

November 17, 2017

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

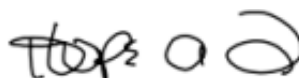
Re: Sample Analysis
Work Order: 437215

Dear Bob Walker:

GEL Laboratories, LLC (GEL) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on November 07, 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: 437215 GEL Work Order: 437215

The Qualifiers in this report are defined as follows:

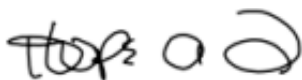
- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a Tracer compound
- ** Analyte is a surrogate compound
- J Value is estimated
- U Analyte was analyzed for, but not detected above the MDL, MDA, MDC or LOD.
- X Consult Case Narrative, Data Summary package,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

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

Certificate of Analysis

Report Date: November 17, 2017

Company : H2GO Brunswick Regional Water & Sewer
Address : 516 Village Road, NE

Leland, North Carolina 28451

Contact: Bob Walker
Project: Sample Analysis

Client Sample ID: H2GO GST/BPS
Sample ID: 437215001
Matrix: Drinking Water (Potable)
Collect Date: 31-OCT-17 15:10
Receive Date: 07-NOV-17
Collector: Client

Project: H2GO00117
Client ID: H2GO001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
LCMSMS PFCs												
NC 6 PFCs by LC-MS/MS "As Received"												
Nafion Byproduct 1	UX	ND			ng/L	0.0197	1	JLS	11/13/17	0125	1717449	1
Nafion Byproduct 2	UX	ND			ng/L	0.0197	1					
Perfluoro(3,5,7,9-tetraoxadecanoic) acid (PFO4DA)	UX	ND			ng/L	0.0197	1					
Perfluoro(3,5,7-trioxaoctanoic) acid (PFO3OA)	UX	ND			ng/L	0.0197	1					
Perfluoro(3,5-dioxahexanoic) acid (PFO2HxA)	UX	ND			ng/L	0.0197	1					
Perfluoro-2-methoxyacetic acid (PFMOAA)	UX	ND			ng/L	0.0197	1					
Perfluoro-3-methoxypropanoic acid (PFMOPrA)	UX	ND			ng/L	0.0197	1					
Perfluoro-4-methoxybutanic acid (PFMOBA)	UX	ND			ng/L	0.0197	1					
PFOA, PFOS by LC-MS/MS "As Received"												
2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)-propanoic acid (PFPrOPrA)	U	ND	0.651	1.97	ng/L	0.0197	1	JLS	11/13/17	0125	1717449	2
Fluorotelomer sulfonate 4:2 (4:2 FTS)	U	ND	1.30	3.71	ng/L	0.0197	1					
Fluorotelomer sulfonate 6:2 (6:2 FTS)	U	ND	1.30	3.75	ng/L	0.0197	1					
Fluorotelomer sulfonate 8:2 (8:2 FTS)	U	ND	1.30	3.79	ng/L	0.0197	1					
Perfluorobutanesulfonate (PFBS)	U	ND	0.651	1.76	ng/L	0.0197	1					
Perfluorobutyric acid (PFBA)	U	ND	0.651	1.97	ng/L	0.0197	1					
Perfluorodecanesulfonate (PFDS)	U	ND	0.651	1.91	ng/L	0.0197	1					
Perfluorodecanoic acid (PFDA)	U	ND	0.651	1.97	ng/L	0.0197	1					
Perfluorododecanoic acid (PFDoA)	U	ND	0.651	1.97	ng/L	0.0197	1					
Perfluoroheptanesulfonate (PFHpS)	U	ND	0.651	1.87	ng/L	0.0197	1					
Perfluoroheptanoic acid (PFHpA)	U	ND	0.651	1.97	ng/L	0.0197	1					
Perfluorohexanesulfonate (PFHxS)	U	ND	0.651	1.80	ng/L	0.0197	1					
Perfluorohexanoic acid (PFHxA)	U	ND	0.651	1.97	ng/L	0.0197	1					
Perfluorononanesulfonate (PFNS)	U	ND	0.651	1.89	ng/L	0.0197	1					
Perfluorononanoic acid (PFNA)	U	ND	0.651	1.97	ng/L	0.0197	1					
Perfluorooctanesulfonamide (PFOSA)	U	ND	0.651	1.84	ng/L	0.0197	1					
Perfluorooctanesulfonate (PFOS)	U	ND	0.651	1.97	ng/L	0.0197	1					
Perfluorooctanoic acid (PFOA)	U	ND	0.651	1.97	ng/L	0.0197	1					

