



# Environmental Chemists, Inc.

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ANALYTICAL & CONSULTING CHEMISTS

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January 31, 2018

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

Report #2017-00108

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: 293361  
 Project Description: GenX / EPA 537  
 Project Title: Template: 537PPTGENX Printed: 01/29/2018 15:41

Sample: 1037411 00298 Collected: 01/03/18 Analyzed: 01/25/18 - Analytes: 13

ANALYTE NAME	RESULT	UNITS	WWB	DIL	LOD	LOQ	MCL	Note
perfluorobutanesulfonic acid (PFBS)	ND	ppt		1	6.6	21		
perfluorohexanoic acid (PFHxA)	20.6	ppt		1	1.3	4.0		
perfluoro-2-propoxypropanoic acid (GenX)	24.1	ppt		1	0.73	2.3		
perfluorooctanoic acid (PFHxA)	19.3	ppt		1	0.80	2.6		
perfluorohexanesulfonic acid (PFHxS)	[3.7]	ppt		1	2.8	8.8		J
perfluorooctanoic acid (PFOA)	6.07	ppt		1	1.2	3.9		
perfluorononanoic acid (PFNA)	ND	ppt		1	1.5	4.9		
perfluorooctanesulfonic acid (PFOS)	[4.74]	ppt		1	1.7	5.3		J
perfluorodecanoic acid (PFDA)	ND	ppt		1	0.90	2.7		
perfluoroundecanoic acid (PFUnA)	ND	ppt		1	1.0	3.0		
perfluorododecanoic acid (PFDoA)	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)	84.197%							S
C13-PFDA (SURR)	88.669%							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: 1037412 00298 Collected: 01/03/18 Analyzed: 01/25/18 - Analytes: 13

ANALYTE NAME	RESULT	UNITS	WWB	DIL	LOD	LOQ	MCL	Note
perfluorobutanesulfonic acid (PFBS)	ND	ppt		1	6.6	21		
perfluorohexanoic acid (PFHxA)	25.7	ppt		1	1.3	4.0		
perfluoro-2-propoxypropanoic acid (GenX)	27.4	ppt		1	0.73	2.3		
perfluorooctanoic acid (PFHxA)	28.6	ppt		1	0.80	2.6		
perfluorohexanesulfonic acid (PFHxS)	[6.83]	ppt		1	2.8	8.8		J
perfluorooctanoic acid (PFOA)	10.6	ppt		1	1.2	3.9		
perfluorononanoic acid (PFNA)	[2.21]	ppt		1	1.5	4.9		J
perfluorooctanesulfonic acid (PFOS)	11.7	ppt		1	1.7	5.3		
perfluorodecanoic acid (PFDA)	[1.61]	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 (PFTriDA)	ND	ppt		1	3.2	10		
perfluorotetradecanoic acid (PFTA)	ND	ppt		1	2.8	8.9		
C13-PFHxA (SURR)	89.713%							S
C13-PFDA (SURR)	89.047%							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 PLRD  
 ADDRESS: PO Box 249  
 Belvidere, NC 28522  
 PROJECT NAME: Gen X Compounds  
 CONTACT NAME: Glenn Walker  
 REPORT TO: Glenn Walker  
 COPY TO:  
 REPORT NO: 18-108  
 PO NO:  
 PHONE/FAX: 910-371-3490  
 email: glenn.walker@brunswickcounty.nc.gov  
 Sampled By: KIM BESTOS  
 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	
10318 - S01	1/3/18	11:50 AM	9.0°C	C	(P)	G		298								EPH 537 + Gen X	
10318 - ED1	1/3/18	10:55 AM	9.0°C	C	(P)	G		299									/
				C	P	G											
				C	P	G											
				C	P	G											
				C	P	G											
				C	P	G											
				C	P	G											
				C	P	G											
				C	P	G											
				C	P	G											
				C	P	G											
Transfer	Relinquished By: <u>Kim Bestos</u>	Date/Time: 1/3/18	Accepted: <input checked="" type="checkbox"/>	Received By: <u>Glenn Walker</u>	Date/Time: 1/3/18	Rejected: <input type="checkbox"/>	Resample Requested: <input type="checkbox"/>	Received By:	Date/Time:								

Delivered By: Kim Bestos Accepted:  Received By: Glenn Walker Resample Requested:  Date: 1/3/18 Time: 2:00 PM  
 Comments: TURNAROUND: