



Eaton Analytical

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)



Laboratory Report

for

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

Date of Issue
06/19/2015


EUROFINS EATON
ANALYTICAL

TDF: Thomas.D.French
Project Manager

Report: 536605
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.

STATE CERTIFICATION LIST

State	Certification Number	State	Certification Number
Alabama	41060	Mississippi	Certified
Alaska	CA00006	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/ACLASS.
Refer to Certificate and scope of accreditation (AT 1807) found at: <http://www.eatonanalytical.com>

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Drinking Water	Food & Beverage	Waste Water
1,4-Dioxane	EPA 522	x	x	
2,3,7,8-TCDD	Modified EPA 1613B	x	x	
Acrylamide	In House Method	x	x	
Alkalinity	SM 2320B	x	x	x
Ammonia	EPA 350.1		x	x
Ammonia	SM 4500-NH ₃ H (18th)		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		
Bicarbonate Alkalinity as HCO ₃	SM 2330B	x	x	x
BOD / CBOD	SM 5210B		x	x
Bromate	In House Method	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	
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	x	x	
Diquat and Paraquat	EPA 549.2	x	x	
DBP/HAA	SM 6251B	x	x	
Dissolved Oxygen	SM 4500-O G		x	x
E. Coli	(MTF/EC+MUG)	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	x	x	
Endothall	EPA 548.1	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
Glyphosate	EPA 547	x	x	
Gross Alpha/Beta	EPA 900.0	x	x	x
HAAs/ Dalapon	EPA 552.3	x	x	
Hardness	SM 2340B	x	x	x
Heterotrophic Bacteria	In House Method	x	x	
Heterotrophic Bacteria	SM 9215 B	x	x	
Hexavalent Chromium	EPA 218.6	x	x	x
Hexavalent Chromium	EPA 218.7	x	x	
Hexavalent Chromium	SM 3500-Cr B or C (20th)			x

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Drinking Water	Food & Beverage	Waste Water
Hormones	EPA 539	x	x	
Hydroxide as OH Calc.	SM 2330B	x	x	
Kjeldahl Nitrogen	EPA 351.2			x
Mercury	EPA 245.1	x	x	x
Metals	EPA 200.7 / 200.8	x	x	x
Microcystin LR	ELISA	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	
Ortho Phosphate and Total Phosphorous	EPA 365.1/SM 4500-P E			x
Ortho Phosphorous	SM 4500P E	x	x	
Oxyhalides Disinfection Byproducts	EPA 317.0	x	x	
Perchlorate	EPA 331.0	x	x	
Perchlorate	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	x	x	
Pseudomonas	IDEXX Pseudalert	x	x	
Radium-226	RA-226 GA	x	x	
Radium-228	RA-228 GA	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	x
Silica	SM 4500-Si D	x	x	x
Silica	SM 4500-SiO ₂ 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	SM 9221 A, B	x	x	
Total Coliform (Enumeration)	SM 9221 A, B, C	x	x	
Total Coliform / E. coli	Colisure	x	x	
Total Coliform	SM 9221B			x
Total Coliform with Chlorine Present	SM 9221B			x
Total Coliform / E.coli	SM 9223	x	x	
TOC	SM 5310C		x	x
TOC/DOC	SM 5310C	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 F			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	x
VOC	EPA SW 846 8260	x	x	
VOC	In House Method	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 002. Issued: 06/03/2014

Acknowledgement of Samples Received

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

Client ID: PHILLYSUB
Folder #: 536605
Project: PFC
Sample Group: PFC Monitoring Horsham

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

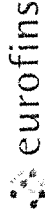
Project Manager: Thomas.D.French
Phone: (480) 778-1558

The following samples were received from you on **May 29, 2015 at 1409**. 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>201505290237</u>	Horsham Well # 17	05/28/2015 0925
	@537	
<u>201505290238</u>	Horsham Well # 10	05/28/2015 1100
	@537	
<u>201505290239</u>	Horsham Well # 21	05/28/2015 0900
	@537	

Test Description

@537 -- Perfluorinated Alkyl Acids



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CHAIN OF CUSTODY RECORD

536605

EUROFINS EATON ANALYTICAL USE ONLY:

LOGIN COMMENTS: B52A

SAMPLES CHECKED AGAINST COC BY: Wanna

SAMPLES LOGGED IN BY: W

SAMPLES REC'D DAY OF COLLECTION? (check for yes)

SAMPLE TEMP RECEIVED AT:

Colton / No. California / Arizona _____ °C (Compliance: 4 ± 2 °C)

Monrovia 5.6 -0.1 °C (Compliance: 4 ± 2 °C)

CONDITION OF BLUE ICE: Frozen _____ Partially Frozen _____ Thawed _____ Wet Ice _____ No Ice _____

