



Eaton Analytical

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
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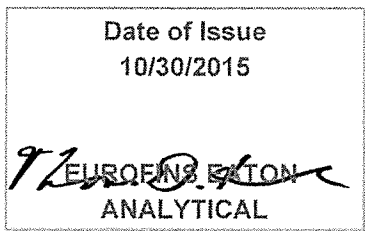


AT-1807

Laboratory Report

for

Aqua Pennsylvania, Inc.
762 Lancaster Avenue
Bryn Mawr, PA 19010-3489
Attention: Chuck Hertz
Fax: (610) 645-1164



TDF: Thomas.D.French
Project Manager



ORELAP 4034

Report: 547199
Project: PFC
Group: PFC Monitoring Horsham

- * Accredited in accordance with TNI 2009 and ISO/IEC 17025:2005.
- * Laboratory certifies that the test results meet all **TNI 2009 and ISO/IEC 17025:2005** requirements unless noted under the individual analysis.
- * Following the cover page are State Certification List, ISO 17025 Accredited Method List, Acknowledgement of Samples Received, Comments, Hits Report, Data Report, QC Summary, QC Report and Regulatory Forms, as applicable.
- * Test results relate only to the sample(s) tested.
- * This report shall not be reproduced except in full, without the written approval of the laboratory.

STATE CERTIFICATION LIST

| State | Certification Number | State | Certification Number |
|---------------------------------------|----------------------|---|----------------------|
| Alabama | 41060 | Mississippi | Certified |
| ----- | ----- | Montana | Cert 0035 |
| Arizona | AZ0778 | Nebraska | Certified |
| Arkansas | Certified | Nevada | CA00006-2015 |
| California-Monrovia-ELAP | 2813 | New Hampshire * | 2959 |
| California-Colton- ELAP | 2812 | New Jersey * | CA 008 |
| California-Folsom- ELAP | 2820 | New Mexico | Certified |
| California-Fresno- ELAP | 2966 | New York * | 11320 |
| Colorado | Certified | North Carolina | 06701 |
| Connecticut | PH-0107 | North Dakota | R-009 |
| Delaware | CA 006 | Oregon (Primary AB) * | ORELAP 4034 |
| Florida * | E871024 | Pennsylvania * | 68-565 |
| Georgia | 947 | Rhode Island | LAO00326 |
| Guam | 15-003r | South Carolina | 87016 |
| Hawaii | Certified | South Dakota | Certified |
| Idaho | Certified | Tennessee | TN02839 |
| Illinois * | 200033 | Texas * | T104704230-14-7 |
| Indiana | C-CA-01 | Utah * | CA000062015-8 |
| Kansas * | E-10268 | Vermont | VT0114 |
| Kentucky | 90107 | Virginia * | 460260 |
| Louisiana * | LA150018 | Washington | C838 |
| Maine | CA0006 | West Virginia | 9943 C |
| Maryland | 224 | Wisconsin | 998316660 |
| Commonwealth of Northern Marianas Is. | MP0004 | Wyoming | 8TMS-L |
| Massachusetts | M-CA006 | EPA Region 5 | Certified |
| Michigan | 9906 | Los Angeles County Sanitation Districts | 10264 |

* NELAP/TNI Recognized Accreditation Bodies

ISO 17025 Accredited Method List

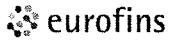
The tests listed below are accredited and meet the requirements of ISO 17025 as verified by the ANSI-ASQ National Accreditation Board/ANAB.

Refer to Certificate and scope of accreditation (AT 1807) found at: <http://www.eatonanalytical.com>

| SPECIFIC TESTS | METHOD OR TECHNIQUE USED | Environmental (Drinking Water) | Environmental (Waste Water) | Water as a Component of Food and Bev/Bev/ Bottled Water |
|---|--------------------------|--------------------------------|-----------------------------|---|
| 1,4-Dioxane | EPA 522 | x | | x |
| 2,3,7,8-TCDD | Modified EPA 1613B | x | | x |
| Acrylamide | In House Method (2440) | x | | x |
| Alkalinity | SM 2320B | x | x | x |
| Ammonia | EPA 350.1 | | x | x |
| Ammonia | SM 4500-NH3 H | | x | x |
| Anions and DBPs by IC | EPA 300.0 | x | x | x |
| Anions and DBPs by IC | EPA 300.1 | x | | x |
| Asbestos | EPA 100.2 | x | x | |
| Bicarbonate Alkalinity as HCO3 | SM 2320B | x | x | x |
| BOD / CBOD | SM 5210B | | x | x |
| Bromate | In House Method (2447) | x | | x |
| Carbamates | EPA 531.2 | x | | x |
| Carbonate as CO3 | SM 2330B | x | x | x |
| Carbonyls | EPA 556 | x | | x |
| COD | EPA 410.4 / SM 5220D | | x | |
| Chloramines | SM 4500-CL G | x | x | x |
| Chlorinated Acids | EPA 515.4 | x | | x |
| Chlorinated Acids | EPA 555 | x | | x |
| Chlorine Dioxide | SM 4500-CLO2 D | x | | x |
| Chlorine -Total/Free/ Combined Residual | SM 4500-CI G | x | x | x |
| Conductivity | EPA 120.1 | | x | |
| Conductivity | SM 2510B | x | x | x |
| Corrosivity (Langelier Index) | SM 2330B | x | | x |
| Cryptosporidium | EPA 1622, 1623 | x | | x |
| Cyanide, Amenable | SM 4500-CN G | x | x | |
| Cyanide, Free | SM 4500CN F | x | x | x |
| Cyanide, Total | EPA 335.4 | x | x | x |
| Cyanogen Chloride (screen) | In House Method (2470) | x | | x |
| Diquat and Paraquat | EPA 549.2 | x | | x |
| DBP/HAA | SM 6251B | x | | x |
| Dissolved Oxygen | SM 4500-O G | | x | x |
| DOC | SM 5310C | x | | x |
| E. Coli | (MTF/EC+MUG) | x | | x |
| E. Coli | CFR 141.21(f)(6)(i) | x | | x |
| E. Coli | SM 9223 | | x | |
| E. Coli (Enumeration) | SM 9221B.1/ SM 9221F | x | | x |
| E. Coli (Enumeration) | SM 9223B | x | | x |
| EDB/DCBP | EPA 504.1 | x | | |
| EDB/DCBP and DBP | EPA 551.1 | x | | x |
| EDTA and NTA | In House Method (2454) | x | | x |
| Endothall | EPA 548.1 | x | | x |
| Endothall | In-house Method (2445) | x | | x |
| Enterococci | SM 9230B | x | x | |
| Fecal Coliform | SM 9221 E (MTF/EC) | x | | |
| Fecal Coliform | SM 9221C, E (MTF/EC) | | x | |
| Fecal Coliform (Enumeration) | SM 9221E (MTF/EC) | x | | x |
| Fecal Coliform with Chlorine Present | SM 9221E | | x | |
| Fecal Streptococci | SM 9230B | x | x | |
| Fluoride | SM 4500-F C | x | x | x |
| Giardia | EPA 1623 | x | | x |
| Glyphosate | EPA 547 | x | | x |
| Gross Alpha/Beta | EPA 900.0 | x | x | x |
| Gross Alpha Coprecipitation | SM 7110 C | x | x | x |
| Hardness | SM 2340B | x | x | x |
| Heterotrophic Bacteria | In House Method (2439) | x | | x |
| Heterotrophic Bacteria | SM 9215 B | x | | x |
| Hexavalent Chromium | EPA 218.6 | x | x | x |

| SPECIFIC TESTS | METHOD OR TECHNIQUE USED | Environmental (Drinking Water) | Environmental (Waste Water) | Water as a Component of Food and Bev/Bev/ Bottled Water |
|---|--|--------------------------------|-----------------------------|---|
| Hexavalent Chromium | EPA 218.7 | x | | x |
| Hexavalent Chromium | SM 3500-Cr B | | x | |
| Hormones | EPA 539 | x | | x |
| Hydroxide as OH Calc. | SM 2330B | x | | x |
| Kjeldahl Nitrogen | EPA 351.2 | | x | |
| Legionella | CDC Legionella | x | | x |
| Mercury | EPA 245.1 | x | x | x |
| Metals | EPA 200.7 / 200.8 | x | x | x |
| Microcystin LR | ELISA (2360) | x | | x |
| NDMA | EPA 521 | x | | x |
| Nitrate/Nitrite Nitrogen | EPA 353.2 | x | x | x |
| OCL, Pesticides/PCB | EPA 505 | x | | x |
| Ortho Phosphate | EPA 365.1 | x | x | x |
| Ortho Phosphate | SM 4500P E | | | x |
| Ortho Phosphorous | SM 4500P E | x | | |
| Oxyhalides Disinfection Byproducts | EPA 317.0 | x | | x |
| Perchlorate | EPA 331.0 | x | | x |
| Perchlorate (low and high) | EPA 314.0 | x | | x |
| Perfluorinated Alkyl Acids | EPA 537 | x | | x |
| pH | EPA 150.1 | x | | |
| pH | SM 4500-H+B | x | x | x |
| Phenylurea Pesticides/ Herbicides | In House Method, based on EPA 532 (2448) | x | | x |
| Pseudomonas | IDEXX Pseudalert (2461) | x | | x |
| Radium-226 | GA Institute of Tech | x | | x |
| Radium-228 | GA Institute of Tech | x | | x |
| Radon-222 | SM 7500RN | x | | x |
| Residue, Filterable | SM 2540C | x | x | x |
| Residue, Non-filterable | SM 2540D | | x | |
| Residue, Total | SM 2540B | | x | x |
| Residue, Volatile | EPA 160.4 | | x | |
| Semi-VOC | EPA 525.2 | x | | x |
| Semi-VOC | EPA 625 | | x | x |
| Silica | SM 4500-Si D | x | x | |
| Silica | SM 4500-SiO2 C | x | x | |
| Sulfide | SM 4500-S ²⁻ D | | x | |
| Sulfite | SM 4500-SO ³⁻ B | x | x | x |
| Surfactants | SM 5540C | x | x | x |
| Taste and Odor Analytes | SM 6040E | x | | x |
| Total Coliform (P/A) | SM 9221 A, B | x | | x |
| Total Coliform (Enumeration) | SM 9221 A, B, C | x | | x |
| Total Coliform / E. coli | Colisure (2346) | x | | x |
| Total Coliform | SM 9221B | | x | |
| Total Coliform with Chlorine Present | SM 9221B | | x | |
| Total Coliform / E.coli (P/A and Enumeration) | SM 9223 | x | | x |
| TOC | SM 5310C | x | x | x |
| TOX | SM 5320B | | x | |
| Total Phenols | EPA 420.1 | | x | |
| Total Phenols | EPA 420.4 | x | x | x |
| Total Phosphorous | SM 4500 P E | | x | |
| Turbidity | EPA 180.1 | x | x | x |
| Turbidity | SM 2130B | x | x | |
| Uranium by ICP/MS | EPA 200.8 | x | | x |
| UV 254 | SM 5910B | x | | |
| VOC | EPA 524.2/EPA 524.3 | x | | x |
| VOC | EPA 624 | | x | x |
| VOC | EPA SW 846 8260 | x | | x |
| VOC | In House Method (2411) | x | | x |
| Yeast and Mold | SM 9610 | x | | x |

750 Royal Oaks Dr., Ste 100, Monrovia, CA 91016 Tel (626) 386-1100 Fax (626) 386-1101 <http://www.EatonAnalytical.com>



Eaton Analytical

Acknowledgement of Samples Received

Addr: **Aqua Pennsylvania, Inc.**
762 Lancaster Avenue
Bryn Mawr, PA 19010-3489

Client ID: PHILLYSUB
Folder #: 547199
Project: PFC
Sample Group: PFC Monitoring Horsham

Attn: Chuck Hertz
Phone: (610) 645-1145

Project Manager: Thomas.D.French
Phone: (480) 778-1558

The following samples were received from you on **October 20, 2015 at 1141**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using Eurofins Eaton Analytical.

| Sample # | Sample ID | Sample Date |
|---------------------|-------------------|-----------------|
| <u>201508080032</u> | Horsham Well # 17 | 10/14/2015 0940 |
| | @537 | |
| <u>201508080031</u> | Horsham Well # 10 | 10/14/2015 1100 |
| | @537 | |
| <u>201508080033</u> | Horsham Well # 21 | 10/14/2015 0915 |
| | @537 | |

Test Description

@537 -- Perfluorinated Alkyl Acids

INTERNAL CHAIN OF CUSTODY RECORD

COMPANY NAME / EEA CLIENT CODE: EUROFINS EATON ANALYTICAL

PROJECT CODE: COE boys HO 13:15

SAMPLE TEMP RECEIVED:

IR Gun ID = 1144 (Observation = 0.5 °C) (Corr. Factor 0.2 °C) (Final = 0.3 °C)

SAMPLES REC'D DAY OF COLLECTION?

