

October 06, 2017

Bob Walker
H2GO Brunswick Regional Water & Sewer
516 Village Road, NE
Leland, North Carolina 28451

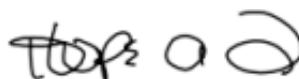
Re: Sample Analysis
Work Order: 429048

Dear Bob Walker:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on July 27, 2017. This original data report has been prepared and reviewed in accordance with GEL's standard operating procedures.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at (843) 556-8171, ext. 4778.

Sincerely,



Hope Taylor
Project Manager

Purchase Order: signed quote
Enclosures

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 – (843) 556-8171 – www.gel.com

Certificate of Analysis Report for

H2GO001 H2GO Brunswick Regional Water & Sewer

Client SDG: 429048 GEL Work Order: 429048

The Qualifiers in this report are defined as follows:

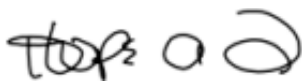
- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- H Analytical holding time was exceeded
- J Value is estimated
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- X Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

The designation ND, if present, appears in the result column when the analyte concentration is not detected above the limit as defined in the 'U' qualifier above.

This data report has been prepared and reviewed in accordance with GEL Laboratories LLC standard operating procedures. Please direct any questions to your Project Manager, Hope Taylor.

Reviewed by



GEL LABORATORIES LLC

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Certificate of Analysis

Company : H2GO Brunswick Regional Water &
Sewer
Address : 516 Village Road, NE
Leland, North Carolina 28451
Contact: Bob Walker
Project: **Sample Analysis**

Report Date: October 6, 2017

Client Sample ID: 001
Sample ID: 429048001
Matrix: Water
Collect Date: 26-JUL-17 14:15
Receive Date: 27-JUL-17
Collector: Client

Project: H2GO00117
Client ID: H2GO001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
LCMSMS PFCs												
<i>GEL's Full List PFCs "As Received"</i>												
2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)-propanoic acid (PFPrOPrA)		55.1	2.88	8.73	ng/L	0.0175	5	JLS	08/03/17	0220	1686972	1
Fluorotelomer sulfonate 4:2 (4:2 FTS)	U	ND	5.76	16.4	ng/L	0.0175	5					
<i>NC 6 PFCs by LC-MS/MS "As Received"</i>												
Nafion Byproduct 1	HX	5.19			ng/L	0.0175	5	JLS	09/08/17	0745	1698648	2
Nafion Byproduct 2	HX	134			ng/L	0.0175	5					
Perfluoro(3,5,7,9-tetraoxadecanoic) acid (PFO4DA)	HX	22.7			ng/L	0.0175	5					
Perfluoro(3,5,7-trioxaoctanoic) acid (PFO3OA)	HX	23.2			ng/L	0.0175	5					
Perfluoro(3,5-dioxahexanoic) acid (PFO2HxA)	HX	45.0			ng/L	0.0175	5					
Perfluoro-2-methoxyacetic acid (PFMOAA)	HUX	ND			ng/L	0.0175	5					
Perfluoro-3-methoxypropanoic acid (PFMOPrA)	HX	13.1			ng/L	0.0175	5					
Perfluoro-4-methoxybutanic acid (PFMOBA)	HX	3.38			ng/L	0.0175	5					
<i>PFOA, PFOS by LC-MS/MS "As Received"</i>												
Fluorotelomer sulfonate 6:2 (6:2 FTS)	U	ND	1.15	3.32	ng/L	0.0175	1	JLS	08/03/17	0616	1686972	3
Fluorotelomer sulfonate 8:2 (8:2 FTS)	U	ND	1.15	3.35	ng/L	0.0175	1					
Perfluorobutanesulfonate (PFBS)		3.74	0.576	1.55	ng/L	0.0175	1					

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Address : 516 Village Road, NE
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Contact: Bob Walker
Project: **Sample Analysis**

Report Date: October 6, 2017

Client Sample ID: 001
Sample ID: 429048001

Project: H2GO00117
Client ID: H2GO001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
LCMSMS PFCs												
<i>PFOA, PFOS by LC-MS/MS "As Received"</i>												
Perfluorobutyric acid (PFBA)		8.45	0.576	1.75	ng/L	0.0175	1					
Perfluorodecanesulfonate (PFDS)	U	ND	0.576	1.69	ng/L	0.0175	1					
Perfluorodecanoic acid (PFDA)	J	1.17	0.576	1.75	ng/L	0.0175	1					
Perfluorododecanoic acid (PFDoA)	U	ND	0.576	1.75	ng/L	0.0175	1					
Perfluoroheptanesulfonate (PFHpS)	U	ND	0.576	1.66	ng/L	0.0175	1					
Perfluoroheptanoic acid (PFHpA)		8.48	0.576	1.75	ng/L	0.0175	1					
Perfluorohexanesulfonate (PFHxS)		6.40	0.576	1.59	ng/L	0.0175	1					
Perfluorohexanoic acid (PFHxA)		14.7	0.576	1.75	ng/L	0.0175	1					
Perfluorononanesulfonate (PFNS)	U	ND	0.576	1.68	ng/L	0.0175	1					
Perfluorononanoic acid (PFNA)	J	1.70	0.576	1.75	ng/L	0.0175	1					
Perfluorooctanesulfonamide (PFOSA)	U	ND	0.576	1.62	ng/L	0.0175	1					
Perfluorooctanesulfonate (PFOS)		11.9	0.576	1.75	ng/L	0.0175	1					
Perfluorooctanoic acid (PFOA)		8.56	0.576	1.75	ng/L	0.0175	1					
Perfluoropentanesulfonate (PFPeS)	J	1.09	0.576	1.64	ng/L	0.0175	1					
Perfluoropentanoic acid (PFPeA)		17.1	0.576	1.75	ng/L	0.0175	1					
Perfluorotetradecanoic acid (PFTeDA)	U	ND	0.576	1.75	ng/L	0.0175	1					
Perfluorotridecanoic acid (PFTrDA)	U	ND	0.576	1.75	ng/L	0.0175	1					
Perfluoroundecanoic acid (PFUdA)	U	ND	0.576	1.75	ng/L	0.0175	1					

Surrogate/Tracer recovery	Result	Nominal	Recovery%	Acceptable Limits	Date Time:	08/03/17 06 16
Semi-Volatile-GC/MS						

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Certificate of Analysis

Company : H2GO Brunswick Regional Water &
Sewer

Address : 516 Village Road, NE
Leland, North Carolina 28451

Report Date: October 6, 2017

Contact: Bob Walker

Project: **Sample Analysis**

Client Sample ID: 001
Sample ID: 429048001

Project: H2GO00117
Client ID: H2GO001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Semi-Volatile-GC/MS												
<i>SW846 3510C/8270D SVOA (Separatory Funnel) "As Received"</i>												
1,1'-Biphenyl	U	ND	3.00	10.0	ug/L	0.001	1	JMB3	08/02/17	1154	1687007	4
1,2,4,5-Tetrachlorobenzene	U	ND	3.00	10.0	ug/L	0.001	1					
2,3,4,6-Tetrachlorophenol	U	ND	3.00	10.0	ug/L	0.001	1					
2,4,5-Trichlorophenol	U	ND	3.00	10.0	ug/L	0.001	1					
2,4,6-Trichlorophenol	U	ND	3.00	10.0	ug/L	0.001	1					
2,4-Dichlorophenol	U	ND	3.00	10.0	ug/L	0.001	1					
2,4-Dimethylphenol	U	ND	3.00	10.0	ug/L	0.001	1					
2,4-Dinitrophenol	U	ND	5.00	20.0	ug/L	0.001	1					
2,4-Dinitrotoluene	U	ND	3.00	10.0	ug/L	0.001	1					
2,6-Dinitrotoluene	U	ND	3.00	10.0	ug/L	0.001	1					
2-Chloronaphthalene	U	ND	0.410	1.00	ug/L	0.001	1					
2-Chlorophenol	U	ND	3.00	10.0	ug/L	0.001	1					
2-Methyl-4,6-dinitrophenol	U	ND	3.00	10.0	ug/L	0.001	1					
2-Methylnaphthalene	U	ND	0.300	1.00	ug/L	0.001	1					
2-Nitrophenol	U	ND	3.00	10.0	ug/L	0.001	1					
3,3'-Dichlorobenzidine	U	ND	3.00	10.0	ug/L	0.001	1					
4-Bromophenylphenylether	U	ND	3.00	10.0	ug/L	0.001	1					
4-Chloro-3-methylphenol	U	ND	3.00	10.0	ug/L	0.001	1					
4-Chloroaniline	U	ND	3.30	10.0	ug/L	0.001	1					
4-Chlorophenylphenylether	U	ND	3.00	10.0	ug/L	0.001	1					
4-Nitrophenol	U	ND	3.00	10.0	ug/L	0.001	1					
Acenaphthene	U	ND	0.300	1.00	ug/L	0.001	1					
Acenaphthylene	U	ND	0.300	1.00	ug/L	0.001	1					
Acetophenone	U	ND	3.00	10.0	ug/L	0.001	1					
Anthracene	U	ND	0.300	1.00	ug/L	0.001	1					
Atrazine	U	ND	3.00	10.0	ug/L	0.001	1					
Benzaldehyde	U	ND	3.00	10.0	ug/L	0.001	1					
Benzo(a)anthracene	U	ND	0.300	1.00	ug/L	0.001	1					
Benzo(a)pyrene	U	ND	0.300	1.00	ug/L	0.001	1					
Benzo(b)fluoranthene	U	ND	0.300	1.00	ug/L	0.001	1					
Benzo(ghi)perylene	U	ND	0.300	1.00	ug/L	0.001	1					

