | | 95 | 56 - 134 |
| Nitrobenzene | 0.500 | 0.541 | | ug/L | | 108 | 42 - 141 |
| Nitroglycerin | 0.500 | 0.524 | | ug/L | | 105 | 37 - 147 |
| PETN | 0.500 | 0.580 | | ug/L | | 116 | 10 - 198 |
| RDX | 0.500 | 0.512 | | ug/L | | 102 | 72 - 130 |
| Tetryl | 0.500 | 0.370 | | ug/L | | 74 | 15 - 134 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *Nitrobenzene-d5* | *97* | | *48 - 130* |

**Lab Sample ID: LCSD 280-372683/3-A** — **Client Sample ID: Lab Control Sample Dup**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 373330** — **Prep Batch: 372683**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| 1,3,5-Trinitrobenzene | 0.500 | 0.579 | | ug/L | | 116 | 54 - 145 | 5 | 57 |
| 1,3-Dinitrobenzene | 0.500 | 0.529 | | ug/L | | 106 | 68 - 131 | 1 | 39 |
| 2,3-Dinitrotoluene | 0.500 | 0.463 | | ug/L | | 93 | 50 - 150 | 2 | 30 |
| 2,4,6-Trinitro-3-xylene | 0.500 | 0.467 | | ug/L | | 93 | 50 - 150 | 1 | 30 |
| 2,4,6-Trinitrotoluene | 0.500 | 0.393 | | ug/L | | 79 | 20 - 147 | 1 | 68 |
| 2,4-Dinitrotoluene | 0.500 | 0.481 | | ug/L | | 96 | 66 - 130 | 10 | 46 |
| 2,5-Dinitrotoluene | 0.500 | 0.470 | | ug/L | | 94 | 50 - 150 | 10 | 50 |
| 2,6-Dinitrotoluene | 0.500 | 0.440 | | ug/L | | 88 | 64 - 133 | 5 | 44 |

## Method: 8321A - Nitroaromatic and Nitramine Compounds (Explosives) (LC/MS) (Continued)

**Lab Sample ID: LCSD 280-372683/3-A**
**Matrix: Water**
**Analysis Batch: 373330**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 372683**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 2-Amino-4,6-dinitrotoluene | | | 0.500 | 0.494 | | ug/L | | 99 | 64 - 138 | 11 | 41 |
| 2-Nitrotoluene | | | 0.500 | 0.462 | | ug/L | | 92 | 34 - 131 | 6 | 68 |
| 3,4-Dinitrotoluene | | | 0.501 | 0.424 | | ug/L | | 85 | 50 - 150 | 1 | 30 |
| 3,5-Dinitrotoluene | | | 0.500 | 0.443 | | ug/L | | 89 | 50 - 150 | 19 | 30 |
| 3-Nitrotoluene | | | 0.500 | 0.425 | | ug/L | | 85 | 36 - 133 | 4 | 89 |
| 4-Amino-2,6-dinitrotoluene | | | 0.500 | 0.458 | | ug/L | | 92 | 65 - 131 | 11 | 36 |
| 4-Nitrotoluene | | | 0.500 | 0.465 | | ug/L | | 93 | 40 - 137 | 5 | 72 |
| HMX | | | 0.500 | 0.458 | | ug/L | | 92 | 56 - 134 | 4 | 34 |
| Nitrobenzene | | | 0.500 | 0.485 | | ug/L | | 97 | 42 - 141 | 11 | 58 |
| Nitroglycerin | | | 0.500 | 0.537 | | ug/L | | 107 | 37 - 147 | 2 | 71 |
| PETN | | | 0.500 | 0.567 | | ug/L | | 113 | 10 - 198 | 2 | 50 |
| RDX | | | 0.500 | 0.469 | | ug/L | | 94 | 72 - 130 | 9 | 25 |
| Tetryl | | | 0.500 | 0.401 | | ug/L | | 80 | 15 - 134 | 8 | 51 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *Nitrobenzene-d5* | *98* | | *48 - 130* |

# QC Association Summary

Client: Chemours Company FC, LLC The
Project/Site: BAR-POTABLE

TestAmerica Job ID: 280-96406-1

## GC/MS Semi VOA

### Prep Batch: 371862

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 280-96406-1 | GW0417-CLUBHOUSE INFLOW | Total/NA | Water | 3520C | |
| MB 280-371862/1-A | Method Blank | Total/NA | Water | 3520C | |
| LCS 280-371862/2-A | Lab Control Sample | Total/NA | Water | 3520C | |
| LCSD 280-371862/3-A | Lab Control Sample Dup | Total/NA | Water | 3520C | |

### Analysis Batch: 374697

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 280-96406-1 | GW0417-CLUBHOUSE INFLOW | Total/NA | Water | 8270C | 371862 |
| MB 280-371862/1-A | Method Blank | Total/NA | Water | 8270C | 371862 |
| LCS 280-371862/2-A | Lab Control Sample | Total/NA | Water | 8270C | 371862 |
| LCSD 280-371862/3-A | Lab Control Sample Dup | Total/NA | Water | 8270C | 371862 |

## LCMS

### Prep Batch: 372683

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 280-96406-1 | GW0417-CLUBHOUSE INFLOW | Total/NA | Water | 3535 | |
| MB 280-372683/1-A | Method Blank | Total/NA | Water | 3535 | |
| LCS 280-372683/2-A | Lab Control Sample | Total/NA | Water | 3535 | |
| LCSD 280-372683/3-A | Lab Control Sample Dup | Total/NA | Water | 3535 | |

### Analysis Batch: 373330

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 280-96406-1 | GW0417-CLUBHOUSE INFLOW | Total/NA | Water | 8321A | 372683 |
| MB 280-372683/1-A | Method Blank | Total/NA | Water | 8321A | 372683 |
| LCS 280-372683/2-A | Lab Control Sample | Total/NA | Water | 8321A | 372683 |
| LCSD 280-372683/3-A | Lab Control Sample Dup | Total/NA | Water | 8321A | 372683 |

# Lab Chronicle

Client: Chemours Company FC, LLC The
Project/Site: BAR-POTABLE

TestAmerica Job ID: 280-96406-1

## Client Sample ID: GW0417-CLUBHOUSE INFLOW

**Lab Sample ID: 280-96406-1**

**Date Collected: 04/25/17 13:30**

**Matrix: Water**

**Date Received: 04/27/17 08:55**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 3520C | | | 1032.4 mL | 1 mL | 371862 | 05/02/17 14:00 | JRA | TAL DEN |
| Total/NA | Analysis | 8270C | | 1 | | | 374697 | 05/22/17 21:02 | DCK | TAL DEN |
| Total/NA | Prep | 3535 | | | 1041.4 mL | 5 mL | 372683 | 05/08/17 19:40 | MAV | TAL DEN |
| Total/NA | Analysis | 8321A | | 1 | | | 373330 | 05/12/17 18:36 | AGCM | TAL DEN |

**Laboratory References:**

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

# Accreditation/Certification Summary

Client: Chemours Company FC, LLC The
Project/Site: BAR-POTABLE

TestAmerica Job ID: 280-96406-1

## Laboratory: TestAmerica Denver

The accreditations/certifications listed below are applicable to this report.

| Authority | Program | EPA Region | Identification Number | Expiration Date |
|---|---|---|---|---|
| Wisconsin | State Program | 5 | 999615430 | 08-31-17 |

**TestAmerica Denver**
4955 Yarrow Street
Arvada, CO 80002
Phone (303) 736-0100 Fax (303) 431-7171

# Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

| Client Information | Sampler: ERIC SCHMIDT | Lab PM: Johnston, Michelle A | Carrier Tracking No(s): FEDEX 810481416350 | COC No: 170425-1 |
|---|---|---|---|---|
| Client Contact: Ms. Sharon Nordstrom | Phone: 920-621-3878 | E-Mail: michelle.johnston@testamericainc.com | | Page: Page 1 of 1 |
| Company: Chemours Company FC, LLC The | | | | Job #: 60525839 |
| Address: c/o AECOM Sabre Building 4051 Ogletown Road, Suite 300 | Due Date Requested: | | | |
| City: Newark | TAT Requested (days): STANDARD | | | |
| State, Zip: DE, 19713 | | | | |
| Phone: 302-781-5936 | PO #: LBIO-66421/9267-77201000-WH06-508001 | | | |
| Email: sharon.nordstrom@aecom.com | WO #: | | | |
| Project Name: BAR-~~GW Sampling 3-17~~ POTABLE | Project #: 28003388 | | | |
| Site: BARKSDALE, WI | SSOW#: | | | |

**Analysis Requested**

**Preservation Codes:**

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)

Other:

| Sample Identification | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | 8321A - full DuPont list + DNT Isomers + TNX | 8270C - DNX Isomers | 8260B - VOCs | Total Number of containers | Special Instructions/Note: |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Preservation Code: | | | | | | | N | N | A | | |
| GW0417-CLUBHOUSE INFLOW | 4/25/17 | 13:30 | G | WATER | N | N | X | X | | 4 | |

*GAS POWERED LAWN EQUIP STORED NEAR SAMPLE LOCATION

280-96406 Chain of Custody

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

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

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

| | | | | | |
|---|---|---|---|---|---|
| Empty Kit Relinquished by: Fatemeh Mir | Date: 3/13/17 | Time: 1145 | Method of Shipment: | | |
| Relinquished by: | Date/Time: 4/26/17 11:00 | Company: AECOM | Received by: | Date/Time: 4/27/17 0855 | Company: TAD |
| Relinquished by: | Date/Time: | Company: | Received by: | Date/Time: | Company: |
| Relinquished by: | Date/Time: | Company: | Received by: | Date/Time: | Company: |

Custody Seals Intact: ∆ Yes ∆ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 0.8+0.0 IR#7 transfered by JT 4/27/17

# Login Sample Receipt Checklist

Client: Chemours Company FC, LLC The

Job Number: 280-96406-1

**Login Number: 96406**
**List Number: 1**
**Creator: True, Joshua A**

**List Source: TestAmerica Denver**

| Question | Answer | Comment |
|---|---|---|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | N/A | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are 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 containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | 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. | N/A | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | N/A | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |