

ANALYTICAL REPORT

Job Number: 280-87227-1

Job Description: ADEM PFC Sampling

For:

Alabama Dept. Environmental Management

2715 Sandlin Road, SW

Decatur, AL 35603

Attention: Mr. Ed Poolos



Approved for release.
Stephanie K Rothmeyer
Project Manager I
9/12/2016 11:37 AM

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09/12/2016

The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Denver Project Manager.

The Lab Certification ID# is 4025.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

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Definitions/Glossary

Client: Alabama Dept. Environmental Management
Project/Site: ADEM PFC Sampling

TestAmerica Job ID: 280-87227-1

Qualifiers

LCMS

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
±	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

CASE NARRATIVE

Client: Alabama Dept. Environmental Management

Project: ADEM PFC Sampling

Report Number: 280-87227-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 8/24/2016 at 6:55 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.1° C.

PERFLUORINATED HYDROCARBONS (PFC)

Samples GADSDEN RAW (280-87227-1), GADSDEN MIEX (280-87227-2), GADSDEN BASIN (280-87227-3), GADSDEN FILTER (280-87227-4), GADSDEN CLEARWELL (280-87227-5) and GADSDEN FINISH WATER (280-87227-6) were analyzed for Perfluorinated Hydrocarbons (PFC) in accordance with SOP DV-LC-0012. The samples were prepared on 09/01/2016 and 09/02/2016 and analyzed on 09/02/2016 and 09/06/2016.

The following samples were decanted prior to preparation: GADSDEN RAW (280-87227-1), GADSDEN MIEX (280-87227-2). Solvent rinse on the original container was not able to be performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

PERFLUOROCTANE SULFONAMIDE (FOSA)

Samples GADSDEN RAW (280-87227-1), GADSDEN MIEX (280-87227-2), GADSDEN BASIN (280-87227-3), GADSDEN FILTER (280-87227-4), GADSDEN CLEARWELL (280-87227-5) and GADSDEN FINISH WATER (280-87227-6) were analyzed for Perfluorooctane Sulfonamide (FOSA) in accordance with SOP DV-LC-0012. The samples were prepared on 09/01/2016 and 09/02/2016 and analyzed on 09/02/2016 and 09/06/2016.

The following samples were decanted prior to preparation: GADSDEN RAW (280-87227-1) and GADSDEN MIEX (280-87227-2). Solvent rinse on the original container was not able to be performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Client Sample Results

Client: Alabama Dept. Environmental Management
Project/Site: ADEM PFC Sampling

TestAmerica Job ID: 280-87227-1

Client Sample ID: GADSDEN RAW

Lab Sample ID: 280-87227-1

Date Collected: 08/22/16 19:30

Matrix: Water

Date Received: 08/24/16 06:55

Method: DV-LC-0012 - Perfluorinated Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutane Sulfonate (PFBS)	0.064		0.020	0.0081	ug/L		09/01/16 19:29	09/02/16 15:37	1
Perfluorobutanoic acid (PFBA)	0.016	J	0.020	0.0097	ug/L		09/01/16 19:29	09/02/16 15:37	1
Perfluorodecane sulfonate (PFDS)	0.0090	U	0.020	0.0090	ug/L		09/01/16 19:29	09/02/16 15:37	1
Perfluorodecanoic acid (PFDA)	0.0077	U	0.020	0.0077	ug/L		09/01/16 19:29	09/02/16 15:37	1
Perfluorododecanoic acid (PFDoA)	0.015	U	0.030	0.015	ug/L		09/01/16 19:29	09/02/16 15:37	1
Perfluoroheptanoic acid (PFHpA)	0.013	U	0.030	0.013	ug/L		09/01/16 19:29	09/02/16 15:37	1
Perfluorohexane Sulfonate (PFHxS)	0.0069	U	0.030	0.0069	ug/L		09/01/16 19:29	09/02/16 15:37	1
Perfluorohexanoic acid (PFHxA)	0.039		0.020	0.0029	ug/L		09/01/16 19:29	09/02/16 15:37	1
Perfluorononanoic acid (PFNA)	0.017	U	0.040	0.017	ug/L		09/01/16 19:29	09/02/16 15:37	1
Perfluorooctanoic acid (PFOA)	0.026		0.020	0.0097	ug/L		09/01/16 19:29	09/02/16 15:37	1
Perfluorooctane Sulfonate (PFOS)	0.037		0.030	0.013	ug/L		09/01/16 19:29	09/02/16 15:37	1
Perfluoropentanoic acid (PFPA)	0.054		0.030	0.011	ug/L		09/01/16 19:29	09/02/16 15:37	1
Perfluorotetradecanoic acid (PFTeA)	0.015	U	0.030	0.015	ug/L		09/01/16 19:29	09/02/16 15:37	1
Perfluorotridecanoic Acid (PFTriA)	0.018	U	0.040	0.018	ug/L		09/01/16 19:29	09/02/16 15:37	1
Perfluoroundecanoic acid (PFUnA)	0.0068	U	0.020	0.0068	ug/L		09/01/16 19:29	09/02/16 15:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C8 PFOA	124		60 - 155				09/01/16 19:29	09/02/16 15:37	1
13C8 PFOS	107		45 - 130				09/01/16 19:29	09/02/16 15:37	1