TYPE OF ICE: Real Synthetic No Ice CONDITION OF ICE: Frozen Partially Frozen Thawed N/A

METHOD OF SHIPMENT: Pick-Up / Walk-In / FedEx / UPS / DHL / Area Fast / Top Line / Other: _____

Compliance Acceptance Criteria:

- 1) Chemistry: $\leq 6^{\circ}\text{C}$, not frozen (NELAP) (if received after 24 hrs of sample collection)
- 2) Microbiology, Distribution: $< 10^{\circ}\text{C}$, not frozen (can be $\geq 10^{\circ}\text{C}$ if received on ice the same day as sample collection, within 8 hours)
- 3) Microbiology, Surface Water: $< 10^{\circ}\text{C}$ (if received after 2 hours of sample collection)

If over temp is not confirmed, then record each temperature of each quadrant

| | |
|---|---|
| 1 - (Observation = _____ °C) (Corr. Factor _____ °C) (Final = _____ °C) | 2 - (Observation = _____ °C) (Corr. Factor _____ °C) (Final = _____ °C) |
| 3 - (Observation = _____ °C) (Corr. Factor _____ °C) (Final = _____ °C) | 4 - (Observation = _____ °C) (Corr. Factor _____ °C) (Final = _____ °C) |

4) UCMR3 : 524.3: (Observation = _____ °C) (Corr. Factor _____ °C) (Final = _____ °C)
(non-GLEC)

522: (Observation = _____ °C) (Corr. Factor _____ °C) (Final = _____ °C)

$\leq 10^{\circ}\text{C}$ if received within 48 hours of sample collection (not the same business day); $\leq 6^{\circ}\text{C}$ if received after 48 hours of sample collection. Measure temperature for each method above.

5) LT2: Giardia /Cryptosporidium: $< 20^{\circ}\text{C}$, not frozen (received after 8 hours of sample collection)

E. Coli: $< 10^{\circ}\text{C}$, not frozen (if received after 2 hours of sample collection)

Giardia/Crypto: (Observation = _____ °C) (Corr. Factor _____ °C) (Final = _____ °C)

E.Coli: (Observation = _____ °C) (Corr. Factor _____ °C) (Final = _____ °C)

Note: If samples are over temp, let the ASMs know. ASMs will determine whether to proceed with analysis or not.

RECEIVED BY: [Signature] SIGNATURE

PRINT NAME: A. Ojeda

COMPANY/TITLE: Eurofins Eaton Analytical

DATE: 10/20/15

TIME: 11:47



Eaton Analytical

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Laboratory Comments
Report: 547199

Aqua Pennsylvania, Inc.
Chuck Hertz
762 Lancaster Avenue
Bryn Mawr, PA 19010-3489

The Comments Report may be blank if there are no comments for this report.



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Laboratory Hits
Report: 547199

Aqua Pennsylvania, Inc.
Chuck Hertz
762 Lancaster Avenue
Bryn Mawr, PA 19010-3489

Samples Received on:
10/20/2015 1141

| Analyzed | Analyte | Sample ID | Result | Federal MCL | Units | MRL |
|--|------------------------------|-----------|--------|-------------|-------|--------|
| 201508080031 <u>Horsham Well # 10</u> | | | | | | |
| 10/27/2015 21:26 | Perfluorobutanesulfonic acid | | 0.0078 | | ug/L | 0.0025 |
| 10/27/2015 21:26 | Perfluoroheptanoic acid | | 0.0048 | | ug/L | 0.0025 |
| 10/27/2015 21:26 | Perfluorohexanesulfonic acid | | 0.021 | | ug/L | 0.0025 |
| 10/27/2015 21:26 | Perfluorohexanoic acid | | 0.0088 | | ug/L | 0.0025 |
| 10/27/2015 21:26 | Perfluorooctanesulfonic acid | | 0.021 | | ug/L | 0.0025 |
| 10/27/2015 21:26 | Perfluorooctanoic acid | | 0.017 | | ug/L | 0.0025 |
| 201508080032 <u>Horsham Well # 17</u> | | | | | | |
| 10/27/2015 21:46 | Perfluorobutanesulfonic acid | | 0.012 | | ug/L | 0.0025 |
| 10/27/2015 21:46 | Perfluoroheptanoic acid | | 0.0097 | | ug/L | 0.0025 |
| 10/27/2015 21:46 | Perfluorohexanesulfonic acid | | 0.061 | | ug/L | 0.0025 |
| 10/27/2015 21:46 | Perfluorohexanoic acid | | 0.022 | | ug/L | 0.0025 |
| 10/27/2015 21:46 | Perfluorononanoic acid | | 0.0026 | | ug/L | 0.0025 |
| 10/28/2015 15:38 | Perfluorooctanesulfonic acid | | 0.081 | | ug/L | 0.012 |
| 10/27/2015 21:46 | Perfluorooctanoic acid | | 0.026 | | ug/L | 0.0025 |
| 201508080033 <u>Horsham Well # 21</u> | | | | | | |
| 10/27/2015 22:07 | Perfluorobutanesulfonic acid | | 0.0054 | | ug/L | 0.0025 |
| 10/27/2015 22:07 | Perfluoroheptanoic acid | | 0.0037 | | ug/L | 0.0025 |
| 10/27/2015 22:07 | Perfluorohexanesulfonic acid | | 0.0056 | | ug/L | 0.0025 |
| 10/27/2015 22:07 | Perfluorohexanoic acid | | 0.0059 | | ug/L | 0.0025 |
| 10/27/2015 22:07 | Perfluorooctanesulfonic acid | | 0.0066 | | ug/L | 0.0025 |
| 10/27/2015 22:07 | Perfluorooctanoic acid | | 0.012 | | ug/L | 0.0025 |

SUMMARY OF POSITIVE DATA ONLY



Eaton Analytical

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Laboratory Data
Report: 547199

Aqua Pennsylvania, Inc.
Chuck Hertz
762 Lancaster Avenue
Bryn Mawr, PA 19010-3489

Samples Received on:
10/20/2015 1141

| Prepared | Analyzed | QC Ref # | Method | Analyte | Result | Units | MRL | Dilution |
|----------|----------|----------|--------|---------|--------|-------|-----|----------|
|----------|----------|----------|--------|---------|--------|-------|-----|----------|

Horsham Well # 10 (201508080031)

