



## ANALYSIS REPORT

Prepared by:

Eurofins Lancaster Laboratories Environmental  
2425 New Holland Pike  
Lancaster, PA 17601

Prepared for:

C. T. Male Associates  
50 Century Hill Drive  
Latham NY 12110

Report Date: November 08, 2018 15:24

### Project: Hoosick Falls WTP

Account #: 37191  
Group Number: 2003660  
SDG: HOO12  
PO Number: 14.4756  
State of Sample Origin: NY

|                    |                          |                    |
|--------------------|--------------------------|--------------------|
| Electronic Copy To | C. T. Male Associates    | Attn: Kirk Moline  |
| Electronic Copy To | C. T. Male Associates    | Attn: Dan Reilly   |
| Electronic Copy To | C. T. Male Associates    | Attn: Jeff Marx    |
| Electronic Copy To | Barr Engineering Company | Attn: Lauren Brady |
| Electronic Copy To | Environmental Standards  | Attn: St. Gobain   |
| Electronic Copy To | Barr Engineering Company | Attn: Data Mgt     |

Respectfully Submitted,



Nancy Jean Bornholm  
Principal Specialist

(717) 556-7250

To view our laboratory's current scopes of accreditation please go to <http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/>. Historical copies may be requested through your project manager.



### SAMPLE INFORMATION

| <u>Client Sample Description</u>  | <u>Sample Collection<br/>Date/Time</u> | <u>ELLE#</u> |
|-----------------------------------|--|--------------|
| LTB01-181029 Blank Water          | 10/29/2018                             | 9874512      |
| FTB01-181029 Grab Blank Water     | 10/29/2018 13:08                       | 9874513      |
| GAC Influent Grab Drinking Water  | 10/29/2018 13:10                       | 9874514      |
| GAC Midfluent Grab Drinking Water | 10/29/2018 13:12                       | 9874515      |
| GAC Effluent Grab Drinking Water  | 10/29/2018 13:14                       | 9874516      |

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Project Name: Hoosick Falls WTP  
ELLE Group #: 2003660

**General Comments:**

See the Laboratory Sample Analysis Record section of the Analysis Report for the method references.

All QC met criteria unless otherwise noted in an Analysis Specific Comment below.

Refer to the QC Summary for specific values and acceptance criteria.

Project specific QC samples are not included in this data set.

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Surrogate recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in an Analysis Specific Comment below.

The samples were received at the appropriate temperature and in accordance with the chain of custody unless otherwise noted.

**Analysis Specific Comments:**

No additional comments are necessary.

**Sample Description:** LTB01-181029 Blank Water  
Hoosick Falls Water Treatment Plant

**C. T. Male Associates**  
**ELLE Sample #:** WW 9874512  
**ELLE Group #:** 2003660  
**Matrix:** Blank Water

**Project Name:** Hoosick Falls WTP

**Submission Date/Time:** 10/30/2018 10:20  
**Collection Date/Time:** 10/29/2018  
**SDG#:** HOO12-01TB

| CAT No.   | Analysis Name   | CAS Number | Result      | Limit of Quantitation | Dilution Factor |
|---|---|------------|-------------|-----------------------|-----------------|
| <b>LC/MS/MS Miscellaneous EPA 537 Version 1.1</b> |   |            | <b>ng/l</b> | <b>ng/l</b>           |                 |
| 14070   | NEtFOSAA<br>NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.  | 2991-50-6  | 1.8 U       | 1.8                   | 1               |
| 14070   | NMeFOSAA<br>NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid. | 2355-31-9  | 1.8 U       | 1.8                   | 1               |
| 14070   | Perfluorobutanesulfonate  | 375-73-5   | 1.8 U       | 1.8                   | 1               |
| 14070   | Perfluorodecanoic acid  | 335-76-2   | 1.8 U       | 1.8                   | 1               |
| 14070   | Perfluorododecanoic acid  | 307-55-1   | 1.8 U       | 1.8                   | 1               |
| 14070   | Perfluoroheptanoic acid   | 375-85-9   | 1.8 U       | 1.8                   | 1               |
| 14070   | Perfluorohexanesulfonate  | 355-46-4   | 1.8 U       | 1.8                   | 1               |
| 14070   | Perfluorohexanoic acid  | 307-24-4   | 1.8 U       | 1.8                   | 1               |
| 14070   | Perfluorononanoic acid  | 375-95-1   | 1.8 U       | 1.8                   | 1               |
| 14070   | Perfluoro-octanesulfonate   | 1763-23-1  | 1.8 U       | 1.8                   | 1               |
| 14070   | Perfluorooctanoic acid  | 335-67-1   | 1.8 U       | 1.8                   | 1               |
| 14070   | Perfluorotetradecanoic acid   | 376-06-7   | 1.8 U       | 1.8                   | 1               |
| 14070   | Perfluorotridecanoic acid   | 72629-94-8 | 1.8 U       | 1.8                   | 1               |
| 14070   | Perfluoroundecanoic acid  | 2058-94-8  | 1.8 U       | 1.8                   | 1               |

| CAT No.  | Analysis Name              | CAS Number | Result      | Limit of Quantitation | Dilution Factor |
|--|----------------------------|------------|-------------|-----------------------|-----------------|
| <b>LC/MS/MS Miscellaneous EPA 537 Version 1.1 Modified</b> |                            |            | <b>ng/l</b> | <b>ng/l</b>           |                 |
| 14473  | 6:2 fluorotelomersulfonate | 27619-97-2 | 1.7 U       | 1.7                   | 1               |
| 14473  | 8:2 fluorotelomersulfonate | 39108-34-4 | 5.2 U       | 5.2                   | 1               |
| 14473  | Perfluorobutanoic acid     | 375-22-4   | 5.2 U       | 5.2                   | 1               |
| 14473  | Perfluorodecanesulfonate   | 335-77-3   | 1.7 U       | 1.7                   | 1               |
| 14473  | Perfluoroheptanesulfonate  | 375-92-8   | 1.7 U       | 1.7                   | 1               |
| 14473  | Perfluorooctanesulfonamide | 754-91-6   | 2.6 U       | 2.6                   | 1               |
| 14473  | Perfluoropentanoic acid    | 2706-90-3  | 5.2 U       | 5.2                   | 1               |

### Laboratory Sample Analysis Record

| CAT No. | Analysis Name               | Method                       | Trial# | Batch#   | Analysis Date and Time | Analyst             | Dilution Factor |
|---------|-----------------------------|------------------------------|--------|----------|------------------------|---------------------|-----------------|
| 14070   | 14 PFAS Drinking Water List | EPA 537 Version 1.1          | 1      | 18309008 | 11/07/2018 01:33       | Marissa C Drexinger | 1               |
| 14473   | 7 PFAS Compounds            | EPA 537 Version 1.1 Modified | 1      | 18309014 | 11/07/2018 10:42       | Christine E Dolman  | 1               |
| 14381   | DW PFAS Prep                | EPA 537 Version 1.1          | 2      | 18309008 | 11/05/2018 16:00       | Anthony C Polaski   | 1               |
| 14091   | PFAS Water Prep             | EPA 537 Version 1.1 Modified | 2      | 18309014 | 11/05/2018 15:00       | Danielle D McCully  | 1               |

**Sample Description:** FTB01-181029 Grab Blank Water  
Hoosick Falls Water Treatment Plant

**C. T. Male Associates**  
**ELLE Sample #:** PW 9874513  
**ELLE Group #:** 2003660  
**Matrix:** Blank Water

**Project Name:** Hoosick Falls WTP

**Submission Date/Time:** 10/30/2018 10:20  
**Collection Date/Time:** 10/29/2018 13:08  
**SDG#:** HOO12-02FB

| CAT No.   | Analysis Name   | CAS Number | Result      | Limit of Quantitation | Dilution Factor |
|---|---|------------|-------------|-----------------------|-----------------|
| <b>LC/MS/MS Miscellaneous EPA 537 Version 1.1</b> |   |            | <b>ng/l</b> | <b>ng/l</b>           |                 |
| 14070   | NEtFOSAA<br>NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.  | 2991-50-6  | 1.9 U       | 1.9                   | 1               |
| 14070   | NMeFOSAA<br>NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid. | 2355-31-9  | 1.9 U       | 1.9                   | 1               |
| 14070   | Perfluorobutanesulfonate  | 375-73-5   | 1.9 U       | 1.9                   | 1               |
| 14070   | Perfluorodecanoic acid  | 335-76-2   | 1.9 U       | 1.9                   | 1               |
| 14070   | Perfluorododecanoic acid  | 307-55-1   | 1.9 U       | 1.9                   | 1               |
| 14070   | Perfluoroheptanoic acid   | 375-85-9   | 1.9 U       | 1.9                   | 1               |
| 14070   | Perfluorohexanesulfonate  | 355-46-4   | 1.9 U       | 1.9                   | 1               |
| 14070   | Perfluorohexanoic acid  | 307-24-4   | 1.9 U       | 1.9                   | 1               |
| 14070   | Perfluorononanoic acid  | 375-95-1   | 1.9 U       | 1.9                   | 1               |
| 14070   | Perfluoro-octanesulfonate   | 1763-23-1  | 1.9 U       | 1.9                   | 1               |
| 14070   | Perfluorooctanoic acid  | 335-67-1   | 1.9 U       | 1.9                   | 1               |
| 14070   | Perfluorotetradecanoic acid   | 376-06-7   | 1.9 U       | 1.9                   | 1               |
| 14070   | Perfluorotridecanoic acid   | 72629-94-8 | 1.9 U       | 1.9                   | 1               |
| 14070   | Perfluoroundecanoic acid  | 2058-94-8  | 1.9 U       | 1.9                   | 1               |

| CAT No.  | Analysis Name              | CAS Number | Result      | Limit of Quantitation | Dilution Factor |
|--|----------------------------|------------|-------------|-----------------------|-----------------|
| <b>LC/MS/MS Miscellaneous EPA 537 Version 1.1 Modified</b> |                            |            | <b>ng/l</b> | <b>ng/l</b>           |                 |
| 14473  | 6:2 fluorotelomersulfonate | 27619-97-2 | 1.8 U       | 1.8                   | 1               |
| 14473  | 8:2 fluorotelomersulfonate | 39108-34-4 | 5.3 U       | 5.3                   | 1               |
| 14473  | Perfluorobutanoic acid     | 375-22-4   | 5.3 U       | 5.3                   | 1               |
| 14473  | Perfluorodecanesulfonate   | 335-77-3   | 1.8 U       | 1.8                   | 1               |
| 14473  | Perfluoroheptanesulfonate  | 375-92-8   | 1.8 U       | 1.8                   | 1               |
| 14473  | Perfluorooctanesulfonamide | 754-91-6   | 2.6 U       | 2.6                   | 1               |
| 14473  | Perfluoropentanoic acid    | 2706-90-3  | 5.3 U       | 5.3                   | 1               |

### Laboratory Sample Analysis Record

| CAT No. | Analysis Name               | Method                       | Trial# | Batch#   | Analysis Date and Time | Analyst             | Dilution Factor |
|---------|-----------------------------|------------------------------|--------|----------|------------------------|---------------------|-----------------|
| 14070   | 14 PFAS Drinking Water List | EPA 537 Version 1.1          | 1      | 18309008 | 11/07/2018 01:44       | Marissa C Drexinger | 1               |
| 14473   | 7 PFAS Compounds            | EPA 537 Version 1.1 Modified | 1      | 18304012 | 11/04/2018 19:00       | Christine E Dolman  | 1               |
| 14381   | DW PFAS Prep                | EPA 537 Version 1.1          | 2      | 18309008 | 11/05/2018 16:00       | Anthony C Polaski   | 1               |
| 14091   | PFAS Water Prep             | EPA 537 Version 1.1 Modified | 1      | 18304012 | 10/31/2018 14:30       | Danielle D McCully  | 1               |

**Sample Description:** GAC Influent Grab Drinking Water  
Hoosick Falls Water Treatment Plant

**C. T. Male Associates**  
**ELLE Sample #:** PW 9874514  
**ELLE Group #:** 2003660  
**Matrix:** Drinking Water

**Project Name:** Hoosick Falls WTP

**Submission Date/Time:** 10/30/2018 10:20  
**Collection Date/Time:** 10/29/2018 13:10  
**SDG#:** HOO12-03

| CAT No.   | Analysis Name   | CAS Number | Result      | Limit of Quantitation | Dilution Factor |
|---|---|------------|-------------|-----------------------|-----------------|
| <b>LC/MS/MS Miscellaneous EPA 537 Version 1.1</b> |   |            | <b>ng/l</b> | <b>ng/l</b>           |                 |
| 14070   | NEtFOSAA<br>NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.  | 2991-50-6  | 1.8 U       | 1.8                   | 1               |
| 14070   | NMeFOSAA<br>NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid. | 2355-31-9  | 1.8 U       | 1.8                   | 1               |
| 14070   | Perfluorobutanesulfonate  | 375-73-5   | 1.8 U       | 1.8                   | 1               |
| 14070   | Perfluorodecanoic acid  | 335-76-2   | 1.8 U       | 1.8                   | 1               |
| 14070   | Perfluorododecanoic acid  | 307-55-1   | 1.8 U       | 1.8                   | 1               |
| 14070   | <b>Perfluoroheptanoic acid</b>  | 375-85-9   | <b>12</b>   | 1.8                   | 1               |
| 14070   | Perfluorohexanesulfonate  | 355-46-4   | 1.8 U       | 1.8                   | 1               |
| 14070   | <b>Perfluorohexanoic acid</b>   | 307-24-4   | <b>11</b>   | 1.8                   | 1               |
| 14070   | Perfluorononanoic acid  | 375-95-1   | 1.8 U       | 1.8                   | 1               |
| 14070   | <b>Perfluoro-octanesulfonate</b>  | 1763-23-1  | <b>2.9</b>  | 1.8                   | 1               |
| 14070   | <b>Perfluorooctanoic acid</b>   | 335-67-1   | <b>390</b>  | 18                    | 10              |
| 14070   | Perfluorotetradecanoic acid   | 376-06-7   | 1.8 U       | 1.8                   | 1               |
| 14070   | Perfluorotridecanoic acid   | 72629-94-8 | 1.8 U       | 1.8                   | 1               |
| 14070   | Perfluoroundecanoic acid  | 2058-94-8  | 1.8 U       | 1.8                   | 1               |

| CAT No.  | Analysis Name              | Method     | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|--|----------------------------|------------|--------|--------|------------------------|---------|-----------------|
| <b>LC/MS/MS Miscellaneous EPA 537 Version 1.1 Modified</b> |                            |            |        |        | <b>ng/l</b>            |         |                 |
| 14473  | 6:2 fluorotelomersulfonate | 27619-97-2 | 1.7 U  | 1.7    | 1                      |         |                 |
| 14473  | 8:2 fluorotelomersulfonate | 39108-34-4 | 5.2 U  | 5.2    | 1                      |         |                 |
| 14473  | Perfluorobutanoic acid     | 375-22-4   | 5.2 U  | 5.2    | 1                      |         |                 |
| 14473  | Perfluorodecanesulfonate   | 335-77-3   | 1.7 U  | 1.7    | 1                      |         |                 |
| 14473  | Perfluoroheptanesulfonate  | 375-92-8   | 1.7 U  | 1.7    | 1                      |         |                 |
| 14473  | Perfluorooctanesulfonamide | 754-91-6   | 2.6 U  | 2.6    | 1                      |         |                 |
| 14473  | Perfluoropentanoic acid    | 2706-90-3  | 5.2 U  | 5.2    | 1                      |         |                 |

### Laboratory Sample Analysis Record

| CAT No. | Analysis Name               | Method                       | Trial# | Batch#   | Analysis Date and Time | Analyst             | Dilution Factor |
|---------|-----------------------------|------------------------------|--------|----------|------------------------|---------------------|-----------------|
| 14070   | 14 PFAS Drinking Water List | EPA 537 Version 1.1          | 1      | 18309008 | 11/07/2018 01:56       | Marissa C Drexinger | 1               |
| 14070   | 14 PFAS Drinking Water List | EPA 537 Version 1.1          | 1      | 18309008 | 11/07/2018 21:40       | Mark Makowiecki     | 10              |
| 14473   | 7 PFAS Compounds            | EPA 537 Version 1.1 Modified | 1      | 18304012 | 11/04/2018 19:09       | Christine E Dolman  | 1               |
| 14381   | DW PFAS Prep                | EPA 537 Version 1.1          | 2      | 18309008 | 11/05/2018 16:00       | Anthony C Polaski   | 1               |
| 14091   | PFAS Water Prep             | EPA 537 Version 1.1 Modified | 1      | 18304012 | 10/31/2018 14:30       | Danielle D McCully  | 1               |

**Sample Description:** GAC Midfluent Grab Drinking Water  
Hoosick Falls Water Treatment Plant

**C. T. Male Associates**  
ELLE Sample #: PW 9874515  
ELLE Group #: 2003660  
Matrix: Drinking Water

**Project Name:** Hoosick Falls WTP

Submittal Date/Time: 10/30/2018 10:20  
Collection Date/Time: 10/29/2018 13:12  
SDG#: HOO12-04

| CAT No.   | Analysis Name   | CAS Number | Result      | Limit of Quantitation | Dilution Factor |
|---|---|------------|-------------|-----------------------|-----------------|
| <b>LC/MS/MS Miscellaneous EPA 537 Version 1.1</b> |   |            | <b>ng/l</b> | <b>ng/l</b>           |                 |
| 14070   | NEtFOSAA<br>NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.  | 2991-50-6  | 1.8 U       | 1.8                   | 1               |
| 14070   | NMeFOSAA<br>NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid. | 2355-31-9  | 1.8 U       | 1.8                   | 1               |
| 14070   | Perfluorobutanesulfonate  | 375-73-5   | 1.8 U       | 1.8                   | 1               |
| 14070   | Perfluorodecanoic acid  | 335-76-2   | 1.8 U       | 1.8                   | 1               |
| 14070   | Perfluorododecanoic acid  | 307-55-1   | 1.8 U       | 1.8                   | 1               |
| 14070   | Perfluoroheptanoic acid   | 375-85-9   | 1.8 U       | 1.8                   | 1               |
| 14070   | Perfluorohexanesulfonate  | 355-46-4   | 1.8 U       | 1.8                   | 1               |
| 14070   | Perfluorohexanoic acid  | 307-24-4   | 1.8 U       | 1.8                   | 1               |
| 14070   | Perfluorononanoic acid  | 375-95-1   | 1.8 U       | 1.8                   | 1               |
| 14070   | Perfluoro-octanesulfonate   | 1763-23-1  | 1.8 U       | 1.8                   | 1               |
| 14070   | Perfluorooctanoic acid  | 335-67-1   | 1.8 U       | 1.8                   | 1               |
| 14070   | Perfluorotetradecanoic acid   | 376-06-7   | 1.8 U       | 1.8                   | 1               |
| 14070   | Perfluorotridecanoic acid   | 72629-94-8 | 1.8 U       | 1.8                   | 1               |
| 14070   | Perfluoroundecanoic acid  | 2058-94-8  | 1.8 U       | 1.8                   | 1               |

| CAT No.  | Analysis Name                 | Method     | Trial#     | Batch# | Analysis Date and Time | Analyst     | Dilution Factor |
|--|-------------------------------|------------|------------|--------|------------------------|-------------|-----------------|
| <b>LC/MS/MS Miscellaneous EPA 537 Version 1.1 Modified</b> |                               |            |            |        | <b>ng/l</b>            | <b>ng/l</b> |                 |
| 14473  | 6:2 fluorotelomersulfonate    | 27619-97-2 | 1.8 U      | 1.8    | 1                      |             |                 |
| 14473  | 8:2 fluorotelomersulfonate    | 39108-34-4 | 5.3 U      | 5.3    | 1                      |             |                 |
| 14473  | <b>Perfluorobutanoic acid</b> | 375-22-4   | <b>7.5</b> | 5.3    | 1                      |             |                 |
| 14473  | Perfluorodecanesulfonate      | 335-77-3   | 1.8 U      | 1.8    | 1                      |             |                 |
| 14473  | Perfluoroheptanesulfonate     | 375-92-8   | 1.8 U      | 1.8    | 1                      |             |                 |
| 14473  | Perfluorooctanesulfonamide    | 754-91-6   | 2.6 U      | 2.6    | 1                      |             |                 |
| 14473  | Perfluoropentanoic acid       | 2706-90-3  | 5.3 U      | 5.3    | 1                      |             |                 |

### Laboratory Sample Analysis Record

| CAT No. | Analysis Name               | Method                       | Trial# | Batch#   | Analysis Date and Time | Analyst             | Dilution Factor |
|---------|-----------------------------|------------------------------|--------|----------|------------------------|---------------------|-----------------|
| 14070   | 14 PFAS Drinking Water List | EPA 537 Version 1.1          | 1      | 18309008 | 11/07/2018 02:19       | Marissa C Drexinger | 1               |
| 14473   | 7 PFAS Compounds            | EPA 537 Version 1.1 Modified | 1      | 18304012 | 11/04/2018 19:27       | Christine E Dolman  | 1               |
| 14381   | DW PFAS Prep                | EPA 537 Version 1.1          | 2      | 18309008 | 11/05/2018 16:00       | Anthony C Polaski   | 1               |
| 14091   | PFAS Water Prep             | EPA 537 Version 1.1 Modified | 1      | 18304012 | 10/31/2018 14:30       | Danielle D McCully  | 1               |

**Sample Description:** GAC Effluent Grab Drinking Water  
Hoosick Falls Water Treatment Plant

**C. T. Male Associates**  
**ELLE Sample #:** PW 9874516  
**ELLE Group #:** 2003660  
**Matrix:** Drinking Water

**Project Name:** Hoosick Falls WTP

**Submission Date/Time:** 10/30/2018 10:20  
**Collection Date/Time:** 10/29/2018 13:14  
**SDG#:** HOO12-05

| CAT No.   | Analysis Name   | CAS Number | Result      | Limit of Quantitation | Dilution Factor |
|---|---|------------|-------------|-----------------------|-----------------|
| <b>LC/MS/MS Miscellaneous EPA 537 Version 1.1</b> |   |            | <b>ng/l</b> | <b>ng/l</b>           |                 |
| 14070   | NEtFOSAA<br>NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid.  | 2991-50-6  | 1.8 U       | 1.8                   | 1               |
| 14070   | NMeFOSAA<br>NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid. | 2355-31-9  | 1.8 U       | 1.8                   | 1               |
| 14070   | Perfluorobutanesulfonate  | 375-73-5   | 1.8 U       | 1.8                   | 1               |
| 14070   | Perfluorodecanoic acid  | 335-76-2   | 1.8 U       | 1.8                   | 1               |
| 14070   | Perfluorododecanoic acid  | 307-55-1   | 1.8 U       | 1.8                   | 1               |
| 14070   | Perfluoroheptanoic acid   | 375-85-9   | 1.8 U       | 1.8                   | 1               |
| 14070   | Perfluorohexanesulfonate  | 355-46-4   | 1.8 U       | 1.8                   | 1               |
| 14070   | Perfluorohexanoic acid  | 307-24-4   | 1.8 U       | 1.8                   | 1               |
| 14070   | Perfluorononanoic acid  | 375-95-1   | 1.8 U       | 1.8                   | 1               |
| 14070   | Perfluoro-octanesulfonate   | 1763-23-1  | 1.8 U       | 1.8                   | 1               |
| 14070   | Perfluorooctanoic acid  | 335-67-1   | 1.8 U       | 1.8                   | 1               |
| 14070   | Perfluorotetradecanoic acid   | 376-06-7   | 1.8 U       | 1.8                   | 1               |
| 14070   | Perfluorotridecanoic acid   | 72629-94-8 | 1.8 U       | 1.8                   | 1               |
| 14070   | Perfluoroundecanoic acid  | 2058-94-8  | 1.8 U       | 1.8                   | 1               |

| CAT No.  | Analysis Name              | CAS Number | Result      | Limit of Quantitation | Dilution Factor |
|--|----------------------------|------------|-------------|-----------------------|-----------------|
| <b>LC/MS/MS Miscellaneous EPA 537 Version 1.1 Modified</b> |                            |            | <b>ng/l</b> | <b>ng/l</b>           |                 |
| 14473  | 6:2 fluorotelomersulfonate | 27619-97-2 | 1.8 U       | 1.8                   | 1               |
| 14473  | 8:2 fluorotelomersulfonate | 39108-34-4 | 5.3 U       | 5.3                   | 1               |
| 14473  | Perfluorobutanoic acid     | 375-22-4   | 5.3 U       | 5.3                   | 1               |
| 14473  | Perfluorodecanesulfonate   | 335-77-3   | 1.8 U       | 1.8                   | 1               |
| 14473  | Perfluoroheptanesulfonate  | 375-92-8   | 1.8 U       | 1.8                   | 1               |
| 14473  | Perfluorooctanesulfonamide | 754-91-6   | 2.7 U       | 2.7                   | 1               |
| 14473  | Perfluoropentanoic acid    | 2706-90-3  | 5.3 U       | 5.3                   | 1               |

### Laboratory Sample Analysis Record

| CAT No. | Analysis Name               | Method                       | Trial# | Batch#   | Analysis Date and Time | Analyst             | Dilution Factor |
|---------|-----------------------------|------------------------------|--------|----------|------------------------|---------------------|-----------------|
| 14070   | 14 PFAS Drinking Water List | EPA 537 Version 1.1          | 1      | 18309008 | 11/07/2018 02:30       | Marissa C Drexinger | 1               |
| 14473   | 7 PFAS Compounds            | EPA 537 Version 1.1 Modified | 1      | 18304012 | 11/04/2018 19:36       | Christine E Dolman  | 1               |
| 14381   | DW PFAS Prep                | EPA 537 Version 1.1          | 2      | 18309008 | 11/05/2018 16:00       | Anthony C Polaski   | 1               |
| 14091   | PFAS Water Prep             | EPA 537 Version 1.1 Modified | 1      | 18304012 | 10/31/2018 14:30       | Danielle D McCully  | 1               |



## Quality Control Summary

Client Name: C. T. Male Associates  
Reported: 11/08/2018 15:24

Group Number: 2003660

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

### Method Blank

| Analysis Name               | Result                            | LOQ  |
|-----------------------------|-----------------------------------|------|
|                             | ng/l                              | ng/l |
| Batch number: 18304012      | Sample number(s): 9874513-9874516 |      |
| 6:2 fluorotelomersulfonate  | 0.50 U                            | 0.50 |
| 8:2 fluorotelomersulfonate  | 1.5 U                             | 1.5  |
| Perfluorobutanoic acid      | 1.5 U                             | 1.5  |
| Perfluorodecanesulfonate    | 0.50 U                            | 0.50 |
| Perfluoroheptanesulfonate   | 0.50 U                            | 0.50 |
| Perfluorooctanesulfonamide  | 0.75 U                            | 0.75 |
| Perfluoropentanoic acid     | 1.5 U                             | 1.5  |
| Batch number: 18309008      | Sample number(s): 9874512-9874516 |      |
| NETFOSAA                    | 2.0 U                             | 2.0  |
| NMeFOSAA                    | 2.0 U                             | 2.0  |
| Perfluorobutanesulfonate    | 2.0 U                             | 2.0  |
| Perfluorodecanoic acid      | 2.0 U                             | 2.0  |
| Perfluorododecanoic acid    | 2.0 U                             | 2.0  |
| Perfluoroheptanoic acid     | 2.0 U                             | 2.0  |
| Perfluorohexanesulfonate    | 2.0 U                             | 2.0  |
| Perfluorohexanoic acid      | 2.0 U                             | 2.0  |
| Perfluorononanoic acid      | 2.0 U                             | 2.0  |
| Perfluoro-octanesulfonate   | 2.0 U                             | 2.0  |
| Perfluorooctanoic acid      | 2.0 U                             | 2.0  |
| Perfluorotetradecanoic acid | 2.0 U                             | 2.0  |
| Perfluorotridecanoic acid   | 2.0 U                             | 2.0  |
| Perfluoroundecanoic acid    | 2.0 U                             | 2.0  |
| Batch number: 18309014      | Sample number(s): 9874512         |      |
| 6:2 fluorotelomersulfonate  | 2.0 U                             | 2.0  |
| 8:2 fluorotelomersulfonate  | 6.0 U                             | 6.0  |
| Perfluorobutanoic acid      | 6.0 U                             | 6.0  |
| Perfluorodecanesulfonate    | 2.0 U                             | 2.0  |
| Perfluoroheptanesulfonate   | 2.0 U                             | 2.0  |
| Perfluorooctanesulfonamide  | 3.0 U                             | 3.0  |
| Perfluoropentanoic acid     | 6.0 U                             | 6.0  |

### LCS/LCSD

| Analysis Name | LCS Spike Added | LCS Conc | LCSD Spike Added | LCSD Conc | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|---------------|-----------------|----------|------------------|-----------|----------|-----------|-----------------|-----|---------|
|---------------|-----------------|----------|------------------|-----------|----------|-----------|-----------------|-----|---------|

\*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

P##### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

## Quality Control Summary

Client Name: C. T. Male Associates  
Reported: 11/08/2018 15:24

Group Number: 2003660

### LCS/LCSD

| Analysis Name               | LCS Spike Added ng/l              | LCS Conc ng/l | LCSD Spike Added ng/l | LCSD Conc ng/l | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|-----------------------------|-----------------------------------|---------------|-----------------------|----------------|----------|-----------|-----------------|-----|---------|
| Batch number: 18304012      | Sample number(s): 9874513-9874516 |               |                       |                |          |           |                 |     |         |
| 6:2 fluorotelomersulfonate  | 15.17                             | 13.64         | 15.17                 | 12.88          | 90       | 85        | 66-155          | 6   | 30      |
| 8:2 fluorotelomersulfonate  | 15.33                             | 15.28         | 15.33                 | 15.4           | 100      | 100       | 66-148          | 1   | 30      |
| Perfluorobutanoic acid      | 5.44                              | 5.26          | 5.44                  | 5.32           | 97       | 98        | 74-142          | 1   | 30      |
| Perfluorodecanesulfonate    | 5.24                              | 3.92          | 5.24                  | 4.78           | 75       | 91        | 60-135          | 20  | 30      |
| Perfluoroheptanesulfonate   | 5.18                              | 4.40          | 5.18                  | 4.88           | 85       | 94        | 64-135          | 10  | 30      |
| Perfluorooctanesulfonamide  | 5.44                              | 5.17          | 5.44                  | 4.96           | 95       | 91        | 65-164          | 4   | 30      |
| Perfluoropentanoic acid     | 5.44                              | 5.11          | 5.44                  | 4.91           | 94       | 90        | 74-134          | 4   | 30      |
| Batch number: 18309008      | Sample number(s): 9874512-9874516 |               |                       |                |          |           |                 |     |         |
| NEtFOSAA                    | 80                                | 72.71         | 80                    | 72.95          | 91       | 91        | 70-130          | 0   | 30      |
| NMeFOSAA                    | 80                                | 79.46         | 80                    | 76.95          | 99       | 96        | 70-130          | 3   | 30      |
| Perfluorobutanesulfonate    | 70.76                             | 63.59         | 70.76                 | 62.7           | 90       | 89        | 70-130          | 1   | 30      |
| Perfluorodecanoic acid      | 80                                | 74.85         | 80                    | 75.76          | 94       | 95        | 70-130          | 1   | 30      |
| Perfluorododecanoic acid    | 80                                | 77.79         | 80                    | 77.27          | 97       | 97        | 70-130          | 1   | 30      |
| Perfluoroheptanoic acid     | 80                                | 69.1          | 80                    | 73.89          | 86       | 92        | 70-130          | 7   | 30      |
| Perfluorohexanesulfonate    | 75.64                             | 68.15         | 75.64                 | 69.4           | 90       | 92        | 70-130          | 2   | 30      |
| Perfluorohexanoic acid      | 80                                | 68.54         | 80                    | 69.98          | 86       | 87        | 70-130          | 2   | 30      |
| Perfluorononanoic acid      | 80                                | 71.1          | 80                    | 74.68          | 89       | 93        | 70-130          | 5   | 30      |
| Perfluoro-octanesulfonate   | 76.48                             | 61.15         | 76.48                 | 62.69          | 80       | 82        | 70-130          | 2   | 30      |
| Perfluorooctanoic acid      | 80                                | 67.4          | 80                    | 73.91          | 84       | 92        | 70-130          | 9   | 30      |
| Perfluorotetradecanoic acid | 80                                | 77.42         | 80                    | 80.21          | 97       | 100       | 70-130          | 4   | 30      |
| Perfluorotridecanoic acid   | 80                                | 76.74         | 80                    | 79.18          | 96       | 99        | 70-130          | 3   | 30      |
| Perfluoroundecanoic acid    | 80                                | 71.43         | 80                    | 76.05          | 89       | 95        | 70-130          | 6   | 30      |
| Batch number: 18309014      | Sample number(s): 9874512         |               |                       |                |          |           |                 |     |         |
| 6:2 fluorotelomersulfonate  | 15.17                             | 14.57         | 15.17                 | 16.47          | 96       | 109       | 66-155          | 12  | 30      |
| 8:2 fluorotelomersulfonate  | 15.33                             | 14.38         | 15.33                 | 14.92          | 94       | 97        | 66-148          | 4   | 30      |
| Perfluorobutanoic acid      | 5.44                              | 5.22          | 5.44                  | 5.56           | 96       | 102       | 74-142          | 6   | 30      |
| Perfluorodecanesulfonate    | 5.24                              | 4.64          | 5.24                  | 4.98           | 88       | 95        | 60-135          | 7   | 30      |
| Perfluoroheptanesulfonate   | 5.18                              | 5.53          | 5.18                  | 4.93           | 107      | 95        | 64-135          | 11  | 30      |
| Perfluorooctanesulfonamide  | 5.44                              | 5.25          | 5.44                  | 5.00           | 97       | 92        | 65-164          | 5   | 30      |
| Perfluoropentanoic acid     | 5.44                              | 5.14          | 5.44                  | 5.17           | 95       | 95        | 74-134          | 1   | 30      |

\*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

P##### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

## Quality Control Summary

Client Name: C. T. Male Associates  
Reported: 11/08/2018 15:24

Group Number: 2003660

### Labeled Isotope Quality Control

Labeled isotope recoveries which are outside of the QC window are confirmed unless otherwise noted on the analysis report.

Analysis Name: 7 PFAS Compounds  
Batch number: 18304012

|         | 13C4-PFBA | 13C5-PFPeA | 13C3-PFHxS | 13C2-6:2-FTS | 13C8-PFOS | 13C2-8:2-FTS |
|---------|-----------|------------|------------|--------------|-----------|--------------|
| 9874513 | 79        | 73         | 77         | 97           | 78        | 89           |
| 9874514 | 77        | 82         | 100        | 101          | 70        | 82           |
| 9874515 | 80        | 79         | 75         | 93           | 80        | 86           |
| 9874516 | 79        | 77         | 78         | 97           | 77        | 91           |
| Blank   | 86        | 79         | 80         | 106          | 85        | 105          |
| LCS     | 84        | 79         | 82         | 99           | 81        | 92           |
| LCSD    | 85        | 82         | 78         | 105          | 78        | 101          |
| Limits: | 33-123    | 31-157     | 34-126     | 32-170       | 50-121    | 27-164       |

#### 13C8-PFOSA

|         |    |
|---------|----|
| 9874513 | 73 |
| 9874514 | 63 |
| 9874515 | 76 |
| 9874516 | 80 |
| Blank   | 78 |
| LCS     | 73 |
| LCSD    | 74 |

Limits: 11-127

Analysis Name: 14 PFAS Drinking Water List  
Batch number: 18309008

|         | 13C2-PFHxA | 13C2-PFDA | D5-NetFOSAA |
|---------|------------|-----------|-------------|
| 9874512 | 93         | 103       | 91          |
| 9874513 | 91         | 99        | 97          |
| 9874514 | 101        | 108       | 92          |
| 9874515 | 93         | 102       | 95          |
| 9874516 | 92         | 101       | 95          |
| Blank   | 91         | 96        | 90          |
| LCS     | 93         | 104       | 92          |
| LCSD    | 93         | 96        | 88          |

Limits: 70-130 70-130 70-130

Analysis Name: 7 PFAS Compounds  
Batch number: 18309014

|         | 13C4-PFBA | 13C5-PFPeA | 13C3-PFHxS | 13C2-6:2-FTS | 13C8-PFOS | 13C2-8:2-FTS |
|---------|-----------|------------|------------|--------------|-----------|--------------|
| 9874512 | 79        | 81         | 71         | 83           | 79        | 86           |
| Blank   | 72        | 72         | 69         | 82           | 70        | 88           |

\*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

P##### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

## Quality Control Summary

Client Name: C. T. Male Associates  
Reported: 11/08/2018 15:24

Group Number: 2003660

### Labeled Isotope Quality Control (continued)

Labeled isotope recoveries which are outside of the QC window are confirmed unless otherwise noted on the analysis report.

Analysis Name: 7 PFAS Compounds  
Batch number: 18309014

|         | 13C4-PFBA | 13C5-PFPeA | 13C3-PFHxS | 13C2-6:2-FTS | 13C8-PFOS | 13C2-8:2-FTS |
|---------|-----------|------------|------------|--------------|-----------|--------------|
| LCS     | 84        | 84         | 73         | 99           | 83        | 97           |
| LCSD    | 71        | 70         | 70         | 82           | 72        | 81           |
| Limits: | 33-123    | 31-157     | 34-126     | 32-170       | 50-121    | 27-164       |

|         | 13C8-PFOSA |
|---------|------------|
| 9874512 | 71         |
| Blank   | 68         |
| LCS     | 74         |
| LCSD    | 65         |
| Limits: | 11-127     |

\*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

P##### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

# Environmental Services Analysis Request/Chain of Custody

Acct. #: 37191

Group #:

2003660

Sample #:

9874512-16

COC#: 20020

|   |  |  |      |   |           |                  |   |                                     |   |            |   |   |  |              |  |                |  |            |  |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---|--|--|------|---|-----------|------------------|---|-------------------------------------|---|------------|---|---|--|--------------|--|----------------|--|------------|--|------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Client: <b>C.T. Male Associates</b>   |  |  |      | <b>Matrix</b><br><input type="checkbox"/> Sediment <input type="checkbox"/> Ground <input type="checkbox"/> Surface<br><input type="checkbox"/> Soil <input checked="" type="checkbox"/> Drinking Water <input type="checkbox"/> NPDES    Other: <u>Raw Water</u> |           |                  |   | Analyses Requested                  |   |            |   |   |  |              |  |                |  |            |  | For Lab Use Only |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Project Name/#: Hoosick Falls WTP   |  | Site ID:                                       |      |   |           |                  |   | Preservation Codes                  |   |            |   |   |  |              |  |                |  |            |  | SF#: 303216      |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Project Manager: Kirk Moline  |  | P.O. #: 14.4756                                |      | 7 PFCs (EPA 537 mod.)    Z<br>14 PFCs (EPA 537 ver. 1.1)  |           |                  |   |                                     |   |            |   |   |  |              |  | SCR#: 233811   |  |            |  |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sampler: CB   |  | Quote #: 219169                                |      |   |           |                  |   |                                     |   |            |   |   |  |              |  | Remarks        |  |            |  |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Phone #: (518) 786-7400   |  |  |      | Preservation Codes<br>H = HCl    T = Thiosulfate<br>N = HNO <sub>3</sub> B = NaOH<br>S = H <sub>2</sub> SO <sub>4</sub> P = H <sub>3</sub> PO <sub>4</sub><br>O = Other    Z = Trizma   |           |                  |   |                                     |   |            |   |   |  |              |  |                |  |            |  |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| State where sample(s) were collected: NY  |  |  |      |   |           |                  |   |                                     |   |            |   |   |  |              |  |                |  |            |  |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Sample Identification   |  | Collection                                     |      | Grab  | Composite |                  |   |                                     |   |            |   |   |  |              |  |                |  |            |  |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|   |  | Date   | Time |   |           |                  |   |                                     |   |            |   |   |  |              |  |                |  |            |  |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| LTB 01-181029   |  | 10/29/18                                       |      | X   |           |                  |   | X                                   | 4 | X          | X |   |  |              |  |                |  |            |  |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| FTB 01-181029   |  |  | 1308 | X   |           |                  |   | X                                   | 4 | X          | X |   |  |              |  |                |  |            |  |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| GAC Influent  |  |  | 1310 | X   |           |                  | X |                                     | 4 | X          | X |   |  |              |  |                |  |            |  |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| GAC Midfluent   |  |  | 1312 | X   |           |                  | X |                                     | 4 | X          | X |   |  |              |  |                |  |            |  |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| GAC Effluent  |  |  | 1314 | X   |           |                  | X |                                     | 4 | X          | X |   |  |              |  |                |  |            |  |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Turnaround Time Requested (TAT) (please check): Standard <input checked="" type="checkbox"/> RUSH <input type="checkbox"/><br>(RUSH TAT is subject to Eurofins Lancaster Laboratories approval and surcharges.) |  |  |      | Relinquished by: <u>Kirk Moline</u>   |           |                  |   | Date: 10/29/18                      |   | Time: 1545 |   | Received by:                            |  |              |  | Date:          |  | Time:      |  |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Date results are needed:  |  |  |      | Relinquished by:  |           |                  |   | Date:                               |   | Time:      |   | Received by:                            |  |              |  | Date:          |  | Time:      |  |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| E-mail address to send RUSH results: <u>K.moline@ctmale.com</u>   |  |  |      | Relinquished by:  |           |                  |   | Date:                               |   | Time:      |   | Received by:                            |  |              |  | Date:          |  | Time:      |  |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Data Package Options (please check if required)   |  |  |      | Relinquished by:  |           |                  |   | Date:                               |   | Time:      |   | Received by:                            |  |              |  | Date:          |  | Time:      |  |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Type I (Validation/non-CLP) <input type="checkbox"/>  |  | MA MCP <input type="checkbox"/>                |      | TX TRRP - 13 <input type="checkbox"/>   |           | Relinquished by: |   |                                     |   | Date:      |   | Time:                                   |  | Received by: |  |                |  | Date:      |  | Time:            |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Type III (Reduced non-CLP) <input type="checkbox"/>   |  | CT RCP <input type="checkbox"/>                |      | Relinquished by:  |           |                  |   | Date:                               |   | Time:      |   | Received by:                            |  |              |  | Date:          |  | Time:      |  |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Type IV (CLP SOW) <input type="checkbox"/>  |  | ASP Type A <input type="checkbox"/>            |      | Relinquished by:  |           |                  |   | Date:                               |   | Time:      |   | Received by:                            |  |              |  | Date:          |  | Time:      |  |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Type VI (Raw Data Only) <input type="checkbox"/>  |  | ASP Type B <input checked="" type="checkbox"/> |      | Relinquished by:  |           |                  |   | Date:                               |   | Time:      |   | Received by: <u>Mir</u>                 |  |              |  | Date: 10/30/18 |  | Time: 1030 |  |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| EDD Format: EQUIS   |  |  |      | Airbill No.:  |           |                  |   | Relinquished by Commercial Carrier: |   |            |   | Temperature upon receipt: <u>1.1</u> °C |  |              |  |                |  |            |  |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| If site-specific QC (MS/MSD/Dup) required, indicate QC samples and submit triplicate volume.  |  |  |      | UPS _____ FedEx <input checked="" type="checkbox"/> Other _____   |           |                  |   |                                     |   |            |   |   |  |              |  |                |  |            |  |                  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |



Client: C.T. Male Assoc.

**Delivery and Receipt Information**

Delivery Method: Fed Ex                      Arrival Timestamp: 10/30/2018 10:20  
 Number of Packages: 2                      Number of Projects: 2  
 State/Province of Origin: NY

**Arrival Condition Summary**

|                                      |     |                                     |           |
|--------------------------------------|-----|-------------------------------------|-----------|
| Shipping Container Sealed:           | Yes | Sample IDs on COC match Containers: | Yes       |
| Custody Seal Present:                | Yes | Sample Date/Times match COC:        | Yes       |
| Custody Seal Intact:                 | Yes | VOA Vial Headspace ≥ 6mm:           | N/A       |
| Samples Chilled:                     | Yes | Total Trip Blank Qty:               | 4         |
| Paperwork Enclosed:                  | Yes | Trip Blank Type:                    | See Below |
| Samples Intact:                      | Yes | Air Quality Samples Present:        | No        |
| Missing Samples:                     | No  |                                     |           |
| Extra Samples:                       | No  |                                     |           |
| Discrepancy in Container Qty on COC: | No  |                                     |           |

Trip Blank Type(s): Unpreserved

Unpacked by Nicole Reiff (25684) at 15:21 on 10/30/2018

**Samples Chilled Details**

Thermometer Types:    DT = Digital (Temp. Bottle)    IR = Infrared (Surface Temp)    All Temperatures in °C.

| Cooler # | Thermometer ID | Corrected Temp | Therm. Type | Ice Type | Ice Present? | Ice Container | Elevated Temp? |
|----------|----------------|----------------|-------------|----------|--------------|---------------|----------------|
| 1        | DT146          | 1.1            | DT          | Wet      | Y            | Bagged        | N              |

# Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

|                         |  |                 |                               |
|-------------------------|--|-----------------|-------------------------------|
| <b>BMQL</b>             | Below Minimum Quantitation Level   | <b>mL</b>       | milliliter(s)                 |
| <b>C</b>                | degrees Celsius  | <b>MPN</b>      | Most Probable Number          |
| <b>cfu</b>              | colony forming units   | <b>N.D.</b>     | non-detect                    |
| <b>CP Units</b>         | cobalt-chloroplatinate units   | <b>ng</b>       | nanogram(s)                   |
| <b>F</b>                | degrees Fahrenheit   | <b>NTU</b>      | nephelometric turbidity units |
| <b>g</b>                | gram(s)  | <b>pg/L</b>     | picogram/liter                |
| <b>IU</b>               | International Units  | <b>RL</b>       | Reporting Limit               |
| <b>kg</b>               | kilogram(s)  | <b>TNTC</b>     | Too Numerous To Count         |
| <b>L</b>                | liter(s)   | <b>µg</b>       | microgram(s)                  |
| <b>lb.</b>              | pound(s)   | <b>µL</b>       | microliter(s)                 |
| <b>m3</b>               | cubic meter(s)   | <b>umhos/cm</b> | micromhos/cm                  |
| <b>meq</b>              | milliequivalents   | <b>MCL</b>      | Maximum Contamination Limit   |
| <b>mg</b>               | milligram(s)   |                 |                               |
| <b>&lt;</b>             | less than  |                 |                               |
| <b>&gt;</b>             | greater than   |                 |                               |
| <b>ppm</b>              | parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas. |                 |                               |
| <b>ppb</b>              | parts per billion  |                 |                               |
| <b>Dry weight basis</b> | Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.   |                 |                               |

**Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.**

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

**WARRANTY AND LIMITS OF LIABILITY** - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

# Data Qualifiers

| Qualifier      | Definition  |
|----------------|---|
| C              | Result confirmed by reanalysis  |
| D1             | Indicates for dual column analyses that the result is reported from column 1  |
| D2             | Indicates for dual column analyses that the result is reported from column 2  |
| E              | Concentration exceeds the calibration range   |
| K1             | Initial Calibration Blank is above the QC limit and the sample result is ND   |
| K2             | Continuing Calibration Blank is above the QC limit and the sample result is ND  |
| K3             | Initial Calibration Verification is above the QC limit and the sample result is ND  |
| K4             | Continuing Calibration Verification is above the QC limit and the sample result is ND   |
| J (or G, I, X) | Estimated value $\geq$ the Method Detection Limit (MDL or DL) and $<$ the Limit of Quantitation (LOQ or RL)   |
| P              | Concentration difference between the primary and confirmation column $>40\%$ . The lower result is reported.  |
| P^             | Concentration difference between the primary and confirmation column $> 40\%$ . The higher result is reported.  |
| U              | Analyte was not detected at the value indicated   |
| V              | Concentration difference between the primary and confirmation column $>100\%$ . The reporting limit is raised due to this disparity and evident interference. |
| W              | The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.   |
| Z              | Laboratory Defined - see analysis report  |

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.