



Environmental Chemists, Inc.

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ANALYTICAL & CONSULTING CHEMISTS

info@environmentalchemists.com

November 21, 2017

Brunswick County Public Utilities

Post Office Box 249

Bolivia, NC 28422

Attn: Glenn Walker

Report #2017-17409

Enclosed please find your analytical report.

Sincerely,

A handwritten signature in cursive script that reads "Tammy Duran".

Tammy Duran

Environmental Chemists, Inc.

Customer: Environmental Chemists
 Project Description: GenX Samples
 Project Title: NLS Project: 290513

Template: 537PPTGENX Printed: 11/17/2017 15:54

Sample: 1029284_42134 Collected: 11/09/17 Analyzed: 11/17/17 - Analytes: 13

ANALYTE NAME	RESULT	UNITS	WWB	DIL	LOD	LOQ	MCL	Note
perfluorobutanesulfonic acid (PFBS)	ND	ppt		1	6.6	21		
perfluorohexanoic acid (PFHxA)	46.9	ppt		1	1.3	4.0		
perfluoro-2-propoxypropanoic acid (GenX)	43.5	ppt		1	0.73	2.3		
perfluoroheptanoic acid (PFHpA)	41.6	ppt		1	0.80	2.6		
perfluorohexanesulfonic acid (PFHxS)	[7.89]	ppt		1	2.8	8.8		J
perfluorooctanoic acid (PFOA)	16.9	ppt		1	1.2	3.9		
perfluorononanoic acid (PFNA)	[3.76]	ppt		1	1.5	4.9		J
perfluorooctanesulfonic acid (PFOS)	13.1	ppt		1	1.7	5.3		
perfluoroundecanoic acid (PFDA)	2.76	ppt		1	0.90	2.7		
perfluorododecanoic acid (PFDoA)	ND	ppt		1	1.0	3.0		
perfluorotridecanoic acid (PFTDA)	ND	ppt		1	1.9	6.1		
perfluorotetradecanoic acid (PFTA)	ND	ppt		1	3.2	10		
C13-PFHxA (SURR)	117.416%			1	2.8	8.9		S
C13-PFDA (SURR)	96.16%			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.

Sample: 1029285_42135 Collected: 11/09/17 Analyzed: 11/17/17 - Analytes: 13

ANALYTE NAME	RESULT	UNITS	WWB	DIL	LOD	LOQ	MCL	Note
perfluorobutanesulfonic acid (PFBS)	ND	ppt		1	6.6	21		
perfluorohexanoic acid (PFHxA)	36.5	ppt		1	1.3	4.0		
perfluoro-2-propoxypropanoic acid (GenX)	33.2	ppt		1	0.73	2.3		
perfluoroheptanoic acid (PFHpA)	28.2	ppt		1	0.80	2.6		
perfluorohexanesulfonic acid (PFHxS)	[4.44]	ppt		1	2.8	8.8		J
perfluorooctanoic acid (PFOA)	10.4	ppt		1	1.2	3.9		
perfluorononanoic acid (PFNA)	[2.05]	ppt		1	1.5	4.9		J
perfluorooctanesulfonic acid (PFOS)	5.61	ppt		1	1.7	5.3		
perfluoroundecanoic acid (PFDA)	[1.2]	ppt		1	0.90	2.7		J
perfluorododecanoic acid (PFDoA)	ND	ppt		1	1.0	3.0		
perfluorotridecanoic acid (PFTDA)	ND	ppt		1	1.9	6.1		
perfluorotetradecanoic acid (PFTA)	ND	ppt		1	3.2	10		
C13-PFHxA (SURR)	113.074%			1	2.8	8.9		S
C13-PFDA (SURR)	92.918%			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.

COLLECTION AND CHAIN OF CUSTODY

CLIENT: Brunswick County PLED
 ADDRESS: PO Box 249
 Beavins NC 28422

PROJECT NAME: Gen X + Compounds
 CONTACT NAME: Glenn Walker
 REPORT TO: Glenn Walker
 COPY TO:

REPORT NO: 17-17409
 PO NO:
 PHONE/FAX: 910-371-3490
 email: glenn.walker@brunswickcountync.com

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
11917-501	11/9/17	0840	19.2	Raw	C	P		42134								EPA 537 + Gen X
11917-E01	11/9/17	0840		DW	G	P		42135								
					C	P										
					G	P										
					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: _____

Temperature when Received: _____ Accepted: Rejected: Resample Requested: _____

Delivered By: Thaddeus Hill Received By: _____ Date: 11/9/17 Time: 9:50

Comments: _____

TURNAROUND: _____