



# Environmental Chemists, Inc.

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ANALYTICAL & CONSULTING CHEMISTS

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November 10, 2017

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

Report #2017-16671

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 Chemicals NLS Project: 289918  
 Project Description: GenX Samples  
 Project Title: Template: 537PPTGENX Printed: 11/10/2017 10:07

Sample: 1027502\_40358 Collected: 10/26/17 Analyzed: 11/09/17 - Analytes: 13

ANALYTE NAME	RESULT	UNITS	WWB	DIL	LOD	LOQ	MCL	Note
perfluorobutanesulfonic acid (PFBS)	ND	ppt		1	6.6	21		
perfluorohexanoic acid (PFHxA)	31.4	ppt		1	1.3	4.0		
perfluoro-2-propoxypropanoic acid (GenX)	39.5	ppt		1	0.73	2.3		
perfluorheptanoic acid (PFHpA)	27.6	ppt		1	0.80	2.6		
perfluorohexanesulfonic acid (PFHxS)	[7.34]	ppt		1	2.8	8.8		J
perfluorooctanoic acid (PFOA)	13.6	ppt		1	1.2	3.9		
perfluorononanoic acid (PFNA)	[3.37]	ppt		1	1.5	4.9		J
perfluorooctanesulfonic acid (PFOS)	12	ppt		1	1.7	5.3		
perfluorodecanoic acid (PFDA)	[2.55]	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 (PFTriDA)	ND	ppt		1	3.2	10		
perfluorotetradecanoic acid (PFTA)	ND	ppt		1	2.8	8.9		
C13-PFHxA (SURR)	104.093%							S
C13-PFDA (SURR)	88.394%							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: 1027503\_40358 Collected: 10/26/17 Analyzed: 11/09/17 - Analytes: 13

ANALYTE NAME	RESULT	UNITS	WWB	DIL	LOD	LOQ	MCL	Note
perfluorobutanesulfonic acid (PFBS)	ND	ppt		1	6.6	21		
perfluorohexanoic acid (PFHxA)	29.5	ppt		1	1.3	4.0		
perfluoro-2-propoxypropanoic acid (GenX)	38.4	ppt		1	0.73	2.3		
perfluorheptanoic acid (PFHpA)	20.7	ppt		1	0.80	2.6		
perfluorohexanesulfonic acid (PFHxS)	[3.72]	ppt		1	2.8	8.8		J
perfluorooctanoic acid (PFOA)	8.31	ppt		1	1.2	3.9		
perfluorononanoic acid (PFNA)	[1.74]	ppt		1	1.5	4.9		J
perfluorooctanesulfonic acid (PFOS)	[4.96]	ppt		1	1.7	5.3		J
perfluorodecanoic acid (PFDA)	[1.1]	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 (PFTriDA)	ND	ppt		1	3.2	10		
perfluorotetradecanoic acid (PFTA)	ND	ppt		1	2.8	8.9		
C13-PFHxA (SURR)	119.844%							S
C13-PFDA (SURR)	100.634%							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.

**COLLECTION AND CHAIN OF CUSTODY**

CLIENT: Brunswick County PL&D PROJECT NAME: GenX + Compounds REPORT NO: 17-16671  
 ADDRESS: PO Box 249 CONTACT NAME: Glenn Walker PO NO:  
Belvidere, NC 28422 REPORT TO: Glenn Walker PHONE/FAX: 910-371-3490  
 Copied By: Thaddeus Hill SAMPLE TYPE: I = Influent, E = Effluent, W = Well, ST = Stream, SO = Soil, SL = Sludge, Other: email: glenn.walker@brunswickcounty.com

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	THO		OTHER
102617-501	10-26-17		22	Raw	C	P		40357								EPA 537 + GenX
102617-ED1	10-26-17			DW	G	P		40358								
					C	P										
					G	P										
					C	P										
					G	P										
					C	P										
					G	P										
					C	P										
					G	P										
					C	P										
					G	P										

Transfer Relinquished By: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 1. \_\_\_\_\_  
 2. \_\_\_\_\_  
 Temperature when Received: \_\_\_\_\_ Accepted: \_\_\_\_\_ Rejected: \_\_\_\_\_ Resample Requested: \_\_\_\_\_  
 Delivered By: [Signature] Received By: [Signature] Date: 10/27/17 Time: 1:00  
 Comments: \_\_\_\_\_ TURNAROUND: \_\_\_\_\_