Sampled on 10/14/2015 1100

EPA 537 - Perfluorinated Alkyl Acids

| | | | | | | | | | |
|------------|------------|-------|--------|-----------|------------------------------|--------|------|--------|---|
| 10/21/2015 | 10/27/2015 | 21:26 | 870334 | (EPA 537) | Perfluorobutanesulfonic acid | 0.0078 | ug/L | 0.0025 | 1 |
| 10/21/2015 | 10/27/2015 | 21:26 | 870334 | (EPA 537) | Perfluorodecanoic acid | ND | ug/L | 0.0025 | 1 |
| 10/21/2015 | 10/27/2015 | 21:26 | 870334 | (EPA 537) | Perfluorododecanoic acid | ND | ug/L | 0.0025 | 1 |
| 10/21/2015 | 10/27/2015 | 21:26 | 870334 | (EPA 537) | Perfluoroheptanoic acid | 0.0048 | ug/L | 0.0025 | 1 |
| 10/21/2015 | 10/27/2015 | 21:26 | 870334 | (EPA 537) | Perfluorohexanesulfonic acid | 0.021 | ug/L | 0.0025 | 1 |
| 10/21/2015 | 10/27/2015 | 21:26 | 870334 | (EPA 537) | Perfluorohexanoic acid | 0.0088 | ug/L | 0.0025 | 1 |
| 10/21/2015 | 10/27/2015 | 21:26 | 870334 | (EPA 537) | Perfluorononanoic acid | ND | ug/L | 0.0025 | 1 |
| 10/21/2015 | 10/27/2015 | 21:26 | 870334 | (EPA 537) | Perfluorooctanesulfonic acid | 0.021 | ug/L | 0.0025 | 1 |
| 10/21/2015 | 10/27/2015 | 21:26 | 870334 | (EPA 537) | Perfluorooctanoic acid | 0.017 | ug/L | 0.0025 | 1 |
| 10/21/2015 | 10/27/2015 | 21:26 | 870334 | (EPA 537) | Perfluorotetradecanoic acid | ND | ug/L | 0.0025 | 1 |
| 10/21/2015 | 10/27/2015 | 21:26 | 870334 | (EPA 537) | Perfluorotridecanoic acid | ND | ug/L | 0.0025 | 1 |
| 10/21/2015 | 10/27/2015 | 21:26 | 870334 | (EPA 537) | Perfluoroundecanoic acid | ND | ug/L | 0.0025 | 1 |
| 10/21/2015 | 10/27/2015 | 21:26 | 870334 | (EPA 537) | 13C-PFDA | 92 | % | | 1 |
| 10/21/2015 | 10/27/2015 | 21:26 | 870334 | (EPA 537) | 13C-PFHxA | 100 | % | | 1 |
| 10/21/2015 | 10/27/2015 | 21:26 | 870334 | (EPA 537) | 13C-PFOA | 110 | % | | 1 |
| 10/21/2015 | 10/27/2015 | 21:26 | 870334 | (EPA 537) | 13C-PFOS | 115 | % | | 1 |

Horsham Well # 17 (201508080032)

Sampled on 10/14/2015 0940

EPA 537 - Perfluorinated Alkyl Acids

| | | | | | | | | | |
|------------|------------|-------|--------|-----------|------------------------------|--------|------|--------|---|
| 10/21/2015 | 10/27/2015 | 21:46 | 870334 | (EPA 537) | Perfluorobutanesulfonic acid | 0.012 | ug/L | 0.0025 | 1 |
| 10/21/2015 | 10/27/2015 | 21:46 | 870334 | (EPA 537) | Perfluorodecanoic acid | ND | ug/L | 0.0025 | 1 |
| 10/21/2015 | 10/27/2015 | 21:46 | 870334 | (EPA 537) | Perfluorododecanoic acid | ND | ug/L | 0.0025 | 1 |
| 10/21/2015 | 10/27/2015 | 21:46 | 870334 | (EPA 537) | Perfluoroheptanoic acid | 0.0097 | ug/L | 0.0025 | 1 |
| 10/21/2015 | 10/27/2015 | 21:46 | 870334 | (EPA 537) | Perfluorohexanesulfonic acid | 0.061 | ug/L | 0.0025 | 1 |
| 10/21/2015 | 10/27/2015 | 21:46 | 870334 | (EPA 537) | Perfluorohexanoic acid | 0.022 | ug/L | 0.0025 | 1 |
| 10/21/2015 | 10/27/2015 | 21:46 | 870334 | (EPA 537) | Perfluorononanoic acid | 0.0026 | ug/L | 0.0025 | 1 |
| 10/21/2015 | 10/28/2015 | 15:38 | 870334 | (EPA 537) | Perfluorooctanesulfonic acid | 0.081 | ug/L | 0.012 | 5 |
| 10/21/2015 | 10/27/2015 | 21:46 | 870334 | (EPA 537) | Perfluorooctanoic acid | 0.026 | ug/L | 0.0025 | 1 |
| 10/21/2015 | 10/27/2015 | 21:46 | 870334 | (EPA 537) | Perfluorotetradecanoic acid | ND | ug/L | 0.0025 | 1 |
| 10/21/2015 | 10/27/2015 | 21:46 | 870334 | (EPA 537) | Perfluorotridecanoic acid | ND | ug/L | 0.0025 | 1 |
| 10/21/2015 | 10/27/2015 | 21:46 | 870334 | (EPA 537) | Perfluoroundecanoic acid | ND | ug/L | 0.0025 | 1 |
| 10/21/2015 | 10/27/2015 | 21:46 | 870334 | (EPA 537) | 13C-PFDA | 79 | % | | 1 |
| 10/21/2015 | 10/27/2015 | 21:46 | 870334 | (EPA 537) | 13C-PFHxA | 95 | % | | 1 |
| 10/21/2015 | 10/27/2015 | 21:46 | 870334 | (EPA 537) | 13C-PFOA | 116 | % | | 1 |

Rounding on totals after summation.
(c) - indicates calculated results



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Report: 547199

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Chuck Hertz
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Samples Received on:
10/20/2015 1141

| Prepared | Analyzed | QC Ref # | Method | Analyte | Result | Units | MRL | Dilution |
|------------|------------|----------|--------|-----------|----------|-------|-----|----------|
| 10/21/2015 | 10/27/2015 | 21:46 | 870334 | (EPA 537) | 13C-PFOS | 116 | % | 1 |

Horsham Well # 21 (201508080033)

