



# Environmental Chemists, Inc.

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ANALYTICAL & CONSULTING CHEMISTS

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January 8, 2019

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

Report #2018-21099  
Collected – December 20, 2018

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: 313957  
**Project Description:** PFCs by EPA 537 w/GenX  
**Project Title:** Template: 537PPTGENX Printed: 01/07/2019 21:21

**Sample:** 1098896 #53175 Collected: 12/20/18 Analyzed: 01/03/19 - Analytes: 13

ANALYTE NAME	RESULT	UNITS	WWB	DIL	LOD	LOQ	Note
perfluorobutanesulfonic acid (PFBS)	ND	ppt		1	6.6	21	
perfluorohexanoic acid (PFHxA)	[1.73]	ppt		1	1.3	4.0	J
perfluoro-2-propoxypropanoic acid (GenX)	3.96	ppt		1	0.73	2.3	
perfluorohexanoic acid (PFHxA)	[1.58]	ppt		1	0.80	2.6	J
perfluorohexanesulfonic acid (PFHxS)	ND	ppt		1	2.8	8.8	
perfluorooctanoic acid (PFOA)	[2.57]	ppt		1	1.2	3.9	J
perfluorooctanesulfonic acid (PFOS)	ND	ppt		1	1.5	4.9	
perfluorooctanesulfonic acid (PFOS)	[5.21]	ppt		1	1.7	5.3	J
perfluorodecanoic acid (PFDA)	ND	ppt		1	0.90	2.7	
perfluorodecanoic acid (PFUnA)	ND	ppt		1	1.0	3.0	
perfluorododecanoic acid (PFDDA)	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)	60.703%			1			SR S
C13-PFDA (SURR)	81.948%			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.  
 SR = Surrogate recovery was outside QC limits.  
 C13-PFHxA recovered below QC limits.

**Sample:** 1098897 #53176 Collected: 12/20/18 Analyzed: 01/03/19 - Analytes: 13

ANALYTE NAME	RESULT	UNITS	WWB	DIL	LOD	LOQ	Note
perfluorobutanesulfonic acid (PFBS)	ND	ppt		1	6.6	21	
perfluorohexanoic acid (PFHxA)	[1.88]	ppt		1	1.3	4.0	J
perfluoro-2-propoxypropanoic acid (GenX)	3.84	ppt		1	0.73	2.3	
perfluorohexanoic acid (PFHxA)	[1.65]	ppt		1	0.80	2.6	J
perfluorohexanesulfonic acid (PFHxS)	ND	ppt		1	2.8	8.8	
perfluorooctanoic acid (PFOA)	[2.67]	ppt		1	1.2	3.9	J
perfluorooctanesulfonic acid (PFOS)	ND	ppt		1	1.5	4.9	
perfluorooctanesulfonic acid (PFOS)	[5.15]	ppt		1	1.7	5.3	J
perfluorodecanoic acid (PFDA)	ND	ppt		1	0.90	2.7	
perfluorodecanoic acid (PFUnA)	ND	ppt		1	1.0	3.0	
perfluorododecanoic acid (PFDDA)	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)	65.68%			1			SR S
C13-PFDA (SURR)	86.931%			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.  
 SR = Surrogate recovery was outside QC limits.  
 C13-PFHxA recovered below QC limits.

**COLLECTION AND CHAIN OF CUSTODY**

Client: Brunswick County Water  
 ADDRESS: P.O. Box 249  
Bolivia N.C. 28422

PROJECT NAME: \_\_\_\_\_  
 CONTACT NAME: Glenn Walker  
 REPORT TO: same  
 COPY TO: \_\_\_\_\_

REPORT NO: 18-21099  
 PO NO: \_\_\_\_\_  
 PHONE/FAX: \_\_\_\_\_  
 email: glenn.walker@brunswickcountync.gov

Sampled By: Billy Benton 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		
122018-S01	12-20-18	10:05 AM	10.4	Raw	C	P		53175									EPA 537 + GENX
122018-E01	12-20-18	10:05 AM	10.4	DW	C	G		53176									
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