Maxxam
A Bureau Veritas Group Company

Your Project #: PFC
Site Location: BFTA
Your C.O.C. #: 607049-06-01

Attention:Tom Cambareri

Cape Cod Comission
Cape Cod Commission
3225 Main Street
Barnstable, MA
USA 02630

Report Date: 2017/05/23
Report #: R4476950
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B791920
Received: 2017/05/05, 17:40

Sample Matrix: Water
Samples Received: 17

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
PFOS and PFOA in water	17	2017/05/10	2017/05/13	CAM SOP-00894	EPA 537 m

Remarks:

Maxxam Analytics' laboratories are accredited to ISO/IEC 17025:2005 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Maxxam are based upon recognized Provincial, Federal or US method compendia such as CCME, MDDELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Maxxam's profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Maxxam in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported: unless indicated otherwise, associated sample data are not blank corrected.

Maxxam Analytics' liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Maxxam has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Maxxam, unless otherwise agreed in writing.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key

Stephanie Pollen
Project Manager
23 May 2017 14:24:02

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Stephanie Pollen, Project Manager
Email: SPollen@maxxam.ca
Phone# (905) 817-5700
==========
Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Maxxam Analytics International Corporation o/a Maxxam Analytics 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.maxxam.ca

Maxxam Job #: B791920
Report Date: 2017/05/23

Cape Cod Comission
Client Project #: PFC
Site Location: BFTA

RESULTS OF ANALYSES OF WATER

Maxxam ID		EIJ319	EIJ320			EIJ321	EIJ322			
Sampling Date		2017/04/28 09:40	2017/04/28 09:40			2017/04/28 12:00	2017/04/28 12:00			
COC Number		607049-06-01	607049-06-01			607049-06-01	607049-06-01			
	UNITS	**PC-35D**	**PC-34D**	**RDL**	**MDL**	**PC-15**	**PC-10**	**RDL**	**MDL**	**QC Batch**
Miscellaneous Parameters										
6:2 Fluorotelomer sulfonate	ug/L	0.056	0.14	0.020	0.0032	0.27	0.15	0.020	0.0032	4977269
8:2 Fluorotelomer sulfonate	ug/L	0.016	0.0087	0.020	0.0036	0.034	0.0071	0.020	0.0036	4977269
N-ethylperfluorooctane sulfonamide	ug/L	<0.0058	<0.0058	0.020	0.0058	<0.0058	<0.0058	0.020	0.0058	4977269
N-ethylperfluorooctane sulfonamidoe	ug/L	<0.0063	<0.0063	0.020	0.0063	<0.0063	<0.0063	0.020	0.0063	4977269
N-methylperfluorooctane sulfonamide	ug/L	<0.0041	<0.0041	0.020	0.0041	<0.0041	<0.0041	0.020	0.0041	4977269
N-methylperfluorooctanesulfonamidol	ug/L	<0.0043	<0.0043	0.020	0.0043	<0.0043	<0.0043	0.020	0.0043	4977269
Perfluorobutane Sulfonate (PFBS)	ug/L	0.051	0.083	0.020	0.0048	0.027	0.035	0.020	0.0048	4977269
Perfluorobutanoic acid	ug/L	0.052	0.065	0.020	0.0066	0.036	0.044	0.020	0.0066	4977269
Perfluorodecane Sulfonate	ug/L	<0.0046	<0.0046	0.020	0.0046	<0.0046	<0.0046	0.020	0.0046	4977269
Perfluorodecanoic Acid (PFDA)	ug/L	0.013	0.013	0.020	0.0040	0.0093	0.0084	0.020	0.0040	4977269
Perfluorododecanoic Acid (PFDoA)	ug/L	<0.0028	<0.0028	0.020	0.0028	<0.0028	<0.0028	0.020	0.0028	4977269
Perfluoroheptane sulfonate	ug/L	0.045	0.064	0.020	0.0048	0.019	0.024	0.020	0.0048	4977269
Perfluoroheptanoic Acid (PFHpA)	ug/L	0.097	0.14	0.020	0.0033	0.059	0.075	0.020	0.0033	4977269
Perfluorohexane Sulfonate (PFHxS)	ug/L	0.38	0.53	0.020	0.0034	0.35	0.35	0.020	0.0034	4977269
Perfluorohexanoic Acid (PFHxA)	ug/L	0.28	0.35	0.020	0.0029	0.13	0.18	0.020	0.0029	4977269
Perfluoro-n-Octanoic Acid (PFOA)	ug/L	0.097	0.13	0.020	0.0046	0.080	0.067	0.020	0.0046	4977269
Perfluorononanoic Acid (PFNA)	ug/L	0.076	0.14	0.020	0.0046	0.053	0.049	0.020	0.0046	4977269
Perfluorooctane Sulfonamide (PFOSA)	ug/L	<0.0036	<0.0036	0.020	0.0036	0.052	0.018	0.020	0.0036	4977269
Perfluorooctane Sulfonate (PFOS)	ug/L	1.7 (1)	1.5 (1)	0.20	0.026	0.78	0.56	0.020	0.0026	4977269
Perfluoropentanoic Acid (PFPeA)	ug/L	0.19	0.23	0.020	0.0027	0.12	0.17	0.020	0.0027	4977269
Perfluorotetradecanoic Acid	ug/L	<0.0038	<0.0038	0.020	0.0038	<0.0038	<0.0038	0.020	0.0038	4977269
Perfluorotridecanoic Acid	ug/L	<0.0033	<0.0033	0.020	0.0033	<0.0033	<0.0033	0.020	0.0033	4977269
Perfluoroundecanoic Acid (PFUnA)	ug/L	<0.0043	<0.0043	0.020	0.0043	0.011	0.0089	0.020	0.0043	4977269
Surrogate Recovery (%)										
13C4-Perfluorooctanesulfonate	%	89	87	N/A	N/A	93	106	N/A	N/A	4977269
13C4-Perfluorooctanoic acid	%	78	98	N/A	N/A	94	92	N/A	N/A	4977269
13C8-Perfluorooctane Sulfonamide	%	75	89	N/A	N/A	84	87	N/A	N/A	4977269

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable
(1) Due to high concentrations of the target analyte, sample required 10x dilution. Detection limit was adjusted accordingly.

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Maxxam Job #: B791920
Report Date: 2017/05/23

Cape Cod Comission
Client Project #: PFC
Site Location: BFTA

RESULTS OF ANALYSES OF WATER

Maxxam ID		EIJ323			EIJ324			
Sampling Date		2017/04/28 12:50			2017/04/28 12:50			
COC Number		607049-06-01			607049-06-01			
	UNITS	PC-9	RDL	MDL	PC-14	RDL	MDL	QC Batch
Miscellaneous Parameters								
6:2 Fluorotelomer sulfonate	ug/L	0.066	0.020	0.0032	0.29	0.020	0.0032	4977269
8:2 Fluorotelomer sulfonate	ug/L	<0.0036	0.020	0.0036	0.022	0.020	0.0036	4977269
N-ethylperfluorooctane sulfonamide	ug/L	<0.0058	0.020	0.0058	<0.0058	0.020	0.0058	4977269
N-ethylperfluorooctane sulfonamidoe	ug/L	<0.0063	0.020	0.0063	<0.0063	0.020	0.0063	4977269
N-methylperfluorooctane sulfonamide	ug/L	<0.0041	0.020	0.0041	<0.0041	0.020	0.0041	4977269
N-methylperfluorooctanesulfonamidol	ug/L	<0.0043	0.020	0.0043	<0.0043	0.020	0.0043	4977269
Perfluorobutane Sulfonate (PFBS)	ug/L	0.022	0.020	0.0048	0.084	0.020	0.0048	4977269
Perfluorobutanoic acid	ug/L	0.029	0.020	0.0066	0.11	0.020	0.0066	4977269
Perfluorodecane Sulfonate	ug/L	<0.0046	0.020	0.0046	<0.0046	0.020	0.0046	4977269
Perfluorodecanoic Acid (PFDA)	ug/L	0.0075	0.020	0.0040	0.011	0.020	0.0040	4977269
Perfluorododecanoic Acid (PFDoA)	ug/L	<0.0028	0.020	0.0028	<0.0028	0.020	0.0028	4977269
Perfluoroheptane sulfonate	ug/L	0.017	0.020	0.0048	0.068	0.020	0.0048	4977269
Perfluoroheptanoic Acid (PFHpA)	ug/L	0.065	0.020	0.0033	0.17	0.020	0.0033	4977269
Perfluorohexane Sulfonate (PFHxS)	ug/L	0.13	0.020	0.0034	0.83	0.020	0.0034	4977269
Perfluorohexanoic Acid (PFHxA)	ug/L	0.11	0.020	0.0029	0.45	0.020	0.0029	4977269
Perfluoro-n-Octanoic Acid (PFOA)	ug/L	0.031	0.020	0.0046	0.16	0.020	0.0046	4977269
Perfluorononanoic Acid (PFNA)	ug/L	0.037	0.020	0.0046	0.13	0.020	0.0046	4977269
Perfluorooctane Sulfonamide (PFOSA)	ug/L	0.022	0.020	0.0036	0.024	0.020	0.0036	4977269
Perfluorooctane Sulfonate (PFOS)	ug/L	0.28	0.020	0.0026	1.6 (1)	0.20	0.026	4977269
Perfluoropentanoic Acid (PFPeA)	ug/L	0.098	0.020	0.0027	0.49	0.020	0.0027	4977269
Perfluorotetradecanoic Acid	ug/L	<0.0038	0.020	0.0038	<0.0038	0.020	0.0038	4977269
Perfluorotridecanoic Acid	ug/L	<0.0033	0.020	0.0033	<0.0033	0.020	0.0033	4977269
Perfluoroundecanoic Acid (PFUnA)	ug/L	0.080	0.020	0.0043	0.015	0.020	0.0043	4977269
Surrogate Recovery (%)								
13C4-Perfluorooctanesulfonate	%	75	N/A	N/A	77	N/A	N/A	4977269
13C4-Perfluorooctanoic acid	%	78	N/A	N/A	68 (2)	N/A	N/A	4977269

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

N/A = Not Applicable

(1) Due to high concentrations of the target analyte, sample required 10x dilution. Detection limit was adjusted accordingly.

(2) Surrogate recovery was below the defined lower control limit (LCL). Laboratory spiked water resulted in satisfactory recovery of the surrogate. When considered together, these QC data suggest that matrix interferences may be biasing the data low. Because quantitation is performed using isotope dilution techniques, any losses of the native compound that may occur during any of the sample preparation, extraction, cleanup or determinative steps will be mirrored by a similar loss of the labeled standard, and as such can be accounted for and corrected. Therefore, the quantification of these target compounds is not affected by the low surrogate recovery.

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Maxxam Job #: B791920
Report Date: 2017/05/23

Cape Cod Comission
Client Project #: PFC
Site Location: BFTA

RESULTS OF ANALYSES OF WATER

Maxxam ID		EIJ323			EIJ324			
Sampling Date		2017/04/28 12:50			2017/04/28 12:50			
COC Number		607049-06-01			607049-06-01			
	UNITS	**PC-9**	**RDL**	**MDL**	**PC-14**	**RDL**	**MDL**	**QC Batch**
13C8-Perfluorooctane Sulfonamide	%	65	N/A	N/A	59 (1)	N/A	N/A	4977269

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable
(1) Surrogate recovery was below the defined lower control limit (LCL). Laboratory spiked water resulted in satisfactory recovery of the surrogate. When considered together, these QC data suggest that matrix interferences may be biasing the data low. Because quantitation is performed using isotope dilution techniques, any losses of the native compound that may occur during any of the sample preparation, extraction, cleanup or determinative steps will be mirrored by a similar loss of the labeled standard, and as such can be accounted for and corrected. Therefore, the quantification of these target compounds is not affected by the low surrogate recovery.

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Maxxam Job #: B791920
Report Date: 2017/05/23

Cape Cod Comission
Client Project #: PFC
Site Location: BFTA

RESULTS OF ANALYSES OF WATER

Maxxam ID		EIJ325	EIJ326			EIJ327			
Sampling Date		2017/04/28 13:45	2017/04/28 13:45			2017/04/28 14:40			
COC Number		607049-06-01	607049-06-01			607049-06-01			
	UNITS	**PC-28**	**PC-29**	**RDL**	**MDL**	**PC-22**	**RDL**	**MDL**	**QC Batch**
Miscellaneous Parameters									
6:2 Fluorotelomer sulfonate	ug/L	0.079	<0.0032	0.020	0.0032	0.26	0.020	0.0032	4977234
8:2 Fluorotelomer sulfonate	ug/L	0.025	<0.0036	0.020	0.0036	0.035	0.020	0.0036	4977234
N-ethylperfluorooctane sulfonamide	ug/L	<0.0058	<0.0058	0.020	0.0058	<0.0058	0.020	0.0058	4977234
N-ethylperfluorooctane sulfonamidoe	ug/L	<0.0063	<0.0063	0.020	0.0063	<0.0063	0.020	0.0063	4977234
N-methylperfluorooctane sulfonamide	ug/L	<0.0041	<0.0041	0.020	0.0041	<0.0041	0.020	0.0041	4977234
N-methylperfluorooctanesulfonamidol	ug/L	<0.0043	<0.0043	0.020	0.0043	<0.0043	0.020	0.0043	4977234
Perfluorobutane Sulfonate (PFBS)	ug/L	0.047	<0.0048	0.020	0.0048	0.097	0.020	0.0048	4977234
Perfluorobutanoic acid	ug/L	0.045	<0.0066	0.020	0.0066	0.099	0.020	0.0066	4977234
Perfluorodecane Sulfonate	ug/L	<0.0046	<0.0046	0.020	0.0046	<0.0046	0.020	0.0046	4977234
Perfluorodecanoic Acid (PFDA)	ug/L	0.010	<0.0040	0.020	0.0040	0.010	0.020	0.0040	4977234
Perfluorododecanoic Acid (PFDoA)	ug/L	<0.0028	<0.0028	0.020	0.0028	<0.0028	0.020	0.0028	4977234
Perfluoroheptane sulfonate	ug/L	0.033	<0.0048	0.020	0.0048	0.072	0.020	0.0048	4977234
Perfluoroheptanoic Acid (PFHpA)	ug/L	0.11	0.0070	0.020	0.0033	0.17	0.020	0.0033	4977234
Perfluorohexane Sulfonate (PFHxS)	ug/L	0.32	<0.0034	0.020	0.0034	0.93	0.020	0.0034	4977234
Perfluorohexanoic Acid (PFHxA)	ug/L	0.20	0.0063	0.020	0.0029	0.36	0.020	0.0029	4977234
Perfluoro-n-Octanoic Acid (PFOA)	ug/L	0.061	<0.0046	0.020	0.0046	0.17	0.020	0.0046	4977234
Perfluorononanoic Acid (PFNA)	ug/L	0.057	<0.0046	0.020	0.0046	0.083	0.020	0.0046	4977234
Perfluorooctane Sulfonamide (PFOSA)	ug/L	0.028	<0.0036	0.020	0.0036	0.031	0.020	0.0036	4977234
Perfluorooctane Sulfonate (PFOS)	ug/L	0.77	0.013	0.020	0.0026	1.4 (1)	0.20	0.026	4977234
Perfluoropentanoic Acid (PFPeA)	ug/L	0.15	0.0060	0.020	0.0027	0.37	0.020	0.0027	4977234
Perfluorotetradecanoic Acid	ug/L	<0.0038	<0.0038	0.020	0.0038	<0.0038	0.020	0.0038	4977234
Perfluorotridecanoic Acid	ug/L	<0.0033	<0.0033	0.020	0.0033	<0.0033	0.020	0.0033	4977234
Perfluoroundecanoic Acid (PFUnA)	ug/L	0.029	<0.0043	0.020	0.0043	0.022	0.020	0.0043	4977234
Surrogate Recovery (%)									
13C4-Perfluorooctanesulfonate	%	89	97	N/A	N/A	90	N/A	N/A	4977234
13C4-Perfluorooctanoic acid	%	93	97	N/A	N/A	83	N/A	N/A	4977234
13C8-Perfluorooctane Sulfonamide	%	83	82	N/A	N/A	81	N/A	N/A	4977234

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable
(1) Due to high concentration of the target analyte, sample required 10x dilution. Detection limit was adjusted accordingly.

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Maxxam Job #: B791920
Report Date: 2017/05/23

Cape Cod Comission
Client Project #: PFC
Site Location: BFTA

RESULTS OF ANALYSES OF WATER

Maxxam ID		EIJ328	EIJ329	EIJ330	EIJ331	EIJ332			
Sampling Date		2017/04/28 14:40	2017/05/03 10:35	2017/05/03 12:10	2017/05/03 12:40	2017/05/03 15:45			
COC Number		607049-06-01	607049-06-01	607049-06-01	607049-06-01	607049-06-01			
	UNITS	PC-24	MW-32	HW-1D	HW-25	MW-35I	RDL	MDL	QC Batch
Miscellaneous Parameters									
6:2 Fluorotelomer sulfonate	ug/L	0.051	<0.0032	<0.0032	<0.0032	<0.0032	0.020	0.0032	4977234
8:2 Fluorotelomer sulfonate	ug/L	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	0.020	0.0036	4977234
N-ethylperfluorooctane sulfonamide	ug/L	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	0.020	0.0058	4977234
N-ethylperfluorooctane sulfonamidoe	ug/L	<0.0063	<0.0063	<0.0063	<0.0063	<0.0063	0.020	0.0063	4977234
N-methylperfluorooctane sulfonamide	ug/L	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	0.020	0.0041	4977234
N-methylperfluorooctanesulfonamidol	ug/L	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	0.020	0.0043	4977234
Perfluorobutane Sulfonate (PFBS)	ug/L	0.026	<0.0048	<0.0048	<0.0048	<0.0048	0.020	0.0048	4977234
Perfluorobutanoic acid	ug/L	0.032	0.0091	<0.0066	<0.0066	0.012	0.020	0.0066	4977234
Perfluorodecane Sulfonate	ug/L	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	0.020	0.0046	4977234
Perfluorodecanoic Acid (PFDA)	ug/L	0.0060	<0.0040	<0.0040	<0.0040	<0.0040	0.020	0.0040	4977234
Perfluorododecanoic Acid (PFDoA)	ug/L	<0.0028	<0.0028	<0.0028	<0.0028	<0.0028	0.020	0.0028	4977234
Perfluoroheptane sulfonate	ug/L	0.018	<0.0048	<0.0048	<0.0048	<0.0048	0.020	0.0048	4977234
Perfluoroheptanoic Acid (PFHpA)	ug/L	0.062	0.020	0.0067	0.013	0.015	0.020	0.0033	4977234
Perfluorohexane Sulfonate (PFHxS)	ug/L	0.23	0.13	<0.0034	0.031	0.042	0.020	0.0034	4977234
Perfluorohexanoic Acid (PFHxA)	ug/L	0.11	0.033	0.0085	0.014	0.025	0.020	0.0029	4977234
Perfluoro-n-Octanoic Acid (PFOA)	ug/L	0.033	0.036	0.0080	0.0082	0.014	0.020	0.0046	4977234
Perfluorononanoic Acid (PFNA)	ug/L	0.022	0.0076	0.0079	0.019	0.0080	0.020	0.0046	4977234
Perfluorooctane Sulfonamide (PFOSA)	ug/L	0.0090	0.0083	<0.0036	<0.0036	<0.0036	0.020	0.0036	4977234
Perfluorooctane Sulfonate (PFOS)	ug/L	0.32	0.24	0.025	0.15	0.042	0.020	0.0026	4977234
Perfluoropentanoic Acid (PFPeA)	ug/L	0.11	0.022	0.0073	0.010	0.028	0.020	0.0027	4977234
Perfluorotetradecanoic Acid	ug/L	<0.0038	<0.0038	<0.0038	<0.0038	<0.0038	0.020	0.0038	4977234
Perfluorotridecanoic Acid	ug/L	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	0.020	0.0033	4977234
Perfluoroundecanoic Acid (PFUnA)	ug/L	0.023	<0.0043	<0.0043	<0.0043	<0.0043	0.020	0.0043	4977234
Surrogate Recovery (%)									
13C4-Perfluorooctanesulfonate	%	86	87	86	85	86	N/A	N/A	4977234
13C4-Perfluorooctanoic acid	%	89	89	90	87	85	N/A	N/A	4977234
13C8-Perfluorooctane Sulfonamide	%	79	77	78	72	76	N/A	N/A	4977234

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable

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Maxxam Job #: B791920
Report Date: 2017/05/23

Cape Cod Comission
Client Project #: PFC
Site Location: BFTA

RESULTS OF ANALYSES OF WATER

Maxxam ID		EIJ333			EIJ334			EIJ335			
Sampling Date		2017/05/03 12:20			2017/05/03 16:30			2017/05/03 16:30			
COC Number		607049-06-01			607049-06-01			607049-06-01			
	UNITS	**POND MD**	**RDL**	**MDL**	**INFLUENT**	**RDL**	**MDL**	**EFFLUENT**	**RDL**	**MDL**	**QC Batch**
Miscellaneous Parameters											
6:2 Fluorotelomer sulfonate	ug/L	<0.0032	0.020	0.0032	0.27	0.020	0.0032	<0.0032	0.020	0.0032	4977234
8:2 Fluorotelomer sulfonate	ug/L	<0.0036	0.020	0.0036	0.073	0.020	0.0036	<0.0036	0.020	0.0036	4977234
N-ethylperfluorooctane sulfonamide	ug/L	<0.0058	0.020	0.0058	<0.0058	0.020	0.0058	<0.0058	0.020	0.0058	4977234
N-ethylperfluorooctane sulfonamidoe	ug/L	<0.0063	0.020	0.0063	<0.0063	0.020	0.0063	<0.0063	0.020	0.0063	4977234
N-methylperfluorooctane sulfonamide	ug/L	<0.0041	0.020	0.0041	<0.0041	0.020	0.0041	<0.0041	0.020	0.0041	4977234
N-methylperfluorooctanesulfonamidol	ug/L	<0.0043	0.020	0.0043	<0.0043	0.020	0.0043	<0.0043	0.020	0.0043	4977234
Perfluorobutane Sulfonate (PFBS)	ug/L	<0.0048	0.020	0.0048	0.042	0.020	0.0048	<0.0048	0.020	0.0048	4977234
Perfluorobutanoic acid	ug/L	<0.0066	0.020	0.0066	0.057	0.020	0.0066	<0.0066	0.020	0.0066	4977234
Perfluorodecane Sulfonate	ug/L	<0.0046	0.020	0.0046	<0.0046	0.020	0.0046	<0.0046	0.020	0.0046	4977234
Perfluorodecanoic Acid (PFDA)	ug/L	<0.0040	0.020	0.0040	0.0096	0.020	0.0040	<0.0040	0.020	0.0040	4977234
Perfluorododecanoic Acid (PFDoA)	ug/L	<0.0028	0.020	0.0028	<0.0028	0.020	0.0028	<0.0028	0.020	0.0028	4977234
Perfluoroheptane sulfonate	ug/L	<0.0048	0.020	0.0048	0.052	0.020	0.0048	<0.0048	0.020	0.0048	4977234
Perfluoroheptanoic Acid (PFHpA)	ug/L	0.020	0.020	0.0033	0.098	0.020	0.0033	<0.0033	0.020	0.0033	4977234
Perfluorohexane Sulfonate (PFHxS)	ug/L	0.032	0.020	0.0034	0.54	0.020	0.0034	<0.0034	0.020	0.0034	4977234
Perfluorohexanoic Acid (PFHxA)	ug/L	0.018	0.020	0.0029	0.24	0.020	0.0029	<0.0029	0.020	0.0029	4977234
Perfluoro-n-Octanoic Acid (PFOA)	ug/L	0.011	0.020	0.0046	0.086	0.020	0.0046	<0.0046	0.020	0.0046	4977234
Perfluorononanoic Acid (PFNA)	ug/L	0.015	0.020	0.0046	0.062	0.020	0.0046	<0.0046	0.020	0.0046	4977234
Perfluorooctane Sulfonamide (PFOSA)	ug/L	<0.0036	0.020	0.0036	0.0097	0.020	0.0036	<0.0036	0.020	0.0036	4977234
Perfluorooctane Sulfonate (PFOS)	ug/L	0.15	0.020	0.0026	2.4 (1)	0.20	0.026	<0.0026	0.020	0.0026	4977234
Perfluoropentanoic Acid (PFPeA)	ug/L	0.016	0.020	0.0027	0.21	0.020	0.0027	<0.0027	0.020	0.0027	4977234
Perfluorotetradecanoic Acid	ug/L	<0.0038	0.020	0.0038	<0.0038	0.020	0.0038	<0.0038	0.020	0.0038	4977234
Perfluorotridecanoic Acid	ug/L	<0.0033	0.020	0.0033	<0.0033	0.020	0.0033	<0.0033	0.020	0.0033	4977234
Perfluoroundecanoic Acid (PFUnA)	ug/L	<0.0043	0.020	0.0043	0.039	0.020	0.0043	<0.0043	0.020	0.0043	4977234
Surrogate Recovery (%)											
13C4-Perfluorooctanesulfonate	%	78	N/A	N/A	92	N/A	N/A	94	N/A	N/A	4977234
13C4-Perfluorooctanoic acid	%	82	N/A	N/A	91	N/A	N/A	90	N/A	N/A	4977234
13C8-Perfluorooctane Sulfonamide	%	66	N/A	N/A	79	N/A	N/A	80	N/A	N/A	4977234

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
N/A = Not Applicable
(1) Due to high concentration of the target analyte, sample required 10x dilution. Detection limit was adjusted accordingly.