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Contact: Bob Walker
Project: **Sample Analysis**

Report Date: October 6, 2017

Client Sample ID: 001
Sample ID: 429048001

Project: H2GO00117
Client ID: H2GO001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Semi-Volatile-GC/MS												
<i>SW846 3510C/8270D SVOA (Separatory Funnel) "As Received"</i>												
Benzo(k)fluoranthene	U	ND	0.300	1.00	ug/L	0.001	1					
Butylbenzylphthalate	U	ND	3.00	10.0	ug/L	0.001	1					
Caprolactam	U	ND	3.00	10.0	ug/L	0.001	1					
Carbazole	U	ND	0.300	1.00	ug/L	0.001	1					
Chrysene	U	ND	0.300	1.00	ug/L	0.001	1					
Di-n-butylphthalate	U	ND	3.00	10.0	ug/L	0.001	1					
Di-n-octylphthalate	U	ND	3.00	10.0	ug/L	0.001	1					
Dibenzo(a,h)anthracene	U	ND	0.300	1.00	ug/L	0.001	1					
Dibenzofuran	U	ND	3.00	10.0	ug/L	0.001	1					
Diethylphthalate	U	ND	3.00	10.0	ug/L	0.001	1					
Dimethylphthalate	U	ND	3.00	10.0	ug/L	0.001	1					
Diphenylamine	U	ND	3.00	10.0	ug/L	0.001	1					
Fluoranthene	U	ND	0.300	1.00	ug/L	0.001	1					
Fluorene	U	ND	0.300	1.00	ug/L	0.001	1					
Hexachlorobenzene	U	ND	3.00	10.0	ug/L	0.001	1					
Hexachlorobutadiene	U	ND	3.00	10.0	ug/L	0.001	1					
Hexachlorocyclopentadiene	U	ND	3.00	10.0	ug/L	0.001	1					
Hexachloroethane	U	ND	3.00	10.0	ug/L	0.001	1					
Indeno(1,2,3-cd)pyrene	U	ND	0.300	1.00	ug/L	0.001	1					
Isophorone	U	ND	3.50	10.0	ug/L	0.001	1					
N-Nitrosodipropylamine	U	ND	3.00	10.0	ug/L	0.001	1					
Naphthalene	U	ND	0.300	1.00	ug/L	0.001	1					
Nitrobenzene	U	ND	3.00	10.0	ug/L	0.001	1					
Pentachlorophenol	U	ND	3.00	10.0	ug/L	0.001	1					
Phenanthrene	U	ND	0.300	1.00	ug/L	0.001	1					
Phenol	U	ND	3.00	10.0	ug/L	0.001	1					
Pyrene	U	ND	0.300	1.00	ug/L	0.001	1					
bis(2-Chloro-1-methylethyl)ether	U	ND	3.00	10.0	ug/L	0.001	1					
bis(2-Chloroethoxy)methane	U	ND	3.00	10.0	ug/L	0.001	1					
bis(2-Chloroethyl) ether	U	ND	3.00	10.0	ug/L	0.001	1					
bis(2-Ethylhexyl)phthalate	U	ND	3.70	10.0	ug/L	0.001	1					
m,p-Cresols	U	ND	3.00	10.0	ug/L	0.001	1					
m-Nitroaniline	U	ND	3.00	10.0	ug/L	0.001	1					
o-Cresol	U	ND	3.00	10.0	ug/L	0.001	1					

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Certificate of Analysis

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Sewer
Address : 516 Village Road, NE
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Contact: Bob Walker
Project: **Sample Analysis**

Report Date: October 6, 2017

Client Sample ID: 001
Sample ID: 429048001

Project: H2GO00117
Client ID: H2GO001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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Semi-Volatile-GC/MS

SW846 3510C/8270D SVOA (Separatory Funnel) "As Received"

o-Nitroaniline	U	ND	3.00	10.0	ug/L	0.001	1
p-Nitroaniline	U	ND	3.00	10.0	ug/L	0.001	1

Surrogate/Tracer recovery	Result	Nominal	Recovery%	Acceptable Limits	Date Time:	08/02/17 11 54
2,4,6-Tribromophenol	106 ug/L	100	106	(32%-124%)		
Phenol-d5	27.4 ug/L	100	27	(15%-91%)		
2-Fluorobiphenyl	40.5 ug/L	50.0	81	(32%-112%)		
2-Fluorophenol	41.4 ug/L	100	41	(15%-88%)		
p-Terphenyl-d14	46.6 ug/L	50.0	93	(36%-121%)		
Nitrobenzene-d5	49.3 ug/L	50.0	99	(36%-115%)		

Tentatively Identified Compound (TIC)	CAS No.	RT	Est. Concentration	Fit	Qual	Date Time:	08/02/17 11 54
unknown		1.958	33.3 ug/L	0	J		
unknown		2.181	16.5 ug/L	0	J		
unknown		3.252	68.5 ug/L	0	J		
unknown		3.452	4.3 ug/L	0	J		
unknown		4.122	4.03 ug/L	0	J		
unknown		20.416	6.96 ug/L	0	J		
unknown		21.163	13.8 ug/L	0	J		

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 537	PFCs Extraction in Drinking Water	GXC1	07/31/17	1100	1686971
SW846 3510C	3510C BNA Liq. Prep-8270 Analysis	DXF4	08/02/17	0420	1687005

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 537	
2	EPA 537	
3	EPA 537	
4	SW846 3510C/8270D	

Notes:

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Sewer
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Contact: Bob Walker
Project: **Sample Analysis**

Report Date: October 6, 2017

Client Sample ID: 001
Sample ID: 429048001

Project: H2GO00117
Client ID: H2GO001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Company : H2GO Brunswick Regional Water &
Sewer
Address : 516 Village Road, NE
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Contact: Bob Walker
Project: **Sample Analysis**

Report Date: October 6, 2017

Client Sample ID: 001 trip blank
Sample ID: 429048002
Matrix: Water
Collect Date: 26-JUL-17 14:15
Receive Date: 27-JUL-17
Collector: Client

Project: H2GO00117
Client ID: H2GO001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
LCMSMS PFCs												
<i>NC 6 PFCs by LC-MS/MS "As Received"</i>												
Nafion Byproduct 1	HUX	ND			ng/L	0.0184	1	JLS	09/08/17	0806	1698648	1
Nafion Byproduct 2	HUX	ND			ng/L	0.0184	1					
Perfluoro(3,5,7,9-tetraoxadecanoic) acid (PFO4DA)	HUX	ND			ng/L	0.0184	1					
Perfluoro(3,5,7-trioxaoctanoic) acid (PFO3OA)	HUX	ND			ng/L	0.0184	1					
Perfluoro(3,5-dioxahexanoic) acid (PFO2HxA)	HUX	ND			ng/L	0.0184	1					
Perfluoro-2-methoxyacetic acid (PFMOAA)	HUX	ND			ng/L	0.0184	1					
Perfluoro-3-methoxypropanoic acid (PFMOPrA)	HUX	ND			ng/L	0.0184	1					
Perfluoro-4-methoxybutanic acid (PFMOBA)	HUX	ND			ng/L	0.0184	1					
<i>PFOA, PFOS by LC-MS/MS "As Received"</i>												
2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)-propanoic acid (PFPrOPrA)	U	ND	0.607	1.84	ng/L	0.0184	1	JLS	08/03/17	0242	1686972	2
Fluorotelomer sulfonate 4:2 (4:2 FTS)	U	ND	1.21	3.46	ng/L	0.0184	1					
Fluorotelomer sulfonate 6:2 (6:2 FTS)	U	ND	1.21	3.49	ng/L	0.0184	1					
Fluorotelomer sulfonate 8:2 (8:2 FTS)	U	ND	1.21	3.53	ng/L	0.0184	1					
Perfluorobutanesulfonate (PFBS)	U	ND	0.607	1.64	ng/L	0.0184	1					
Perfluorobutyric acid	U	ND	0.607	1.84	ng/L	0.0184	1					

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Contact: Bob Walker
Project: **Sample Analysis**

