

Serialized: 06/07/2016 02:07am QC36

RICK ZEITLER
WARRINGTON TOWNSHIP WATER & SEWER
852 EASTON ROAD

WARRINGTON, PA 18976

Regarding:

WARRINGTON TOWNSHIP WATER & SEWER
852 EASTON ROAD
WARRINGTON, PA 18976

PROJECT ID:

W00674 BRISTOL EPA

LABORATORY REPORT NUMBER:

L6265293

A handwritten signature in black ink, reading "Raphael C. Fratti".

Authorized by: Raphael C. Fratti, Laboratory Director

QCL Accreditations: Southampton Div: EPA ID PA00018; NELAP ID's: PA 09-00131, NJ PA166, NY 11223
State ID's: CT PH-0768, DE PA-018, MD 206, SC 89021001; FDA Reg. #: 2515238
Delaware Division: State ID's: DE 00011, MD 138
Vineland Division: State ID: NJ 06005; Reading Div: State ID: PA 06-03543
Wind Gap Division: State ID's: PA 48-01334, NJ PA001
E. Rutherford Division: State ID: NJ 02015

RICK ZEITLER
WARRINGTON TOWNSHIP WATER & SEWER
852 EASTON ROAD
WARRINGTON, PA 18976

Regarding:
RICK ZEITLER
WARRINGTON TOWNSHIP WATER & SEWER
852 EASTON ROAD
WARRINGTON, PA 18976

Account No: W00674, WARRINGTON TWP WATER & SEWER **P.O. No:** **Inv. No:** EOM-06/16
Project No: W00674 BRISTOL EPA, WARRINGTON TOWNSHIP WATER & SEWER **PWSID No:** 1090070

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L6265293-1	WELL 4 EP103 TAP	05/24/16 12:50pm NA C	Suzanne E. Hughes, Eurofins QC, Inc.
	Received Date/Time/Temp 05/24/16 02:45pm 6.0 C	Iced (Y/N): Y	

Parameter	Result	Qual	Units	Method	DF	RL	Test Date, Time, Analyst
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SUBCONTRACT

PFOA ATTACHED

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L6265293-2	WELL 3 EP102 TAP	05/24/16 01:05pm NA C	Suzanne E. Hughes, Eurofins QC, Inc.
	Received Date/Time/Temp 05/24/16 02:45pm 6.0 C	Iced (Y/N): Y	

Parameter	Result	Qual	Units	Method	DF	RL	Test Date, Time, Analyst
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SUBCONTRACT

PFOA ATTACHED

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L6265293-3	WELL 5 SINK	05/24/16 01:15pm NA C	Suzanne E. Hughes, Eurofins QC, Inc.
	Received Date/Time/Temp 05/24/16 02:45pm 6.0 C	Iced (Y/N): Y	

Parameter	Result	Qual	Units	Method	DF	RL	Test Date, Time, Analyst
------------------	---------------	-------------	--------------	---------------	-----------	-----------	---------------------------------

SUBCONTRACT

PFOA ATTACHED

Account No: W00674, WARRINGTON TWP WATER & SEWER

P.O. No:

Inv. No: EOM-06/16

Project No: W00674 BRISTOL EPA, WARRINGTON TOWNSHIP WATER & SEWER

PWSID No: 1090070

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L6265293-4	WELL 11 SINK	05/24/16 10:27am NA C	Suzanne E. Hughes, Eurofins QC, Inc.
Received Date/Time/Temp 05/24/16 02:45pm 6.0 C		Iced (Y/N): Y	

Parameter	Result	Qual	Units	Method	DF	RL	Test Date, Time, Analyst
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SUBCONTRACT

PFOA ATTACHED

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L6265293-5	WELL 9 TAP	05/24/16 01:40pm NA C	Suzanne E. Hughes, Eurofins QC, Inc.
Received Date/Time/Temp 05/24/16 02:45pm 6.0 C		Iced (Y/N): Y	

Parameter	Result	Qual	Units	Method	DF	RL	Test Date, Time, Analyst
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SUBCONTRACT

PFOA ATTACHED

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L6265293-6	WELL 8 TAP	05/24/16 01:50pm NA C	Suzanne E. Hughes, Eurofins QC, Inc.
Received Date/Time/Temp 05/24/16 02:45pm 6.0 C		Iced (Y/N): Y	

Parameter	Result	Qual	Units	Method	DF	RL	Test Date, Time, Analyst
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SUBCONTRACT

PFOA ATTACHED

Sample ID	Sample Description	Samp. Date/Time/Temp	Sampled by
L6265293-7	WELL 4 FB	05/24/16 12:50pm NA C	Suzanne E. Hughes, Eurofins QC, Inc.
Received Date/Time/Temp 05/24/16 02:45pm 6.0 C		Iced (Y/N): Y	

Parameter	Result	Qual	Units	Method	DF	RL	Test Date, Time, Analyst
-----------	--------	------	-------	--------	----	----	--------------------------

SUBCONTRACT

PFOA ATTACHED

Account No:W00674, WARRINGTON TWP WATER & SEWER P.O. No: Inv. No: EOM-06/16
Project No: W00674 BRISTOL EPA, WARRINGTON TOWNSHIP WATER & SEWER PWSID No: 1090070

Sample ID Sample Description Samp. Date/Time/Temp Sampled by
L6265293-8 WELL 4 TB 05/24/16 12:50pm NA C Suzanne E. Hughes, Eurofins QC, Inc.
Received Date/Time/Temp 05/24/16 02:45pm 6.0 C Iced (Y/N): Y

Parameter	Result	Qual	Units	Method	DF	RL	Test Date, Time, Analyst
-----------	--------	------	-------	--------	----	----	--------------------------

SUBCONTRACT

PFOA ATTACHED



DEFINITIONS

Eurofins OC, Inc. (EOC)

The following terms or abbreviations are used in this report:

MPN	Most probable number	PL	Customer-specific limit
CFU	Colony forming unit	DF	Dilution Factor (For Microbiology, DF = volume of sample tested)
POS	Positive / Present	QUAL	Qualifier (Q)
NEG	Negative / Absent	NTU	Nephelometric turbidity units
PRES	Presumptive	RL	Laboratory reporting limit or Limit of Quantitation (LOQ)
MF	Membrane Filtration	MCL	EPA recommended "Maximum Contaminant Level"
TNTC	Too numerous to count	MDL	Method Detection Limit
DRY	The result was reported on a dry weight basis.	ND	Analyte concentration not detected greater than the RL / MDL

TIC	Tentatively Identified Compounds (Library Search Compounds); concentrations are estimated values only.
ppm (mg/l)	Parts per million: equivalent to 1 milligram per kilogram (mg/Kg) for solids or one milligram per liter (mg/L) for aqueous samples.
ppb (ug/L)	Parts per billion: equivalent to 1 microgram per kilogram (ug/Kg) for solids or one microgram per liter (ug/L) for aqueous samples.
<	Less than: In conjunction with a numerical value, indicates a concentration less than RL / MDL.
>	Greater than: In conjunction with a numerical value, indicates a concentration greater than RL / MDL.

Data Qualifiers (EPA CLP Convention)

J	Estimated value \geq MDL but < RL.	E	Metals: Estimated value due to presence of interference
B	Analyte was detected in the method blank	E	Organics: Concentration exceeds calibration range.
U	Analyte not detected above RL or MDL, when MDL reported.	E	Microbiology: estimated CFU count
N	Presumptive evidence of compound in library search	M	Metals: Duplicate precision for an element outside control limit
P1 or P	Column precision criteria not met, report lower value	N	Metals: Spike recovery for an element outside control limits
P2	Column precision criteria not met, report higher value	C	Result confirmed by reanalysis
		Q	Defined in report or case narrative or data package
T	Temperature receipt exceedance, refer to Sample Comments/ Results Qualifiers section.	V	Analyte concentration >100% between columns; reporting limit elevated

Warranties, Terms, and Conditions

- Unless otherwise specified in the Parameter field, analyses (excluding "Field Parameters") were performed at the EQC Southampton facility (1205 Industrial Boulevard, Southampton, PA 18966). Pharmaceutical testing is performed the EQC facility in Horsham (702 Electronic Drive, Horsham, PA 19044).
- The test results meet all TNI or other applicable regulatory agency requirements, including holding times and preservation, unless otherwise indicated.
- The report shall not be reproduced, except in full, without the written consent of the laboratory.
- All samples are collected as "grab" samples unless otherwise identified.
- The reported results relate only to the sample as tested. EQC is not responsible for sample integrity unless sampling has been performed by a member of our staff.
- EQC is not responsible for sampling and/or testing omissions. Note that regulatory authorities may assess substantial fines for testing omissions. Please track your sample collection schedules and results on a regular basis (e.g. weekly, monthly, or quarterly) to ensure compliance. EQC's internet program "LIVE ACCESS" will provide you with real-time access to collection dates and testing results. Please contact Customer Service for further information.
- The following personnel or their deputies have approved the results of the tests performed by EQC: Nicki Smith (Environmental Chemistry), Amanda Berd (Pharmaceutical), Sue Abbott (EQC Delaware).

EOC Accreditations

Southampton	EPA ID: PA00018 NELAP IDs: PA 09-00131; NJ PA166; NY 11223 State IDs: CT PH-0768; DE PA-018; MD 206 FDA Reg #: 2515238	Eurofins, Lancaster: Lab IDs: PA 36-00037 NJ: PA011 NY: 10670 MD: 100
Delaware	State IDs: DE 00011; MD 138	Reading State ID: PA 06-03543
Wind Gap	State IDs: PA 48-01334; NJ PA001	Vineland State ID: NJ 06005
East Rutherford	State ID: NJ 02015	



UCMR3: Safe Drinking Water Accession and Review System (SDWARS)

Logged in as NORLAKELAB

Inventory/Schedule Report

PWS: PA1090070 / Warrington Township Water & Sewer Department

Facility ID	Facility Name	Facility Type	Water Type	Sample Point ID	Sample Point Name	Sample Point Type	Monitoring Requirement	SE1	SE2	SE3	SE4
00001	Distribution System - SW	DS	SW	009	DSMRT for NWWA	MR	AM	Nov. 2014	Feb. 2015	May. 2015	Aug. 2015
00101	Wells 1, 2 & 8	SS	GW	101	Wells 1, 2 & 6 EP	EP	AM	Nov. 2014	May. 2015		
00102	Well 3	SS	GW	102	Well 3 EP	EP	AM	Nov. 2014	May. 2015		
00103	Well 4	SS	GW	103	Well 4 EP	EP	AM	Nov. 2014	May. 2015		
00104	Well 5	SS	GW	104	Well 5 EP	EP	AM	Nov. 2014	May. 2015		
00105	Well 8	SS	GW	105	Well 8 EP	EP	AM	Nov. 2014	May. 2015		
00106	Well 9	SS	GW	106	Well 9 EP	EP	AM	Nov. 2014	May. 2015		
00107	Well 11	SS	GW	107	Well 11 EP	EP	AM	Nov. 2014	May. 2015		
00108	NWWA Intertie	CC	SW	108	NWWA Stump Road	EP	AM	Nov. 2014	Feb. 2015	May. 2015	Aug. 2015
99001	Distribution System - GW	DS	GW	007	DSMRT for Wells	MR	AM	Nov. 2014	May. 2015		

Last updated on August 14, 2013.

