



Environmental Chemists, Inc.

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ANALYTICAL & CONSULTING CHEMISTS

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May 9, 2018

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

Report #2018-06161

Enclosed please find your analytical report.

Sincerely,

Tammy Duran
Environmental Chemists, Inc.

ANALYTICAL RESULTS: Perfluorinated Chemicals by EPA 537 Rev 1.1 Safe Drinking Water Analysis
Customer: Environmental Chemists NLS Project: 298319
Project Description: Investigative Drinking Water
Project Title: EPA 537 7 GenX
Template: 537PPTGENX **Printed:** 05/08/2018 16:40

Sample: 1051606-18-15335 **Collected:** 04/19/18 **Analyzed:** 04/30/18 **Analyses:** 13

ANALYTE NAME	RESULT	UNITS	WWB	DIL	LOD	LOQ	MCL	Note
perfluorobutanesulfonic acid (PFBS)	ND	ppt		1	6.6	21		
perfluorohexanoic acid (PFHxA)	27.1	ppt		1	1.3	4.0		
perfluoro-2-propoxypropanoic acid (GenX)	11.8	ppt		1	0.73	2.3		
perfluorohexanoic acid (PFHxA)	21.1	ppt		1	0.80	2.6		
perfluorohexanesulfonic acid (PFHxS)	[5.13]	ppt		1	2.8	8.8		J
perfluorooctanoic acid (PFDA)	8.19	ppt		1	1.2	3.9		
perfluorooctanesulfonic acid (PFNA)	[1.8]	ppt		1	1.5	4.9		J
perfluorooctanesulfonic acid (PFOS)	11.1	ppt		1	1.7	5.3		
perfluorodecanoic acid (PFDA)	[2.19]	ppt		1	0.90	2.7		J BD
perfluoroundecanoic acid (PFUnA)	ND	ppt		1	1.0	3.0		
perfluorododecanoic acid (PFDDoA)	ND	ppt		1	1.9	6.1		
perfluorotridecanoic acid (PFTDA)	ND	ppt		1	3.2	10		
perfluorotetradecanoic acid (PFTA)	ND	ppt		1	2.8	8.9		
C13-PFHxA (SURR)	111.314%			1				S
C13-PFDA (SURR)	81.761%			1				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.
 BD = Compound was detected in the laboratory method blank.
 perfluorodecanoic acid (PFDA) detected at 1.19 ppt.

Sample: 1051607-18-15333 **Collected:** 04/19/18 **Analyzed:** 04/30/18 **Analyses:** 13

ANALYTE NAME	RESULT	UNITS	WWB	DIL	LOD	LOQ	MCL	Note
perfluorobutanesulfonic acid (PFBS)	ND	ppt		1	6.6	21		
perfluorohexanoic acid (PFHxA)	23.2	ppt		1	1.3	4.0		
perfluoro-2-propoxypropanoic acid (GenX)	4.95	ppt		1	0.73	2.3		
perfluorohexanoic acid (PFHxA)	18.3	ppt		1	0.80	2.6		
perfluorohexanesulfonic acid (PFHxS)	[4.89]	ppt		1	2.8	8.8		J
perfluorooctanoic acid (PFDA)	7.88	ppt		1	1.2	3.9		
perfluorooctanesulfonic acid (PFNA)	[1.84]	ppt		1	1.5	4.9		J
perfluorooctanesulfonic acid (PFOS)	11.4	ppt		1	1.7	5.3		
perfluorodecanoic acid (PFDA)	[2.51]	ppt		1	0.90	2.7		J BD
perfluoroundecanoic acid (PFUnA)	ND	ppt		1	1.0	3.0		
perfluorododecanoic acid (PFDDoA)	ND	ppt		1	1.9	6.1		
perfluorotridecanoic acid (PFTDA)	ND	ppt		1	3.2	10		
perfluorotetradecanoic acid (PFTA)	ND	ppt		1	2.8	8.9		
C13-PFHxA (SURR)	112.783%			1				S
C13-PFDA (SURR)	90.654%			1				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.
 BD = Compound was detected in the laboratory method blank.
 perfluorodecanoic acid (PFDA) detected at 1.19 ppt.

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

COLLECTION AND CHAIN OF CUSTODY

Client: Brunswick County Water PROJECT NAME: _____
 ADDRESS: P.O. Box 249 CONTACT NAME: Gwendolyn Walker REPORT NO.: 18-6161
BOLIVIA, N.C. 28422 REPORT TO: SAME PHONE/FAX: _____
 COPY TO: _____ email: gwendolyn.walker@brunswickcountync.gov

Sampled By: Bruce Beaton SAMPLE TYPE: I = Influent, E = Effluent, W = Well, ST = Stream, SO = Soil, SL = Sludge, Other: _____

Sample Identification	Collection			Sample Type	Composite or Grab	Container (P or G)	Chlorine mg/L	LAB ID NUMBER	PRESERVATION							ANALYSIS REQUESTED	
	Date	Time	Temp						NONE	HCL	H2SO4	HNO3	NAOH	THIO	OTHER		
041918-S01	4-19-18	0848	18.5°	RAIN	C	(P)		15335									EPA 537+ GENX
041918-E01	4-19-18	0848		DN	(G)	(P)		15335									/
					C	P											
					G	G											
					C	P											
					G	G											
					C	P											
					G	G											
					C	P											
					G	G											
					C	P											
					G	G											

Transfer Relinquished By: Bruce Beaton Date/Time: 4-19-18 Received By: _____ Date/Time: _____

Temperature when Received: _____ Accepted: _____ Resample Requested: _____
 Delivered By: Bruce Beaton Received By: Bruce Beaton Date: 4/19/18 Time: 1359
 Comments: TURNAROUND: