



Environmental Chemists, Inc.

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ANALYTICAL & CONSULTING CHEMISTS

info@environmentalchemists.com

July 20, 2017

Brunswick Regional Water & Sewer
Post Office Box 2230
Leland, NC 28451

Enclosed please find your analytical reports.

Sincerely,

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

Tammy Duran

Environmental Chemists, Inc.

ANALYTICAL REPORT

NORTHERN LAKE SERVICE, INC.
 Analytical Laboratory and Environmental Services
 400 North Lake Avenue - Crandon, WI 54520
 Ph: (715)-478-2777 Fax: (715)-478-3080

Client: Environmental Chemists
 Attn: Ray Porter
 6602 Windmill Way
 Wilmington, NC 28405

WDNR Laboratory ID No. 721026460
 WDATCP Laboratory Certification No. 105-330
 EPA Laboratory ID No. W1000034

Printed: 07/19/17 Page 1 of 1
 NLS Project: 282798
 NLS Customer: 96259
 Fax: 910 392 4424 Phone: 910 392 0223

Project: GENX 2017-09761

17-23363 NLS ID: 1003231	Parameter	Result	Units	Dilution	LOD	LOQ/MCL	Analyzed	Method	Lab
COC: 192200-1 Mathx: DW	Collected: 07/11/17 09:10 Received: 07/12/17								
Parameter	Solid Phase Extraction by EPA Method 537	Yes					07/18/17	EPA 537	721026460
	GenX and PFCs by EPA 537	see attached					07/18/17	EPA 537	721026460
17-23363 FB NLS ID: 1003232	COC: 192200-1 Mathx: FB								
Parameter	Collected: 07/11/17 09:10 Received: 07/12/17								
	Solid Phase Extraction by EPA Method 537	not analyzed					07/18/17	EPA 537	721026460
	GenX and PFCs by EPA 537	not analyzed					07/18/17	EPA 537	721026460

Values in brackets represent results greater than or equal to the LOD but less than the LOQ and are within a region of "Less-Certain Quantitation". Results greater than or equal to the LOQ are considered to be in the region of "Certain Quantitation". LOD and/or LOQ tagged with an asterisk(*) are considered Reporting Limits. All LOD/LOQs adjusted to reflect dilution and/or solids content.

ND = Not Detected (< LOD) LOD = Limit of Detection LOQ = Limit of Quantitation NA = Not Applicable

DWB = Dry Weight Basis %DWB = (mg/kg DWB) / 10000 1000 ug/L = 1 mg/L

MCL = Maximum Contaminant Levels for Drinking Water Samples. Shaded results indicate >MCL.

Reviewed by: _____
 Authorized by:
 R. T. Krueger
 President

ANALYTICAL RESULTS: Perfluorinated Chemicals by EPA 537 Rev 1.1 Safe Drinking Water Analysis

Customer: Environmental Chemists NLS Project: 282798
 Project Description: GENX
 Project Title: 2017-09761

Template: 537PPTGENX Printed: 07/19/2017 10:33

ANALYTE NAME	RESULT	UNITS	SWB	DIL	LOD	LOQ	MCL	Note
perfluorobutanesulfonic acid (PFBS)	ND	ppt		1	6.6	21		
perfluorohexanoic acid (PFHxA)	8.22	ppt		1	1.3	4.0		
perfluoro-2-propoxypropanoic acid (GenX)	57.6	ppt		1	0.73	2.3		
perfluorooheptanoic acid (PFHpA)	5.45	ppt		1	0.80	2.6		
perfluorohexanesulfonic acid (PFHxS)	ND	ppt		1	2.8	8.8		
perfluorooctanoic acid (PFcOA)	3.95	ppt		1	1.2	3.9		
perfluorononanoic acid (PFNA)	ND	ppt		1	1.5	4.9		
perfluorooctanesulfonic acid (PFOS)	[3.71]	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 (PFDDA)	ND	ppt		1	1.9	6.1		
perfluorotridecanoic acid (PFTDA)	ND	ppt		1	3.2	10		
perfluorotetradecanoic acid (PFTA)	ND	ppt		1	2.8	8.9		
C13-PFHxA (SURR)	81.11%							S
C13-PFDA (SURR)	86.43%							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.

The PFOA branch isotope peak is included in the PFOA calculation per EPA directive. GenX only analysis performed by Modified EPA Method 537.



Analytical & Consulting Chemists

ENVIRONMENTAL CHEMISTS, INC

NC DENR: 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: H2GO PROJECT NAME: REPORT NO: 17-09761

ADDRESS: CONTACT NAME: PO NO:

REPORT TO: PHONE/FAX:

COPY TO: email:

Sampled By:

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
051	7/11/17	9:15 AM		C	P			238103								EPA 537 include GenX
				(G)	G											
				C	P											
				G	G											
				C	P											
				C	P											
				G	G											
				C	P											
				G	G											
				C	P											
				G	G											
				C	P											
				G	G											
				C	P											
				G	G											

Temperature when Received: Accepted: Rejected: Resample Requested:

Delivered By: Scott A. Lewis Received By: [Signature] Date: 7/11/17 Time: 1:30 PM

Comments: TURNAROUND: