



Environmental Chemists, Inc.

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ANALYTICAL & CONSULTING CHEMISTS

info@environmentalchemists.com

April 11, 2018

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

Report #2018-04511

Enclosed please find your analytical report.

Sincerely,

Tammy Duran
Environmental Chemists, Inc.

Sample: 1047407 11196 Collected: 03/22/18 Analyzed: 04/03/18 - Analytes: 13

ANALYTE NAME	RESULT	UNITS	WMB	DIL	LOD	LOQ	MCL	Note
perfluorobutanesulfonic acid (PFBS)	ND	ppt		1	6.6	21		
perfluorohexanoic acid (PFHxA)	31.2	ppt		1	1.3	4.0		BD
perfluoro-2-propoxypropionic acid (GenX)	5.93	ppt		1	0.73	2.3		
perfluorohexanoic acid (PFHxA)	31.9	ppt		1	0.80	2.6		J
perfluorohexanesulfonic acid (PFHxS)	[3.42]	ppt		1	2.8	8.8		
perfluorooctanoic acid (PFOA)	10.4	ppt		1	1.2	3.9		
perfluorononanoic acid (PFNA)	[2.27]	ppt		1	1.5	4.9		J
perfluorooctanesulfonic acid (PFOS)	11.8	ppt		1	1.7	5.3		
perfluorodecanoic acid (PFDA)	[1.81]	ppt		1	0.90	2.7		J
perfluoroundecanoic acid (PFUa)	ND	ppt		1	1.0	3.0		
perfluorododecanoic acid (PFDoA)	ND	ppt		1	1.9	6.1		
perfluorotetradecanoic acid (PFTDA)	ND	ppt		1	3.2	10		
perfluorotetradecanoic acid (PFTDA)	ND	ppt		1	2.8	8.9		S
C13-PFHxA (SURR)	73.127%			1				S
C13-PFDA (SURR)	97.143%			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.
 perfluorohexanoic acid (PFHxA) detected at 2.9 ppt.

ANALYTICAL RESULTS: Perfluorinated Chemicals by EPA 537 Rev 1.1 Safe Drinking Water Analysis

Customer: Environmental Chemists NLS Project: 296893
 Project Description: EPA 537 with GenX
 Project Title: Template: 537PPTGENX Printed: 04/10/2018 11:38

Sample: 1047408 11195 Collected: 03/22/18 Analyzed: 04/03/18 - Analytes: 13

ANALYTE NAME	RESULT	UNITS	WWB	DIL	LOD	LOQ	MCL	Note
perfluorobutanesulfonic acid (PFBS)	ND	ppt		1	6.6	21		
perfluorohexanoic acid (PFHxA)	31.9	ppt		1	1.3	4.0		BD
perfluoro-2-propoxypropanoic acid (GenX)	7.15	ppt		1	0.73	2.3		
perfluoroheptanoic acid (PFHpA)	35.1	ppt		1	0.80	2.6		
perfluorohexanesulfonic acid (PFHxS)	[4.95]	ppt		1	2.8	8.8		J
perfluorooctanoic acid (PFOA)	12.3	ppt		1	1.2	3.9		
perfluorooctanoic acid (PFNA)	[2.44]	ppt		1	1.5	4.9		J
perfluorooctanesulfonic acid (PFOS)	13	ppt		1	1.7	5.3		
perfluorodecanoic acid (PFDA)	[1.97]	ppt		1	0.90	2.7		J
perfluoroundecanoic acid (PFUdA)	ND	ppt		1	1.0	3.0		
perfluorododecanoic acid (PFDDA)	ND	ppt		1	1.9	6.1		
perfluorotridecanoic acid (PFTriDA)	ND	ppt		1	3.2	10		
perfluorotetradecanoic acid (PFTeDA)	ND	ppt		1	2.8	8.9		
C13-PFHxA (SURR)	70.964%			1				S
C13-PFDA (SURR)	95.805%			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.
 perfluorohexanoic acid (PFHxA) detected at 2.9 ppt.



Analytical & Consulting Chemists

ENVIRONMENTAL CHEMISTS, INC

NCDENR: DWQ CERTIFICATION # 94 NCDHHS: DLS CERTIFICATION # 37729

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COLLECTION AND CHAIN OF CUSTODY

Client: Brunswick County Water PROJECT NAME: _____ REPORT NO: 18-04511

ADDRESS: P.O. Box 244 CONTACT NAME: Gwend Walker PO NO: _____

BOLIVIA, N.C. 28422 REPORT TO: SAME PHONE/FAX: _____

Sampled By: Billy Benton COPY TO: _____ email: gwalker@brunswickcountync.gov

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	
032218-SOI	3-22-18	0837	14°		C	P		11195							EPA 537 + GENX	
032218-E01	3-22-18	0837			C	G		11196								
					C	P										
					G	G										
					C	P										
					G	G										
					C	P										
					G	G										
					C	P										
					G	G										
					C	P										
					G	G										

Transfer Relinquished By: Billy Benton Date/Time: _____ Received By: _____ Date/Time: _____

1. Temperature when Received: 71D Accepted: Rejected: _____ Resample Requested: _____

Delivered By: Billy Benton Received By: Jovan Date: 3/22/18 Time: 1300

Comments: _____ TURNAROUND: _____