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Maxxam Job #: B791920
Report Date: 2017/05/23

Cape Cod Comission
Client Project #: PFC
Site Location: BFTA

TEST SUMMARY

Maxxam ID: EIJ319 **Collected:** 2017/04/28
Sample ID: PC-35D **Shipped:**
Matrix: Water **Received:** 2017/05/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
PFOS and PFOA in water	LCMS	4977269	2017/05/10	2017/05/13	Anjan Desai

Maxxam ID: EIJ320 **Collected:** 2017/04/28
Sample ID: PC-34D **Shipped:**
Matrix: Water **Received:** 2017/05/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
PFOS and PFOA in water	LCMS	4977269	2017/05/10	2017/05/13	Anjan Desai

Maxxam ID: EIJ321 **Collected:** 2017/04/28
Sample ID: PC-15 **Shipped:**
Matrix: Water **Received:** 2017/05/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
PFOS and PFOA in water	LCMS	4977269	2017/05/10	2017/05/13	Anjan Desai

Maxxam ID: EIJ322 **Collected:** 2017/04/28
Sample ID: PC-10 **Shipped:**
Matrix: Water **Received:** 2017/05/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
PFOS and PFOA in water	LCMS	4977269	2017/05/10	2017/05/13	Anjan Desai

Maxxam ID: EIJ323 **Collected:** 2017/04/28
Sample ID: PC-9 **Shipped:**
Matrix: Water **Received:** 2017/05/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
PFOS and PFOA in water	LCMS	4977269	2017/05/10	2017/05/13	Anjan Desai

Maxxam ID: EIJ324 **Collected:** 2017/04/28
Sample ID: PC-14 **Shipped:**
Matrix: Water **Received:** 2017/05/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
PFOS and PFOA in water	LCMS	4977269	2017/05/10	2017/05/13	Anjan Desai

Maxxam ID: EIJ325 **Collected:** 2017/04/28
Sample ID: PC-28 **Shipped:**
Matrix: Water **Received:** 2017/05/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
PFOS and PFOA in water	LCMS	4977234	2017/05/10	2017/05/13	Marian Godax

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Maxxam Job #: B791920
Report Date: 2017/05/23

Cape Cod Comission
Client Project #: PFC
Site Location: BFTA

TEST SUMMARY

Maxxam ID: EIJ326 **Collected:** 2017/04/28
Sample ID: PC-29 **Shipped:**
Matrix: Water **Received:** 2017/05/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
PFOS and PFOA in water	LCMS	4977234	2017/05/10	2017/05/13	Marian Godax

Maxxam ID: EIJ327 **Collected:** 2017/04/28
Sample ID: PC-22 **Shipped:**
Matrix: Water **Received:** 2017/05/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
PFOS and PFOA in water	LCMS	4977234	2017/05/10	2017/05/13	Marian Godax

Maxxam ID: EIJ328 **Collected:** 2017/04/28
Sample ID: PC-24 **Shipped:**
Matrix: Water **Received:** 2017/05/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
PFOS and PFOA in water	LCMS	4977234	2017/05/10	2017/05/13	Marian Godax

Maxxam ID: EIJ329 **Collected:** 2017/05/03
Sample ID: MW-32 **Shipped:**
Matrix: Water **Received:** 2017/05/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
PFOS and PFOA in water	LCMS	4977234	2017/05/10	2017/05/13	Marian Godax

Maxxam ID: EIJ330 **Collected:** 2017/05/03
Sample ID: HW-1D **Shipped:**
Matrix: Water **Received:** 2017/05/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
PFOS and PFOA in water	LCMS	4977234	2017/05/10	2017/05/13	Marian Godax

Maxxam ID: EIJ331 **Collected:** 2017/05/03
Sample ID: HW-25 **Shipped:**
Matrix: Water **Received:** 2017/05/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
PFOS and PFOA in water	LCMS	4977234	2017/05/10	2017/05/13	Marian Godax

Maxxam ID: EIJ332 **Collected:** 2017/05/03
Sample ID: MW-35I **Shipped:**
Matrix: Water **Received:** 2017/05/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
PFOS and PFOA in water	LCMS	4977234	2017/05/10	2017/05/13	Marian Godax

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Maxxam Job #: B791920
Report Date: 2017/05/23

Cape Cod Comission
Client Project #: PFC
Site Location: BFTA

TEST SUMMARY

Maxxam ID: EIJ333
Sample ID: POND MD
Matrix: Water

Collected: 2017/05/03
Shipped:
Received: 2017/05/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
PFOS and PFOA in water	LCMS	4977234	2017/05/10	2017/05/13	Marian Godax

Maxxam ID: EIJ334
Sample ID: INFLUENT
Matrix: Water

Collected: 2017/05/03
Shipped:
Received: 2017/05/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
PFOS and PFOA in water	LCMS	4977234	2017/05/10	2017/05/13	Marian Godax

Maxxam ID: EIJ335
Sample ID: EFFLUENT
Matrix: Water

Collected: 2017/05/03
Shipped:
Received: 2017/05/05

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
PFOS and PFOA in water	LCMS	4977234	2017/05/10	2017/05/13	Marian Godax

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GENERAL COMMENTS

Results relate only to the items tested.

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Maxxam Job #: B791920
Report Date: 2017/05/23

Cape Cod Comission
Client Project #: PFC
Site Location: BFTA

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
4977234	M_G	Spiked Blank	13C4-Perfluorooctanesulfonate	2017/05/13		92	%	50 - 150
			13C4-Perfluorooctanoic acid	2017/05/13		84	%	50 - 150
			13C8-Perfluorooctane Sulfonamide	2017/05/13		74	%	50 - 150
			6:2 Fluorotelomer sulfonate	2017/05/13		98	%	70 - 130
			8:2 Fluorotelomer sulfonate	2017/05/13		108	%	70 - 130
			N-ethylperfluorooctane sulfonamide	2017/05/13		99	%	70 - 130
			N-ethylperfluorooctane sulfonamidoe	2017/05/13		94	%	70 - 130
			N-methylperfluorooctane sulfonamide	2017/05/13		112	%	70 - 130
			N-methylperfluorooctanesulfonamidol	2017/05/13		103	%	70 - 130
			Perfluorobutane Sulfonate (PFBS)	2017/05/13		116	%	70 - 130
			Perfluorobutanoic acid	2017/05/13		103	%	70 - 130
			Perfluorodecane Sulfonate	2017/05/13		93	%	70 - 130
			Perfluoroheptane sulfonate	2017/05/13		102	%	70 - 130
			Perfluoroheptanoic Acid (PFHpA)	2017/05/13		98	%	70 - 130
			Perfluorohexane Sulfonate (PFHxS)	2017/05/13		103	%	70 - 130
			Perfluorohexanoic Acid (PFHxA)	2017/05/13		98	%	70 - 130
			Perfluorononanoic Acid (PFNA)	2017/05/13		103	%	70 - 130
			Perfluorooctane Sulfonamide (PFOSA)	2017/05/13		103	%	70 - 130
			Perfluoropentanoic Acid (PFPeA)	2017/05/13		110	%	70 - 130
			Perfluorotetradecanoic Acid	2017/05/13		104	%	70 - 130
			Perfluorotridecanoic Acid	2017/05/13		101	%	70 - 130
			Perfluoroundecanoic Acid (PFUnA)	2017/05/13		93	%	70 - 130
			Perfluorodecanoic Acid (PFDA)	2017/05/13		93	%	70 - 130
			Perfluorododecanoic Acid (PFDoA)	2017/05/13		98	%	70 - 130
			Perfluoro-n-Octanoic Acid (PFOA)	2017/05/13		104	%	70 - 130
			Perfluorooctane Sulfonate (PFOS)	2017/05/13		94	%	70 - 130
4977234	M_G	Spiked Blank DUP	13C4-Perfluorooctanesulfonate	2017/05/13		94	%	50 - 150
			13C4-Perfluorooctanoic acid	2017/05/13		86	%	50 - 150
			13C8-Perfluorooctane Sulfonamide	2017/05/13		80	%	50 - 150
			6:2 Fluorotelomer sulfonate	2017/05/13		90	%	70 - 130
			8:2 Fluorotelomer sulfonate	2017/05/13		97	%	70 - 130
			N-ethylperfluorooctane sulfonamide	2017/05/13		97	%	70 - 130
			N-ethylperfluorooctane sulfonamidoe	2017/05/13		99	%	70 - 130
			N-methylperfluorooctane sulfonamide	2017/05/13		115	%	70 - 130
			N-methylperfluorooctanesulfonamidol	2017/05/13		119	%	70 - 130
			Perfluorobutane Sulfonate (PFBS)	2017/05/13		99	%	70 - 130
			Perfluorobutanoic acid	2017/05/13		97	%	70 - 130
			Perfluorodecane Sulfonate	2017/05/13		94	%	70 - 130
			Perfluoroheptane sulfonate	2017/05/13		98	%	70 - 130
			Perfluoroheptanoic Acid (PFHpA)	2017/05/13		97	%	70 - 130
			Perfluorohexane Sulfonate (PFHxS)	2017/05/13		95	%	70 - 130
			Perfluorohexanoic Acid (PFHxA)	2017/05/13		98	%	70 - 130
			Perfluorononanoic Acid (PFNA)	2017/05/13		100	%	70 - 130
			Perfluorooctane Sulfonamide (PFOSA)	2017/05/13		97	%	70 - 130
			Perfluoropentanoic Acid (PFPeA)	2017/05/13		99	%	70 - 130
			Perfluorotetradecanoic Acid	2017/05/13		102	%	70 - 130
			Perfluorotridecanoic Acid	2017/05/13		106	%	70 - 130
			Perfluoroundecanoic Acid (PFUnA)	2017/05/13		90	%	70 - 130
			Perfluorodecanoic Acid (PFDA)	2017/05/13		92	%	70 - 130
			Perfluorododecanoic Acid (PFDoA)	2017/05/13		101	%	70 - 130
			Perfluoro-n-Octanoic Acid (PFOA)	2017/05/13		97	%	70 - 130
			Perfluorooctane Sulfonate (PFOS)	2017/05/13		89	%	70 - 130
4977234	M_G	RPD	6:2 Fluorotelomer sulfonate	2017/05/13	8.2		%	30

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Maxxam Job #: B791920
Report Date: 2017/05/23

Cape Cod Comission
Client Project #: PFC
Site Location: BFTA

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
			8:2 Fluorotelomer sulfonate	2017/05/13	10		%	30
			N-ethylperfluorooctane sulfonamide	2017/05/13	1.9		%	30
			N-ethylperfluorooctane sulfonamidoe	2017/05/13	5.1		%	30
			N-methylperfluorooctane sulfonamide	2017/05/13	2.3		%	30
			N-methylperfluorooctanesulfonamidol	2017/05/13	14		%	30
			Perfluorobutane Sulfonate (PFBS)	2017/05/13	16		%	30
			Perfluorobutanoic acid	2017/05/13	6.5		%	30
			Perfluorodecane Sulfonate	2017/05/13	1.7		%	30
			Perfluoroheptane sulfonate	2017/05/13	3.5		%	30
			Perfluoroheptanoic Acid (PFHpA)	2017/05/13	1.3		%	30
			Perfluorohexane Sulfonate (PFHxS)	2017/05/13	8.4		%	30
			Perfluorohexanoic Acid (PFHxA)	2017/05/13	0.099		%	30
			Perfluorononanoic Acid (PFNA)	2017/05/13	2.5		%	30
			Perfluorooctane Sulfonamide (PFOSA)	2017/05/13	6.5		%	30
			Perfluoropentanoic Acid (PFPeA)	2017/05/13	10		%	30
			Perfluorotetradecanoic Acid	2017/05/13	1.3		%	30
			Perfluorotridecanoic Acid	2017/05/13	5.3		%	30
			Perfluoroundecanoic Acid (PFUnA)	2017/05/13	4.0		%	30
			Perfluorodecanoic Acid (PFDA)	2017/05/13	0.84		%	30
			Perfluorododecanoic Acid (PFDoA)	2017/05/13	3.1		%	30
			Perfluoro-n-Octanoic Acid (PFOA)	2017/05/13	7.3		%	30
			Perfluorooctane Sulfonate (PFOS)	2017/05/13	4.5		%	30
4977234	M_G	Method Blank	13C4-Perfluorooctanesulfonate	2017/05/13		88	%	50 - 150
			13C4-Perfluorooctanoic acid	2017/05/13		86	%	50 - 150
			13C8-Perfluorooctane Sulfonamide	2017/05/13		73	%	50 - 150
			6:2 Fluorotelomer sulfonate	2017/05/13	<0.0032		ug/L	
			8:2 Fluorotelomer sulfonate	2017/05/13	<0.0036		ug/L	
			N-ethylperfluorooctane sulfonamide	2017/05/13	<0.0058		ug/L	
			N-ethylperfluorooctane sulfonamidoe	2017/05/13	<0.0063		ug/L	
			N-methylperfluorooctane sulfonamide	2017/05/13	<0.0041		ug/L	
			N-methylperfluorooctanesulfonamidol	2017/05/13	<0.0043		ug/L	
			Perfluorobutane Sulfonate (PFBS)	2017/05/13	<0.0048		ug/L	
			Perfluorobutanoic acid	2017/05/13	<0.0066		ug/L	
			Perfluorodecane Sulfonate	2017/05/13	<0.0046		ug/L	
			Perfluoroheptane sulfonate	2017/05/13	<0.0048		ug/L	
			Perfluoroheptanoic Acid (PFHpA)	2017/05/13	<0.0033		ug/L	
			Perfluorohexane Sulfonate (PFHxS)	2017/05/13	<0.0034		ug/L	
			Perfluorohexanoic Acid (PFHxA)	2017/05/13	<0.0029		ug/L	
			Perfluorononanoic Acid (PFNA)	2017/05/13	<0.0046		ug/L	
			Perfluorooctane Sulfonamide (PFOSA)	2017/05/13	<0.0036		ug/L	
			Perfluoropentanoic Acid (PFPeA)	2017/05/13	<0.0027		ug/L	
			Perfluorotetradecanoic Acid	2017/05/13	<0.0038		ug/L	
			Perfluorotridecanoic Acid	2017/05/13	<0.0033		ug/L	
			Perfluoroundecanoic Acid (PFUnA)	2017/05/13	<0.0043		ug/L	
			Perfluorodecanoic Acid (PFDA)	2017/05/13	<0.0040		ug/L	
			Perfluorododecanoic Acid (PFDoA)	2017/05/13	<0.0028		ug/L	
			Perfluoro-n-Octanoic Acid (PFOA)	2017/05/13	<0.0046		ug/L	
			Perfluorooctane Sulfonate (PFOS)	2017/05/13	<0.0026		ug/L	
4977269	AD9	Matrix Spike	13C4-Perfluorooctanesulfonate	2017/05/13		131 (1)	%	50 - 150
			13C4-Perfluorooctanoic acid	2017/05/13		114	%	50 - 150
			13C8-Perfluorooctane Sulfonamide	2017/05/13		87	%	50 - 150
			6:2 Fluorotelomer sulfonate	2017/05/13		86	%	70 - 130
			8:2 Fluorotelomer sulfonate	2017/05/13		96	%	70 - 130

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Cape Cod Comission
Client Project #: PFC
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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
			N-ethylperfluorooctane sulfonamide	2017/05/13		86	%	70 - 130
			N-ethylperfluorooctane sulfonamidoe	2017/05/13		86	%	70 - 130
			N-methylperfluorooctane sulfonamide	2017/05/13		82	%	70 - 130
			N-methylperfluorooctanesulfonamidol	2017/05/13		81	%	70 - 130
			Perfluorobutane Sulfonate (PFBS)	2017/05/13		32 (2)	%	70 - 130
			Perfluorobutanoic acid	2017/05/13		91	%	70 - 130
			Perfluorodecane Sulfonate	2017/05/13		87	%	70 - 130
			Perfluoroheptane sulfonate	2017/05/13		98	%	70 - 130
			Perfluoroheptanoic Acid (PFHpA)	2017/05/13		79	%	70 - 130
			Perfluorohexane Sulfonate (PFHxS)	2017/05/13		82	%	70 - 130
			Perfluorohexanoic Acid (PFHxA)	2017/05/13		NC	%	70 - 130
			Perfluorononanoic Acid (PFNA)	2017/05/13		81	%	70 - 130
			Perfluorooctane Sulfonamide (PFOSA)	2017/05/13		83	%	70 - 130
			Perfluoropentanoic Acid (PFPeA)	2017/05/13		NC	%	70 - 130
			Perfluorotetradecanoic Acid	2017/05/13		90	%	70 - 130
			Perfluorotridecanoic Acid	2017/05/13		93	%	70 - 130
			Perfluoroundecanoic Acid (PFUnA)	2017/05/13		90	%	70 - 130
			Perfluorodecanoic Acid (PFDA)	2017/05/13		84	%	70 - 130
			Perfluorododecanoic Acid (PFDoA)	2017/05/13		95	%	70 - 130
			Perfluoro-n-Octanoic Acid (PFOA)	2017/05/13		86	%	70 - 130
			Perfluorooctane Sulfonate (PFOS)	2017/05/13		82	%	70 - 130
4977269	AD9	Matrix Spike DUP	13C4-Perfluorooctanesulfonate	2017/05/13		109	%	50 - 150
			13C4-Perfluorooctanoic acid	2017/05/13		103	%	50 - 150
			13C8-Perfluorooctane Sulfonamide	2017/05/13		87	%	50 - 150
			6:2 Fluorotelomer sulfonate	2017/05/13		85	%	70 - 130
			8:2 Fluorotelomer sulfonate	2017/05/13		95	%	70 - 130
			N-ethylperfluorooctane sulfonamide	2017/05/13		79	%	70 - 130
			N-ethylperfluorooctane sulfonamidoe	2017/05/13		96	%	70 - 130
			N-methylperfluorooctane sulfonamide	2017/05/13		77	%	70 - 130
			N-methylperfluorooctanesulfonamidol	2017/05/13		97	%	70 - 130
			Perfluorobutane Sulfonate (PFBS)	2017/05/13		94	%	70 - 130
			Perfluorobutanoic acid	2017/05/13		95	%	70 - 130
			Perfluorodecane Sulfonate	2017/05/13		85	%	70 - 130
			Perfluoroheptane sulfonate	2017/05/13		87	%	70 - 130
			Perfluoroheptanoic Acid (PFHpA)	2017/05/13		80	%	70 - 130
			Perfluorohexane Sulfonate (PFHxS)	2017/05/13		77	%	70 - 130
			Perfluorohexanoic Acid (PFHxA)	2017/05/13		NC	%	70 - 130
			Perfluorononanoic Acid (PFNA)	2017/05/13		83	%	70 - 130
			Perfluorooctane Sulfonamide (PFOSA)	2017/05/13		80	%	70 - 130
			Perfluoropentanoic Acid (PFPeA)	2017/05/13		NC	%	70 - 130
			Perfluorotetradecanoic Acid	2017/05/13		91	%	70 - 130
			Perfluorotridecanoic Acid	2017/05/13		89	%	70 - 130
			Perfluoroundecanoic Acid (PFUnA)	2017/05/13		88	%	70 - 130
			Perfluorodecanoic Acid (PFDA)	2017/05/13		84	%	70 - 130
			Perfluorododecanoic Acid (PFDoA)	2017/05/13		88	%	70 - 130
			Perfluoro-n-Octanoic Acid (PFOA)	2017/05/13		88	%	70 - 130
			Perfluorooctane Sulfonate (PFOS)	2017/05/13		79	%	70 - 130
4977269	AD9	MS/MSD RPD	6:2 Fluorotelomer sulfonate	2017/05/13	1.0		%	30
			8:2 Fluorotelomer sulfonate	2017/05/13	1.8		%	30
			N-ethylperfluorooctane sulfonamide	2017/05/13	8.7		%	30
			N-ethylperfluorooctane sulfonamidoe	2017/05/13	11		%	30
			N-methylperfluorooctane sulfonamide	2017/05/13	6.6		%	30
			N-methylperfluorooctanesulfonamidol	2017/05/13	18		%	30

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Report Date: 2017/05/23

Cape Cod Comission
Client Project #: PFC
Site Location: BFTA

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
			Perfluorobutane Sulfonate (PFBS)	2017/05/13	98 (3)		%	30
			Perfluorobutanoic acid	2017/05/13	3.9		%	30
			Perfluorodecane Sulfonate	2017/05/13	2.1		%	30
			Perfluoroheptane sulfonate	2017/05/13	11		%	30
			Perfluoroheptanoic Acid (PFHpA)	2017/05/13	1.7		%	30
			Perfluorohexane Sulfonate (PFHxS)	2017/05/13	6.7		%	30
			Perfluorohexanoic Acid (PFHxA)	2017/05/13	0		%	30
			Perfluorononanoic Acid (PFNA)	2017/05/13	2.4		%	30
			Perfluorooctane Sulfonamide (PFOSA)	2017/05/13	3.8		%	30
			Perfluoropentanoic Acid (PFPeA)	2017/05/13	0		%	30
			Perfluorotetradecanoic Acid	2017/05/13	1.9		%	30
			Perfluorotridecanoic Acid	2017/05/13	4.7		%	30
			Perfluoroundecanoic Acid (PFUnA)	2017/05/13	1.6		%	30
			Perfluorodecanoic Acid (PFDA)	2017/05/13	0.19		%	30
			Perfluorododecanoic Acid (PFDoA)	2017/05/13	8.2		%	30
			Perfluoro-n-Octanoic Acid (PFOA)	2017/05/13	1.5		%	30
			Perfluorooctane Sulfonate (PFOS)	2017/05/13	3.8		%	30
4977269	AD9	Spiked Blank	13C4-Perfluorooctanesulfonate	2017/05/13		93	%	50 - 150
			13C4-Perfluorooctanoic acid	2017/05/13		87	%	50 - 150
			13C8-Perfluorooctane Sulfonamide	2017/05/13		84	%	50 - 150
			6:2 Fluorotelomer sulfonate	2017/05/13		88	%	70 - 130
			8:2 Fluorotelomer sulfonate	2017/05/13		103	%	70 - 130
			N-ethylperfluorooctane sulfonamide	2017/05/13		82	%	70 - 130
			N-ethylperfluorooctane sulfonamidoe	2017/05/13		85	%	70 - 130
			N-methylperfluorooctane sulfonamide	2017/05/13		85	%	70 - 130
			N-methylperfluorooctanesulfonamidol	2017/05/13		88	%	70 - 130
			Perfluorobutane Sulfonate (PFBS)	2017/05/13		84	%	70 - 130
			Perfluorobutanoic acid	2017/05/13		90	%	70 - 130
			Perfluorodecane Sulfonate	2017/05/13		79	%	70 - 130
			Perfluoroheptane sulfonate	2017/05/13		78	%	70 - 130
			Perfluoroheptanoic Acid (PFHpA)	2017/05/13		85	%	70 - 130
			Perfluorohexane Sulfonate (PFHxS)	2017/05/13		80	%	70 - 130
			Perfluorohexanoic Acid (PFHxA)	2017/05/13		90	%	70 - 130
			Perfluorononanoic Acid (PFNA)	2017/05/13		84	%	70 - 130
			Perfluorooctane Sulfonamide (PFOSA)	2017/05/13		83	%	70 - 130
			Perfluoropentanoic Acid (PFPeA)	2017/05/13		85	%	70 - 130
			Perfluorotetradecanoic Acid	2017/05/13		87	%	70 - 130
			Perfluorotridecanoic Acid	2017/05/13		89	%	70 - 130
			Perfluoroundecanoic Acid (PFUnA)	2017/05/13		83	%	70 - 130
			Perfluorodecanoic Acid (PFDA)	2017/05/13		81	%	70 - 130
			Perfluorododecanoic Acid (PFDoA)	2017/05/13		91	%	70 - 130
			Perfluoro-n-Octanoic Acid (PFOA)	2017/05/13		88	%	70 - 130
			Perfluorooctane Sulfonate (PFOS)	2017/05/13		79	%	70 - 130
4977269	AD9	Method Blank	13C4-Perfluorooctanesulfonate	2017/05/13		88	%	50 - 150
			13C4-Perfluorooctanoic acid	2017/05/13		101	%	50 - 150
			13C8-Perfluorooctane Sulfonamide	2017/05/13		97	%	50 - 150
			6:2 Fluorotelomer sulfonate	2017/05/13	<0.0032		ug/L	
			8:2 Fluorotelomer sulfonate	2017/05/13	<0.0036		ug/L	
			N-ethylperfluorooctane sulfonamide	2017/05/13	<0.0058		ug/L	
			N-ethylperfluorooctane sulfonamidoe	2017/05/13	<0.0063		ug/L	
			N-methylperfluorooctane sulfonamide	2017/05/13	<0.0041		ug/L	
			N-methylperfluorooctanesulfonamidol	2017/05/13	<0.0043		ug/L	
			Perfluorobutane Sulfonate (PFBS)	2017/05/13	<0.0048		ug/L	

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
			Perfluorobutanoic acid	2017/05/13	<0.0066		ug/L	
			Perfluorodecane Sulfonate	2017/05/13	<0.0046		ug/L	
			Perfluoroheptane sulfonate	2017/05/13	<0.0048		ug/L	
			Perfluoroheptanoic Acid (PFHpA)	2017/05/13	<0.0033		ug/L	
			Perfluorohexane Sulfonate (PFHxS)	2017/05/13	<0.0034		ug/L	
			Perfluorohexanoic Acid (PFHxA)	2017/05/13	<0.0029		ug/L	
			Perfluorononanoic Acid (PFNA)	2017/05/13	<0.0046		ug/L	
			Perfluorooctane Sulfonamide (PFOSA)	2017/05/13	<0.0036		ug/L	
			Perfluoropentanoic Acid (PFPeA)	2017/05/13	<0.0027		ug/L	
			Perfluorotetradecanoic Acid	2017/05/13	<0.0038		ug/L	
			Perfluorotridecanoic Acid	2017/05/13	<0.0033		ug/L	
			Perfluoroundecanoic Acid (PFUnA)	2017/05/13	<0.0043		ug/L	
			Perfluorodecanoic Acid (PFDA)	2017/05/13	<0.0040		ug/L	
			Perfluorododecanoic Acid (PFDoA)	2017/05/13	<0.0028		ug/L	
			Perfluoro-n-Octanoic Acid (PFOA)	2017/05/13	<0.0046		ug/L	
			Perfluorooctane Sulfonate (PFOS)	2017/05/13	<0.0026		ug/L	

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

(1) Surrogate recovery was above the defined upper control limit (UCL). Laboratory spiked water resulted in satisfactory recovery of the surrogate. When considered together, these QC data suggest that matrix interferences may be biasing the data high. Because quantitation is performed using isotope dilution techniques, any apparent gains of the native compound that may occur during any of the sample preparation, extraction, cleanup or determinative steps will be mirrored by a similar gain of the labeled standard, and as such can be accounted for and corrected. Therefore, the quantification of these target compounds is not affected by the high surrogate recovery.

(2) Recovery of the matrix spike was below the lower control limit. Laboratory spiked water resulted in satisfactory recovery of the compound of interest. When considered together, these QC data suggest that matrix interferences may be biasing the data low.

(3) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

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VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Colm McNamara, Senior Analyst, Liquid Chromatography

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

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