Report Date: October 6, 2017

Client Sample ID: 001 trip blank
Sample ID: 429048002

Project: H2GO00117
Client ID: H2GO001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
LCMSMS PFCs												
<i>PFOA, PFOS by LC-MS/MS "As Received"</i>												
(PFBA)												
Perfluorodecanesulfonate (PFDS)	U	ND	0.607	1.78	ng/L	0.0184	1					
Perfluorodecanoic acid (PFDA)	U	ND	0.607	1.84	ng/L	0.0184	1					
Perfluorododecanoic acid (PFDoA)	U	ND	0.607	1.84	ng/L	0.0184	1					
Perfluoroheptanesulfonate (PFHpS)	U	ND	0.607	1.75	ng/L	0.0184	1					
Perfluoroheptanoic acid (PFHpA)	U	ND	0.607	1.84	ng/L	0.0184	1					
Perfluorohexanesulfonate (PFHxS)	U	ND	0.607	1.67	ng/L	0.0184	1					
Perfluorohexanoic acid (PFHxA)	U	ND	0.607	1.84	ng/L	0.0184	1					
Perfluorononanesulfonate (PFNS)	U	ND	0.607	1.76	ng/L	0.0184	1					
Perfluorononanoic acid (PFNA)	U	ND	0.607	1.84	ng/L	0.0184	1					
Perfluorooctanesulfonamide (PFOSA)	U	ND	0.607	1.71	ng/L	0.0184	1					
Perfluorooctanesulfonate (PFOS)	U	ND	0.607	1.84	ng/L	0.0184	1					
Perfluorooctanoic acid (PFOA)	U	ND	0.607	1.84	ng/L	0.0184	1					
Perfluoropentanesulfonate (PFPeS)	U	ND	0.607	1.73	ng/L	0.0184	1					
Perfluoropentanoic acid (PFPeA)	U	ND	0.607	1.84	ng/L	0.0184	1					
Perfluorotetradecanoic acid (PFTeDA)	U	ND	0.607	1.84	ng/L	0.0184	1					
Perfluorotridecanoic acid (PFTrDA)	U	ND	0.607	1.84	ng/L	0.0184	1					
Perfluoroundecanoic acid (PFUDa)	U	ND	0.607	1.84	ng/L	0.0184	1					
<i>Surrogate/Tracer recovery</i>		<i>Result</i>	<i>Nominal</i>	<i>Recovery%</i>	<i>Acceptable Limits</i>			<i>Date Time:</i>	<i>08/03/17 02 42</i>			

The following Prep Methods were performed

GEL LABORATORIES LLC

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Certificate of Analysis

Company : H2GO Brunswick Regional Water &
Sewer
Address : 516 Village Road, NE
Leland, North Carolina 28451
Contact: Bob Walker
Project: **Sample Analysis**

Report Date: October 6, 2017

Client Sample ID: 001 trip blank
Sample ID: 429048002

Project: H2GO00117
Client ID: H2GO001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
EPA 537	PFCs Extraction in Drinking Water	GXC1	07/31/17	1100	1686971

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	EPA 537	
2	EPA 537	

Notes:

Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

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QC Summary

Report Date: October 6, 2017

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H2GO Brunswick Regional Water & Sewer
516 Village Road, NE
Leland, North Carolina

Contact: Bob Walker

Workorder: 429048

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Perfluorinated Compounds											
Batch	1686972										
QC1203842351	429151001	DUP									
N-ethylperfluoro-1-octanesulfonamidoacetic acid (N-EtFOSAA)	U	ND	U	ND	ng/L	N/A			JLS	08/03/17	03:24
N-methylperfluoro-1-octanesulfonamidoacetic acid (N-MeFOSAA)	U	ND	U	ND	ng/L	N/A					
2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)-propanoic acid (PFPrOPrA)	U	ND	U	ND	ng/L	N/A					
Fluorotelomer sulfonate 4:2 (4:2 FTS)	U	ND	U	ND	ng/L	N/A					
Fluorotelomer sulfonate 6:2 (6:2 FTS)	U	ND	U	ND	ng/L	N/A					
Fluorotelomer sulfonate 8:2 (8:2 FTS)	U	ND	U	ND	ng/L	N/A					
Perfluorobutanesulfonate (PFBS)	U	ND	U	ND	ng/L	N/A					
Perfluorobutyric acid (PFBA)	U	ND	U	ND	ng/L	N/A					
Perfluorodecanesulfonate (PFDS)	U	ND	U	ND	ng/L	N/A					
Perfluorodecanoic acid (PFDA)	U	ND	U	ND	ng/L	N/A					
Perfluorododecanoic acid (PFDoA)	U	ND	U	ND	ng/L	N/A					
Perfluoroheptanesulfonate (PFHpS)	U	ND	U	ND	ng/L	N/A					
Perfluoroheptanoic acid (PFHpA)	U	ND	U	ND	ng/L	N/A					

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Perfluorinated Compounds											
Batch 1686972											
Perfluorohexanesulfonate (PFHxS)	U	ND	U	ND	ng/L	N/A			JLS	08/03/17	03:24
Perfluorohexanoic acid (PFHxA)	U	ND	U	ND	ng/L	N/A					
Perfluorononanesulfonate (PFNS)	U	ND	U	ND	ng/L	N/A					
Perfluorononanoic acid (PFNA)	U	ND	U	ND	ng/L	N/A					
Perfluorooctanesulfonamide (PFOSA)	U	ND	U	ND	ng/L	N/A					
Perfluorooctanesulfonate (PFOS)	U	ND	U	ND	ng/L	N/A					
Perfluorooctanoic acid (PFOA)	U	ND	U	ND	ng/L	N/A					
Perfluoropentanesulfonate (PFPeS)	U	ND	U	ND	ng/L	N/A					
Perfluoropentanoic acid (PFPeA)	U	ND	U	ND	ng/L	N/A					
Perfluorotetradecanoic acid (PFTeDA)	U	ND	U	ND	ng/L	N/A					
Perfluorotridecanoic acid (PFTrDA)	U	ND	U	ND	ng/L	N/A					
Perfluoroundecanoic acid (PFUdA)	U	ND	U	ND	ng/L	N/A					
**Perfluoro-n-[1,2-13C2] decanoic acid	6.20	4.93		5.70	ng/L		92	(70%-130%)			
**Perfluoro-n-[1,2-13C2] octanoic acid	6.20	4.76		5.28	ng/L		85	(70%-130%)			
**Perfluoro-n-[2,3,4-13C3] butanoic acid	6.20	5.23		5.61	ng/L		90	(70%-130%)			

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Perfluorinated Compounds											
Batch 1686972											
**Sodium perfluoro-1-[1,2,3,4-13C4]octanesulfonate	6.20	5.54		5.43	ng/L		88	(70%-130%)	JLS	08/03/17	03:24
QC1203842301 LCS											
N-ethylperfluoro-1-octanesulfonamidoacetic acid (N-EtFOSAA)	19.8			18.6	ng/L		94	(70%-130%)		08/03/17	01:37
N-methylperfluoro-1-octanesulfonamidoacetic acid (N-MeFOSAA)	19.8			16.3	ng/L		82	(70%-130%)			
2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)-propanoic acid (PFPrOPrA)	19.8			19.3	ng/L		97	(70%-130%)			
Fluorotelomer sulfonate 4:2 (4:2 FTS)	18.5			18.6	ng/L		101	(70%-130%)			
Fluorotelomer sulfonate 6:2 (6:2 FTS)	18.8			15.3	ng/L		81	(70%-130%)			
Fluorotelomer sulfonate 8:2 (8:2 FTS)	19.0			16.8	ng/L		88	(70%-130%)			
Perfluorobutanesulfonate (PFBS)	17.5			17.4	ng/L		100	(70%-130%)			
Perfluorobutyric acid (PFBA)	19.8			19.1	ng/L		96	(70%-130%)			
Perfluorodecanesulfonate (PFDS)	19.1			18.3	ng/L		96	(70%-130%)			
Perfluorodecanoic acid (PFDA)	19.8			19.5	ng/L		98	(70%-130%)			
Perfluorododecanoic acid (PFDoA)	19.8			18.2	ng/L		92	(70%-130%)			
Perfluoroheptanesulfonate (PFHpS)	18.8			19.3	ng/L		103	(70%-130%)			
Perfluoroheptanoic acid (PFHpA)	19.8			18.7	ng/L		95	(70%-130%)			
Perfluorohexanesulfonate (PFHxS)	18.0			18.6	ng/L		103	(70%-130%)			

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Perfluorinated Compounds											
Batch 1686972											
Perfluorohexanoic acid (PFHxA)	19.8			18.8	ng/L		95	(70%-130%)	JLS	08/03/17	01:37
Perfluorononanesulfonate (PFNS)	19.0			17.4	ng/L		92	(70%-130%)			
Perfluorononanoic acid (PFNA)	19.8			19.3	ng/L		98	(70%-130%)			
Perfluorooctanesulfonamide (PFOSA)	18.3			18.1	ng/L		99	(70%-130%)			
Perfluorooctanesulfonate (PFOS)	19.8			16.9	ng/L		86	(70%-130%)			
Perfluorooctanoic acid (PFOA)	19.8			19.8	ng/L		100	(70%-130%)			
Perfluoropentanesulfonate (PFPeS)	18.6			19.8	ng/L		106	(70%-130%)			
Perfluoropentanoic acid (PFPeA)	19.8			19.1	ng/L		96	(70%-130%)			
Perfluorotetradecanoic acid (PFTeDA)	19.8			17.8	ng/L		90	(70%-130%)			
Perfluorotridecanoic acid (PFTrDA)	19.8			18.3	ng/L		93	(70%-130%)			
Perfluoroundecanoic acid (PFUdA)	19.8			17.9	ng/L		91	(70%-130%)			
**Perfluoro-n-[1,2-13C2] decanoic acid	4.95			4.70	ng/L		95	(70%-130%)			
**Perfluoro-n-[1,2-13C2] octanoic acid	4.95			5.18	ng/L		105	(70%-130%)			
**Perfluoro-n-[2,3,4-13C3] butanoic acid	4.95			4.88	ng/L		99	(70%-130%)			
**Sodium perfluoro-1-[1,2,3,4-13C4]octanesulfonate	4.95			4.59	ng/L		93	(70%-130%)			