URL: [https://cdx.epa.gov/SSL/UCMR3/Lab/PwsSchedule.aspx?pwsId=PA1090070&pws=PA1090070&state=\(SS-3320\)](https://cdx.epa.gov/SSL/UCMR3/Lab/PwsSchedule.aspx?pwsId=PA1090070&pws=PA1090070&state=(SS-3320))

CDX Help Desk: (866) 950-1993 | (570) 494-5500 for callers from Puerto Rico and Guam

Eaton Analytical

Kit Order for QC Laboratories

Debbie.L.Frank is your Eurofins Eaton Analytical Service Manager

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
(626) 386-1100 FAX (626) 386-1101

Note: Sampler Please return this paper with your samples

Kit #: 138523



Created By: Debbie.L.Frank - [DEB]

Deliver By: 05/23/2016

STG: Bottle Orders

Ice Type: W

Pre Registered

Client ID: QCLABSHAMPTONPA
Project Code: SUBCONTRACT Bottle Orders
Group Name: Warrington UCMR3 537
PO#JOB#:

Ship Sample Kits to
QC Laboratories
1205 Industrial Blvd.
P.O. Box 514
Southampton, PA 18966

Attn: Ron Neu
Phone: 215.355.3900
Fax: 215.355.7231

Send Report to
QC Laboratories
1205 Industrial Blvd.
P.O. Box 514
Southampton, PA 18966

Attn: Nicki Smith - South Hampton-PA
Phone: 215.355.3900x3360
Fax: 215.355.7231

Billing Address
QC Laboratories
1205 Industrial Blvd.
P.O. Box 514
Southampton, PA 18966

Attn: Nicki Smith - South Hampton-PA
Phone: 215.355.3900x3360
Fax: 215.355.7231

# of Sample Tests	Bottle Qty - Type { preservative information }	UN DOT #
6 @UCMR3 537	3 - 275 ml polypro w polypro cap [1.4 g Trisma]	
1 @UCMR3 537 TB	1 - 275 ml polypro w polypro cap [1.4g Trisma + H2O]	
1 @UCMR3 537 FB	1 - 275 ml polypro w polypro cap [no preservative]	

Comments

RUSH Kit billable

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

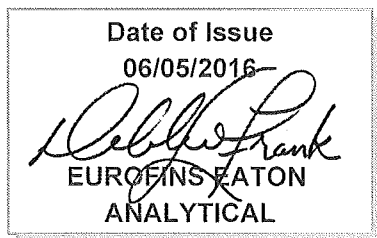


AT-1807

Laboratory Report

for

QC Laboratories
1205 Industrial Blvd.
P.O. Box 514
Southampton, PA 18966
Attention: Nicki Smith - South Hampton-PA
Fax: 215.355.7231



DEB: Debbie.L.Frank
Project Manager



Report: 591356
Project: SUBCONTRACT
Group: Warrington UCMR3 537

* 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	CA00006-2016
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	Puerto Rico	Certified
Guam	16-003r	Rhode Island	LAO00326
Hawaii	Certified	South Carolina	87016
Idaho	Certified	South Dakota	Certified
Illinois *	200033	Tennessee	TN02839
Indiana	C-CA-01	Texas *	T104704230-15-9
Kansas *	E-10268	Utah *	CA000062016-10
Kentucky	90107	Vermont	VT0114
Louisiana *	LA16003	Virginia *	460260
Maine	CA0006	Washington	C838
Maryland	224	-----	-----
Commonwealth of Northern Marianas Is.	MP0004	-----	-----
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-NH ₃ 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 HCO ₃	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 CO ₃	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-CLO ₂ D	x		x
Chlorine -Total/Free/ Combined Residual	SM 4500-Cl 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/DBCP 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-SiO ₂ C	x	x	
Sulfide	SM 4500-S ⁻ 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>

Version 001 Issued: 09/04/2015



Eaton Analytical

Acknowledgement of Samples Received

Addr: **QC Laboratories**
1205 Industrial Blvd.
P.O. Box 514
Southampton, PA 18966

Attn: Nicki Smith - South Hampton-PA
Phone: 215.355.3900x3360

Client ID: QCLABSHAMPTONPA
Folder #: 591356
Project: SUBCONTRACT
Sample Group: Warrington UCMR3 537

