



Environmental Chemists, Inc.

6602 Windmill Way, Wilmington, NC 28405 • 910.392.0223 Lab • 910.392.4424 Fax
710 Bowsertown Road, Manteo, NC 27954 • 252.473.5702 Lab/Fax
255-A Wilmington Highway, Jacksonville, NC 28540 • 910.347.5843 Lab/Fax

ANALYTICAL & CONSULTING CHEMISTS

info@environmentalchemists.com

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 Chemists NLS Project: 289918

Project Description: GenX Samples

Project Title: Template: 537PPTGENX Printed: 11/10/2017 10:07

Sample: 1027502 40357 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		
perfluoroheptanoic 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 (PFDoA)	ND	ppt	1	1.9	6.1		
perfluorotridecanoic acid (PFTrDA)	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		
perfluoroheptanoic 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		J
perfluoroundecanoic acid (PFUnA)	ND	ppt	1	1.0	3.0		
perfluorododecanoic acid (PFDoA)	ND	ppt	1	1.9	6.1		
perfluorotridecanoic acid (PFTrDA)	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 Pied	PROJECT NAME: Gen X + Compounds	REPORT NO: 17-16671
ADDRESS: PO Box 249	CONTACT NAME: Glenn Walker	PO NO:
Bolivia, NC 28422	REPORT TO: Glenn Walker	PHONE/FAX: 910-371-3490
	COPY TO:	email: glenn.walker@brunswickcountync.gov

Sampled By: Thaddeus Hill

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	THO	OTHER	
102617-SO1	10-26-17		22	Raw	C	P		40357								EPA 537 + Gen X
102617-E01	10-26-17			DW	C	P		40358								
					G	G										
					C	P										
					G	G										
					C	P										
					G	G										
					C	P										
					G	G										
					C	P										
					G	G										
					C	P										
					G	G										
					C	P										
					G	G										

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: 1100
 Comments: _____ TURNAROUND: _____