



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

October 11, 2018

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

Report #2018-15790

Collected – September 27, 2018

Enclosed please find your analytical report.

Sincerely,

Tammy Duran
Environmental Chemists, Inc.

Customer: Environmental Chemists NLS Project: 309519

Project Description: PFCs with GenX by EPA 537

Project Title: Template: 537PPT2GENX Printed: 10/10/2018 15:28

Sample: 1085319 39865 Collected: 09/27/18 Analyzed: 10/08/18 - Analyses: 13

ANALYTE NAME	RESULT	UNITS	WWB	DIL	LOD	LOQ	Note
perfluorobutanesulfonic acid (PFBS)	ND	ppt		1	3.6	1.1	
perfluorohexanoic acid (PFHxA)	[1.96]	ppt		1	0.83	2.6	J
perfluoro-2-propoxypropanoic acid (GenX)	14.9	ppt		1	0.62	2.0	
perfluorohexanoic acid (PFHxA)	4.43	ppt		1	0.45	1.4	
perfluorohexanesulfonic acid (PFHxS)	5.22	ppt		1	1.3	4.1	
perfluorooctanoic acid (PFOA)	4.84	ppt		1	0.70	2.2	
perfluorononanoic acid (PFNA)	ND	ppt		1	1.3	4.1	
perfluorooctanesulfonic acid (PFOS)	5.92	ppt		1	1.5	4.7	
perfluorodecanoic acid (PFDA)	ND	ppt		1	1.2	3.8	
perfluoroundecanoic acid (PFUnA)	ND	ppt		1	1.2	3.7	
perfluorododecanoic acid (PFDoA)	ND	ppt		1	0.95	3.0	
perfluorotridecanoic acid (PFTriDA)	ND	ppt		1	0.97	3.1	
perfluorotetradecanoic acid (PFTeTA)	ND	ppt		1	0.88	2.8	
C13-PFHxA (SURR)	57.402%			1			SR S
C13-PFDA (SURR)	78.887%			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.

SR = Surrogate recovery was outside QC limits.

C13-PFHxA recovered below QC limits.

ANALYTE NAME	RESULT	UNITS	WWB	DIL	LOD	LOQ	Note
perfluorobutanesulfonic acid (PFBS)	ND	ppt		1	3.6	1.1	
perfluorohexanoic acid (PFHxA)	[1.8]	ppt		1	0.83	2.6	J
perfluoro-2-propoxypropanoic acid (GenX)	10.4	ppt		1	0.62	2.0	
perfluorohexanoic acid (PFHxA)	4.24	ppt		1	0.45	1.4	
perfluorohexanesulfonic acid (PFHxS)	[3.96]	ppt		1	1.3	4.1	J
perfluorooctanoic acid (PFOA)	4.87	ppt		1	0.70	2.2	
perfluorononanoic acid (PFNA)	ND	ppt		1	1.3	4.1	
perfluorooctanesulfonic acid (PFOS)	7.03	ppt		1	1.5	4.7	
perfluorodecanoic acid (PFDA)	ND	ppt		1	1.2	3.8	
perfluoroundecanoic acid (PFUnA)	ND	ppt		1	1.2	3.7	
perfluorododecanoic acid (PFDoA)	ND	ppt		1	0.95	3.0	
perfluorotridecanoic acid (PFTriDA)	ND	ppt		1	0.97	3.1	
perfluorotetradecanoic acid (PFTeTA)	ND	ppt		1	0.88	2.8	
C13-PFHxA (SURR)	61.627%			1			SR S
C13-PFDA (SURR)	91.565%			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.

SR = Surrogate recovery was outside QC limits.

C13-PFHxA recovered below QC limits.

The PFOA branch isotope peak is included in the PFOA calculation per EPA directive.

COLLECTION AND CHAIN OF CUSTODY

CLIENT: Braunsoid County Water	PROJECT NAME:	REPORT NO.:
ADDRESS: P.O. Box 249 Bouvia N.C. 28422	CONTACT NAME: Glenn Walker	PO NO.:
	REPORT TO: SAME	PHONE/FAX:
	COPY TO:	email: glenn.walker@braunsoidcounty.gov

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	
092718-S01	9-27-18	1145AM	26°C	RM	C	(P)		39845							EPA 537 + GENX
					(G)	G									
092718-E01	9-27-18	1145AM	26°C	RM	C	(P)		39846							/
					(G)	G									
					C	P									
					G	G									
					C	P									
					G	G									
					C	P									
					G	G									
					C	P									
					G	G									
					C	P									
					G	G									

Sampled By: Billy Benton	Relinquished By: Billy Benton	Date/Time	Received By:	Date/Time
		9-27-18		
Temperature when Received: 16	Accepted:	Rejected:	Resample Requested:	
Delivered By:	Received By:	Date: 9/28/18	Time: 1200	
Comments:	TURNAROUND:			