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

TO BE COMPLETED BY SAMPLER: _____ (check for yes)

COMPANY/AGENCY NAME: Aqua Pennsylvania, Inc. PROJECT CODE: _____ (check for yes)

EEA CLIENT CODE: _____ COC ID: _____ SAMPLE GROUP: Aqua Pennsylvania, Inc. (check for yes)

TAT requested: rush by adv notice only STD_X_ 1 wk ___ 3 day ___ 2 day ___ 1 day ___

SAMPLE DATE	SAMPLE TIME	SAMPLE ID	CLIENT LAB ID	MATRIX	FIELD DATA	FIELD DATA	COMPLIANCE SAMPLES	NON-COMPLIANCE SAMPLES	SAMPLER COMMENTS
5/28/15	0925	Horsham Well #17		RGW			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Raw Water
5/28/15	1100	Horsham Well #10		RGW			<input checked="" type="checkbox"/>	<input type="checkbox"/>	Raw Water
5/28/15	0900	Horsham Well #21		RGW			<input checked="" type="checkbox"/>	<input type="checkbox"/>	Raw Water
							<input type="checkbox"/>	<input type="checkbox"/>	Not for UCMR3

SEE ATTACHED BOTTLE ORDER FOR ANALYSES (check for yes) OR

list ANALYSES REQUIRED (enter number of bottles sent for each test for each sample)

* MATRIX TYPES: RSW = Raw Surface Water CFW = Chlor(am)inated Finished Water SEAW = Sea Water BW = Bottled Water SO = Soil
 RGW = Raw Ground Water FW = Other Finished Water WW = Waste Water SW = Storm Water SL = Sludge

SIGNED BY:	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
RELINQUISHED BY:		BP	Aqua Pennsylvania, Inc.	5/28/15	1115
RECEIVED BY:		Michael Senft	Aqua Pennsylvania, Inc.	5/28/15	1300
RELINQUISHED BY:		Michael Senft	Aqua Pennsylvania, Inc.	5/28/15	1600
RECEIVED BY:		Wanna Tammaraid	EDA	5-29-15	1409



eurofins

Eaton Analytical

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Laboratory Comments
Report: 536605

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



Eaton Analytical

Laboratory Hits
Report: 536605

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

Samples Received on:
05/29/2015 1409

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
		201505290237	<u>Horsham Well # 17</u>			
06/05/2015 07:27	Perfluorobutanesulfonic acid		0.0074		ug/L	0.0025
06/05/2015 07:27	Perfluoroheptanoic acid		0.0078		ug/L	0.0025
06/05/2015 07:27	Perfluorohexanesulfonic acid		0.040		ug/L	0.0025
06/05/2015 07:27	Perfluorohexanoic acid		0.016		ug/L	0.0025
06/12/2015 04:49	Perfluorooctanesulfonic acid		0.094		ug/L	0.025
06/05/2015 07:27	Perfluorooctanoic acid		0.024		ug/L	0.0025
		201505290238	<u>Horsham Well # 10</u>			
06/05/2015 07:52	Perfluorobutanesulfonic acid		0.0069		ug/L	0.0025
06/05/2015 07:52	Perfluoroheptanoic acid		0.0041		ug/L	0.0025
06/05/2015 07:52	Perfluorohexanesulfonic acid		0.026		ug/L	0.0025
06/05/2015 07:52	Perfluorohexanoic acid		0.0093		ug/L	0.0025
06/05/2015 07:52	Perfluorooctanesulfonic acid		0.041		ug/L	0.0025
06/05/2015 07:52	Perfluorooctanoic acid		0.019		ug/L	0.0025
		201505290239	<u>Horsham Well # 21</u>			
06/05/2015 08:18	Perfluorobutanesulfonic acid		0.0041		ug/L	0.0025
06/05/2015 08:18	Perfluoroheptanoic acid		0.0028		ug/L	0.0025
06/05/2015 08:18	Perfluorohexanesulfonic acid		0.0044		ug/L	0.0025
06/05/2015 08:18	Perfluorohexanoic acid		0.0044		ug/L	0.0025
06/05/2015 08:18	Perfluorooctanesulfonic acid		0.010		ug/L	0.0025
06/05/2015 08:18	Perfluorooctanoic acid		0.0097		ug/L	0.0025

SUMMARY OF POSITIVE DATA ONLY



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Laboratory Data
Report: 536605

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

Samples Received on:
05/29/2015 1409

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution	
Horsham Well # 17 (201505290237)					Sampled on 05/28/2015 0925				
EPA 537 - Perfluorinated Alkyl Acids									
6/1/2015	06/05/2015	07:27	842754	(EPA 537) Perfluorobutanesulfonic acid	0.0074	ug/L	0.0025	1	
6/1/2015	06/05/2015	07:27	842754	(EPA 537) Perfluorodecanoic acid	ND	ug/L	0.0025	1	
6/1/2015	06/05/2015	07:27	842754	(EPA 537) Perfluorododecanoic acid	ND	ug/L	0.0025	1	
6/1/2015	06/05/2015	07:27	842754	(EPA 537) Perfluoroheptanoic acid	0.0078	ug/L	0.0025	1	
6/1/2015	06/05/2015	07:27	842754	(EPA 537) Perfluorohexanesulfonic acid	0.040	ug/L	0.0025	1	
6/1/2015	06/05/2015	07:27	842754	(EPA 537) Perfluorohexanoic acid	0.016	ug/L	0.0025	1	
6/1/2015	06/05/2015	07:27	842754	(EPA 537) Perfluorononanoic acid	ND	ug/L	0.0025	1	
6/1/2015	06/12/2015	04:49	844633	(EPA 537) Perfluorooctanesulfonic acid	0.094	ug/L	0.025	10	
6/1/2015	06/05/2015	07:27	842754	(EPA 537) Perfluorooctanoic acid	0.024	ug/L	0.0025	1	
6/1/2015	06/05/2015	07:27	842754	(EPA 537) Perfluorotetradecanoic acid	ND	ug/L	0.0025	1	
6/1/2015	06/05/2015	07:27	842754	(EPA 537) Perfluorotridecanoic acid	ND	ug/L	0.0025	1	
6/1/2015	06/05/2015	07:27	842754	(EPA 537) Perfluoroundecanoic acid	ND	ug/L	0.0025	1	
6/1/2015	06/05/2015	07:27	842754	(EPA 537) 13C-PFDA	94	%		1	
6/1/2015	06/05/2015	07:27	842754	(EPA 537) 13C-PFHxA	99	%		1	
6/1/2015	06/05/2015	07:27	842754	(EPA 537) 13C-PFOA	105	%		1	
6/1/2015	06/05/2015	07:27	842754	(EPA 537) 13C-PFOS	108	%		1	
Horsham Well # 10 (201505290238)					Sampled on 05/28/2015 1100				
EPA 537 - Perfluorinated Alkyl Acids									
6/1/2015	06/05/2015	07:52	842754	(EPA 537) Perfluorobutanesulfonic acid	0.0069	ug/L	0.0025	1	
6/1/2015	06/05/2015	07:52	842754	(EPA 537) Perfluorodecanoic acid	ND	ug/L	0.0025	1	
6/1/2015	06/05/2015	07:52	842754	(EPA 537) Perfluorododecanoic acid	ND	ug/L	0.0025	1	
6/1/2015	06/05/2015	07:52	842754	(EPA 537) Perfluoroheptanoic acid	0.0041	ug/L	0.0025	1	
6/1/2015	06/05/2015	07:52	842754	(EPA 537) Perfluorohexanesulfonic acid	0.026	ug/L	0.0025	1	
6/1/2015	06/05/2015	07:52	842754	(EPA 537) Perfluorohexanoic acid	0.0093	ug/L	0.0025	1	
6/1/2015	06/05/2015	07:52	842754	(EPA 537) Perfluorononanoic acid	ND	ug/L	0.0025	1	
6/1/2015	06/05/2015	07:52	842754	(EPA 537) Perfluorooctanesulfonic acid	0.041	ug/L	0.0025	1	
6/1/2015	06/05/2015	07:52	842754	(EPA 537) Perfluorooctanoic acid	0.019	ug/L	0.0025	1	
6/1/2015	06/05/2015	07:52	842754	(EPA 537) Perfluorotetradecanoic acid	ND	ug/L	0.0025	1	
6/1/2015	06/05/2015	07:52	842754	(EPA 537) Perfluorotridecanoic acid	ND	ug/L	0.0025	1	
6/1/2015	06/05/2015	07:52	842754	(EPA 537) Perfluoroundecanoic acid	ND	ug/L	0.0025	1	
6/1/2015	06/05/2015	07:52	842754	(EPA 537) 13C-PFDA	92	%		1	
6/1/2015	06/05/2015	07:52	842754	(EPA 537) 13C-PFHxA	99	%		1	
6/1/2015	06/05/2015	07:52	842754	(EPA 537) 13C-PFOA	108	%		1	

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



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Chuck Hertz
762 Lancaster Avenue
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Samples Received on:
05/29/2015 1409

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
6/1/2015	06/05/2015	07:52	842754	(EPA 537)	13C-PFOS	107	%	1

Horsham Well # 21 (201505290239)