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Certificate of Analysis

Report Date: November 17, 2017

Company : H2GO Brunswick Regional Water & Sewer
Address : 516 Village Road, NE

Leland, North Carolina 28451

Contact: Bob Walker
Project: Sample Analysis

Client Sample ID: H2GO GST/BPS
Sample ID: 437215001

Project: H2GO00117
Client ID: H2GO001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
LCMSMS PFCs												
PFOA, PFOS by LC-MS/MS "As Received"												
Perfluoropentanesulfonate (PFPeS)	U	ND	0.651	1.86	ng/L	0.0197	1					
Perfluoropentanoic acid (PFPeA)	U	ND	0.651	1.97	ng/L	0.0197	1					
Perfluorotetradecanoic acid (PFTeDA)	U	ND	0.651	1.97	ng/L	0.0197	1					
Perfluorotridecanoic acid (PFTeDA)	U	ND	0.651	1.97	ng/L	0.0197	1					
Perfluoroundecanoic acid (PFUdA)	U	ND	0.651	1.97	ng/L	0.0197	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 537	PFCs Extraction in Drinking Water	GXC1	11/09/17	1100	1717448

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	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

Report Date: November 17, 2017

Company : H2GO Brunswick Regional Water & Sewer
Address : 516 Village Road, NE

Leland, North Carolina 28451

Contact: Bob Walker
Project: Sample Analysis

Client Sample ID: H2GO GST/BPS
Sample ID: 437215002
Matrix: Drinking Water (Potable)
Collect Date: 31-OCT-17 15:10
Receive Date: 07-NOV-17
Collector: Client

Project: H2GO00117
Client ID: H2GO001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
LCMSMS PFCs												
NC 6 PFCs by LC-MS/MS "As Received"												
Nafion Byproduct 1	X	0.797			ng/L	0.021	1	JLS	11/13/17	0312	1717449	1
Nafion Byproduct 2	X	2.16			ng/L	0.021	1					
Perfluoro(3,5,7,9-tetraoxadecanoic) acid (PFO4DA)	X	1.42			ng/L	0.021	1					
Perfluoro(3,5,7-trioxaoctanoic) acid (PFO3OA)	X	4.63			ng/L	0.021	1					
Perfluoro(3,5-dioxahexanoic) acid (PFO2HxA)	X	16.1			ng/L	0.021	1					
Perfluoro-2-methoxyacetic acid (PFMOAA)	X	0.601			ng/L	0.021	1					
Perfluoro-3-methoxypropanoic acid (PFMOPrA)	UX	ND			ng/L	0.021	1					
Perfluoro-4-methoxybutanoic acid (PFMOBA)	X	1.58			ng/L	0.021	1					
PFOA, PFOS by LC-MS/MS "As Received"												
Fluorotelomer sulfonate 4:2 (4:2 FTS)	U	ND	1.39	3.95	ng/L	0.021	1	JLS	11/13/17	0312	1717449	2
Fluorotelomer sulfonate 6:2 (6:2 FTS)	U	ND	1.39	4.00	ng/L	0.021	1					
Fluorotelomer sulfonate 8:2 (8:2 FTS)	U	ND	1.39	4.04	ng/L	0.021	1					
Perfluorobutanesulfonate (PFBS)		3.95	0.694	1.87	ng/L	0.021	1					
Perfluorobutyric acid (PFBA)		19.9	0.694	2.10	ng/L	0.021	1					
Perfluorodecanesulfonate (PFDS)	U	ND	0.694	2.04	ng/L	0.021	1					
Perfluorodecanoic acid (PFDA)	J	1.86	0.694	2.10	ng/L	0.021	1					
Perfluorododecanoic acid (PFDoA)	U	ND	0.694	2.10	ng/L	0.021	1					
Perfluoroheptanesulfonate (PFHpS)	U	ND	0.694	2.00	ng/L	0.021	1					
Perfluoroheptanoic acid (PFHpA)		25.2	0.694	2.10	ng/L	0.021	1					
Perfluorohexanesulfonate (PFHxS)		4.65	0.694	1.91	ng/L	0.021	1					
Perfluorononanesulfonate (PFNS)	U	ND	0.694	2.02	ng/L	0.021	1					
Perfluorononanoic acid (PFNA)		2.61	0.694	2.10	ng/L	0.021	1					
Perfluorooctanesulfonamide (PFOSA)	U	ND	0.694	1.96	ng/L	0.021	1					
Perfluorooctanesulfonate (PFOS)		7.19	0.694	2.10	ng/L	0.021	1					
Perfluorooctanoic acid (PFOA)		11.2	0.694	2.10	ng/L	0.021	1					
Perfluoropentanesulfonate (PFPeS)	J	0.898	0.694	1.98	ng/L	0.021	1					
Perfluorotetradecanoic acid (PFTeDA)	U	ND	0.694	2.10	ng/L	0.021	1					
Perfluorotridecanoic acid (PFTTrDA)	U	ND	0.694	2.10	ng/L	0.021	1					

