



Environmental Chemists, Inc.

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ANALYTICAL & CONSULTING CHEMISTS

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December 7, 2017

Brunswick County Public Utilities
Post Office Box 249
Bolivia, NC 28422
Attn: Glenn Walker

Report #2017-18147

Enclosed please find your analytical report.

Sincerely,

A handwritten signature in cursive script that reads "Tammy Duran".

Tammy Duran

Environmental Chemists, Inc.

ANALYTICAL RESULTS: Perfluorinated Chemicals by EPA 537 Rev 1.1 Safe Drinking Water Analysis
 Customer: Environmental Chemists NLS Project: 291147
 Project Description: PFCs with GenX
 Project Title: Template: 537PPTGENX Printed: 12/07/2017 10:08

Sample: 1031142 Brunswick Cnty (44064) Collected: 11/22/17 Analyzed: 12/06/17 - Analytes: 13

ANALYTE NAME	RESULT	UNITS	WWB	DIL	LOD	LOQ	MCL	Note
perfluorobutanesulfonic acid (PFBS)	ND	ppt		1	6.6	21		
perfluorohexanoic acid (PFHxA)	40	ppt		1	1.3	4.0		
perfluoro-2-propoxypropanoic acid (GenX)	41.2	ppt		1	0.73	2.3		
perfluorooheptanoic acid (PFHpA)	35.7	ppt		1	0.80	2.6		
perfluorooxanesulfonic acid (PFHxS)	[6.58]	ppt		1	2.8	8.8		J
perfluorooctanoic acid (PFOA)	16	ppt		1	1.2	3.9		
perfluorononanoic acid (PFNA)	[3.24]	ppt		1	1.5	4.9		J
perfluorooctanesulfonic acid (PFOS)	10.2	ppt		1	1.7	5.3		
perfluorodecanoic acid (PFDA)	[2.03]	ppt		1	0.90	2.7		J
perfluoroundecanoic acid (PFUnA)	ND	ppt		1	1.0	3.0		
perfluorododecanoic acid (PFDDoA)	ND	ppt		1	1.9	6.1		
perfluorotridecanoic acid (PFTTDA)	ND	ppt		1	3.2	10		
perfluorotetradecanoic acid (PFTA)	ND	ppt		1	2.8	8.9		
C13-PFHxA (SURR)	88.312%							S
C13-PFDA (SURR)	87.337%							S

NOTES APPLICABLE TO THIS ANALYSIS:

J = Result enclosed in brackets is between LOD and LOQ, a region of less certain quantitation.
 S = This compound is a surrogate used to evaluate the quality control of a method.

Sample: 1031146 Brunswick Cnty (44064) Collected: 11/22/17 Analyzed: 12/06/17 - Analytes: 13

ANALYTE NAME	RESULT	UNITS	WWB	DIL	LOD	LOQ	MCL	Note
perfluorobutanesulfonic acid (PFBS)	ND	ppt		1	6.6	21		
perfluorohexanoic acid (PFHxA)	30.9	ppt		1	1.3	4.0		
perfluoro-2-propoxypropanoic acid (GenX)	31.8	ppt		1	0.73	2.3		
perfluorooheptanoic acid (PFHpA)	22.8	ppt		1	0.80	2.6		
perfluorooxanesulfonic acid (PFHxS)	[3.09]	ppt		1	2.8	8.8		J
perfluorooctanoic acid (PFOA)	8.33	ppt		1	1.2	3.9		
perfluorononanoic acid (PFNA)	ND	ppt		1	1.5	4.9		
perfluorooctanesulfonic acid (PFOS)	[3.46]	ppt		1	1.7	5.3		J
perfluorodecanoic acid (PFDA)	ND	ppt		1	0.90	2.7		
perfluoroundecanoic acid (PFUnA)	ND	ppt		1	1.0	3.0		
perfluorododecanoic acid (PFDDoA)	ND	ppt		1	1.9	6.1		
perfluorotridecanoic acid (PFTTDA)	ND	ppt		1	3.2	10		
perfluorotetradecanoic acid (PFTA)	ND	ppt		1	2.8	8.9		
C13-PFHxA (SURR)	87.006%							S
C13-PFDA (SURR)	83.208%							S

NOTES APPLICABLE TO THIS ANALYSIS:

J = Result enclosed in brackets is between LOD and LOQ, a region of less certain quantitation.
 S = This compound is a surrogate used to evaluate the quality control of a method.

The PFOA branch isotope peak is included in the PFOA calculation per EPA directive. GenX analysis performed by Modified EPA Method 537.