Sampled on 05/28/2015 0900

EPA 537 - Perfluorinated Alkyl Acids

6/1/2015	06/05/2015	08:18	842754	(EPA 537)	Perfluorobutanesulfonic acid	0.0041	ug/L	0.0025	1
6/1/2015	06/05/2015	08:18	842754	(EPA 537)	Perfluorodecanoic acid	ND	ug/L	0.0025	1
6/1/2015	06/05/2015	08:18	842754	(EPA 537)	Perfluorododecanoic acid	ND	ug/L	0.0025	1
6/1/2015	06/05/2015	08:18	842754	(EPA 537)	Perfluoroheptanoic acid	0.0028	ug/L	0.0025	1
6/1/2015	06/05/2015	08:18	842754	(EPA 537)	Perfluorohexanesulfonic acid	0.0044	ug/L	0.0025	1
6/1/2015	06/05/2015	08:18	842754	(EPA 537)	Perfluorohexanoic acid	0.0044	ug/L	0.0025	1
6/1/2015	06/05/2015	08:18	842754	(EPA 537)	Perfluorononanoic acid	ND	ug/L	0.0025	1
6/1/2015	06/05/2015	08:18	842754	(EPA 537)	Perfluorooctanesulfonic acid	0.010	ug/L	0.0025	1
6/1/2015	06/05/2015	08:18	842754	(EPA 537)	Perfluorooctanoic acid	0.0097	ug/L	0.0025	1
6/1/2015	06/05/2015	08:18	842754	(EPA 537)	Perfluorotetradecanoic acid	ND	ug/L	0.0025	1
6/1/2015	06/05/2015	08:18	842754	(EPA 537)	Perfluorotridecanoic acid	ND	ug/L	0.0025	1
6/1/2015	06/05/2015	08:18	842754	(EPA 537)	Perfluoroundecanoic acid	ND	ug/L	0.0025	1
6/1/2015	06/05/2015	08:18	842754	(EPA 537)	13C-PFDA	93	%		1
6/1/2015	06/05/2015	08:18	842754	(EPA 537)	13C-PFHxA	97	%		1
6/1/2015	06/05/2015	08:18	842754	(EPA 537)	13C-PFOA	109	%		1
6/1/2015	06/05/2015	08:18	842754	(EPA 537)	13C-PFOS	110	%		1

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

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Aqua Pennsylvania, Inc.

QC Ref # 842754 - Perfluorinated Alkyl Acids

201505290237	Horsham Well # 17
201505290238	Horsham Well # 10
201505290239	Horsham Well # 21

Analysis Date: 06/05/2015

Analyzed by: LHZ
Analyzed by: LHZ
Analyzed by: LHZ

QC Ref # 844633 - Perfluorinated Alkyl Acids

201505290237	Horsham Well # 17
--------------	-------------------

Analysis Date: 06/12/2015

Analyzed by: LHZ



Eaton Analytical

Laboratory QC
Report: 536605

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 842754 - Perfluorinated Alkyl Acids by EPA 537						Analysis Date: 06/04/2015			
LCS1	13C-PFDA (S)			93.5	%	93	(70-130)		
LCS2	13C-PFDA (S)			93.4	%	93	(70-130)		
MBLK	13C-PFDA (S)			86.6	%	87	(70-130)		
MRL_CHK	13C-PFDA (S)			93.2	%	93	(70-130)		
MS_201505280391	13C-PFDA (S)			94.0	%	94	(70-130)		
MSD_201505280391	13C-PFDA (S)			85.4	%	85	(70-130)		
LCS1	13C-PFHxA (S)			98.6	%	99	(70-130)		
LCS2	13C-PFHxA (S)			94.0	%	94	(70-130)		
MBLK	13C-PFHxA (S)			91.4	%	91	(70-130)		
MRL_CHK	13C-PFHxA (S)			100	%	100	(70-130)		
MS_201505280391	13C-PFHxA (S)			111	%	111	(70-130)		
MSD_201505280391	13C-PFHxA (S)			110	%	110	(70-130)		
LCS1	13C-PFOA (I)			105	%	105	(50-150)		
LCS2	13C-PFOA (I)			107	%	107	(50-150)		
MBLK	13C-PFOA (I)			108	%	108	(50-150)		
MRL_CHK	13C-PFOA (I)			106	%	106	(50-150)		
MS_201505280391	13C-PFOA (I)			105	%	105	(50-150)		
MSD_201505280391	13C-PFOA (I)			103	%	103	(50-150)		
LCS1	13C-PFOS (I)			108	%	108	(50-150)		
LCS2	13C-PFOS (I)			108	%	108	(50-150)		
MBLK	13C-PFOS (I)			109	%	109	(50-150)		
MRL_CHK	13C-PFOS (I)			111	%	111	(50-150)		
MS_201505280391	13C-PFOS (I)			107	%	107	(50-150)		
MSD_201505280391	13C-PFOS (I)			105	%	105	(50-150)		
LCS1	Perfluorobutanesulfonic acid		0.022	0.0216	ug/L	97	(70-130)		
LCS2	Perfluorobutanesulfonic acid		0.022	0.0210	ug/L	95	(70-130)	30	2.8
MBLK	Perfluorobutanesulfonic acid			<0.00074	ug/L				
MRL_CHK	Perfluorobutanesulfonic acid		0.0022	0.00188	ug/L	85	(50-150)		
MS_201505280391	Perfluorobutanesulfonic acid		0.0022	0.00250	ug/L	113	(50-150)		
MSD_201505280391	Perfluorobutanesulfonic acid		0.0022	0.00252	ug/L	114	(50-150)	50	0.80
LCS1	Perfluorodecanoic acid		0.025	0.0241	ug/L	97	(70-130)		
LCS2	Perfluorodecanoic acid		0.025	0.0249	ug/L	100	(70-130)	30	3.3
MBLK	Perfluorodecanoic acid			<0.00083	ug/L				
MRL_CHK	Perfluorodecanoic acid		0.0025	0.00224	ug/L	90	(50-150)		
MS_201505280391	Perfluorodecanoic acid	ND	0.0025	0.00265	ug/L	90	(50-150)		
MSD_201505280391	Perfluorodecanoic acid	ND	0.0025	0.00257	ug/L	87	(50-150)	50	3.1

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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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS1	Perfluorododecanoic acid		0.025	0.0239	ug/L	96	(70-130)		
LCS2	Perfluorododecanoic acid		0.025	0.0247	ug/L	99	(70-130)	30	3.3
MBLK	Perfluorododecanoic acid			<0.00083	ug/L				
MRL_CHK	Perfluorododecanoic acid		0.0025	0.00218	ug/L	87	(50-150)		
MS_201505280391	Perfluorododecanoic acid	ND	0.0025	0.00229	ug/L	91	(50-150)		
MSD_201505280391	Perfluorododecanoic acid	ND	0.0025	0.00214	ug/L	86	(50-150)	50	6.8
LCS1	Perfluoroheptanoic acid		0.025	0.0255	ug/L	102	(70-130)		
LCS2	Perfluoroheptanoic acid		0.025	0.0259	ug/L	104	(70-130)	30	1.6
MBLK	Perfluoroheptanoic acid			<0.00083	ug/L				
MRL_CHK	Perfluoroheptanoic acid		0.0025	0.00232	ug/L	93	(50-150)		
MS_201505280391	Perfluoroheptanoic acid		0.0025	0.00566	ug/L	96	(50-150)		
MSD_201505280391	Perfluoroheptanoic acid		0.0025	0.00561	ug/L	<u>225</u>	(50-150)	50	0.89
LCS1	Perfluorohexanesulfonic acid		0.024	0.0237	ug/L	100	(70-130)		
LCS2	Perfluorohexanesulfonic acid		0.024	0.0243	ug/L	102	(70-130)	30	2.5
MBLK	Perfluorohexanesulfonic acid			<0.00079	ug/L				
MRL_CHK	Perfluorohexanesulfonic acid		0.0024	0.00195	ug/L	82	(50-150)		
MS_201505280391	Perfluorohexanesulfonic acid		0.0024	0.00660	ug/L	89	(50-150)		
MSD_201505280391	Perfluorohexanesulfonic acid		0.0024	0.00682	ug/L	<u>288</u>	(50-150)	50	3.3
LCS1	Perfluorohexanoic acid		0.025	0.0248	ug/L	99	(70-130)		
LCS2	Perfluorohexanoic acid		0.025	0.0242	ug/L	97	(70-130)	30	2.5
MBLK	Perfluorohexanoic acid			<0.00083	ug/L				
MRL_CHK	Perfluorohexanoic acid		0.0025	0.00226	ug/L	90	(50-150)		
MS_201505280391	Perfluorohexanoic acid		0.0025	0.00796	ug/L	113	(50-150)		
MSD_201505280391	Perfluorohexanoic acid		0.0025	0.00795	ug/L	<u>318</u>	(50-150)	50	0.13
LCS1	Perfluorononanoic acid		0.025	0.0261	ug/L	104	(70-130)		
LCS2	Perfluorononanoic acid		0.025	0.0256	ug/L	103	(70-130)	30	1.9
MBLK	Perfluorononanoic acid			<0.00083	ug/L				
MRL_CHK	Perfluorononanoic acid		0.0025	0.00232	ug/L	93	(50-150)		
MS_201505280391	Perfluorononanoic acid	0.014	0.0025	0.0175	ug/L	149	(50-150)		
MSD_201505280391	Perfluorononanoic acid	0.014	0.0025	0.0174	ug/L	144	(50-150)	50	0.57
LCS1	Perfluorooctanesulfonic acid		0.024	0.0227	ug/L	95	(70-130)		
LCS2	Perfluorooctanesulfonic acid		0.024	0.0244	ug/L	102	(70-130)	30	7.2
MBLK	Perfluorooctanesulfonic acid			<0.0008	ug/L				
MRL_CHK	Perfluorooctanesulfonic acid		0.0024	0.00215	ug/L	90	(50-150)		
MS_201505280391	Perfluorooctanesulfonic acid	0.010	0.0024	0.0128	ug/L	117	(50-150)		
MSD_201505280391	Perfluorooctanesulfonic acid	0.010	0.0024	0.0122	ug/L	96	(50-150)	50	4.0
LCS1	Perfluorooctanoic acid		0.025	0.0246	ug/L	98	(70-130)		
LCS2	Perfluorooctanoic acid		0.025	0.0256	ug/L	103	(70-130)	30	4.0

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%
MBLK	Perfluorooctanoic acid			<0.00083	ug/L				
MRL_CHK	Perfluorooctanoic acid		0.0025	0.00258	ug/L	103	(50-150)		
MS_201505280391	Perfluorooctanoic acid	0.012	0.0025	0.0152	ug/L	110	(50-150)		
MSD_201505280391	Perfluorooctanoic acid	0.012	0.0025	0.0146	ug/L	87	(50-150)	50	4.0
LCS1	Perfluorotetradecanoic acid		0.025	0.0218	ug/L	87	(70-130)		
LCS2	Perfluorotetradecanoic acid		0.025	0.0230	ug/L	92	(70-130)	30	5.4
MBLK	Perfluorotetradecanoic acid			<0.00083	ug/L				
MRL_CHK	Perfluorotetradecanoic acid		0.0025	0.00205	ug/L	82	(50-150)		
MS_201505280391	Perfluorotetradecanoic acid	ND	0.0025	0.00211	ug/L	84	(50-150)		
MSD_201505280391	Perfluorotetradecanoic acid	ND	0.0025	0.00206	ug/L	82	(50-150)	50	2.4
LCS1	Perfluorotridecanoic acid		0.025	0.0212	ug/L	85	(70-130)		
LCS2	Perfluorotridecanoic acid		0.025	0.0222	ug/L	89	(70-130)	30	4.6
MBLK	Perfluorotridecanoic acid			<0.00083	ug/L				
MRL_CHK	Perfluorotridecanoic acid		0.0025	0.00201	ug/L	80	(50-150)		
MS_201505280391	Perfluorotridecanoic acid	ND	0.0025	0.00213	ug/L	85	(50-150)		
MSD_201505280391	Perfluorotridecanoic acid	ND	0.0025	0.00208	ug/L	83	(50-150)	50	2.4
LCS1	Perfluoroundecanoic acid		0.025	0.0246	ug/L	98	(70-130)		
LCS2	Perfluoroundecanoic acid		0.025	0.0240	ug/L	96	(70-130)	30	2.5
MBLK	Perfluoroundecanoic acid			<0.00083	ug/L				
MRL_CHK	Perfluoroundecanoic acid		0.0025	0.00232	ug/L	93	(50-150)		
MS_201505280391	Perfluoroundecanoic acid	ND	0.0025	0.00267	ug/L	94	(50-150)		
MSD_201505280391	Perfluoroundecanoic acid	ND	0.0025	0.00238	ug/L	82	(50-150)	50	12

QC Ref# 844633 - Perfluorinated Alkyl Acids by EPA 537

Analysis Date: 06/12/2015

LCS1	13C-PFDA (S)			91.1	%	91	(70-130)
LCS2	13C-PFDA (S)			89.9	%	90	(70-130)
MBLK	13C-PFDA (S)			87.4	%	87	(70-130)
MRL_CHK	13C-PFDA (S)			90.4	%	90	(70-130)
MS_201506100102	13C-PFDA (S)			83.6	%	84	(70-130)
MSD_201506100102	13C-PFDA (S)			90.8	%	91	(70-130)
LCS1	13C-PFHxA (S)			97.3	%	97	(70-130)
LCS2	13C-PFHxA (S)			94.8	%	95	(70-130)
MBLK	13C-PFHxA (S)			92.8	%	93	(70-130)
MRL_CHK	13C-PFHxA (S)			93.9	%	94	(70-130)
MS_201506100102	13C-PFHxA (S)			92.0	%	92	(70-130)
MSD_201506100102	13C-PFHxA (S)			93.5	%	94	(70-130)
LCS1	13C-PFOA (I)			110	%	110	(50-150)
LCS2	13C-PFOA (I)			108	%	109	(50-150)
MBLK	13C-PFOA (I)			114	%	114	(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.