Method: PFC -FOSA - FOSA in Water (LC/MS/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctane Sulfonamide (FOSA)	0.0055	U	0.048	0.0055	ug/L		09/01/16 19:25	09/02/16 12:32	1

Client Sample ID: GADSDEN MIEX

Lab Sample ID: 280-87227-2

Date Collected: 08/22/16 20:28

Matrix: Water

Date Received: 08/24/16 06:55

Method: DV-LC-0012 - Perfluorinated Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutane Sulfonate (PFBS)	0.066		0.019	0.0080	ug/L		09/01/16 19:29	09/02/16 15:50	1
Perfluorobutanoic acid (PFBA)	0.014	J	0.019	0.0095	ug/L		09/01/16 19:29	09/02/16 15:50	1
Perfluorodecane sulfonate (PFDS)	0.0088	U	0.019	0.0088	ug/L		09/01/16 19:29	09/02/16 15:50	1
Perfluorodecanoic acid (PFDA)	0.0075	U	0.019	0.0075	ug/L		09/01/16 19:29	09/02/16 15:50	1
Perfluorododecanoic acid (PFDoA)	0.014	U	0.029	0.014	ug/L		09/01/16 19:29	09/02/16 15:50	1
Perfluoroheptanoic acid (PFHpA)	0.013	J	0.029	0.013	ug/L		09/01/16 19:29	09/02/16 15:50	1
Perfluorohexane Sulfonate (PFHxS)	0.0067	U	0.029	0.0067	ug/L		09/01/16 19:29	09/02/16 15:50	1
Perfluorohexanoic acid (PFHxA)	0.041		0.019	0.0028	ug/L		09/01/16 19:29	09/02/16 15:50	1
Perfluorononanoic acid (PFNA)	0.017	U	0.039	0.017	ug/L		09/01/16 19:29	09/02/16 15:50	1
Perfluorooctanoic acid (PFOA)	0.025		0.019	0.0094	ug/L		09/01/16 19:29	09/02/16 15:50	1
Perfluorooctane Sulfonate (PFOS)	0.036		0.029	0.013	ug/L		09/01/16 19:29	09/02/16 15:50	1
Perfluoropentanoic acid (PFPA)	0.054		0.029	0.011	ug/L		09/01/16 19:29	09/02/16 15:50	1
Perfluorotetradecanoic acid (PFTeA)	0.014	U	0.029	0.014	ug/L		09/01/16 19:29	09/02/16 15:50	1
Perfluorotridecanoic Acid (PFTriA)	0.017	U	0.039	0.017	ug/L		09/01/16 19:29	09/02/16 15:50	1
Perfluoroundecanoic acid (PFUnA)	0.0066	U	0.019	0.0066	ug/L		09/01/16 19:29	09/02/16 15:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C8 PFOA	123		60 - 155				09/01/16 19:29	09/02/16 15:50	1
13C8 PFOS	108		45 - 130				09/01/16 19:29	09/02/16 15:50	1

Client Sample Results

Client: Alabama Dept. Environmental Management
Project/Site: ADEM PFC Sampling

TestAmerica Job ID: 280-87227-1

Client Sample ID: GADSDEN MIEX

Date Collected: 08/22/16 20:28

Date Received: 08/24/16 06:55

Lab Sample ID: 280-87227-2

Matrix: Water

Method: PFC -FOSA - FOSA in Water (LC/MS/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctane Sulfonamide (FOSA)	0.0055	U	0.048	0.0055	ug/L		09/01/16 19:25	09/02/16 12:45	1