Project Manager: Debbie.L.Frank
Phone: (626) 386-1149

The following samples were received from you on **May 26, 2016 at 1245**. 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>201605200077</u>	EP013 Well 4	05/24/2016 1250
	@UCMR3 537	
<u>201605200076</u>	EP102 Well 3	05/24/2016 1305
	@UCMR3 537	
<u>201605200078</u>	EP104 Well 5	05/24/2016 1315
	@UCMR3 537	
<u>201605200081</u>	EP107 Well 11	05/24/2016 1027
	@UCMR3 537	
<u>201605200080</u>	EP106 Well 9	05/24/2016 1340
	@UCMR3 537	
<u>201605200079</u>	EP105 Well 8	05/24/2016 1350
	@UCMR3 537	
<u>201605200075</u>	Field Blank - UCMR3 Mod	05/24/2016 1350
	@UCMR3 537 FB	

Test Description

@UCMR3 537 -- UCMR3 537

@UCMR3 537 FB -- UCMR3 537

EUROFINS QC, INC.
1205 Industrial Blvd.
Southampton, PA 18966-0514
Contact: Nicki Smith x3360
Phone: 215-355-3900
FAX: 215-355-7231

Bill to:
P.O. Box 514
Southampton, PA 18966-0514

EUROFINS QC, INC.
SUBCONTRACT CHAIN OF CUSTODY
May 24 2016, 04:37 pm



591356

Sample ID	Number of Containers										Sampled Date and Time	Tier
L6265293-1 WELL 4 EP103 TAP	Total	H2SO4	HCL	AscAc	HNO3	NaOH	ZnAc	Unpre	Bact	NaThio	Other	
COMM: UCHR EPA 537 PFC 14 COMPOUNDS TO BE SUBBED TO MONROVIA												
06/05/16 WATER												
L6265293-2 WELL 3 EP102 TAP	Total	H2SO4	HCL	AscAc	HNO3	NaOH	ZnAc	Unpre	Bact	NaThio	Other	
06/05/16 WATER												
L6265293-3 WELL 5 SINK	Total	H2SO4	HCL	AscAc	HNO3	NaOH	ZnAc	Unpre	Bact	NaThio	Other	
06/05/16 WATER												
L6265293-4 WELL 11 SINK	Total	H2SO4	HCL	AscAc	HNO3	NaOH	ZnAc	Unpre	Bact	NaThio	Other	
06/05/16 WATER												

Package Type: _____

FINAL REPORT DUE: _____

Relinquished By	Date	Time
<i>Kelly</i>	5/25/16	11030

Received By	Date	Time
<i>Jedrick</i>	5/25/16	1630
<i>PHU BBA-MON</i>	5-26-16	12:45

Comments:

5.4 °C

COC SEAL
received intact

Bill to:
P.O.Box 514
Southampton, PA 18966-0514

EUROFINS QC, INC.
SUBCONTRACT CHAIN OF CUSTODY
May 24 2016, 04:37 pm

[illegible]

Package Type: _____

FINAL REPORT DUE: _____

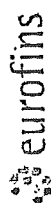
[illegible]

Received By	Date	Time
Paul	5/25/16	1630
and GEA-MOBI	5-26-16	17:45

Comments:

5.4c

COC SEAL
received intact



Eaton Analytical

INTERNAL CHAIN OF CUSTODY RECORD

COMPANY NAME / EEA CLIENT CODE:	PROJECT CODE:
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SAMPLE TEMP. RECEIVED:

IR Gun ID = 4644 (Observation = 58 °C) (Corr. Factor = -4 °C) (Final = 54 °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: >0, ≤ 6°C, not frozen (NELAP) (if received after 24 hrs of sample collection)
- 2) Microbiology, Distribution: < 10°C, not frozen (can be ≥ 10°C if received on ice the same day as sample collection, within 8 hours)
- 3) Microbiology, Surface Water: < 10°C (if received after 2 hours of sample collection)

If out of temperature range for both Chemistry and Microbiology samples and temperature does not confirm, then measure the temperature of each quadrant and record each temperature of the quadrants

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)

≤ 10°C if received within 48 hours of sample collection (not the same business day); ≤ 6°C if received after 48 hours of sample collection. Measure temperature for each method above.

5) LT2: Giardia /Cryptosporidium: <20 °C, not frozen (received after 8 hours of sample collection)

E. Coli: < 10°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)

6) Dioxin (1613 or 2,3,7,8 TCDD): must be between 0-4 °C, not frozen (if received after 24 hrs of sample collection)

Note: If samples are out of temperature range, let the AS/As know. AS/As will determine whether to proceed with analysis or not.

RECEIVED BY: <u>MAV</u>	SIGNATURE: <u>MAV</u>	COMPANY/TITLE: Eurofins Eaton Analytical	DATE: 5-26-16	TIME: 12:45
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CCU received in _____



Eaton Analytical

750 Royal Oaks Drive, Suite 100
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Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

Laboratory Comments
Report: 591356

QC Laboratories
Nicki Smith - South Hampton-PA
1205 Industrial Blvd.
P.O. Box 514
Southampton, PA 18966



Eaton Analytical

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Laboratory Data
Report: 591356

QC Laboratories

Nicki Smith - South Hampton-PA
1205 Industrial Blvd.
P.O. Box 514
Southampton, PA 18966

Samples Received on:
05/26/2016 1245

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MDL	MRL	Dilution	
Field Blank - UCMR3 Mod (201605200075)					Sampled on 05/24/2016 1350					
EPA 537 - UCMR3 537										
5/27/2016	06/01/2016	09:29	913903	(EPA 537)	Perfluoro octanesulfonic acid - PFOS	ND	ug/L	0.0023	0.04	1
5/27/2016	06/01/2016	09:29	913903	(EPA 537)	Perfluoro-1-butanefulfonic acid -PFBS	ND	ug/L	0.0018	0.09	1
5/27/2016	06/01/2016	09:29	913903	(EPA 537)	Perfluoro-1-hexanesulfonic acid - PFHxS	ND	ug/L	0.0020	0.03	1
5/27/2016	06/01/2016	09:29	913903	(EPA 537)	Perfluoroheptanoic acid - PFHpA	ND	ug/L	0.0031	0.01	1
5/27/2016	06/01/2016	09:29	913903	(EPA 537)	Perfluoro-n-nonanoic acid -PFNA	ND	ug/L	0.0022	0.02	1
5/27/2016	06/01/2016	09:29	913903	(EPA 537)	Perfluorooctanoic acid - PFOA	ND	ug/L	0.0022	0.02	1
5/27/2016	06/01/2016	09:29	913903	(EPA 537)	13C-PFDA - Surr#2	126	%			1
5/27/2016	06/01/2016	09:29	913903	(EPA 537)	13C-PFHxA - Surr#1	92	%			1
5/27/2016	06/01/2016	09:29	913903	(EPA 537)	13C-PFOA- IS#1	114	%			1
5/27/2016	06/01/2016	09:29	913903	(EPA 537)	13C-PFOS- IS#2	108	%			1
EP102 Well 3 (201605200076)					Sampled on 05/24/2016 1305					
EPA 537 - UCMR3 537										
5/27/2016	06/01/2016	09:08	913903	(EPA 537)	Perfluoro octanesulfonic acid - PFOS	0.034J	ug/L	0.0023	0.04	1
5/27/2016	06/01/2016	09:08	913903	(EPA 537)	Perfluoro-1-butanefulfonic acid -PFBS	0.0092J	ug/L	0.0018	0.09	1
5/27/2016	06/01/2016	09:08	913903	(EPA 537)	Perfluoro-1-hexanesulfonic acid - PFHxS	0.021J	ug/L	0.0020	0.03	1
5/27/2016	06/01/2016	09:08	913903	(EPA 537)	Perfluoroheptanoic acid - PFHpA	0.0058J	ug/L	0.0031	0.01	1
5/27/2016	06/01/2016	09:08	913903	(EPA 537)	Perfluoro-n-nonanoic acid -PFNA	ND	ug/L	0.0022	0.02	1
5/27/2016	06/01/2016	09:08	913903	(EPA 537)	Perfluorooctanoic acid - PFOA	0.022	ug/L	0.0022	0.02	1
5/27/2016	06/01/2016	09:08	913903	(EPA 537)	13C-PFDA - Surr#2	91	%			1
5/27/2016	06/01/2016	09:08	913903	(EPA 537)	13C-PFHxA - Surr#1	80	%			1
5/27/2016	06/01/2016	09:08	913903	(EPA 537)	13C-PFOA- IS#1	113	%			1
5/27/2016	06/01/2016	09:08	913903	(EPA 537)	13C-PFOS- IS#2	113	%			1
EP013 Well 4 (201605200077)					Sampled on 05/24/2016 1250					
EPA 537 - UCMR3 537										
5/27/2016	06/01/2016	09:49	913903	(EPA 537)	Perfluoro octanesulfonic acid - PFOS	0.016J	ug/L	0.0023	0.04	1
5/27/2016	06/01/2016	09:49	913903	(EPA 537)	Perfluoro-1-butanefulfonic acid -PFBS	0.0050J	ug/L	0.0018	0.09	1
5/27/2016	06/01/2016	09:49	913903	(EPA 537)	Perfluoro-1-hexanesulfonic acid - PFHxS	0.0071J	ug/L	0.0020	0.03	1
5/27/2016	06/01/2016	09:49	913903	(EPA 537)	Perfluoroheptanoic acid - PFHpA	0.0043J	ug/L	0.0031	0.01	1

Rounding on totals after summation.

(c) - Indicates calculated results.

ND - Analyte was not detected at the calculated MDL.

J - The analyte was either detected at or greater than the MDL and less than the MRL, or did not meet any one of the required QC criteria.



Eaton Analytical

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Laboratory Data
Report: 591356

QC Laboratories

Nicki Smith - South Hampton-PA
1205 Industrial Blvd.
P.O. Box 514
Southampton, PA 18966

Samples Received on:
05/26/2016 1245

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MDL	MRL	Dilution
5/27/2016	06/01/2016 09:49	913903	(EPA 537)	Perfluoro-n-nonanoic acid -PFNA	0.0022J	ug/L	0.0022	0.02	1
5/27/2016	06/01/2016 09:49	913903	(EPA 537)	Perfluorooctanoic acid - PFOA	0.014J	ug/L	0.0022	0.02	1
5/27/2016	06/01/2016 09:49	913903	(EPA 537)	13C-PFDA - Surr#2	96	%			1
5/27/2016	06/01/2016 09:49	913903	(EPA 537)	13C-PFHxA - Surr#1	86	%			1
5/27/2016	06/01/2016 09:49	913903	(EPA 537)	13C-PFOA- IS#1	107	%			1
5/27/2016	06/01/2016 09:49	913903	(EPA 537)	13C-PFOS- IS#2	107	%			1

EP104 Well 5 (201605200078)**Sampled on 05/24/2016 1315****EPA 537 - UCMR3 537**

5/27/2016	06/01/2016 10:10	913903	(EPA 537)	Perfluoro octanesulfonic acid - PFOS	0.010J	ug/L	0.0023	0.04	1
5/27/2016	06/01/2016 10:10	913903	(EPA 537)	Perfluoro-1-butanefulfonic acid -PFBS	0.0044J	ug/L	0.0018	0.09	1
5/27/2016	06/01/2016 10:10	913903	(EPA 537)	Perfluoro-1-hexanesulfonic acid - PFHxS	0.0033J	ug/L	0.0020	0.03	1
5/27/2016	06/01/2016 10:10	913903	(EPA 537)	Perfluoroheptanoic acid - PFHpA	ND	ug/L	0.0031	0.01	1
5/27/2016	06/01/2016 10:10	913903	(EPA 537)	Perfluoro-n-nonanoic acid -PFNA	ND	ug/L	0.0022	0.02	1
5/27/2016	06/01/2016 10:10	913903	(EPA 537)	Perfluorooctanoic acid - PFOA	0.0096J	ug/L	0.0022	0.02	1
5/27/2016	06/01/2016 10:10	913903	(EPA 537)	13C-PFDA - Surr#2	101	%			1
5/27/2016	06/01/2016 10:10	913903	(EPA 537)	13C-PFHxA - Surr#1	84	%			1
5/27/2016	06/01/2016 10:10	913903	(EPA 537)	13C-PFOA- IS#1	111	%			1
5/27/2016	06/01/2016 10:10	913903	(EPA 537)	13C-PFOS- IS#2	110	%			1

EP105 Well 8 (201605200079)**Sampled on 05/24/2016 1350****EPA 537 - UCMR3 537**

5/27/2016	06/01/2016 10:30	913903	(EPA 537)	Perfluoro octanesulfonic acid - PFOS	0.011J	ug/L	0.0023	0.04	1
5/27/2016	06/01/2016 10:30	913903	(EPA 537)	Perfluoro-1-butanefulfonic acid -PFBS	0.0046J	ug/L	0.0018	0.09	1
5/27/2016	06/01/2016 10:30	913903	(EPA 537)	Perfluoro-1-hexanesulfonic acid - PFHxS	0.0066J	ug/L	0.0020	0.03	1
5/27/2016	06/01/2016 10:30	913903	(EPA 537)	Perfluoroheptanoic acid - PFHpA	0.0031J	ug/L	0.0031	0.01	1
5/27/2016	06/01/2016 10:30	913903	(EPA 537)	Perfluoro-n-nonanoic acid -PFNA	ND	ug/L	0.0022	0.02	1
5/27/2016	06/01/2016 10:30	913903	(EPA 537)	Perfluorooctanoic acid - PFOA	0.0099J	ug/L	0.0022	0.02	1
5/27/2016	06/01/2016 10:30	913903	(EPA 537)	13C-PFDA - Surr#2	105	%			1
5/27/2016	06/01/2016 10:30	913903	(EPA 537)	13C-PFHxA - Surr#1	84	%			1
5/27/2016	06/01/2016 10:30	913903	(EPA 537)	13C-PFOA- IS#1	107	%			1
5/27/2016	06/01/2016 10:30	913903	(EPA 537)	13C-PFOS- IS#2	108	%			1

EP106 Well 9 (201605200080)**Sampled on 05/24/2016 1340**

Rounding on totals after summation.

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ND - Analyte was not detected at the calculated MDL.

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Laboratory Data
Report: 591356

QC Laboratories

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Southampton, PA 18966

Samples Received on:
05/26/2016 1245

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MDL	MRL	Dilution	
EPA 537 - UCMR3 537										
5/27/2016	06/01/2016	10:51	913903	(EPA 537)	Perfluoro octanesulfonic acid - PFOS	0.021J	ug/L	0.0023	0.04	1
5/27/2016	06/01/2016	10:51	913903	(EPA 537)	Perfluoro-1-butananesulfonic acid -PFBS	0.0049J	ug/L	0.0018	0.09	1
5/27/2016	06/01/2016	10:51	913903	(EPA 537)	Perfluoro-1-hexanesulfonic acid - PFHxS	0.012J	ug/L	0.0020	0.03	1
5/27/2016	06/01/2016	10:51	913903	(EPA 537)	Perfluoroheptanoic acid - PFHpA	ND	ug/L	0.0031	0.01	1
5/27/2016	06/01/2016	10:51	913903	(EPA 537)	Perfluoro-n-nonanoic acid -PFNA	ND	ug/L	0.0022	0.02	1
5/27/2016	06/01/2016	10:51	913903	(EPA 537)	Perfluorooctanoic acid - PFOA	0.011J	ug/L	0.0022	0.02	1
5/27/2016	06/01/2016	10:51	913903	(EPA 537)	13C-PFDA - Surr#2	94	%			1
5/27/2016	06/01/2016	10:51	913903	(EPA 537)	13C-PFHxA - Surr#1	85	%			1
5/27/2016	06/01/2016	10:51	913903	(EPA 537)	13C-PFOA- IS#1	109	%			1
5/27/2016	06/01/2016	10:51	913903	(EPA 537)	13C-PFOS- IS#2	111	%			1

EP107 Well 11 (201605200081)

Sampled on 05/24/2016 1027

EPA 537 - UCMR3 537										
5/27/2016	06/01/2016	11:12	913903	(EPA 537)	Perfluoro octanesulfonic acid - PFOS	0.0095J	ug/L	0.0023	0.04	1
5/27/2016	06/01/2016	11:12	913903	(EPA 537)	Perfluoro-1-butananesulfonic acid -PFBS	0.0075J	ug/L	0.0018	0.09	1
5/27/2016	06/01/2016	11:12	913903	(EPA 537)	Perfluoro-1-hexanesulfonic acid - PFHxS	0.0021J	ug/L	0.0020	0.03	1
5/27/2016	06/01/2016	11:12	913903	(EPA 537)	Perfluoroheptanoic acid - PFHpA	ND	ug/L	0.0031	0.01	1
5/27/2016	06/01/2016	11:12	913903	(EPA 537)	Perfluoro-n-nonanoic acid -PFNA	ND	ug/L	0.0022	0.02	1
5/27/2016	06/01/2016	11:12	913903	(EPA 537)	Perfluorooctanoic acid - PFOA	0.0095J	ug/L	0.0022	0.02	1
5/27/2016	06/01/2016	11:12	913903	(EPA 537)	13C-PFDA - Surr#2	97	%			1
5/27/2016	06/01/2016	11:12	913903	(EPA 537)	13C-PFHxA - Surr#1	87	%			1
5/27/2016	06/01/2016	11:12	913903	(EPA 537)	13C-PFOA- IS#1	106	%			1
5/27/2016	06/01/2016	11:12	913903	(EPA 537)	13C-PFOS- IS#2	109	%			1

Rounding on totals after summation.

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ND - Analyte was not detected at the calculated MDL.

J - The analyte was either detected at or greater than the MDL and less than the MRL, or did not meet any one of the required QC criteria.



Eaton Analytical

Laboratory
QC Summary: 591356

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1 800 566 LABS (1 800 566 5227)

QC Laboratories

UCMR3 537

Prep Batch: 912552 Analytical Batch: 913903

Analysis Date: 06/01/2016

201605200075	Field Blank - UCMR3 Mod
201605200076	EP102 Well 3
201605200077	EP013 Well 4
201605200078	EP104 Well 5
201605200079	EP105 Well 8
201605200080	EP106 Well 9
201605200081	EP107 Well 11

Analyzed by: LHZ
Analyzed by: LHZ
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Laboratory QC
 Report: 591356

QC Laboratories

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
UCMR3 537 by EPA 537									
Analytical Batch: 913903					Analysis Date: 06/01/2016				
CCCL	13C-PFDA - Surr#2 (S)			99.5	%	100	(70-130)		
CCCM	13C-PFDA - Surr#2 (S)			99.9	%	100	(70-130)		
MBLK_HI	13C-PFDA - Surr#2 (S)			93.7	%	94	(70-130)		
MRLHI	13C-PFDA - Surr#2 (S)			99.5	%	100	(70-130)		
MS2_201605200076	13C-PFDA - Surr#2 (S)			105	%	105	(70-130)		
MSD2_201605200076	13C-PFDA - Surr#2 (S)			104	%	104	(70-130)		
QCS	13C-PFDA - Surr#2 (S)			101	%	101	(70-130)		
CCCL	13C-PFHxA - Surr#1 (S)			100	%	100	(70-130)		
CCCM	13C-PFHxA - Surr#1 (S)			97.9	%	98	(70-130)		
MBLK_HI	13C-PFHxA - Surr#1 (S)			85.4	%	85	(70-130)		
MRLHI	13C-PFHxA - Surr#1 (S)			92.3	%	92	(70-130)		
MS2_201605200076	13C-PFHxA - Surr#1 (S)			92.4	%	92	(70-130)		
MSD2_201605200076	13C-PFHxA - Surr#1 (S)			87.1	%	87	(70-130)		
QCS	13C-PFHxA - Surr#1 (S)			93.2	%	93	(70-130)		
CCCL	13C-PFOA- IS#1 (I)			101	%	101	(50-150)		
CCCM	13C-PFOA- IS#1 (I)			104	%	104	(50-150)		
MBLK_HI	13C-PFOA- IS#1 (I)			110	%	110	(50-150)		
MRLHI	13C-PFOA- IS#1 (I)			111	%	111	(50-150)		
MS2_201605200076	13C-PFOA- IS#1 (I)			100	%	100	(50-150)		
MSD2_201605200076	13C-PFOA- IS#1 (I)			105	%	105	(50-150)		
QCS	13C-PFOA- IS#1 (I)			100	%	100	(50-150)		
CCCL	13C-PFOS- IS#2 (I)			100	%	100	(50-150)		
CCCM	13C-PFOS- IS#2 (I)			102	%	102	(50-150)		
MBLK_HI	13C-PFOS- IS#2 (I)			110	%	110	(50-150)		
MRLHI	13C-PFOS- IS#2 (I)			108	%	108	(50-150)		
MS2_201605200076	13C-PFOS- IS#2 (I)			104	%	104	(50-150)		
MSD2_201605200076	13C-PFOS- IS#2 (I)			103	%	103	(50-150)		
QCS	13C-PFOS- IS#2 (I)			98.6	%	99	(50-150)		
CCCL	Perfluoro octanesulfonic acid - PFOS		0.032	0.0355	ug/L	111	(50-150)		
CCCM	Perfluoro octanesulfonic acid - PFOS		0.064	0.0714	ug/L	112	(70-130)		
MBLK_HI	Perfluoro octanesulfonic acid - PFOS	ND		<0.01333	ug/L				
MRLHI	Perfluoro octanesulfonic acid - PFOS		0.04	0.0424	ug/L	106	(50-150)		
MS2_201605200076	Perfluoro octanesulfonic acid - PFOS	ND	0.08	0.117	ug/L	103	(70-130)		
MSD2_201605200076	Perfluoro octanesulfonic acid - PFOS	ND	0.08	0.110	ug/L	95	(70-130)	30	6.2
QCS	Perfluoro octanesulfonic acid - PFOS		0.048	0.0580	ug/L	121	(70-130)		

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 Laboratories

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
CCCL	Perfluoro-1-butanefulfonic acid -PFBS		0.073	0.0810	ug/L	111	(50-150)		
CCCM	Perfluoro-1-butanefulfonic acid -PFBS		0.15	0.166	ug/L	114	(70-130)		
MBLK_HI	Perfluoro-1-butanefulfonic acid -PFBS	ND		<0.03033	ug/L				
MRLHI	Perfluoro-1-butanefulfonic acid -PFBS		0.09	0.0970	ug/L	108	(50-150)		
MS2_201605200076	Perfluoro-1-butanefulfonic acid -PFBS	ND	0.18	0.200	ug/L	105	(70-130)		
MSD2_201605200076	Perfluoro-1-butanefulfonic acid -PFBS	ND	0.18	0.202	ug/L	106	(70-130)	30	1
QCS	Perfluoro-1-butanefulfonic acid -PFBS		0.044	0.0525	ug/L	118	(70-130)		
CCCL	Perfluoro-1-hexanesulfonic acid - PFHxS		0.024	0.0270	ug/L	112	(50-150)		
CCCM	Perfluoro-1-hexanesulfonic acid - PFHxS		0.048	0.0547	ug/L	114	(70-130)		
MBLK_HI	Perfluoro-1-hexanesulfonic acid - PFHxS	ND		<0.0100	ug/L				
MRLHI	Perfluoro-1-hexanesulfonic acid - PFHxS		0.03	0.0331	ug/L	110	(50-150)		
MS2_201605200076	Perfluoro-1-hexanesulfonic acid - PFHxS	ND	0.06	0.0850	ug/L	107	(70-130)		
MSD2_201605200076	Perfluoro-1-hexanesulfonic acid - PFHxS	ND	0.06	0.0820	ug/L	102	(70-130)	30	3.6
QCS	Perfluoro-1-hexanesulfonic acid - PFHxS		0.048	0.0572	ug/L	120	(70-130)		
CCCL	Perfluoroheptanoic acid - PFHpA		0.008	0.00811	ug/L	101	(50-150)		
CCCM	Perfluoroheptanoic acid - PFHpA		0.016	0.0166	ug/L	104	(70-130)		
MBLK_HI	Perfluoroheptanoic acid - PFHpA	ND		<0.00333	ug/L				
MRLHI	Perfluoroheptanoic acid - PFHpA		0.01	0.0102	ug/L	102	(50-150)		
MS2_201605200076	Perfluoroheptanoic acid - PFHpA	ND	0.02	0.0268	ug/L	105	(70-130)		
MSD2_201605200076	Perfluoroheptanoic acid - PFHpA	ND	0.02	0.0246	ug/L	94	(70-130)	30	8.6
QCS	Perfluoroheptanoic acid - PFHpA		0.05	0.0502	ug/L	100	(70-130)		
CCCL	Perfluoro-n-nonanoic acid -PFNA		0.016	0.0189	ug/L	118	(50-150)		
CCCM	Perfluoro-n-nonanoic acid -PFNA		0.032	0.0378	ug/L	118	(70-130)		
MBLK_HI	Perfluoro-n-nonanoic acid -PFNA	ND		<0.00666	ug/L				
MRLHI	Perfluoro-n-nonanoic acid -PFNA		0.02	0.0226	ug/L	113	(50-150)		
MS2_201605200076	Perfluoro-n-nonanoic acid -PFNA	ND	0.04	0.0448	ug/L	108	(70-130)		
MSD2_201605200076	Perfluoro-n-nonanoic acid -PFNA	ND	0.04	0.0461	ug/L	111	(70-130)	30	2.9
QCS	Perfluoro-n-nonanoic acid -PFNA		0.05	0.0488	ug/L	98	(70-130)		
CCCL	Perfluorooctanoic acid - PFOA		0.016	0.0172	ug/L	108	(50-150)		
CCCM	Perfluorooctanoic acid - PFOA		0.032	0.0350	ug/L	109	(70-130)		
MBLK_HI	Perfluorooctanoic acid - PFOA	ND		<0.00666	ug/L				
MRLHI	Perfluorooctanoic acid - PFOA		0.02	0.0216	ug/L	108	(50-150)		
MS2_201605200076	Perfluorooctanoic acid - PFOA	0.022	0.04	0.0593	ug/L	94	(70-130)		
MSD2_201605200076	Perfluorooctanoic acid - PFOA	0.022	0.04	0.0614	ug/L	100	(70-130)	30	3.5
QCS	Perfluorooctanoic acid - PFOA		0.05	0.0476	ug/L	95	(70-130)		

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.