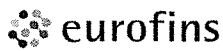
(I) - Indicates internal standard compound.

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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MRL_CHK	13C-PFOA (I)			116	%	116	(50-150)		
MS_201506100102	13C-PFOA (I)			116	%	116	(50-150)		
MSD_201506100102	13C-PFOA (I)			111	%	111	(50-150)		
LCS1	13C-PFOS (I)			110	%	110	(50-150)		
LCS2	13C-PFOS (I)			109	%	109	(50-150)		
MBLK	13C-PFOS (I)			107	%	107	(50-150)		
MRL_CHK	13C-PFOS (I)			110	%	110	(50-150)		
MS_201506100102	13C-PFOS (I)			111	%	111	(50-150)		
MSD_201506100102	13C-PFOS (I)			110	%	110	(50-150)		
LCS1	Perfluorobutanesulfonic acid		0.022	0.0202	ug/L	91	(70-130)		
LCS2	Perfluorobutanesulfonic acid		0.022	0.0208	ug/L	94	(70-130)	30	2.9
MBLK	Perfluorobutanesulfonic acid			<0.00074	ug/L				
MRL_CHK	Perfluorobutanesulfonic acid		0.0022	0.00189	ug/L	85	(50-150)		
MS_201506100102	Perfluorobutanesulfonic acid	ND	0.0022	0.00215	ug/L	79	(50-150)		
MSD_201506100102	Perfluorobutanesulfonic acid	ND	0.0022	0.00221	ug/L	82	(50-150)	50	2.8
LCS1	Perfluorodecanoic acid		0.025	0.0231	ug/L	92	(70-130)		
LCS2	Perfluorodecanoic acid		0.025	0.0240	ug/L	96	(70-130)	30	3.8
MBLK	Perfluorodecanoic acid			<0.00083	ug/L				
MRL_CHK	Perfluorodecanoic acid		0.0025	0.00213	ug/L	85	(50-150)		
MS_201506100102	Perfluorodecanoic acid	ND	0.0025	0.00203	ug/L	80	(50-150)		
MSD_201506100102	Perfluorodecanoic acid	ND	0.0025	0.00212	ug/L	84	(50-150)	50	4.3
LCS1	Perfluorododecanoic acid		0.025	0.0221	ug/L	88	(70-130)		
LCS2	Perfluorododecanoic acid		0.025	0.0230	ug/L	92	(70-130)	30	4.0
MBLK	Perfluorododecanoic acid			<0.00083	ug/L				
MRL_CHK	Perfluorododecanoic acid		0.0025	0.00197	ug/L	79	(50-150)		
MS_201506100102	Perfluorododecanoic acid	ND	0.0025	0.00203	ug/L	80	(50-150)		
MSD_201506100102	Perfluorododecanoic acid	ND	0.0025	0.00207	ug/L	82	(50-150)	50	2.0
LCS1	Perfluoroheptanoic acid		0.025	0.0245	ug/L	98	(70-130)		
LCS2	Perfluoroheptanoic acid		0.025	0.0256	ug/L	103	(70-130)	30	4.8
MBLK	Perfluoroheptanoic acid			<0.00083	ug/L				
MRL_CHK	Perfluoroheptanoic acid		0.0025	0.00212	ug/L	85	(50-150)		
MS_201506100102	Perfluoroheptanoic acid	ND	0.0025	0.00233	ug/L	80	(50-150)		
MSD_201506100102	Perfluoroheptanoic acid	ND	0.0025	0.00263	ug/L	92	(50-150)	50	12
LCS1	Perfluorohexanesulfonic acid		0.024	0.0226	ug/L	95	(70-130)		
LCS2	Perfluorohexanesulfonic acid		0.024	0.0229	ug/L	97	(70-130)	30	1.3
MBLK	Perfluorohexanesulfonic acid			<0.00079	ug/L				
MRL_CHK	Perfluorohexanesulfonic acid		0.0024	0.00196	ug/L	83	(50-150)		
MS_201506100102	Perfluorohexanesulfonic acid	ND	0.0024	0.00277	ug/L	90	(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.
(I) - Indicates internal standard compound.