Client Sample ID: GADSDEN BASIN

Date Collected: 08/23/16 04:40

Date Received: 08/24/16 06:55

Lab Sample ID: 280-87227-3

Matrix: Water

Method: DV-LC-0012 - Perfluorinated Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutane Sulfonate (PFBS)	0.063		0.018	0.0075	ug/L		09/02/16 18:48	09/06/16 15:01	1
Perfluorobutanoic acid (PFBA)	0.014	J	0.018	0.0089	ug/L		09/02/16 18:48	09/06/16 15:01	1
Perfluorodecane sulfonate (PFDS)	0.0083	U	0.018	0.0083	ug/L		09/02/16 18:48	09/06/16 15:01	1
Perfluorodecanoic acid (PFDA)	0.0071	U	0.018	0.0071	ug/L		09/02/16 18:48	09/06/16 15:01	1
Perfluorododecanoic acid (PFDoA)	0.013	U	0.027	0.013	ug/L		09/02/16 18:48	09/06/16 15:01	1
Perfluoroheptanoic acid (PFHpA)	0.013	J	0.027	0.012	ug/L		09/02/16 18:48	09/06/16 15:01	1
Perfluorohexane Sulfonate (PFHxS)	0.0063	U	0.027	0.0063	ug/L		09/02/16 18:48	09/06/16 15:01	1
Perfluorohexanoic acid (PFHxA)	0.037		0.018	0.0026	ug/L		09/02/16 18:48	09/06/16 15:01	1
Perfluorononanoic acid (PFNA)	0.016	U	0.036	0.016	ug/L		09/02/16 18:48	09/06/16 15:01	1
Perfluorooctanoic acid (PFOA)	0.024		0.018	0.0089	ug/L		09/02/16 18:48	09/06/16 15:01	1
Perfluorooctane Sulfonate (PFOS)	0.046		0.027	0.012	ug/L		09/02/16 18:48	09/06/16 15:01	1
Perfluoropentanoic acid (PFPA)	0.053		0.027	0.0099	ug/L		09/02/16 18:48	09/06/16 15:01	1
Perfluorotetradecanoic acid (PFTeA)	0.013	U	0.027	0.013	ug/L		09/02/16 18:48	09/06/16 15:01	1
Perfluorotridecanoic Acid (PFTriA)	0.016	U	0.036	0.016	ug/L		09/02/16 18:48	09/06/16 15:01	1
Perfluoroundecanoic acid (PFUnA)	0.0062	U	0.018	0.0062	ug/L		09/02/16 18:48	09/06/16 15:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C8 PFOA	119		60 - 155				09/02/16 18:48	09/06/16 15:01	1
13C8 PFOS	114		45 - 130				09/02/16 18:48	09/06/16 15:01	1

Method: PFC -FOSA - FOSA in Water (LC/MS/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctane Sulfonamide (FOSA)	0.0054	U	0.047	0.0054	ug/L		09/02/16 18:52	09/06/16 22:12	1

Client Sample ID: GADSDEN FILTER

Date Collected: 08/23/16 05:48

Date Received: 08/24/16 06:55

Lab Sample ID: 280-87227-4

Matrix: Water

Method: DV-LC-0012 - Perfluorinated Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutane Sulfonate (PFBS)	0.064		0.018	0.0075	ug/L		09/02/16 18:48	09/06/16 15:13	1
Perfluorobutanoic acid (PFBA)	0.015	J	0.018	0.0089	ug/L		09/02/16 18:48	09/06/16 15:13	1
Perfluorodecane sulfonate (PFDS)	0.0083	U	0.018	0.0083	ug/L		09/02/16 18:48	09/06/16 15:13	1
Perfluorodecanoic acid (PFDA)	0.0071	U	0.018	0.0071	ug/L		09/02/16 18:48	09/06/16 15:13	1
Perfluorododecanoic acid (PFDoA)	0.014	U	0.027	0.014	ug/L		09/02/16 18:48	09/06/16 15:13	1
Perfluoroheptanoic acid (PFHpA)	0.014	J	0.027	0.012	ug/L		09/02/16 18:48	09/06/16 15:13	1
Perfluorohexane Sulfonate (PFHxS)	0.0063	U	0.027	0.0063	ug/L		09/02/16 18:48	09/06/16 15:13	1
Perfluorohexanoic acid (PFHxA)	0.040		0.018	0.0026	ug/L		09/02/16 18:48	09/06/16 15:13	1
Perfluorononanoic acid (PFNA)	0.016	U	0.036	0.016	ug/L		09/02/16 18:48	09/06/16 15:13	1
Perfluorooctanoic acid (PFOA)	0.028		0.018	0.0089	ug/L		09/02/16 18:48	09/06/16 15:13	1
Perfluorooctane Sulfonate (PFOS)	0.045		0.027	0.012	ug/L		09/02/16 18:48	09/06/16 15:13	1
Perfluoropentanoic acid (PFPA)	0.054		0.027	0.0099	ug/L		09/02/16 18:48	09/06/16 15:13	1

Client Sample Results

Client: Alabama Dept. Environmental Management
Project/Site: ADEM PFC Sampling

TestAmerica Job ID: 280-87227-1

Client Sample ID: GADSDEN FILTER

Date Collected: 08/23/16 05:48

Date Received: 08/24/16 06:55

Lab Sample ID: 280-87227-4

Matrix: Water

Method: DV-LC-0012 - Perfluorinated Hydrocarbons (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotetradecanoic acid (PFTeA)	0.013	U	0.027	0.013	ug/L		09/02/16 18:48	09/06/16 15:13	1
Perfluorotridecanoic Acid (PFTriA)	0.016	U	0.036	0.016	ug/L		09/02/16 18:48	09/06/16 15:13	1
Perfluoroundecanoic acid (PFUnA)	0.0063	U	0.018	0.0063	ug/L		09/02/16 18:48	09/06/16 15:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	123		60 - 155	09/02/16 18:48	09/06/16 15:13	1
13C8 PFOS	104		45 - 130	09/02/16 18:48	09/06/16 15:13	1

Method: PFC -FOSA - FOSA in Water (LC/MS/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctane Sulfonamide (FOSA)	0.0055	U	0.048	0.0055	ug/L		09/02/16 18:52	09/06/16 22:24	1

Client Sample ID: GADSDEN CLEARWELL

Date Collected: 08/23/16 07:24

Date Received: 08/24/16 06:55

Lab Sample ID: 280-87227-5

Matrix: Water

Method: DV-LC-0012 - Perfluorinated Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutane Sulfonate (PFBS)	0.069		0.019	0.0079	ug/L		09/02/16 18:48	09/06/16 15:26	1
Perfluorobutanoic acid (PFBA)	0.017	J	0.019	0.0094	ug/L		09/02/16 18:48	09/06/16 15:26	1
Perfluorodecane sulfonate (PFDS)	0.0088	U	0.019	0.0088	ug/L		09/02/16 18:48	09/06/16 15:26	1
Perfluorodecanoic acid (PFDA)	0.0075	U	0.019	0.0075	ug/L		09/02/16 18:48	09/06/16 15:26	1
Perfluorododecanoic acid (PFDoA)	0.014	U	0.029	0.014	ug/L		09/02/16 18:48	09/06/16 15:26	1
Perfluoroheptanoic acid (PFHpA)	0.014	J	0.029	0.013	ug/L		09/02/16 18:48	09/06/16 15:26	1
Perfluorohexane Sulfonate (PFHxS)	0.0067	U	0.029	0.0067	ug/L		09/02/16 18:48	09/06/16 15:26	1
Perfluorohexanoic acid (PFHxA)	0.042		0.019	0.0028	ug/L		09/02/16 18:48	09/06/16 15:26	1
Perfluorononanoic acid (PFNA)	0.017	U	0.038	0.017	ug/L		09/02/16 18:48	09/06/16 15:26	1
Perfluorooctanoic acid (PFOA)	0.025		0.019	0.0094	ug/L		09/02/16 18:48	09/06/16 15:26	1
Perfluorooctane Sulfonate (PFOS)	0.048		0.029	0.013	ug/L		09/02/16 18:48	09/06/16 15:26	1
Perfluoropentanoic acid (PFPA)	0.057		0.029	0.010	ug/L		09/02/16 18:48	09/06/16 15:26	1
Perfluorotetradecanoic acid (PFTeA)	0.014	U	0.029	0.014	ug/L		09/02/16 18:48	09/06/16 15:26	1
Perfluorotridecanoic Acid (PFTriA)	0.017	U	0.038	0.017	ug/L		09/02/16 18:48	09/06/16 15:26	1
Perfluoroundecanoic acid (PFUnA)	0.0066	U	0.019	0.0066	ug/L		09/02/16 18:48	09/06/16 15:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 PFOA	122		60 - 155	09/02/16 18:48	09/06/16 15:26	1
13C8 PFOS	118		45 - 130	09/02/16 18:48	09/06/16 15:26	1

Method: PFC -FOSA - FOSA in Water (LC/MS/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctane Sulfonamide (FOSA)	0.0052	U	0.045	0.0052	ug/L		09/02/16 18:52	09/06/16 22:37	1

Client Sample ID: GADSDEN FINISH WATER

Date Collected: 08/23/16 09:00

Date Received: 08/24/16 06:55

Lab Sample ID: 280-87227-6

Matrix: Water

Method: DV-LC-0012 - Perfluorinated Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutane Sulfonate (PFBS)	0.058		0.019	0.0079	ug/L		09/02/16 18:48	09/06/16 15:38	1
Perfluorobutanoic acid (PFBA)	0.016	J	0.019	0.0094	ug/L		09/02/16 18:48	09/06/16 15:38	1
Perfluorodecane sulfonate (PFDS)	0.0087	U	0.019	0.0087	ug/L		09/02/16 18:48	09/06/16 15:38	1

Client Sample Results

Client: Alabama Dept. Environmental Management
 Project/Site: ADEM PFC Sampling

TestAmerica Job ID: 280-87227-1

Client Sample ID: GADSDEN FINISH WATER

Lab Sample ID: 280-87227-6

Date Collected: 08/23/16 09:00

Matrix: Water

Date Received: 08/24/16 06:55

Method: DV-LC-0012 - Perfluorinated Hydrocarbons (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorodecanoic acid (PFDA)	0.0075	U	0.019	0.0075	ug/L		09/02/16 18:48	09/06/16 15:38	1
Perfluorododecanoic acid (PFDoA)	0.014	U	0.029	0.014	ug/L		09/02/16 18:48	09/06/16 15:38	1
Perfluoroheptanoic acid (PFHpA)	0.014	J	0.029	0.013	ug/L		09/02/16 18:48	09/06/16 15:38	1
Perfluorohexane Sulfonate (PFHxS)	0.0067	U	0.029	0.0067	ug/L		09/02/16 18:48	09/06/16 15:38	1
Perfluorohexanoic acid (PFHxA)	0.035		0.019	0.0028	ug/L		09/02/16 18:48	09/06/16 15:38	1
Perfluorononanoic acid (PFNA)	0.017	U	0.038	0.017	ug/L		09/02/16 18:48	09/06/16 15:38	1
Perfluorooctanoic acid (PFOA)	0.027		0.019	0.0093	ug/L		09/02/16 18:48	09/06/16 15:38	1
Perfluorooctane Sulfonate (PFOS)	0.043		0.029	0.013	ug/L		09/02/16 18:48	09/06/16 15:38	1
Perfluoropentanoic acid (PFPA)	0.057		0.029	0.010	ug/L		09/02/16 18:48	09/06/16 15:38	1
Perfluorotetradecanoic acid (PFTeA)	0.014	U	0.029	0.014	ug/L		09/02/16 18:48	09/06/16 15:38	1
Perfluorotridecanoic Acid (PFTriA)	0.017	U	0.038	0.017	ug/L		09/02/16 18:48	09/06/16 15:38	1
Perfluoroundecanoic acid (PFUnA)	0.0066	U	0.019	0.0066	ug/L		09/02/16 18:48	09/06/16 15:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C8 PFOA	120		60 - 155				09/02/16 18:48	09/06/16 15:38	1
13C8 PFOS	102		45 - 130				09/02/16 18:48	09/06/16 15:38	1

Method: PFC -FOSA - FOSA in Water (LC/MS/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctane Sulfonamide (FOSA)	0.0053	U	0.047	0.0053	ug/L		09/02/16 18:52	09/06/16 22:49	1