



# 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

---

July 13, 2018

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

Report #2018-09494  
Collected – June 14, 2018

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: 301918  
 Project Description: EPA 537 with GenX  
 Project Title: Template: 537PPT2GENX Printed: 07/02/2018 14:23

Sample: 1062740\_23911\_061418-S01 Collected: 06/14/18 Analyzed: 06/27/18 Analytes: 13

ANALYTE NAME	RESULT	UNITS	WWB	DIL	LOD	LOQ	MCL	Note
perfluorobutanesulfonic acid (PFBS)	ND	ppt		1	3.6	11		
perfluorohexanoic acid (PFHxA)	14	ppt		1	0.83	2.6		
perfluoro-2-propoxypropanoic acid (GenX)	10.6	ppt		1	0.62	2.0		
perfluorohexanoic acid (PFHxA)	13.4	ppt		1	0.45	1.4		
perfluorohexanesulfonic acid (PFHxS)	[3.87]	ppt		1	1.3	4.1		J
perfluorooctanoic acid (PFOA)	8.29	ppt		1	0.70	2.2		
perfluorononanoic acid (PFNA)	[1.82]	ppt		1	1.3	4.1		J
perfluorooctanesulfonic acid (PFOS)	11.3	ppt		1	1.5	4.7		
perfluorodecanoic acid (PFDA)	[2.09]	ppt		1	1.2	3.8		J
perfluoroundecanoic acid (PFUnA)	ND	ppt		1	1.2	3.7		
perfluorododecanoic acid (PFDoA)	ND	ppt		1	0.95	3.0		
perfluorotridecanoic acid (PFTDA)	ND	ppt		1	0.97	3.1		
perfluorotetradecanoic acid (PFTA)	ND	ppt		1	0.88	2.8		
C13-PFHxA (SURR)	77.843%			1				S
C13-PFDA (SURR)	87.265%			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: 1062741\_23911\_061418-S01 Collected: 06/14/18 Analyzed: 06/27/18 Analytes: 13

ANALYTE NAME	RESULT	UNITS	WWB	DIL	LOD	LOQ	MCL	Note
perfluorobutanesulfonic acid (PFBS)	[3.68]	ppt		1	3.6	11		J
perfluorohexanoic acid (PFHxA)	12.8	ppt		1	0.83	2.6		
perfluoro-2-propoxypropanoic acid (GenX)	11	ppt		1	0.62	2.0		
perfluorohexanoic acid (PFHxA)	13.2	ppt		1	0.45	1.4		
perfluorohexanesulfonic acid (PFHxS)	[3.98]	ppt		1	1.3	4.1		J
perfluorooctanoic acid (PFOA)	8.34	ppt		1	0.70	2.2		
perfluorononanoic acid (PFNA)	[1.88]	ppt		1	1.3	4.1		J
perfluorooctanesulfonic acid (PFOS)	12.6	ppt		1	1.5	4.7		
perfluorodecanoic acid (PFDA)	[1.95]	ppt		1	1.2	3.8		J
perfluoroundecanoic acid (PFUnA)	ND	ppt		1	1.2	3.7		
perfluorododecanoic acid (PFDoA)	ND	ppt		1	0.95	3.0		
perfluorotridecanoic acid (PFTDA)	ND	ppt		1	0.97	3.1		
perfluorotetradecanoic acid (PFTA)	ND	ppt		1	0.88	2.8		
C13-PFHxA (SURR)	85.427%			1				S
C13-PFDA (SURR)	91.791%			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.



Analytical & Consulting Chemists

# ENVIRONMENTAL CHEMISTS, INC

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

6602 Windmill Way Wilmington, NC 28405  
 OFFICE: 910-392-0223 FAX 910-392-4424  
 info@environmentalchemists.com

## COLLECTION AND CHAIN OF CUSTODY

CLIENT: <u>Brunswick County Water</u>	PROJECT NAME:	REPORT NO.:
ADDRESS: <u>P.O. Box 249</u>	CONTACT NAME: <u>GLEN WALKER</u>	PO NO.:
<u>BOLIVIA N.C. 28402</u>	REPORT TO: <u>SAME</u>	PHONE/FAX:
	COPY TO:	email: <u>glen.walker@brunswickcounty.gov</u>

Sampled By: Billy Beaton 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		Zn acetate
061418-501	6/14/18	10:15 AM	26.5	RAW	(G)	(P)		23910								EPA 537 + GENX
061418-ED1	6/14/18	10:15 AM	26.5	DLW	(G)	(P)		23911								
					(G)	(P)										
					(G)	(P)										
					(G)	(P)										
					(G)	(P)										
					(G)	(P)										
					(G)	(P)										
					(G)	(P)										
					(G)	(P)										
					(G)	(P)										
					(G)	(P)										
					(G)	(P)										
					(G)	(P)										

Transfer	Relinquished By: <u>Billy Beaton</u>	Date/Time	Received By:	Date/Time
1.				
2.				

Temperature when Received: \_\_\_\_\_ Accepted:

Delivered By: Billy Beaton Received By: [Signature] Resample Requested: \_\_\_\_\_

Comments: \_\_\_\_\_ Date: 6-14-18 Time: 12:49

TURNAROUND: \_\_\_\_\_