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QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
MSD_201506100102	Perfluorohexanesulfonic acid	ND	0.0024	0.00283	ug/L	92	(50-150)	50	2.1
LCS1	Perfluorohexanoic acid		0.025	0.0243	ug/L	97	(70-130)		
LCS2	Perfluorohexanoic acid		0.025	0.0244	ug/L	98	(70-130)	30	0.41
MBLK	Perfluorohexanoic acid			<0.00083	ug/L				
MRL_CHK	Perfluorohexanoic acid		0.0025	0.00207	ug/L	83	(50-150)		
MS_201506100102	Perfluorohexanoic acid	ND	0.0025	0.00367	ug/L	77	(50-150)		
MSD_201506100102	Perfluorohexanoic acid	ND	0.0025	0.00407	ug/L	93	(50-150)	50	10
LCS1	Perfluorononanoic acid		0.025	0.0244	ug/L	98	(70-130)		
LCS2	Perfluorononanoic acid		0.025	0.0235	ug/L	94	(70-130)	30	3.8
MBLK	Perfluorononanoic acid			<0.00083	ug/L				
MRL_CHK	Perfluorononanoic acid		0.0025	0.00218	ug/L	87	(50-150)		
MS_201506100102	Perfluorononanoic acid	ND	0.0025	0.00222	ug/L	84	(50-150)		
MSD_201506100102	Perfluorononanoic acid	ND	0.0025	0.00230	ug/L	87	(50-150)	50	3.5
LCS1	Perfluorooctanesulfonic acid		0.024	0.0221	ug/L	93	(70-130)		
LCS2	Perfluorooctanesulfonic acid		0.024	0.0230	ug/L	96	(70-130)	30	4.0
MBLK	Perfluorooctanesulfonic acid			<0.0008	ug/L				
MRL_CHK	Perfluorooctanesulfonic acid		0.0024	0.00208	ug/L	87	(50-150)		
MS_201506100102	Perfluorooctanesulfonic acid	ND	0.0024	0.00352	ug/L	77	(50-150)		
MSD_201506100102	Perfluorooctanesulfonic acid	ND	0.0024	0.00378	ug/L	88	(50-150)	50	7.1
LCS1	Perfluorooctanoic acid		0.025	0.0239	ug/L	96	(70-130)		
LCS2	Perfluorooctanoic acid		0.025	0.0246	ug/L	99	(70-130)	30	3.3
MBLK	Perfluorooctanoic acid			<0.00083	ug/L				
MRL_CHK	Perfluorooctanoic acid		0.0025	0.00239	ug/L	96	(50-150)		
MS_201506100102	Perfluorooctanoic acid	ND	0.0025	0.00310	ug/L	70	(50-150)		
MSD_201506100102	Perfluorooctanoic acid	ND	0.0025	0.00316	ug/L	72	(50-150)	50	1.9
LCS1	Perfluorotetradecanoic acid		0.025	0.0216	ug/L	86	(70-130)		
LCS2	Perfluorotetradecanoic acid		0.025	0.0230	ug/L	92	(70-130)	30	6.3
MBLK	Perfluorotetradecanoic acid			<0.00083	ug/L				
MRL_CHK	Perfluorotetradecanoic acid		0.0025	0.00172	ug/L	69	(50-150)		
MS_201506100102	Perfluorotetradecanoic acid	ND	0.0025	0.00204	ug/L	81	(50-150)		
MSD_201506100102	Perfluorotetradecanoic acid	ND	0.0025	0.00219	ug/L	87	(50-150)	50	7.1
LCS1	Perfluorotridecanoic acid		0.025	0.0223	ug/L	89	(70-130)		
LCS2	Perfluorotridecanoic acid		0.025	0.0233	ug/L	93	(70-130)	30	4.4
MBLK	Perfluorotridecanoic acid			<0.00083	ug/L				
MRL_CHK	Perfluorotridecanoic acid		0.0025	0.00195	ug/L	78	(50-150)		
MS_201506100102	Perfluorotridecanoic acid	ND	0.0025	0.00203	ug/L	81	(50-150)		
MSD_201506100102	Perfluorotridecanoic acid	ND	0.0025	0.00206	ug/L	82	(50-150)	50	1.5
LCS1	Perfluoroundecanoic acid		0.025	0.0218	ug/L	87	(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).
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Aqua Pennsylvania, Inc.

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
LCS2	Perfluoroundecanoic acid		0.025	0.0234	ug/L	94	(70-130)	30	7.1
MBLK	Perfluoroundecanoic acid			<0.00083	ug/L				
MRL_CHK	Perfluoroundecanoic acid		0.0025	0.00204	ug/L	81	(50-150)		
MS_201506100102	Perfluoroundecanoic acid	ND	0.0025	0.00189	ug/L	75	(50-150)		
MSD_201506100102	Perfluoroundecanoic acid	ND	0.0025	0.00220	ug/L	88	(50-150)	50	15

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.