Sampled on 10/14/2015 0915

EPA 537 - Perfluorinated Alkyl Acids

| | | | | | | | | | |
|------------|------------|-------|--------|-----------|------------------------------|--------|------|--------|---|
| 10/21/2015 | 10/27/2015 | 22:07 | 870334 | (EPA 537) | Perfluorobutanesulfonic acid | 0.0054 | ug/L | 0.0025 | 1 |
| 10/21/2015 | 10/27/2015 | 22:07 | 870334 | (EPA 537) | Perfluorodecanoic acid | ND | ug/L | 0.0025 | 1 |
| 10/21/2015 | 10/27/2015 | 22:07 | 870334 | (EPA 537) | Perfluorododecanoic acid | ND | ug/L | 0.0025 | 1 |
| 10/21/2015 | 10/27/2015 | 22:07 | 870334 | (EPA 537) | Perfluoroheptanoic acid | 0.0037 | ug/L | 0.0025 | 1 |
| 10/21/2015 | 10/27/2015 | 22:07 | 870334 | (EPA 537) | Perfluorohexanesulfonic acid | 0.0056 | ug/L | 0.0025 | 1 |
| 10/21/2015 | 10/27/2015 | 22:07 | 870334 | (EPA 537) | Perfluorohexanoic acid | 0.0059 | ug/L | 0.0025 | 1 |
| 10/21/2015 | 10/27/2015 | 22:07 | 870334 | (EPA 537) | Perfluorononanoic acid | ND | ug/L | 0.0025 | 1 |
| 10/21/2015 | 10/27/2015 | 22:07 | 870334 | (EPA 537) | Perfluorooctanesulfonic acid | 0.0066 | ug/L | 0.0025 | 1 |
| 10/21/2015 | 10/27/2015 | 22:07 | 870334 | (EPA 537) | Perfluorooctanoic acid | 0.012 | ug/L | 0.0025 | 1 |
| 10/21/2015 | 10/27/2015 | 22:07 | 870334 | (EPA 537) | Perfluorotetradecanoic acid | ND | ug/L | 0.0025 | 1 |
| 10/21/2015 | 10/27/2015 | 22:07 | 870334 | (EPA 537) | Perfluorotridecanoic acid | ND | ug/L | 0.0025 | 1 |
| 10/21/2015 | 10/27/2015 | 22:07 | 870334 | (EPA 537) | Perfluoroundecanoic acid | ND | ug/L | 0.0025 | 1 |
| 10/21/2015 | 10/27/2015 | 22:07 | 870334 | (EPA 537) | 13C-PFDA | 86 | % | | 1 |
| 10/21/2015 | 10/27/2015 | 22:07 | 870334 | (EPA 537) | 13C-PFHxA | 101 | % | | 1 |
| 10/21/2015 | 10/27/2015 | 22:07 | 870334 | (EPA 537) | 13C-PFOA | 112 | % | | 1 |
| 10/21/2015 | 10/27/2015 | 22:07 | 870334 | (EPA 537) | 13C-PFOS | 118 | % | | 1 |

Rounding on totals after summation.
(c) - indicates calculated results



Eaton Analytical

Laboratory
QC Summary: 547199

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Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

Aqua Pennsylvania, Inc.

QC Ref # 870334 - Perfluorinated Alkyl Acids

Analysis Date: 10/27/2015

| | |
|--------------|-------------------|
| 201508080031 | Horsham Well # 10 |
| 201508080032 | Horsham Well # 17 |
| 201508080032 | Horsham Well # 17 |
| 201508080033 | Horsham Well # 21 |

| |
|------------------|
| Analyzed by: 1CL |
| Analyzed by: 1CL |
| Analyzed by: 1CL |
| Analyzed by: 1CL |



Eaton Analytical

Laboratory QC
Report: 547199

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Aqua Pennsylvania, Inc.

| QC Type | Analyte | Native | Spiked | Recovered | Units | Yield (%) | Limits (%) | RPDLimit (%) | RPD% |
|---|---------------|--------|--------|-----------|-------|----------------------------------|------------|--------------|------|
| QC Ref# 870334 - Perfluorinated Alkyl Acids by EPA 537 | | | | | | Analysis Date: 10/27/2015 | | | |
| LCS1 | 13C-PFDA (S) | | | 85.4 | % | 85 | (70-130) | | |
| LCS1 | 13C-PFDA (S) | | | 85.4 | % | 85 | (70-130) | | |
| LCS2 | 13C-PFDA (S) | | | 87.2 | % | 87 | (70-130) | | |
| LCS2 | 13C-PFDA (S) | | | 87.2 | % | 87 | (70-130) | | |
| MBLK | 13C-PFDA (S) | | | 89.1 | % | 89 | (70-130) | | |
| MBLK | 13C-PFDA (S) | | | 89.1 | % | 89 | (70-130) | | |
| MRL_CHK | 13C-PFDA (S) | | | 87.5 | % | 88 | (70-130) | | |
| MRL_CHK | 13C-PFDA (S) | | | 87.5 | % | 88 | (70-130) | | |
| MS1_201510220149 | 13C-PFDA (S) | | | 88.8 | % | 89 | (70-130) | | |
| MS1_201510220149 | 13C-PFDA (S) | | | 88.8 | % | 89 | (70-130) | | |
| MSD1_201510220149 | 13C-PFDA (S) | | | 87.0 | % | 87 | (70-130) | | |
| MSD1_201510220149 | 13C-PFDA (S) | | | 87.0 | % | 87 | (70-130) | | |
| LCS1 | 13C-PFHxA (S) | | | 95.7 | % | 96 | (70-130) | | |
| LCS1 | 13C-PFHxA (S) | | | 95.7 | % | 96 | (70-130) | | |
| LCS2 | 13C-PFHxA (S) | | | 95.3 | % | 95 | (70-130) | | |
| LCS2 | 13C-PFHxA (S) | | | 95.3 | % | 95 | (70-130) | | |
| MBLK | 13C-PFHxA (S) | | | 94.2 | % | 94 | (70-130) | | |
| MBLK | 13C-PFHxA (S) | | | 94.2 | % | 94 | (70-130) | | |
| MRL_CHK | 13C-PFHxA (S) | | | 96.6 | % | 97 | (70-130) | | |
| MRL_CHK | 13C-PFHxA (S) | | | 96.6 | % | 97 | (70-130) | | |
| MS1_201510220149 | 13C-PFHxA (S) | | | 94.5 | % | 95 | (70-130) | | |
| MS1_201510220149 | 13C-PFHxA (S) | | | 94.5 | % | 95 | (70-130) | | |
| MSD1_201510220149 | 13C-PFHxA (S) | | | 96.6 | % | 97 | (70-130) | | |
| MSD1_201510220149 | 13C-PFHxA (S) | | | 96.6 | % | 97 | (70-130) | | |
| LCS1 | 13C-PFOA (I) | | | 118 | % | 118 | (50-150) | | |
| LCS1 | 13C-PFOA (I) | | | 118 | % | 118 | (50-150) | | |
| LCS2 | 13C-PFOA (I) | | | 118 | % | 118 | (50-150) | | |
| LCS2 | 13C-PFOA (I) | | | 118 | % | 118 | (50-150) | | |
| MBLK | 13C-PFOA (I) | | | 116 | % | 116 | (50-150) | | |
| MBLK | 13C-PFOA (I) | | | 116 | % | 116 | (50-150) | | |
| MRL_CHK | 13C-PFOA (I) | | | 114 | % | 114 | (50-150) | | |
| MRL_CHK | 13C-PFOA (I) | | | 114 | % | 114 | (50-150) | | |
| MS1_201510220149 | 13C-PFOA (I) | | | 120 | % | 120 | (50-150) | | |
| MS1_201510220149 | 13C-PFOA (I) | | | 120 | % | 120 | (50-150) | | |
| MSD1_201510220149 | 13C-PFOA (I) | | | 112 | % | 112 | (50-150) | | |
| MSD1_201510220149 | 13C-PFOA (I) | | | 112 | % | 112 | (50-150) | | |

Spike recovery is already corrected for native results.
Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.
Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.
RPD not calculated for LCS2 when different a concentration than LCS1 is used.
RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).
(S) - Indicates surrogate compound.
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1 800 566 LABS (1 800 566 5227)

Aqua Pennsylvania, Inc.

| QC Type | Analyte | Native | Spiked | Recovered | Units | Yield (%) | Limits (%) | RPDLimit (%) | RPD% |
|-------------------|------------------------------|--------|--------|-----------|-------|-----------|------------|--------------|------|
| LCS1 | 13C-PFOS (I) | | | 116 | % | 116 | (50-150) | | |
| LCS1 | 13C-PFOS (I) | | | 116 | % | 116 | (50-150) | | |
| LCS2 | 13C-PFOS (I) | | | 116 | % | 116 | (50-150) | | |
| LCS2 | 13C-PFOS (I) | | | 116 | % | 116 | (50-150) | | |
| MBLK | 13C-PFOS (I) | | | 116 | % | 116 | (50-150) | | |
| MBLK | 13C-PFOS (I) | | | 116 | % | 116 | (50-150) | | |
| MRL_CHK | 13C-PFOS (I) | | | 109 | % | 109 | (50-150) | | |
| MRL_CHK | 13C-PFOS (I) | | | 109 | % | 109 | (50-150) | | |
| MS1_201510220149 | 13C-PFOS (I) | | | 115 | % | 115 | (50-150) | | |
| MS1_201510220149 | 13C-PFOS (I) | | | 115 | % | 115 | (50-150) | | |
| MSD1_201510220149 | 13C-PFOS (I) | | | 110 | % | 110 | (50-150) | | |
| MSD1_201510220149 | 13C-PFOS (I) | | | 110 | % | 110 | (50-150) | | |
| LCS1 | Perfluorobutanesulfonic acid | | 0.022 | 0.0202 | ug/L | 91 | (70-130) | | |
| LCS1 | Perfluorobutanesulfonic acid | | 0.022 | 0.0202 | ug/L | 91 | (70-130) | | |
| LCS2 | Perfluorobutanesulfonic acid | | 0.022 | 0.0209 | ug/L | 94 | (70-130) | 30 | 3.4 |
| LCS2 | Perfluorobutanesulfonic acid | | 0.022 | 0.0209 | ug/L | 94 | (70-130) | 30 | 3.4 |
| MBLK | Perfluorobutanesulfonic acid | | | <0.00074 | ug/L | | | | |
| MBLK | Perfluorobutanesulfonic acid | | | <0.00074 | ug/L | | | | |
| MRL_CHK | Perfluorobutanesulfonic acid | | 0.0022 | 0.00223 | ug/L | 100 | (50-150) | | |
| MRL_CHK | Perfluorobutanesulfonic acid | | 0.0022 | 0.00223 | ug/L | 100 | (50-150) | | |
| MS1_201510220149 | Perfluorobutanesulfonic acid | ND | 0.022 | 0.0214 | ug/L | 93 | (70-130) | | |
| MS1_201510220149 | Perfluorobutanesulfonic acid | ND | 0.022 | 0.0214 | ug/L | 93 | (70-130) | | |
| MSD1_201510220149 | Perfluorobutanesulfonic acid | ND | 0.022 | 0.0212 | ug/L | 93 | (70-130) | 30 | 0.94 |
| MSD1_201510220149 | Perfluorobutanesulfonic acid | ND | 0.022 | 0.0212 | ug/L | 93 | (70-130) | 30 | 0.94 |
| LCS1 | Perfluorodecanoic acid | | 0.025 | 0.0214 | ug/L | 86 | (70-130) | | |
| LCS1 | Perfluorodecanoic acid | | 0.025 | 0.0214 | ug/L | 86 | (70-130) | | |
| LCS2 | Perfluorodecanoic acid | | 0.025 | 0.0212 | ug/L | 85 | (70-130) | 30 | 0.94 |
| LCS2 | Perfluorodecanoic acid | | 0.025 | 0.0212 | ug/L | 85 | (70-130) | 30 | 0.94 |
| MBLK | Perfluorodecanoic acid | | | <0.00083 | ug/L | | | | |
| MBLK | Perfluorodecanoic acid | | | <0.00083 | ug/L | | | | |
| MRL_CHK | Perfluorodecanoic acid | | 0.0025 | 0.00213 | ug/L | 85 | (50-150) | | |
| MRL_CHK | Perfluorodecanoic acid | | 0.0025 | 0.00213 | ug/L | 85 | (50-150) | | |
| MS1_201510220149 | Perfluorodecanoic acid | ND | 0.025 | 0.0209 | ug/L | 84 | (70-130) | | |
| MS1_201510220149 | Perfluorodecanoic acid | ND | 0.025 | 0.0209 | ug/L | 84 | (70-130) | | |
| MSD1_201510220149 | Perfluorodecanoic acid | ND | 0.025 | 0.0214 | ug/L | 85 | (70-130) | 30 | 2.4 |
| MSD1_201510220149 | Perfluorodecanoic acid | ND | 0.025 | 0.0214 | ug/L | 85 | (70-130) | 30 | 2.4 |
| LCS1 | Perfluorododecanoic acid | | 0.025 | 0.0220 | ug/L | 88 | (70-130) | | |
| LCS1 | Perfluorododecanoic acid | | 0.025 | 0.0220 | ug/L | 88 | (70-130) | | |

Spike recovery is already corrected for native results.

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Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.

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Aqua Pennsylvania, Inc.

| QC Type | Analyte | Native | Spiked | Recovered | Units | Yield (%) | Limits (%) | RPDLimit (%) | RPD% |
|-------------------|------------------------------|--------|--------|-----------|-------|-----------|------------|--------------|------|
| LCS2 | Perfluorododecanoic acid | | 0.025 | 0.0220 | ug/L | 88 | (70-130) | 30 | 0.0 |
| LCS2 | Perfluorododecanoic acid | | 0.025 | 0.0220 | ug/L | 88 | (70-130) | 30 | 0.0 |
| MBLK | Perfluorododecanoic acid | | | <0.00083 | ug/L | | | | |
| MBLK | Perfluorododecanoic acid | | | <0.00083 | ug/L | | | | |
| MRL_CHK | Perfluorododecanoic acid | | 0.0025 | 0.00216 | ug/L | 86 | (50-150) | | |
| MRL_CHK | Perfluorododecanoic acid | | 0.0025 | 0.00216 | ug/L | 86 | (50-150) | | |
| MS1_201510220149 | Perfluorododecanoic acid | ND | 0.025 | 0.0218 | ug/L | 87 | (70-130) | | |
| MS1_201510220149 | Perfluorododecanoic acid | ND | 0.025 | 0.0218 | ug/L | 87 | (70-130) | | |
| MSD1_201510220149 | Perfluorododecanoic acid | ND | 0.025 | 0.0228 | ug/L | 91 | (70-130) | 30 | 4.5 |
| MSD1_201510220149 | Perfluorododecanoic acid | ND | 0.025 | 0.0228 | ug/L | 91 | (70-130) | 30 | 4.5 |
| LCS1 | Perfluoroheptanoic acid | | 0.025 | 0.0225 | ug/L | 90 | (70-130) | | |
| LCS1 | Perfluoroheptanoic acid | | 0.025 | 0.0225 | ug/L | 90 | (70-130) | | |
| LCS2 | Perfluoroheptanoic acid | | 0.025 | 0.0227 | ug/L | 91 | (70-130) | 30 | 0.89 |
| LCS2 | Perfluoroheptanoic acid | | 0.025 | 0.0227 | ug/L | 91 | (70-130) | 30 | 0.89 |
| MBLK | Perfluoroheptanoic acid | | | <0.00083 | ug/L | | | | |
| MBLK | Perfluoroheptanoic acid | | | <0.00083 | ug/L | | | | |
| MRL_CHK | Perfluoroheptanoic acid | | 0.0025 | 0.00224 | ug/L | 90 | (50-150) | | |
| MRL_CHK | Perfluoroheptanoic acid | | 0.0025 | 0.00224 | ug/L | 90 | (50-150) | | |
| MS1_201510220149 | Perfluoroheptanoic acid | ND | 0.025 | 0.0234 | ug/L | 92 | (70-130) | | |
| MS1_201510220149 | Perfluoroheptanoic acid | ND | 0.025 | 0.0234 | ug/L | 92 | (70-130) | | |
| MSD1_201510220149 | Perfluoroheptanoic acid | ND | 0.025 | 0.0232 | ug/L | 91 | (70-130) | 30 | 0.86 |
| MSD1_201510220149 | Perfluoroheptanoic acid | ND | 0.025 | 0.0232 | ug/L | 91 | (70-130) | 30 | 0.86 |
| LCS1 | Perfluorohexanesulfonic acid | | 0.024 | 0.0207 | ug/L | 87 | (70-130) | | |
| LCS1 | Perfluorohexanesulfonic acid | | 0.024 | 0.0207 | ug/L | 87 | (70-130) | | |
| LCS2 | Perfluorohexanesulfonic acid | | 0.024 | 0.0213 | ug/L | 90 | (70-130) | 30 | 2.9 |
| LCS2 | Perfluorohexanesulfonic acid | | 0.024 | 0.0213 | ug/L | 90 | (70-130) | 30 | 2.9 |
| MBLK | Perfluorohexanesulfonic acid | | | <0.00079 | ug/L | | | | |
| MBLK | Perfluorohexanesulfonic acid | | | <0.00079 | ug/L | | | | |
| MRL_CHK | Perfluorohexanesulfonic acid | | 0.0024 | 0.00198 | ug/L | 84 | (50-150) | | |
| MRL_CHK | Perfluorohexanesulfonic acid | | 0.0024 | 0.00198 | ug/L | 84 | (50-150) | | |
| MS1_201510220149 | Perfluorohexanesulfonic acid | ND | 0.024 | 0.0227 | ug/L | 92 | (70-130) | | |
| MS1_201510220149 | Perfluorohexanesulfonic acid | ND | 0.024 | 0.0227 | ug/L | 92 | (70-130) | | |
| MSD1_201510220149 | Perfluorohexanesulfonic acid | ND | 0.024 | 0.0222 | ug/L | 90 | (70-130) | 30 | 2.2 |
| MSD1_201510220149 | Perfluorohexanesulfonic acid | ND | 0.024 | 0.0222 | ug/L | 90 | (70-130) | 30 | 2.2 |
| LCS1 | Perfluorohexanoic acid | | 0.025 | 0.0227 | ug/L | 91 | (70-130) | | |
| LCS1 | Perfluorohexanoic acid | | 0.025 | 0.0227 | ug/L | 91 | (70-130) | | |
| LCS2 | Perfluorohexanoic acid | | 0.025 | 0.0231 | ug/L | 92 | (70-130) | 30 | 1.8 |
| LCS2 | Perfluorohexanoic acid | | 0.025 | 0.0231 | ug/L | 92 | (70-130) | 30 | 1.8 |

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

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Table with 10 columns: QC Type, Analyte, Native, Spiked, Recovered, Units, Yield (%), Limits (%), RPDLimit (%), RPD%. Rows include various analytes like Perfluorohexanoic acid, Perfluorononanoic acid, and Perfluorooctanesulfonic acid with their respective test results.

Spike recovery is already corrected for native results. Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining. Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method. RPD not calculated for LCS2 when different a concentration than LCS1 is used. RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level). (S) - Indicates surrogate compound. (I) - Indicates internal standard compound.

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| QC Type | Analyte | Native | Spiked | Recovered | Units | Yield (%) | Limits (%) | RPDLimit (%) | RPD% |
|-------------------|-----------------------------|--------|--------|-----------|-------|-----------|------------|--------------|------|
| MRL_CHK | Perfluorooctanoic acid | | 0.0025 | 0.00302 | ug/L | 121 | (50-150) | | |
| MRL_CHK | Perfluorooctanoic acid | | 0.0025 | 0.00302 | ug/L | 121 | (50-150) | | |
| MS1_201510220149 | Perfluorooctanoic acid | ND | 0.025 | 0.0239 | ug/L | 89 | (70-130) | | |
| MS1_201510220149 | Perfluorooctanoic acid | ND | 0.025 | 0.0239 | ug/L | 89 | (70-130) | | |
| MSD1_201510220149 | Perfluorooctanoic acid | ND | 0.025 | 0.0256 | ug/L | 96 | (70-130) | 30 | 6.9 |
| MSD1_201510220149 | Perfluorooctanoic acid | ND | 0.025 | 0.0256 | ug/L | 96 | (70-130) | 30 | 6.9 |
| LCS1 | Perfluorotetradecanoic acid | | 0.025 | 0.0204 | ug/L | 82 | (70-130) | | |
| LCS1 | Perfluorotetradecanoic acid | | 0.025 | 0.0204 | ug/L | 82 | (70-130) | | |
| LCS2 | Perfluorotetradecanoic acid | | 0.025 | 0.0202 | ug/L | 81 | (70-130) | 30 | 0.99 |
| LCS2 | Perfluorotetradecanoic acid | | 0.025 | 0.0202 | ug/L | 81 | (70-130) | 30 | 0.99 |
| MBLK | Perfluorotetradecanoic acid | | | <0.00083 | ug/L | | | | |
| MBLK | Perfluorotetradecanoic acid | | | <0.00083 | ug/L | | | | |
| MRL_CHK | Perfluorotetradecanoic acid | | 0.0025 | 0.00211 | ug/L | 84 | (50-150) | | |
| MRL_CHK | Perfluorotetradecanoic acid | | 0.0025 | 0.00211 | ug/L | 84 | (50-150) | | |
| MS1_201510220149 | Perfluorotetradecanoic acid | ND | 0.025 | 0.0195 | ug/L | 78 | (70-130) | | |
| MS1_201510220149 | Perfluorotetradecanoic acid | ND | 0.025 | 0.0195 | ug/L | 78 | (70-130) | | |
| MSD1_201510220149 | Perfluorotetradecanoic acid | ND | 0.025 | 0.0195 | ug/L | 78 | (70-130) | 30 | 0.0 |
| MSD1_201510220149 | Perfluorotetradecanoic acid | ND | 0.025 | 0.0195 | ug/L | 78 | (70-130) | 30 | 0.0 |
| LCS1 | Perfluorotridecanoic acid | | 0.025 | 0.0206 | ug/L | 82 | (70-130) | | |
| LCS1 | Perfluorotridecanoic acid | | 0.025 | 0.0206 | ug/L | 82 | (70-130) | | |
| LCS2 | Perfluorotridecanoic acid | | 0.025 | 0.0205 | ug/L | 82 | (70-130) | 30 | 0.49 |
| LCS2 | Perfluorotridecanoic acid | | 0.025 | 0.0205 | ug/L | 82 | (70-130) | 30 | 0.49 |
| MBLK | Perfluorotridecanoic acid | | | <0.00083 | ug/L | | | | |
| MBLK | Perfluorotridecanoic acid | | | <0.00083 | ug/L | | | | |
| MRL_CHK | Perfluorotridecanoic acid | | 0.0025 | 0.00195 | ug/L | 78 | (50-150) | | |
| MRL_CHK | Perfluorotridecanoic acid | | 0.0025 | 0.00195 | ug/L | 78 | (50-150) | | |
| MS1_201510220149 | Perfluorotridecanoic acid | ND | 0.025 | 0.0204 | ug/L | 81 | (70-130) | | |
| MS1_201510220149 | Perfluorotridecanoic acid | ND | 0.025 | 0.0204 | ug/L | 81 | (70-130) | | |
| MSD1_201510220149 | Perfluorotridecanoic acid | ND | 0.025 | 0.0200 | ug/L | 80 | (70-130) | 30 | 2.0 |
| MSD1_201510220149 | Perfluorotridecanoic acid | ND | 0.025 | 0.0200 | ug/L | 80 | (70-130) | 30 | 2.0 |
| LCS1 | Perfluoroundecanoic acid | | 0.025 | 0.0211 | ug/L | 84 | (70-130) | | |
| LCS1 | Perfluoroundecanoic acid | | 0.025 | 0.0211 | ug/L | 84 | (70-130) | | |
| LCS2 | Perfluoroundecanoic acid | | 0.025 | 0.0210 | ug/L | 84 | (70-130) | 30 | 0.48 |
| LCS2 | Perfluoroundecanoic acid | | 0.025 | 0.0210 | ug/L | 84 | (70-130) | 30 | 0.48 |
| MBLK | Perfluoroundecanoic acid | | | <0.00083 | ug/L | | | | |
| MBLK | Perfluoroundecanoic acid | | | <0.00083 | ug/L | | | | |
| MRL_CHK | Perfluoroundecanoic acid | | 0.0025 | 0.00207 | ug/L | 83 | (50-150) | | |
| MRL_CHK | Perfluoroundecanoic acid | | 0.0025 | 0.00207 | ug/L | 83 | (50-150) | | |

Spike recovery is already corrected for native results.

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| QC Type | Analyte | Native | Spiked | Recovered | Units | Yield (%) | Limits (%) | RPDLimit (%) | RPD% |
|-------------------|--------------------------|--------|--------|-----------|-------|-----------|------------|--------------|------|
| MS1_201510220149 | Perfluoroundecanoic acid | ND | 0.025 | 0.0212 | ug/L | 85 | (70-130) | | |
| MS1_201510220149 | Perfluoroundecanoic acid | ND | 0.025 | 0.0212 | ug/L | 85 | (70-130) | | |
| MSD1_201510220149 | Perfluoroundecanoic acid | ND | 0.025 | 0.0216 | ug/L | 86 | (70-130) | 30 | 1.9 |
| MSD1_201510220149 | Perfluoroundecanoic acid | ND | 0.025 | 0.0216 | ug/L | 86 | (70-130) | 30 | 1.9 |

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.