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Perfluorinated Compounds											
Batch	1686972										
QC1203842302	LCSD										
N-ethylperfluoro-1-octanesulfonamidoacetic acid (N-EtFOSAA)	19.7			18.2	ng/L	2	93	(0%-30%)	JLS	08/03/17	01:59
N-methylperfluoro-1-octanesulfonamidoacetic acid (N-MeFOSAA)	19.7			17.8	ng/L	9	90	(0%-30%)			
2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)-propanoic acid (PFPrOPrA)	19.7			19.8	ng/L	3	101	(0%-30%)			
Fluorotelomer sulfonate 4:2 (4:2 FTS)	18.4			17.8	ng/L	5	97	(0%-30%)			
Fluorotelomer sulfonate 6:2 (6:2 FTS)	18.7			15.5	ng/L	1	83	(0%-30%)			
Fluorotelomer sulfonate 8:2 (8:2 FTS)	18.9			18.3	ng/L	9	97	(0%-30%)			
Perfluorobutanesulfonate (PFBS)	17.4			16.6	ng/L	5	96	(0%-30%)			
Perfluorobutyric acid (PFBA)	19.7			19.4	ng/L	2	99	(0%-30%)			
Perfluorodecanesulfonate (PFDS)	19.0			18.1	ng/L	1	96	(0%-30%)			
Perfluorodecanoic acid (PFDA)	19.7			18.2	ng/L	7	93	(0%-30%)			
Perfluorododecanoic acid (PFDoA)	19.7			19.1	ng/L	5	97	(0%-30%)			
Perfluoroheptanesulfonate (PFHpS)	18.7			17.5	ng/L	10	94	(0%-30%)			
Perfluoroheptanoic acid (PFHpA)	19.7			19.4	ng/L	3	99	(0%-30%)			
Perfluorohexanesulfonate (PFHxS)	17.9			16.4	ng/L	13	92	(0%-30%)			
Perfluorohexanoic acid (PFHxA)	19.7			19.2	ng/L	2	98	(0%-30%)			

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Perfluorinated Compounds											
Batch 1686972											
Perfluorononanesulfonate (PFNS)	18.9			17.7	ng/L	1	94	(0%-30%)	JLS	08/03/17	01:59
Perfluorononanoic acid (PFNA)	19.7			19.6	ng/L	1	100	(0%-30%)			
Perfluorooctanesulfonamide (PFOSA)	18.2			18.4	ng/L	2	101	(0%-30%)			
Perfluorooctanesulfonate (PFOS)	19.7			16.1	ng/L	5	82	(0%-30%)			
Perfluorooctanoic acid (PFOA)	19.7			19.1	ng/L	3	97	(0%-30%)			
Perfluoropentanesulfonate (PFPeS)	18.5			17.6	ng/L	12	95	(0%-30%)			
Perfluoropentanoic acid (PFPeA)	19.7			19.1	ng/L	0	97	(0%-30%)			
Perfluorotetradecanoic acid (PFTeDA)	19.7			18.9	ng/L	6	96	(0%-30%)			
Perfluorotridecanoic acid (PFTrDA)	19.7			20.0	ng/L	9	102	(0%-30%)			
Perfluoroundecanoic acid (PFUdA)	19.7			18.1	ng/L	1	92	(0%-30%)			
**Perfluoro-n-[1,2-13C2] decanoic acid	4.91			4.73	ng/L		96	(70%-130%)			
**Perfluoro-n-[1,2-13C2] octanoic acid	4.91			4.83	ng/L		98	(70%-130%)			
**Perfluoro-n-[2,3,4-13C3] butanoic acid	4.91			4.80	ng/L		98	(70%-130%)			
**Sodium perfluoro-1-[1,2,3,4-13C4]octanesulfonate	4.91			4.50	ng/L		92	(70%-130%)			
QC1203842300 MB											
N-ethylperfluoro-1-octanesulfonamidoacetic acid (N-EtFOSAA)			U	ND	ng/L					08/03/17	01:16

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Perfluorinated Compounds											
Batch	1686972										
N-methylperfluoro-1-octanesulfonamidoacetic acid (N-MeFOSAA)			U	ND	ng/L				JLS	08/03/17	01:16
2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)-propanoic acid (PFPrOPrA)			U	ND	ng/L						
Fluorotelomer sulfonate 4:2 (4:2 FTS)			U	ND	ng/L						
Fluorotelomer sulfonate 6:2 (6:2 FTS)			U	ND	ng/L						
Fluorotelomer sulfonate 8:2 (8:2 FTS)			U	ND	ng/L						
Perfluorobutanesulfonate (PFBS)			U	ND	ng/L						
Perfluorobutyric acid (PFBA)			U	ND	ng/L						
Perfluorodecanesulfonate (PFDS)			U	ND	ng/L						
Perfluorodecanoic acid (PFDA)			U	ND	ng/L						
Perfluorododecanoic acid (PFDoA)			U	ND	ng/L						
Perfluoroheptanesulfonate (PFHpS)			U	ND	ng/L						
Perfluoroheptanoic acid (PFHpA)			U	ND	ng/L						
Perfluorohexanesulfonate (PFHxS)			U	ND	ng/L						
Perfluorohexanoic acid (PFHxA)			U	ND	ng/L						
Perfluorononanesulfonate (PFNS)			U	ND	ng/L						

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Perfluorinated Compounds											
Batch 1686972											
Perfluorononanoic acid (PFNA)			U	ND	ng/L				JLS	08/03/17	01:16
Perfluorooctanesulfonamide (PFOSA)			U	ND	ng/L						
Perfluorooctanesulfonate (PFOS)			U	ND	ng/L						
Perfluorooctanoic acid (PFOA)			U	ND	ng/L						
Perfluoropentanesulfonate (PFPeS)			U	ND	ng/L						
Perfluoropentanoic acid (PFPeA)			U	ND	ng/L						
Perfluorotetradecanoic acid (PFTeDA)			U	ND	ng/L						
Perfluorotridecanoic acid (PFTrDA)			U	ND	ng/L						
Perfluoroundecanoic acid (PFUdA)			U	ND	ng/L						
**Perfluoro-n-[1,2-13C2] decanoic acid	4.92			4.65	ng/L		95	(70%-130%)			
**Perfluoro-n-[1,2-13C2] octanoic acid	4.92			5.20	ng/L		106	(70%-130%)			
**Perfluoro-n-[2,3,4-13C3] butanoic acid	4.92			5.01	ng/L		102	(70%-130%)			
**Sodium perfluoro-1-[1,2,3,4-13C4]octanesulfonate	4.92			5.02	ng/L		102	(70%-130%)			
Semi-Volatile-GC/MS											
Batch 1687007											
QC1203842402 LCS											
1,1'-Biphenyl	50.0			37.0	ug/L		74	(46%-110%)	JMB3	08/02/17	11:26

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Semi-Volatile-GC/MS											
Batch	1687007										
1,2,4,5-Tetrachlorobenzene	50.0			41.5	ug/L		83	(44%-102%)	JMB3	08/02/17	11:26
2,3,4,6-Tetrachlorophenol	50.0			50.9	ug/L		102	(54%-122%)			
2,4,5-Trichlorophenol	50.0			48.1	ug/L		96	(55%-116%)			
2,4,6-Trichlorophenol	50.0			44.0	ug/L		88	(55%-120%)			
2,4-Dichlorophenol	50.0			45.8	ug/L		92	(53%-109%)			
2,4-Dimethylphenol	50.0			34.5	ug/L		69	(51%-104%)			
2,4-Dinitrophenol	50.0			47.3	ug/L		95	(34%-122%)			
2,4-Dinitrotoluene	50.0			49.2	ug/L		98	(57%-124%)			
2,6-Dinitrotoluene	50.0			47.4	ug/L		95	(59%-122%)			
2-Chloronaphthalene	50.0			36.5	ug/L		73	(44%-107%)			
2-Chlorophenol	50.0			35.3	ug/L		71	(49%-105%)			
2-Methyl-4,6-dinitrophenol	50.0			47.8	ug/L		96	(45%-124%)			
2-Methylnaphthalene	50.0			34.8	ug/L		70	(42%-103%)			
2-Nitrophenol	50.0			48.3	ug/L		97	(51%-113%)			
3,3'-Dichlorobenzidine	50.0			45.7	ug/L		91	(43%-127%)			

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Semi-Volatile-GC/MS											
Batch	1687007										
4-Bromophenylphenylether	50.0			39.0	ug/L		78	(54%-116%)	JMB3	08/02/17	11:26
4-Chloro-3-methylphenol	50.0			47.1	ug/L		94	(55%-115%)			
4-Chloroaniline	50.0			51.5	ug/L		103	(65%-136%)			
4-Chlorophenylphenylether	50.0			40.9	ug/L		82	(52%-121%)			
4-Nitrophenol	50.0			11.7	ug/L		23	(15%-137%)			
Acenaphthene	50.0			38.9	ug/L		78	(49%-112%)			
Acenaphthylene	50.0			37.4	ug/L		75	(50%-113%)			
Acetophenone	50.0			40.9	ug/L		82	(55%-114%)			
Anthracene	50.0			38.8	ug/L		78	(56%-112%)			
Atrazine	50.0			45.5	ug/L		91	(60%-131%)			
Benzaldehyde	50.0			32.7	ug/L		65	(38%-113%)			
Benzo(a)anthracene	50.0			42.9	ug/L		86	(57%-112%)			
Benzo(a)pyrene	50.0			42.2	ug/L		84	(40%-118%)			
Benzo(b)fluoranthene	50.0			42.7	ug/L		85	(41%-118%)			
Benzo(ghi)perylene	50.0			36.1	ug/L		72	(33%-131%)			

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Semi-Volatile-GC/MS											
Batch	1687007										
Benzo(k)fluoranthene	50.0			43.4	ug/L		87	(42%-121%)	JMB3	08/02/17	11:26
Butylbenzylphthalate	50.0			37.9	ug/L		76	(52%-125%)			
Caprolactam	50.0			14.8	ug/L		30	(30%-61%)			
Carbazole	50.0			41.6	ug/L		83	(56%-119%)			
Chrysene	50.0			42.2	ug/L		84	(58%-117%)			
Di-n-butylphthalate	50.0			38.7	ug/L		77	(57%-123%)			
Di-n-octylphthalate	50.0			42.7	ug/L		85	(50%-129%)			
Dibenzo(a,h)anthracene	50.0			39.1	ug/L		78	(38%-129%)			
Dibenzofuran	50.0			38.6	ug/L		77	(50%-111%)			
Diethylphthalate	50.0			43.9	ug/L		88	(57%-122%)			
Dimethylphthalate	50.0			43.3	ug/L		87	(60%-122%)			
Diphenylamine	50.0			36.2	ug/L		72	(55%-113%)			
Fluoranthene	50.0			43.5	ug/L		87	(54%-118%)			
Fluorene	50.0			37.6	ug/L		75	(52%-114%)			
Hexachlorobenzene	50.0			38.4	ug/L		77	(54%-115%)			

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Semi-Volatile-GC/MS											
Batch	1687007										
Hexachlorobutadiene	50.0			39.3	ug/L		79	(35%-98%)	JMB3	08/02/17	11:26
Hexachlorocyclopentadiene	50.0			25.7	ug/L		51	(34%-89%)			
Hexachloroethane	50.0			27.4	ug/L		55	(36%-96%)			
Indeno(1,2,3-cd)pyrene	50.0			38.3	ug/L		77	(34%-125%)			
Isophorone	50.0			48.0	ug/L		96	(56%-117%)			
N-Nitrosodipropylamine	50.0			41.9	ug/L		84	(54%-115%)			
Naphthalene	50.0			34.0	ug/L		68	(44%-102%)			
Nitrobenzene	50.0			48.0	ug/L		96	(53%-115%)			
Pentachlorophenol	50.0			49.8	ug/L		100	(41%-116%)			
Phenanthrene	50.0			39.6	ug/L		79	(55%-110%)			
Phenol	50.0			16.0	ug/L		32	(16%-82%)			
Pyrene	50.0			39.5	ug/L		79	(49%-121%)			
bis(2-Chloro-1-methylethyl)ether	50.0			30.3	ug/L		61	(44%-123%)			
bis(2-Chloroethoxy)methane	50.0			43.9	ug/L		88	(55%-114%)			
bis(2-Chloroethyl) ether	50.0			38.8	ug/L		78	(51%-111%)			

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Semi-Volatile-GC/MS											
Batch	1687007										
bis(2-Ethylhexyl)phthalate	50.0			37.6	ug/L		75	(52%-125%)	JMB3	08/02/17	11:26
m,p-Cresols	50.0			33.0	ug/L		66	(43%-102%)			
m-Nitroaniline	50.0			51.9	ug/L		104	(61%-139%)			
o-Cresol	50.0			33.2	ug/L		66	(41%-101%)			
o-Nitroaniline	50.0			51.8	ug/L		104	(53%-121%)			
p-Nitroaniline	50.0			49.3	ug/L		99	(44%-137%)			
**2,4,6-Tribromophenol	100			95.2	ug/L		95	(32%-124%)			
**2-Fluorobiphenyl	50.0			35.3	ug/L		71	(32%-112%)			
**2-Fluorophenol	100			42.7	ug/L		43	(15%-88%)			
**Nitrobenzene-d5	50.0			44.8	ug/L		90	(36%-115%)			
**Phenol-d5	100			29.5	ug/L		30	(15%-91%)			
**p-Terphenyl-d14	50.0			39.3	ug/L		79	(36%-121%)			
QC1203842401 MB											
1,1'-Biphenyl			U	ND	ug/L					08/02/17	10:59
1,2,4,5-Tetrachlorobenzene			U	ND	ug/L						
2,3,4,6-Tetrachlorophenol			U	ND	ug/L						

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Semi-Volatile-GC/MS											
Batch	1687007										
2,4,5-Trichlorophenol			U	ND	ug/L				JMB3	08/02/17	10:59
2,4,6-Trichlorophenol			U	ND	ug/L						
2,4-Dichlorophenol			U	ND	ug/L						
2,4-Dimethylphenol			U	ND	ug/L						
2,4-Dinitrophenol			U	ND	ug/L						
2,4-Dinitrotoluene			U	ND	ug/L						
2,6-Dinitrotoluene			U	ND	ug/L						
2-Chloronaphthalene			U	ND	ug/L						
2-Chlorophenol			U	ND	ug/L						
2-Methyl-4,6-dinitrophenol			U	ND	ug/L						
2-Methylnaphthalene			U	ND	ug/L						
2-Nitrophenol			U	ND	ug/L						
3,3'-Dichlorobenzidine			U	ND	ug/L						
4-Bromophenylphenylether			U	ND	ug/L						
4-Chloro-3-methylphenol			U	ND	ug/L						

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Semi-Volatile-GC/MS											
Batch	1687007										
4-Chloroaniline			U	ND	ug/L				JMB3	08/02/17	10:59
4-Chlorophenylphenylether			U	ND	ug/L						
4-Nitrophenol			U	ND	ug/L						
Acenaphthene			U	ND	ug/L						
Acenaphthylene			U	ND	ug/L						
Acetophenone			U	ND	ug/L						
Anthracene			U	ND	ug/L						
Atrazine			U	ND	ug/L						
Benzaldehyde			U	ND	ug/L						
Benzo(a)anthracene			U	ND	ug/L						
Benzo(a)pyrene			U	ND	ug/L						
Benzo(b)fluoranthene			U	ND	ug/L						
Benzo(ghi)perylene			U	ND	ug/L						
Benzo(k)fluoranthene			U	ND	ug/L						
Butylbenzylphthalate			U	ND	ug/L						

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Semi-Volatile-GC/MS											
Batch	1687007										
Caprolactam			U	ND	ug/L				JMB3	08/02/17	10:59
Carbazole			U	ND	ug/L						
Chrysene			U	ND	ug/L						
Di-n-butylphthalate			U	ND	ug/L						
Di-n-octylphthalate			U	ND	ug/L						
Dibenzo(a,h)anthracene			U	ND	ug/L						
Dibenzofuran			U	ND	ug/L						
Diethylphthalate			U	ND	ug/L						
Dimethylphthalate			U	ND	ug/L						
Diphenylamine			U	ND	ug/L						
Fluoranthene			U	ND	ug/L						
Fluorene			U	ND	ug/L						
Hexachlorobenzene			U	ND	ug/L						
Hexachlorobutadiene			U	ND	ug/L						
Hexachlorocyclopentadiene			U	ND	ug/L						

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Semi-Volatile-GC/MS											
Batch	1687007										
Hexachloroethane			U	ND	ug/L				JMB3	08/02/17	10:59
Indeno(1,2,3-cd)pyrene			U	ND	ug/L						
Isophorone			U	ND	ug/L						
N-Nitrosodipropylamine			U	ND	ug/L						
Naphthalene			U	ND	ug/L						
Nitrobenzene			U	ND	ug/L						
Pentachlorophenol			U	ND	ug/L						
Phenanthrene			U	ND	ug/L						
Phenol			U	ND	ug/L						
Pyrene			U	ND	ug/L						
bis(2-Chloro-1-methylethyl)ether			U	ND	ug/L						
bis(2-Chloroethoxy)methane			U	ND	ug/L						
bis(2-Chloroethyl) ether			U	ND	ug/L						
bis(2-Ethylhexyl)phthalate			U	ND	ug/L						
m,p-Cresols			U	ND	ug/L						

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Semi-Volatile-GC/MS											
Batch	1687007										
m-Nitroaniline			U	ND	ug/L				JMB3	08/02/17	10:59
o-Cresol			U	ND	ug/L						
o-Nitroaniline			U	ND	ug/L						
p-Nitroaniline			U	ND	ug/L						
**2,4,6-Tribromophenol	100			90.9	ug/L		91	(32%-124%)			
**2-Fluorobiphenyl	50.0			34.1	ug/L		68	(32%-112%)			
**2-Fluorophenol	100			43.8	ug/L		44	(15%-88%)			
**Nitrobenzene-d5	50.0			43.5	ug/L		87	(36%-115%)			
**Phenol-d5	100			29.3	ug/L		29	(15%-91%)			
**p-Terphenyl-d14	50.0			50.3	ug/L		101	(36%-121%)			
QC1203842403 429266004 MS											
1,1'-Biphenyl	115	U	ND	82.5	ug/L		72	(35%-113%)		08/02/17	14:36
1,2,4,5-Tetrachlorobenzene	115	U	ND	91.9	ug/L		80	(32%-101%)			
2,3,4,6-Tetrachlorophenol	115	U	ND	117	ug/L		102	(40%-128%)			
2,4,5-Trichlorophenol	115	U	ND	107	ug/L		93	(42%-120%)			
2,4,6-Trichlorophenol	115	U	ND	101	ug/L		88	(39%-124%)			

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Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Semi-Volatile-GC/MS												
Batch	1687007											
2,4-Dichlorophenol	115	U	ND		104	ug/L		91	(40%-111%)	JMB3	08/02/17	14:36
2,4-Dimethylphenol	115	U	ND		78.6	ug/L		68	(39%-107%)			
2,4-Dinitrophenol	115	U	ND		106	ug/L		92	(27%-122%)			
2,4-Dinitrotoluene	115	U	ND		112	ug/L		97	(45%-125%)			
2,6-Dinitrotoluene	115	U	ND		111	ug/L		96	(46%-124%)			
2-Chloronaphthalene	115	U	ND		80.6	ug/L		70	(29%-113%)			
2-Chlorophenol	115	U	ND		80.0	ug/L		70	(37%-108%)			
2-Methyl-4,6-dinitrophenol	115	U	ND		112	ug/L		97	(32%-126%)			
2-Methylnaphthalene	115	U	ND		79.1	ug/L		69	(29%-109%)			
2-Nitrophenol	115	U	ND		109	ug/L		95	(39%-115%)			
3,3'-Dichlorobenzidine	115	U	ND		106	ug/L		92	(34%-124%)			
4-Bromophenylphenylether	115	U	ND		88.5	ug/L		77	(39%-121%)			
4-Chloro-3-methylphenol	115	U	ND		108	ug/L		94	(41%-122%)			
4-Chloroaniline	115	U	ND		114	ug/L		99	(44%-138%)			
4-Chlorophenylphenylether	115	U	ND		92.8	ug/L		81	(39%-121%)			

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Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Semi-Volatile-GC/MS												
Batch	1687007											
4-Nitrophenol	115	U	ND		48.1	ug/L		42	(17%-85%)	JMB3	08/02/17	14:36
Acenaphthene	115	U	ND		86.3	ug/L		75	(35%-117%)			
Acenaphthylene	115	U	ND		82.3	ug/L		72	(35%-120%)			
Acetophenone	115	U	ND		94.2	ug/L		82	(41%-119%)			
Anthracene	115	U	ND		89.6	ug/L		78	(38%-120%)			
Atrazine	115	U	ND		108	ug/L		94	(42%-129%)			
Benzaldehyde	115	U	ND		73.3	ug/L		64	(28%-112%)			
Benzo(a)anthracene	115	U	ND		99.5	ug/L		87	(39%-120%)			
Benzo(a)pyrene	115	U	ND		97.1	ug/L		84	(32%-118%)			
Benzo(b)fluoranthene	115	U	ND		96.9	ug/L		84	(31%-122%)			
Benzo(ghi)perylene	115	U	ND		87.3	ug/L		76	(24%-126%)			
Benzo(k)fluoranthene	115	U	ND		97.8	ug/L		85	(33%-123%)			
Butylbenzylphthalate	115	U	ND		92.9	ug/L		81	(40%-129%)			
Caprolactam	115	U	ND		51.2	ug/L		45	(25%-79%)			
Carbazole	115	U	ND		94.3	ug/L		82	(37%-125%)			

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Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Semi-Volatile-GC/MS												
Batch	1687007											
Chrysene	115	U	ND		98.9	ug/L		86	(41%-124%)	JMB3	08/02/17	14:36
Di-n-butylphthalate	115	U	ND		88.8	ug/L		77	(41%-128%)			
Di-n-octylphthalate	115	U	ND		102	ug/L		89	(37%-134%)			
Dibenzo(a,h)anthracene	115	U	ND		93.8	ug/L		82	(30%-125%)			
Dibenzofuran	115	U	ND		86.6	ug/L		75	(38%-113%)			
Diethylphthalate	115	U	ND		102	ug/L		88	(43%-127%)			
Dimethylphthalate	115	U	ND		100	ug/L		87	(45%-128%)			
Diphenylamine	115	U	ND		85.0	ug/L		74	(37%-118%)			
Fluoranthene	115	U	ND		97.9	ug/L		85	(41%-119%)			
Fluorene	115	U	ND		84.6	ug/L		74	(39%-117%)			
Hexachlorobenzene	115	U	ND		88.8	ug/L		77	(40%-118%)			
Hexachlorobutadiene	115	U	ND		91.6	ug/L		80	(26%-98%)			
Hexachlorocyclopentadiene	115	U	ND		56.3	ug/L		49	(26%-79%)			
Hexachloroethane	115	U	ND		62.5	ug/L		54	(29%-94%)			
Indeno(1,2,3-cd)pyrene	115	U	ND		92.3	ug/L		80	(27%-121%)			

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Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Semi-Volatile-GC/MS												
Batch	1687007											
Isophorone	115	U	ND		109	ug/L		95	(43%-120%)	JMB3	08/02/17	14:36
N-Nitrosodipropylamine	115	U	ND		95.1	ug/L		83	(42%-118%)			
Naphthalene	115	U	ND		77.4	ug/L		67	(31%-108%)			
Nitrobenzene	115	U	ND		108	ug/L		94	(38%-123%)			
Pentachlorophenol	115	U	ND		116	ug/L		101	(35%-121%)			
Phenanthrene	115	U	ND		90.5	ug/L		79	(40%-115%)			
Phenol	115	U	ND		50.3	ug/L		44	(23%-82%)			
Pyrene	115	U	ND		97.7	ug/L		85	(35%-128%)			
bis(2-Chloro-1-methylethyl)ether	115	U	ND		69.4	ug/L		60	(32%-127%)			
bis(2-Chloroethoxy)methane	115	U	ND		100	ug/L		87	(42%-118%)			
bis(2-Chloroethyl) ether	115	U	ND		89.2	ug/L		78	(39%-114%)			
bis(2-Ethylhexyl)phthalate	115	U	ND		92.0	ug/L		80	(38%-131%)			
m,p-Cresols	115	U	ND		82.3	ug/L		72	(36%-120%)			
m-Nitroaniline	115	U	ND		117	ug/L		102	(42%-144%)			
o-Cresol	115	U	ND		78.4	ug/L		68	(34%-109%)			

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Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Semi-Volatile-GC/MS												
Batch	1687007											
o-Nitroaniline	115	U	ND		117	ug/L		102	(41%-121%)	JMB3	08/02/17	14:36
p-Nitroaniline	115	U	ND		109	ug/L		95	(30%-133%)			
**2,4,6-Tribromophenol	230		94.6		229	ug/L		100	(32%-124%)			
**2-Fluorobiphenyl	115		35.5		85.3	ug/L		74	(32%-112%)			
**2-Fluorophenol	230		37.4		118	ug/L		52	(15%-88%)			
**Nitrobenzene-d5	115		43.4		105	ug/L		92	(36%-115%)			
**Phenol-d5	230		25.3		97.4	ug/L		42	(15%-91%)			
**p-Terphenyl-d14	115		39.5		99.6	ug/L		87	(36%-121%)			
QC1203842404 429266004 MSD												
1,1'-Biphenyl	115	U	ND		80.4	ug/L	3	70	(0%-30%)		08/02/17	15:03
1,2,4,5-Tetrachlorobenzene	115	U	ND		91.8	ug/L	0	80	(0%-30%)			
2,3,4,6-Tetrachlorophenol	115	U	ND		119	ug/L	2	104	(0%-30%)			
2,4,5-Trichlorophenol	115	U	ND		107	ug/L	0	93	(0%-30%)			
2,4,6-Trichlorophenol	115	U	ND		102	ug/L	1	89	(0%-30%)			
2,4-Dichlorophenol	115	U	ND		109	ug/L	4	95	(0%-30%)			
2,4-Dimethylphenol	115	U	ND		79.6	ug/L	1	69	(0%-30%)			

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Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Semi-Volatile-GC/MS												
Batch		1687007										
2,4-Dinitrophenol	115	U	ND		115	ug/L	8	100	(0%-30%)	JMB3	08/02/17	15:03
2,4-Dinitrotoluene	115	U	ND		114	ug/L	2	99	(0%-30%)			
2,6-Dinitrotoluene	115	U	ND		112	ug/L	1	98	(0%-30%)			
2-Chloronaphthalene	115	U	ND		80.3	ug/L	0	70	(0%-30%)			
2-Chlorophenol	115	U	ND		82.4	ug/L	3	72	(0%-30%)			
2-Methyl-4,6-dinitrophenol	115	U	ND		118	ug/L	6	103	(0%-30%)			
2-Methylnaphthalene	115	U	ND		81.2	ug/L	3	71	(0%-30%)			
2-Nitrophenol	115	U	ND		113	ug/L	3	98	(0%-30%)			
3,3'-Dichlorobenzidine	115	U	ND		109	ug/L	2	95	(0%-30%)			
4-Bromophenylphenylether	115	U	ND		85.8	ug/L	3	75	(0%-30%)			
4-Chloro-3-methylphenol	115	U	ND		110	ug/L	1	95	(0%-30%)			
4-Chloroaniline	115	U	ND		121	ug/L	6	105	(0%-30%)			
4-Chlorophenylphenylether	115	U	ND		90.6	ug/L	2	79	(0%-30%)			
4-Nitrophenol	115	U	ND		46.8	ug/L	3	41	(0%-30%)			
Acenaphthene	115	U	ND		85.6	ug/L	1	74	(0%-30%)			