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Address : 516 Village Road, NE

Leland, North Carolina 28451

Contact: Bob Walker
Project: Sample Analysis

Client Sample ID: H2GO GST/BPS
Sample ID: 437215002

Project: H2GO00117
Client ID: H2GO001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
LCMSMS PFCs												
PFOA, PFOS by LC-MS/MS "As Received"												
Perfluoroundecanoic acid (PFUdA)	U	ND	0.694	2.10	ng/L	0.021	1					
2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)-propanoic acid (PFPrOPrA)		51.4	1.39	4.21	ng/L	0.021	2	JLS	11/13/17	0208	1717449	3
Perfluorohexanoic acid (PFHxA)		42.5	1.39	4.21	ng/L	0.021	2					
Perfluoropentanoic acid (PFPeA)		47.8	1.39	4.21	ng/L	0.021	2					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 537	PFCs Extraction in Drinking Water	GXC1	11/09/17	1100	1717448

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	EPA 537	
2	EPA 537	
3	EPA 537	

Notes:

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

Report Date: November 17, 2017

Company : H2GO Brunswick Regional Water & Sewer
Address : 516 Village Road, NE

Leland, North Carolina 28451

Contact: Bob Walker
Project: Sample Analysis

Client Sample ID: BELVILLE ELEMENTARY
Sample ID: 437215003
Matrix: Drinking Water (Potable)
Collect Date: 06-NOV-17 13:20
Receive Date: 07-NOV-17
Collector: Client

