



Environmental Chemists, Inc.

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ANALYTICAL & CONSULTING CHEMISTS

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March 14 2018

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

Report #2018-02843

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: 295353
 Project Description: EPA 537 with GenX
 Project Title: C13-PFHXA recovered below QC limits

Template: 537PPTGENX Printed: 03/13/2018 14:29

Sample: 1042888 06949 Collected: 02/22/18 Analyzed: 03/09/18 Analytes: 13

ANALYTE NAME	RESULT	UNITS	WWB	DIL	LOD	LOQ	MCL	Note
perfluorobutanesulfonic acid (PFBS)	ND	ppt		1	6.6	21		
perfluorohexanoic acid (PFHxA)	6.98	ppt		1	1.3	4.0		
perfluoro-2-propoxypropionic acid (GenX)	7.7	ppt		1	0.73	2.3		
perfluorooheptanoic acid (PFHpA)	6.26	ppt		1	0.80	2.6		
perfluorohexanesulfonic acid (PFHS)	[3.68]	ppt		1	2.8	8.8		J
perfluorooctanoic acid (PFOA)	6.35	ppt		1	1.2	3.9		
perfluorononanoic acid (PFNA)	ND	ppt		1	1.5	4.9		
perfluorooctanesulfonic acid (PFOS)	11	ppt		1	1.7	5.3		
perfluorodecanoic acid (PFDA)	[1.11]	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 (PFTDA)	ND	ppt		1	3.2	10		
perfluorotetradecanoic acid (PTTA)	ND	ppt		1	2.8	8.9		
C13-PFHXA (SURR)	52.779%							SRS
C13-PFDA (SURR)	85.665%							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.

Sample: 1042889 06949 Collected: 02/22/18 Analyzed: 03/09/18 Analytes: 13

ANALYTE NAME	RESULT	UNITS	WWB	DIL	LOD	LOQ	MCL	Note
perfluorobutanesulfonic acid (PFBS)	ND	ppt		1	6.6	21		
perfluorohexanoic acid (PFHxA)	6.88	ppt		1	1.3	4.0		
perfluoro-2-propoxypropionic acid (GenX)	6.89	ppt		1	0.73	2.3		
perfluorooheptanoic acid (PFHpA)	5.87	ppt		1	0.80	2.6		
perfluorohexanesulfonic acid (PFHS)	[3.23]	ppt		1	2.8	8.8		J
perfluorooctanoic acid (PFOA)	5.7	ppt		1	1.2	3.9		
perfluorononanoic acid (PFNA)	ND	ppt		1	1.5	4.9		
perfluorooctanesulfonic acid (PFOS)	9.42	ppt		1	1.7	5.3		
perfluorodecanoic acid (PFDA)	[0.95]	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 (PFTDA)	ND	ppt		1	3.2	10		
perfluorotetradecanoic acid (PTTA)	ND	ppt		1	2.8	8.9		
C13-PFHXA (SURR)	51.41%							SRS
C13-PFDA (SURR)	90.002%							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. GenX analysis performed by Modified EPA Method 537.

ENVIRONMENTAL CHEMISTS, INC

NC DENR: DWO CERTIFICATION # 94 NCDHHS: DLS CERTIFICATION # 37729
COLLECTION AND CHAIN OF CUSTODY

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CLIENT: Brunswick County Water
ADDRESS: P.O. Box 249
Bohemia, N.C. 28422

PROJECT NAME:
CONTACT NAME: GLENDA WALKER
REPORT TO: SAME
COPY TO:

REPORT NO: 18-02843
PO NO:
PHONE/FAX:

Sampled By: Billy Benton
Relinquished By: Billy Benton
Date/Time: / /
Received By: / /

Temperature when Received: / /
Delivered By: Billy Benton
Accepted: / /
Rejected: / /
Resample Requested: / /
Comments: / /

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	FORM	NOVA	PH		OTHER
022218-501	2-22-18	0840	16.2	RAW	C	P		06948							EPA 537 + GenX	
022218-601	2-22-18	0840		DU	C	P		06949								
					C	P										
					G	P										
					G	P										
					C	P										
					G	P										
					C	P										
					G	P										
					C	P										
					G	P										
					C	P										
					G	P										

1. Relinquished By: Billy Benton Date/Time: / / Received By: / /

2. Temperature when Received: / / Delivered By: Billy Benton Accepted: / / Rejected: / / Resample Requested: / /

Comments: / /

TURNAROUND: / /