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Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Semi-Volatile-GC/MS												
Batch	1687007											
Acenaphthylene	115	U	ND		81.5	ug/L	1	71	(0%-30%)	JMB3	08/02/17	15:03
Acetophenone	115	U	ND		96.7	ug/L	3	84	(0%-30%)			
Anthracene	115	U	ND		88.2	ug/L	2	77	(0%-30%)			
Atrazine	115	U	ND		107	ug/L	1	93	(0%-30%)			
Benzaldehyde	115	U	ND		75.7	ug/L	3	66	(0%-30%)			
Benzo(a)anthracene	115	U	ND		96.9	ug/L	3	84	(0%-30%)			
Benzo(a)pyrene	115	U	ND		96.7	ug/L	0	84	(0%-30%)			
Benzo(b)fluoranthene	115	U	ND		94.2	ug/L	3	82	(0%-30%)			
Benzo(ghi)perylene	115	U	ND		91.7	ug/L	5	80	(0%-30%)			
Benzo(k)fluoranthene	115	U	ND		97.9	ug/L	0	85	(0%-30%)			
Butylbenzylphthalate	115	U	ND		87.7	ug/L	6	76	(0%-30%)			
Caprolactam	115	U	ND		49.0	ug/L	4	43	(0%-30%)			
Carbazole	115	U	ND		94.7	ug/L	0	82	(0%-30%)			
Chrysene	115	U	ND		97.4	ug/L	1	85	(0%-30%)			
Di-n-butylphthalate	115	U	ND		87.2	ug/L	2	76	(0%-30%)			

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Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Semi-Volatile-GC/MS												
Batch 1687007												
Di-n-octylphthalate	115	U	ND		99.9	ug/L	2	87	(0%-30%)	JMB3	08/02/17	15:03
Dibenzo(a,h)anthracene	115	U	ND		98.4	ug/L	5	86	(0%-30%)			
Dibenzofuran	115	U	ND		86.4	ug/L	0	75	(0%-30%)			
Diethylphthalate	115	U	ND		101	ug/L	0	88	(0%-30%)			
Dimethylphthalate	115	U	ND		101	ug/L	1	88	(0%-30%)			
Diphenylamine	115	U	ND		82.9	ug/L	2	72	(0%-30%)			
Fluoranthene	115	U	ND		98.5	ug/L	1	86	(0%-30%)			
Fluorene	115	U	ND		83.5	ug/L	1	73	(0%-30%)			
Hexachlorobenzene	115	U	ND		87.9	ug/L	1	76	(0%-30%)			
Hexachlorobutadiene	115	U	ND		95.8	ug/L	5	83	(0%-30%)			
Hexachlorocyclopentadiene	115	U	ND		58.4	ug/L	4	51	(0%-30%)			
Hexachloroethane	115	U	ND		66.0	ug/L	5	57	(0%-30%)			
Indeno(1,2,3-cd)pyrene	115	U	ND		96.1	ug/L	4	84	(0%-30%)			
Isophorone	115	U	ND		114	ug/L	4	99	(0%-30%)			
N-Nitrosodipropylamine	115	U	ND		98.7	ug/L	4	86	(0%-30%)			

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Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Semi-Volatile-GC/MS												
Batch	1687007											
Naphthalene	115	U	ND		79.6	ug/L	3	69	(0%-30%)	JMB3	08/02/17	15:03
Nitrobenzene	115	U	ND		112	ug/L	3	97	(0%-30%)			
Pentachlorophenol	115	U	ND		114	ug/L	1	100	(0%-30%)			
Phenanthrene	115	U	ND		88.2	ug/L	3	77	(0%-30%)			
Phenol	115	U	ND		51.6	ug/L	2	45	(0%-30%)			
Pyrene	115	U	ND		91.7	ug/L	6	80	(0%-30%)			
bis(2-Chloro-1-methylethyl)ether	115	U	ND		70.0	ug/L	1	61	(0%-30%)			
bis(2-Chloroethoxy)methane	115	U	ND		102	ug/L	2	89	(0%-30%)			
bis(2-Chloroethyl) ether	115	U	ND		92.5	ug/L	4	80	(0%-30%)			
bis(2-Ethylhexyl)phthalate	115	U	ND		87.0	ug/L	6	76	(0%-30%)			
m,p-Cresols	115	U	ND		83.1	ug/L	1	72	(0%-30%)			
m-Nitroaniline	115	U	ND		121	ug/L	4	106	(0%-30%)			
o-Cresol	115	U	ND		80.9	ug/L	3	70	(0%-30%)			
o-Nitroaniline	115	U	ND		117	ug/L	0	102	(0%-30%)			
p-Nitroaniline	115	U	ND		114	ug/L	4	99	(0%-30%)			

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QC Summary

Workorder: 429048

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Semi-Volatile-GC/MS											
Batch	1687007										
**2,4,6-Tribromophenol	230	94.6		226	ug/L		98	(32%-124%)	JMB3	08/02/17	15:03
**2-Fluorobiphenyl	115	35.5		84.1	ug/L		73	(32%-112%)			
**2-Fluorophenol	230	37.4		119	ug/L		52	(15%-88%)			
**Nitrobenzene-d5	115	43.4		106	ug/L		92	(36%-115%)			
**Phenol-d5	230	25.3		97.7	ug/L		42	(15%-91%)			
**p-Terphenyl-d14	115	39.5		91.8	ug/L		80	(36%-121%)			

Notes:

The Qualifiers in this report are defined as follows:

- ** Analyte is a surrogate compound
- < Result is less than value reported
- > Result is greater than value reported
- A The TIC is a suspected aldol-condensation product
- B The target analyte was detected in the associated blank.
- C Analyte has been confirmed by GC/MS analysis
- D Results are reported from a diluted aliquot of the sample
- E Concentration of the target analyte exceeds the instrument calibration range
- H Analytical holding time was exceeded
- J Value is estimated
- JNX Non Calibrated Compound
- N Organics--Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
- N Presumptive evidence based on mass spectral library search to make a tentative identification of the analyte (TIC). Quantitation is based on nearest internal standard response factor
- N/A RPD or %Recovery limits do not apply.
- N1 See case narrative
- ND Analyte concentration is not detected above the detection limit
- NJ Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier
- P Organics--The concentrations between the primary and confirmation columns/detectors is >40% different. For HPLC, the difference is >70%.

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QC Summary

Workorder: 429048

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Q	One or more quality control criteria have not been met. Refer to the applicable narrative or DER.										
R	Sample results are rejected										
U	Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.										
UJ	Compound cannot be extracted										
X	Consult Case Narrative, Data Summary package, or Project Manager concerning this qualifier										
Y	QC Samples were not spiked with this compound										
^	RPD of sample and duplicate evaluated using +/-RL. Concentrations are <5X the RL. Qualifier Not Applicable for Radiochemistry.										
h	Preparation or preservation holding time was exceeded										

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more or %RPD not applicable.

^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptance criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.

* Indicates that a Quality Control parameter was not within specifications.

For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Technical Case Narrative
H2GO Brunswick Regional Water & Sewer (H2GO)
SDG #: 429048

GC/MS Semivolatile

Product: Analysis of Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry

Analytical Method: SW846 3510C/8270D

Analytical Procedure: GL-OA-E-009 REV# 39

Analytical Batch: 1687007

Preparation Method: SW846 3510C

Preparation Procedure: GL-OA-E-013 REV# 32

Preparation Batch: 1687005

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
429048001	001
1203842401	Method Blank (MB)
1203842402	Laboratory Control Sample (LCS)
1203842403	429266004(NonSDG) Matrix Spike (MS)
1203842404	429266004(NonSDG) Matrix Spike Duplicate (MSD)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Calibration Information

CCV Requirements

All Calibration Verification Standards (CCV) did not meet the acceptance criteria as outlined in Method 8270D for samples and the associated QC. However, the method allows for a designated number of outliers dependent on the requested analyte list. This SDG satisfied the 8270D outlier acceptance criteria. If required, a CRDL was analyzed after the CCVs to demonstrate that there is adequate sensitivity to detect the failed compounds at the applicable lower quantitation limit.

Miscellaneous Information

TIC Comment

Tentatively identified compounds (TIC) were requested for sample 429048001 (001) in this SDG in this batch.

LCMSMS-Misc

Product: The Extraction and Analysis of Per and Polyfluroalkyl Substances Using LCMSMS

Analytical Method: EPA 537

Analytical Procedure: GL-OA-E-076 REV# 2

Analytical Batches: 1686972 and 1686971

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
429048001	001
429048002	001 trip blank
1203842300	Method Blank (MB)
1203842301	Laboratory Control Sample (LCS)
1203842302	Laboratory Control Sample Duplicate (LCSD)
1203842351	429151001(NonSDG) Sample Duplicate (DUP)

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Sample Dilutions

The following sample was diluted to bring the over range concentration of PFPrOPrA within the calibration range. 4:2 FTS was reported from the 1:5 dilution due to an elevated internal standard recovery in the undiluted analysis. 429048001 (001).

Analyte	429048
	001
2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)-propanoic acid (PFPrOPrA)	5X
Fluorotelomer sulfonate 4:2 (4:2 FTS)	5X

Product: The Extraction and Analysis of Per and Polyfluoroalkyl Substances Using LCMSMS

Analytical Method: EPA 537

Analytical Procedure: GL-OA-E-076 REV# 2

Analytical Batches: 1698648 and 1686971

The following samples were analyzed using the above methods and analytical procedure(s).

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
429048001	001
429048002	001 trip blank

The samples in this SDG were analyzed on an "as received" basis.

Data Summary:

All sample data provided in this report met the acceptance criteria specified in the analytical methods and procedures for initial calibration, continuing calibration, instrument controls and process controls where applicable, with the following exceptions.

Technical Information

Holding Time Specifications

The following samples were analyzed for the six additional compounds beyond the recommended holding time. These compounds were requested after the holding time had expired. 429048001 (001) and 429048002 (001 trip blank).

Sample Dilutions

The following sample was/were diluted to bring the over range concentration within the calibration range. 429048001 (001).

Analyte	429048
	001
Nafion Byproduct 1	5X
Nafion Byproduct 2	5X
Perfluoro(3,5,7,9-tetraoxadecanoic) acid (PFO4DA)	5X
Perfluoro(3,5,7-trioxaoctanoic) acid (PFO3OA)	5X
Perfluoro(3,5-dioxahexanoic) acid (PFO2HxA)	5X
Perfluoro-2-methoxyacetic acid (PFMOAA)	5X
Perfluoro-3-methoxypropanoic acid (PFMOPrA)	5X
Perfluoro-4-methoxybutanic acid (PFMOBA)	5X

Miscellaneous Information

Additional Comments

These results are estimated concentrations and were calculated using the GenX calibration curve because authentic standards are not available for these analytes. The data are qualified accordingly.

Certification Statement

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted in the analytical case narrative.

429848	
GEL Work Order Number:	
POC Number: (1)	
POC Number:	
PO Number:	
429848	
Charleston, SC 29407	
Phone: (843) 556-8171	
Fax: (843) 766-1178	

Client Name: Dorchester Regional
Water & Sewer H260

Phone # (910) 371-9949

Sample Analysis Requested ⁽⁵⁾ (Fill in the number of containers for each test)

[illegible]

Address:	516 N. 11th St.	below	WTC	254451
considered:				
sample be				
contai				

Comments		Notes: entire sample is	
Collected by: <u>SENT / EAC</u>	Send Results To: <u>Bubba / K</u>		

Date Collected		*Time		Regulator	Number	Note. extra sample is required for sample
12/11/2013		10:45 AM				

Sample ID	Sample Collected	QC Code Collected	Field Sample	Matrix	Specific QC
	(mm-dd-yy)	(Military)	Filtered		

* For composites - indicates start and stop date/time

[illegible]

331	5/12/11	11:10	
-----	---------	-------	---

[illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible][illegible]

TAT Requested: Normal: <u>2</u>	Rush: <u>2</u>	Specify: _____	Fax Results: Yes / No	Circle Deliverable: C of A / QC Summary / Level 1 / Level 2 / Level 3 / Level 4
Drawables: Are there any known barcodes applicable to these samples? If so, please list the barcodes.				

REMARKS: Are there any known hazards applicable to these samples? If so, please list the hazard as

	Central	Other _____
Mountain		

[illegible]

01/11/14 14:00 14:00	01/11/14 14:00 14:00
----------------------------	----------------------------

		Method of Shipment:	Date Shipped:
1	1/20/11	11:40	1/20/11 11:40
1	1/20/11	11:40	1/20/11 11:40

2	2	0	2777	123	Airbill #:
2	3				Airbill #:

Autom. No.		For Lab Receiving Use Only
1.) Chain of Custody Number = Client Determined		

2.) QC Codes: N = Normal Sample, IB = Trip Blank, FB = Field Duplicate, EB = Equipment Blank, MS = Matrix Spike sample, MSD = Matrix Spike Duplicate sample, G = Grab, C = Composite

3.) Field Filtered: For liquid matrices, indicate with a - Y - for yes the sample was field filtered or - N - for sample was not field filtered.

	YES	NO
4.) Matrix Codes: DW=Drinking Water, WW=Waste Water, SL=Sludge, SS=Solid Waste, O=Oil, F=Filter, P=Wipe, U=Urine, F=Fecal, N=Nasal		
5.) Sample Analysis: Requested: Analytical method requested for each (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B -3, 6010B/7470A -1).		

6.) Preservative Type: HA = Hydrochloric Acid, NI = Nitric Acid, SH = Sodium Hydroxide, SA = Sulfuric Acid, AA = Ascorbic Acid, HX = Hexane, ST = Sodium Thiosulfate, If no preservative is added = leave field blank

SAMPLE RECEIPT & REVIEW FORM

Client: H2G0		SDG/AR/COC/Work Order: 429048	
Received By: ZKW		Date Received: 7/27/17	
Carrier and Tracking Number		Circle Applicable: ☒ FedEx Express ☐ FedEx Ground ☐ UPS ☐ Field Services ☐ Courier ☐ Other 7797 4288 8627	
Suspected Hazard Information	Yes	No	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.
Shipped as a DOT Hazardous?		☒	Hazard Class Shipped: _____ UN#: _____
COC/Samples marked or classified as radioactive?		☒	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): 0 CPM mR/Hr Classified as: Rad 1 Rad 2 Rad 3
Is package, COC, and/or Samples marked HAZ?		☒	If yes, select Hazards below, and contact the GEL Safety Group. PCB's Flammable Foreign Soil RCRA Asbestos Beryllium Other: _____
Sample Receipt Criteria		Yes	NA
		No	Comments/Qualifiers (Required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	☒	Circle Applicable: Seals broken Damaged container Leaking container Other (describe) _____
2	Chain of custody documents included with shipment?	☒	
3	Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	☒	Preservation Method: ☒ Wet Ice ☐ Ice Packs ☐ Dry ice ☐ None Other: _____ *all temperatures are recorded in Celsius TEMP: 1°C
4	Daily check performed and passed on IR temperature gun?	☒	Temperature Device Serial #: IR3-16 Secondary Temperature Device Serial # (If Applicable): _____
5	Sample containers intact and sealed?	☒	Circle Applicable: Seals broken Damaged container Leaking container Other (describe) _____
6	Samples requiring chemical preservation at proper pH?	☒	Sample ID's and Containers Affected: _____ If Preservation added, Lot#: _____
7	Do any samples require Volatile Analysis?	☒	If Yes, Are Encores or Soil Kits present? Yes____ No____ (If yes, take to VOA Freezer) Do VOA vials contain acid preservation? Yes____ No____ N/A____ (If unknown, select No) VOA vials free of headspace? Yes____ No____ N/A____ Sample ID's and containers affected: _____
8	Samples received within holding time?	☒	ID's and tests affected: _____
9	Sample ID's on COC match ID's on bottles?	☒	Sample ID's and containers affected: _____
10	Date & time on COC match date & time on bottles?	☒	Sample ID's affected: _____
11	Number of containers received match number indicated on COC?	☒	Sample ID's affected: We rec'd 6 containers plus 1 T.B.
12	Are sample containers identifiable as GEL provided?	☒	
13	COC form is properly signed in relinquished/received sections?	☒	
Comments (Use Continuation Form if needed):			

PM (or PMA) review: Initials

MCH

Date

7/27/17

Page

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List of current GEL Certifications as of 06 October 2017

State	Certification
Alaska	UST-0110
Arkansas	88-0651
CLIA	42D0904046
California	2940
Colorado	SC00012
Connecticut	PH-0169
Delaware	SC00012
DoD ELAP/ ISO17025 A2LA	2567.01
Florida NELAP	E87156
Foreign Soils Permit	P330-15-00283, P330-15-00253
Georgia	SC00012
Georgia SDWA	967
Hawaii	SC00012
Idaho Chemistry	SC00012
Idaho Radiochemistry	SC00012
Illinois NELAP	200029
Indiana	C-SC-01
Kansas NELAP	E-10332
Kentucky SDWA	90129
Kentucky Wastewater	90129
Louisiana NELAP	03046 (AI33904)
Louisiana SDWA	LA170010
Maryland	270
Massachusetts	M-SC012
Michigan	9976
Mississippi	SC00012
Nebraska	NE-OS-26-13
Nevada	SC000122018-1
New Hampshire NELAP	205415
New Jersey NELAP	SC002
New Mexico	SC00012
New York NELAP	11501
North Carolina	233
North Carolina SDWA	45709
North Dakota	R-158
Oklahoma	9904
Pennsylvania NELAP	68-00485
Puerto Rico	SC00012
S.Carolina Radchem	10120002
South Carolina Chemistry	10120001
Tennessee	TN 02934
Texas NELAP	T104704235-17-12
Utah NELAP	SC000122017-23
Vermont	VT87156
Virginia NELAP	460202
Washington	C780
West Virginia	997404