Maxxam
A Bureau Veritas Group Company

Your Project #: PFC
Site Location: BFTA
Your C.O.C. #: 607049-05-01

Attention:Tom Cambareri

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

Report Date: 2017/09/05
Report #: R4687365
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B7I7257
Received: 2017/08/29, 14:18

Sample Matrix: Water
Samples Received: 2

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
PFOS and PFOA in water by SPE/LCMS (1)	2	2017/08/30	2017/09/01	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.

(1) Per- and polyfluoroalkyl substances (PFAS) identified as surrogates on the certificate of analysis represent the extracted internal standard.

Encryption Key

Stephanie Pollen
Project Manager
05 Sep 2017 14:06:07

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

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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 #: B7I7257
Report Date: 2017/09/05

Cape Cod Comission
Client Project #: PFC
Site Location: BFTA
Sampler Initials: SM

RESULTS OF ANALYSES OF WATER

Maxxam ID		FAL179			FAL180			
Sampling Date		2017/08/28 13:20			2017/08/28 13:20			
COC Number		607049-05-01			607049-05-01			
	UNITS	**INFLUENT PRW-4**	**RDL**	**MDL**	**MID POINT**	**RDL**	**MDL**	**QC Batch**
Miscellaneous Parameters								
6:2 Fluorotelomer sulfonate	ug/L	0.43	0.020	0.0032	<0.020	0.020	0.0032	5143385
8:2 Fluorotelomer sulfonate	ug/L	0.12	0.020	0.0036	<0.020	0.020	0.0036	5143385
N-ethylperfluorooctane sulfonamide	ug/L	<0.020	0.020	0.0058	<0.020	0.020	0.0058	5143385
N-ethylperfluorooctane sulfonamidoe	ug/L	<0.020	0.020	0.0063	<0.020	0.020	0.0063	5143385
N-methylperfluorooctane sulfonamide	ug/L	<0.020	0.020	0.0041	<0.020	0.020	0.0041	5143385
N-methylperfluorooctanesulfonamidol	ug/L	<0.020	0.020	0.0043	<0.020	0.020	0.0043	5143385
Perfluorobutane Sulfonate (PFBS)	ug/L	0.042	0.020	0.0048	<0.020	0.020	0.0048	5143385
Perfluorobutanoic acid	ug/L	0.058	0.020	0.0043	<0.020	0.020	0.0043	5143385
Perfluorodecane Sulfonate	ug/L	<0.020	0.020	0.0046	<0.020	0.020	0.0046	5143385
Perfluorodecanoic Acid (PFDA)	ug/L	<0.020	0.020	0.0040	<0.020	0.020	0.0040	5143385
Perfluorododecanoic Acid (PFDoA)	ug/L	<0.020	0.020	0.0028	<0.020	0.020	0.0028	5143385
Perfluoroheptane sulfonate	ug/L	0.060	0.020	0.0048	<0.020	0.020	0.0048	5143385
Perfluoroheptanoic Acid (PFHpA)	ug/L	0.10	0.020	0.0033	<0.020	0.020	0.0033	5143385
Perfluorohexane Sulfonate (PFHxS)	ug/L	0.59	0.020	0.0034	<0.020	0.020	0.0034	5143385
Perfluorohexanoic Acid (PFHxA)	ug/L	0.24	0.020	0.0029	<0.020	0.020	0.0029	5143385
Perfluoro-n-Octanoic Acid (PFOA)	ug/L	0.10	0.020	0.0046	<0.020	0.020	0.0046	5143385
Perfluorononanoic Acid (PFNA)	ug/L	0.078	0.020	0.0038	<0.020	0.020	0.0038	5143385
Perfluorooctane Sulfonamide (PFOSA)	ug/L	<0.020	0.020	0.0036	<0.020	0.020	0.0036	5143385
Perfluorooctane Sulfonate (PFOS)	ug/L	2.9 (1)	0.20	0.026	0.027	0.020	0.0026	5143385
Perfluoropentanoic Acid (PFPeA)	ug/L	0.18	0.020	0.0027	<0.020	0.020	0.0027	5143385
Perfluorotetradecanoic Acid	ug/L	<0.020	0.020	0.0038	<0.020	0.020	0.0038	5143385
Perfluorotridecanoic Acid	ug/L	<0.020	0.020	0.0033	<0.020	0.020	0.0033	5143385
Perfluoroundecanoic Acid (PFUnA)	ug/L	0.069	0.020	0.0043	<0.020	0.020	0.0043	5143385
Surrogate Recovery (%)								
13C2-6:2 Fluorotelomer sulfonate	%	98	N/A	N/A	92	N/A	N/A	5143385
13C2-8:2 Fluorotelomer sulfonate	%	94	N/A	N/A	95	N/A	N/A	5143385
13C2-Perfluorodecanoic acid	%	99	N/A	N/A	86	N/A	N/A	5143385
13C2-Perfluorododecanoic acid	%	88	N/A	N/A	81	N/A	N/A	5143385
13C2-Perfluorohexanoic acid	%	97	N/A	N/A	92	N/A	N/A	5143385
13C2-perfluorotetradecanoic acid	%	81	N/A	N/A	71	N/A	N/A	5143385
13C2-Perfluoroundecanoic acid	%	91	N/A	N/A	88	N/A	N/A	5143385

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

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Maxxam Job #: B7I7257
Report Date: 2017/09/05

Cape Cod Comission
Client Project #: PFC
Site Location: BFTA
Sampler Initials: SM

RESULTS OF ANALYSES OF WATER

Maxxam ID		FAL179			FAL180			
Sampling Date		2017/08/28 13:20			2017/08/28 13:20			
COC Number		607049-05-01			607049-05-01			
	UNITS	**INFLUENT PRW-4**	**RDL**	**MDL**	**MID POINT**	**RDL**	**MDL**	**QC Batch**
13C4-Perfluorobutanoic acid	%	95	N/A	N/A	100	N/A	N/A	5143385
13C4-Perfluoroheptanoic acid	%	95	N/A	N/A	94	N/A	N/A	5143385
13C4-Perfluorooctanesulfonate	%	98	N/A	N/A	92	N/A	N/A	5143385
13C4-Perfluorooctanoic acid	%	95	N/A	N/A	95	N/A	N/A	5143385
13C5-Perfluorononanoic acid	%	95	N/A	N/A	98	N/A	N/A	5143385
13C5-Perfluoropentanoic acid	%	94	N/A	N/A	93	N/A	N/A	5143385
13C8-Perfluorooctane Sulfonamide	%	80	N/A	N/A	82	N/A	N/A	5143385
18O2-Perfluorohexanesulfonate	%	100	N/A	N/A	83	N/A	N/A	5143385
N-ethyl-d5-perfluorooctane sulfonam	%	79	N/A	N/A	66	N/A	N/A	5143385
N-methyl-d3-perfluorooctane sulfona	%	74	N/A	N/A	72	N/A	N/A	5143385

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

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TEST SUMMARY

Maxxam ID: FAL179
Sample ID: INFLUENT PRW-4
Matrix: Water

Collected: 2017/08/28
Shipped:
Received: 2017/08/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
PFOS and PFOA in water by SPE/LCMS	LCMS	5143385	2017/08/30	2017/09/01	Anjan Desai

Maxxam ID: FAL180
Sample ID: MID POINT
Matrix: Water

Collected: 2017/08/28
Shipped:
Received: 2017/08/29

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
PFOS and PFOA in water by SPE/LCMS	LCMS	5143385	2017/08/30	2017/09/01	Anjan Desai

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GENERAL COMMENTS

Results relate only to the items tested.

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QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
5143385	AD9	Spiked Blank	13C2-6:2 Fluorotelomer sulfonate	2017/09/01		92	%	50 - 150
			13C2-8:2 Fluorotelomer sulfonate	2017/09/01		95	%	50 - 150
			13C2-Perfluorodecanoic acid	2017/09/01		88	%	50 - 150
			13C2-Perfluorododecanoic acid	2017/09/01		80	%	50 - 150
			13C2-Perfluorohexanoic acid	2017/09/01		104	%	50 - 150
			13C2-perfluorotetradecanoic acid	2017/09/01		78	%	50 - 150
			13C2-Perfluoroundecanoic acid	2017/09/01		81	%	50 - 150
			13C4-Perfluorobutanoic acid	2017/09/01		110	%	50 - 150
			13C4-Perfluoroheptanoic acid	2017/09/01		101	%	50 - 150
			13C4-Perfluorooctanesulfonate	2017/09/01		100	%	50 - 150
			13C4-Perfluorooctanoic acid	2017/09/01		94	%	50 - 150
			13C5-Perfluorononanoic acid	2017/09/01		100	%	50 - 150
			13C5-Perfluoropentanoic acid	2017/09/01		94	%	50 - 150
			13C8-Perfluorooctane Sulfonamide	2017/09/01		78	%	50 - 150
			18O2-Perfluorohexanesulfonate	2017/09/01		107	%	50 - 150
			6:2 Fluorotelomer sulfonate	2017/09/01		99	%	70 - 130
			8:2 Fluorotelomer sulfonate	2017/09/01		86	%	70 - 130
			N-ethyl-d5-perfluorooctane sulfonam	2017/09/01		66	%	50 - 150
			N-ethylperfluorooctane sulfonamide	2017/09/01		82	%	70 - 130
			N-ethylperfluorooctane sulfonamidoe	2017/09/01		104	%	70 - 130
			N-methyl-d3-perfluorooctane sulfona	2017/09/01		66	%	50 - 150
			N-methylperfluorooctane sulfonamide	2017/09/01		90	%	70 - 130
			N-methylperfluorooctanesulfonamidol	2017/09/01		98	%	70 - 130
			Perfluorobutane Sulfonate (PFBS)	2017/09/01		79	%	70 - 130
			Perfluorobutanoic acid	2017/09/01		80	%	70 - 130
			Perfluorodecane Sulfonate	2017/09/01		77	%	70 - 130
			Perfluoroheptane sulfonate	2017/09/01		83	%	70 - 130
			Perfluoroheptanoic Acid (PFHpA)	2017/09/01		88	%	70 - 130
			Perfluorohexane Sulfonate (PFHxS)	2017/09/01		81	%	70 - 130
			Perfluorohexanoic Acid (PFHxA)	2017/09/01		85	%	70 - 130
			Perfluorononanoic Acid (PFNA)	2017/09/01		82	%	70 - 130
			Perfluorooctane Sulfonamide (PFOSA)	2017/09/01		87	%	70 - 130
			Perfluoropentanoic Acid (PFPeA)	2017/09/01		92	%	70 - 130
			Perfluorotetradecanoic Acid	2017/09/01		88	%	70 - 130
			Perfluorotridecanoic Acid	2017/09/01		90	%	70 - 130
			Perfluoroundecanoic Acid (PFUnA)	2017/09/01		93	%	70 - 130
			Perfluorodecanoic Acid (PFDA)	2017/09/01		91	%	70 - 130
			Perfluorododecanoic Acid (PFDoA)	2017/09/01		87	%	70 - 130
			Perfluoro-n-Octanoic Acid (PFOA)	2017/09/01		90	%	70 - 130
			Perfluorooctane Sulfonate (PFOS)	2017/09/01		83	%	70 - 130
5143385	AD9	Spiked Blank DUP	13C2-6:2 Fluorotelomer sulfonate	2017/09/01		94	%	50 - 150
			13C2-8:2 Fluorotelomer sulfonate	2017/09/01		82	%	50 - 150
			13C2-Perfluorodecanoic acid	2017/09/01		97	%	50 - 150
			13C2-Perfluorododecanoic acid	2017/09/01		83	%	50 - 150
			13C2-Perfluorohexanoic acid	2017/09/01		94	%	50 - 150
			13C2-perfluorotetradecanoic acid	2017/09/01		86	%	50 - 150
			13C2-Perfluoroundecanoic acid	2017/09/01		89	%	50 - 150
			13C4-Perfluorobutanoic acid	2017/09/01		97	%	50 - 150
			13C4-Perfluoroheptanoic acid	2017/09/01		98	%	50 - 150
			13C4-Perfluorooctanesulfonate	2017/09/01		89	%	50 - 150
			13C4-Perfluorooctanoic acid	2017/09/01		90	%	50 - 150
			13C5-Perfluorononanoic acid	2017/09/01		92	%	50 - 150

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
			13C5-Perfluoropentanoic acid	2017/09/01		95	%	50 - 150
			13C8-Perfluorooctane Sulfonamide	2017/09/01		87	%	50 - 150
			18O2-Perfluorohexanesulfonate	2017/09/01		94	%	50 - 150
			6:2 Fluorotelomer sulfonate	2017/09/01		95	%	70 - 130
			8:2 Fluorotelomer sulfonate	2017/09/01		104	%	70 - 130
			N-ethyl-d5-perfluorooctane sulfonam	2017/09/01		80	%	50 - 150
			N-ethylperfluorooctane sulfonamide	2017/09/01		81	%	70 - 130
			N-ethylperfluorooctane sulfonamidoe	2017/09/01		88	%	70 - 130
			N-methyl-d3-perfluorooctane sulfona	2017/09/01		73	%	50 - 150
			N-methylperfluorooctane sulfonamide	2017/09/01		86	%	70 - 130
			N-methylperfluorooctanesulfonamidol	2017/09/01		109	%	70 - 130
			Perfluorobutane Sulfonate (PFBS)	2017/09/01		87	%	70 - 130
			Perfluorobutanoic acid	2017/09/01		88	%	70 - 130
			Perfluorodecane Sulfonate	2017/09/01		78	%	70 - 130
			Perfluoroheptane sulfonate	2017/09/01		85	%	70 - 130
			Perfluoroheptanoic Acid (PFHpA)	2017/09/01		88	%	70 - 130
			Perfluorohexane Sulfonate (PFHxS)	2017/09/01		85	%	70 - 130
			Perfluorohexanoic Acid (PFHxA)	2017/09/01		92	%	70 - 130
			Perfluorononanoic Acid (PFNA)	2017/09/01		90	%	70 - 130
			Perfluorooctane Sulfonamide (PFOSA)	2017/09/01		94	%	70 - 130
			Perfluoropentanoic Acid (PFPeA)	2017/09/01		89	%	70 - 130
			Perfluorotetradecanoic Acid	2017/09/01		92	%	70 - 130
			Perfluorotridecanoic Acid	2017/09/01		92	%	70 - 130
			Perfluoroundecanoic Acid (PFUnA)	2017/09/01		95	%	70 - 130
			Perfluorodecanoic Acid (PFDA)	2017/09/01		89	%	70 - 130
			Perfluorododecanoic Acid (PFDoA)	2017/09/01		96	%	70 - 130
			Perfluoro-n-Octanoic Acid (PFOA)	2017/09/01		94	%	70 - 130
			Perfluorooctane Sulfonate (PFOS)	2017/09/01		90	%	70 - 130
5143385	AD9	RPD	6:2 Fluorotelomer sulfonate	2017/09/01	3.7		%	30
			8:2 Fluorotelomer sulfonate	2017/09/01	19		%	30
			N-ethylperfluorooctane sulfonamide	2017/09/01	1.8		%	30
			N-ethylperfluorooctane sulfonamidoe	2017/09/01	16		%	30
			N-methylperfluorooctane sulfonamide	2017/09/01	4.2		%	30
			N-methylperfluorooctanesulfonamidol	2017/09/01	11		%	30
			Perfluorobutane Sulfonate (PFBS)	2017/09/01	9.6		%	30
			Perfluorobutanoic acid	2017/09/01	9.8		%	30
			Perfluorodecane Sulfonate	2017/09/01	0.31		%	30
			Perfluoroheptane sulfonate	2017/09/01	2.9		%	30
			Perfluoroheptanoic Acid (PFHpA)	2017/09/01	0.092		%	30
			Perfluorohexane Sulfonate (PFHxS)	2017/09/01	5.7		%	30
			Perfluorohexanoic Acid (PFHxA)	2017/09/01	8.0		%	30
			Perfluorononanoic Acid (PFNA)	2017/09/01	8.9		%	30
			Perfluorooctane Sulfonamide (PFOSA)	2017/09/01	7.2		%	30
			Perfluoropentanoic Acid (PFPeA)	2017/09/01	3.6		%	30
			Perfluorotetradecanoic Acid	2017/09/01	4.3		%	30
			Perfluorotridecanoic Acid	2017/09/01	2.5		%	30
			Perfluoroundecanoic Acid (PFUnA)	2017/09/01	1.5		%	30
			Perfluorodecanoic Acid (PFDA)	2017/09/01	1.2		%	30
			Perfluorododecanoic Acid (PFDoA)	2017/09/01	9.9		%	30
			Perfluoro-n-Octanoic Acid (PFOA)	2017/09/01	4.0		%	30
			Perfluorooctane Sulfonate (PFOS)	2017/09/01	9.2		%	30
5143385	AD9	Method Blank	13C2-6:2 Fluorotelomer sulfonate	2017/09/01		103	%	50 - 150

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QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
			13C2-8:2 Fluorotelomer sulfonate	2017/09/01		101	%	50 - 150
			13C2-Perfluorodecanoic acid	2017/09/01		86	%	50 - 150
			13C2-Perfluorododecanoic acid	2017/09/01		75	%	50 - 150
			13C2-Perfluorohexanoic acid	2017/09/01		106	%	50 - 150
			13C2-perfluorotetradecanoic acid	2017/09/01		78	%	50 - 150
			13C2-Perfluoroundecanoic acid	2017/09/01		79	%	50 - 150
			13C4-Perfluorobutanoic acid	2017/09/01		102	%	50 - 150
			13C4-Perfluoroheptanoic acid	2017/09/01		103	%	50 - 150
			13C4-Perfluorooctanesulfonate	2017/09/01		106	%	50 - 150
			13C4-Perfluorooctanoic acid	2017/09/01		101	%	50 - 150
			13C5-Perfluorononanoic acid	2017/09/01		102	%	50 - 150
			13C5-Perfluoropentanoic acid	2017/09/01		105	%	50 - 150
			13C8-Perfluorooctane Sulfonamide	2017/09/01		77	%	50 - 150
			18O2-Perfluorohexanesulfonate	2017/09/01		89	%	50 - 150
			6:2 Fluorotelomer sulfonate	2017/09/01	<0.0032		ug/L	
			8:2 Fluorotelomer sulfonate	2017/09/01	<0.0036		ug/L	
			N-ethyl-d5-perfluorooctane sulfonam	2017/09/01		65	%	50 - 150
			N-ethylperfluorooctane sulfonamide	2017/09/01	<0.0058		ug/L	
			N-ethylperfluorooctane sulfonamidoe	2017/09/01	<0.0063		ug/L	
			N-methyl-d3-perfluorooctane sulfona	2017/09/01		75	%	50 - 150
			N-methylperfluorooctane sulfonamide	2017/09/01	<0.0041		ug/L	
			N-methylperfluorooctanesulfonamidol	2017/09/01	<0.0043		ug/L	
			Perfluorobutane Sulfonate (PFBS)	2017/09/01	<0.0048		ug/L	
			Perfluorobutanoic acid	2017/09/01	<0.0043		ug/L	
			Perfluorodecane Sulfonate	2017/09/01	<0.0046		ug/L	
			Perfluoroheptane sulfonate	2017/09/01	<0.0048		ug/L	
			Perfluoroheptanoic Acid (PFHpA)	2017/09/01	<0.0033		ug/L	
			Perfluorohexane Sulfonate (PFHxS)	2017/09/01	<0.0034		ug/L	
			Perfluorohexanoic Acid (PFHxA)	2017/09/01	<0.0029		ug/L	
			Perfluorononanoic Acid (PFNA)	2017/09/01	<0.0038		ug/L	
			Perfluorooctane Sulfonamide (PFOSA)	2017/09/01	<0.0036		ug/L	
			Perfluoropentanoic Acid (PFPeA)	2017/09/01	<0.0027		ug/L	
			Perfluorotetradecanoic Acid	2017/09/01	<0.0038		ug/L	
			Perfluorotridecanoic Acid	2017/09/01	<0.0033		ug/L	
			Perfluoroundecanoic Acid (PFUnA)	2017/09/01	<0.0043		ug/L	
			Perfluorodecanoic Acid (PFDA)	2017/09/01	<0.0040		ug/L	
			Perfluorododecanoic Acid (PFDoA)	2017/09/01	<0.0028		ug/L	
			Perfluoro-n-Octanoic Acid (PFOA)	2017/09/01	<0.0046		ug/L	
			Perfluorooctane Sulfonate (PFOS)	2017/09/01	<0.0026		ug/L	

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

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.

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Maxxam Job #: B7I7257
Report Date: 2017/09/05

Cape Cod Comission
Client Project #: PFC
Site Location: BFTA
Sampler Initials: SM

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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