Project: H2GO00117
Client ID: H2GO001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
LCMSMS PFCs												
NC 6 PFCs by LC-MS/MS "As Received"												
Nafion Byproduct 1	UX	ND			ng/L	0.0196	1	JLS	11/13/17	0229	1717449	1
Nafion Byproduct 2	UX	ND			ng/L	0.0196	1					
Perfluoro(3,5,7,9-tetraoxadecanoic) acid (PFO4DA)	UX	ND			ng/L	0.0196	1					
Perfluoro(3,5,7-trioxaoctanoic) acid (PFO3OA)	UX	ND			ng/L	0.0196	1					
Perfluoro(3,5-dioxahexanoic) acid (PFO2HxA)	UX	ND			ng/L	0.0196	1					
Perfluoro-2-methoxyacetic acid (PFMOAA)	UX	ND			ng/L	0.0196	1					
Perfluoro-3-methoxypropanoic acid (PFMOPrA)	UX	ND			ng/L	0.0196	1					
Perfluoro-4-methoxybutanic acid (PFMOBA)	UX	ND			ng/L	0.0196	1					
PFOA, PFOS by LC-MS/MS "As Received"												
2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)-propanoic acid (PFPrOPrA)	U	ND	0.647	1.96	ng/L	0.0196	1	JLS	11/13/17	0229	1717449	2
Fluorotelomer sulfonate 4:2 (4:2 FTS)	U	ND	1.29	3.68	ng/L	0.0196	1					
Fluorotelomer sulfonate 6:2 (6:2 FTS)	U	ND	1.29	3.72	ng/L	0.0196	1					
Fluorotelomer sulfonate 8:2 (8:2 FTS)	U	ND	1.29	3.76	ng/L	0.0196	1					
Perfluorobutanesulfonate (PFBS)	U	ND	0.647	1.74	ng/L	0.0196	1					
Perfluorobutyric acid (PFBA)	U	ND	0.647	1.96	ng/L	0.0196	1					
Perfluorodecanesulfonate (PFDS)	U	ND	0.647	1.90	ng/L	0.0196	1					
Perfluorodecanoic acid (PFDA)	U	ND	0.647	1.96	ng/L	0.0196	1					
Perfluorododecanoic acid (PFDoA)	U	ND	0.647	1.96	ng/L	0.0196	1					
Perfluoroheptanesulfonate (PFHpS)	U	ND	0.647	1.86	ng/L	0.0196	1					
Perfluoroheptanoic acid (PFHpA)	U	ND	0.647	1.96	ng/L	0.0196	1					
Perfluorohexanesulfonate (PFHxS)	U	ND	0.647	1.78	ng/L	0.0196	1					
Perfluorohexanoic acid (PFHxA)	U	ND	0.647	1.96	ng/L	0.0196	1					
Perfluorononanesulfonate (PFNS)	U	ND	0.647	1.88	ng/L	0.0196	1					
Perfluorononanoic acid (PFNA)	U	ND	0.647	1.96	ng/L	0.0196	1					
Perfluorooctanesulfonamide (PFOSA)	U	ND	0.647	1.82	ng/L	0.0196	1					
Perfluorooctanesulfonate (PFOS)	U	ND	0.647	1.96	ng/L	0.0196	1					
Perfluorooctanoic acid (PFOA)	U	ND	0.647	1.96	ng/L	0.0196	1					

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Certificate of Analysis

Report Date: November 17, 2017

Company : H2GO Brunswick Regional Water & Sewer
Address : 516 Village Road, NE

Leland, North Carolina 28451

Contact: Bob Walker
Project: Sample Analysis

Client Sample ID: BELVILLE ELEMENTARY
Sample ID: 437215003

Project: H2GO00117
Client ID: H2GO001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
LCMSMS PFCs												
PFOA, PFOS by LC-MS/MS "As Received"												
Perfluoropentanesulfonate (PFPeS)	U	ND	0.647	1.84	ng/L	0.0196	1					
Perfluoropentanoic acid (PFPeA)	U	ND	0.647	1.96	ng/L	0.0196	1					
Perfluorotetradecanoic acid (PFTeDA)	U	ND	0.647	1.96	ng/L	0.0196	1					
Perfluorotridecanoic acid (PFTeDA)	U	ND	0.647	1.96	ng/L	0.0196	1					
Perfluoroundecanoic acid (PFUdA)	U	ND	0.647	1.96	ng/L	0.0196	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 537	PFCs Extraction in Drinking Water	GXC1	11/09/17	1100	1717448

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	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

GEL LABORATORIES LLC

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

Certificate of Analysis

Report Date: November 17, 2017

Company : H2GO Brunswick Regional Water & Sewer
Address : 516 Village Road, NE

Leland, North Carolina 28451

Contact: Bob Walker
Project: Sample Analysis

Client Sample ID: BELVILLE ELEMENTARY
Sample ID: 437215004
Matrix: Drinking Water (Potable)
Collect Date: 06-NOV-17 13:20
Receive Date: 07-NOV-17
Collector: Client

Project: H2GO00117
Client ID: H2GO001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
LCMSMS PFCs												
NC 6 PFCs by LC-MS/MS "As Received"												
Nafion Byproduct 1	X	0.697			ng/L	0.0204	1	JLS	11/13/17	0251	1717449	1
Nafion Byproduct 2	X	1.73			ng/L	0.0204	1					
Perfluoro(3,5,7,9-tetraoxadecanoic) acid (PFO4DA)	X	1.66			ng/L	0.0204	1					
Perfluoro(3,5,7-trioxaoctanoic) acid (PFO3OA)	X	3.89			ng/L	0.0204	1					
Perfluoro(3,5-dioxahexanoic) acid (PFO2HxA)	X	11.8			ng/L	0.0204	1					
Perfluoro-2-methoxyacetic acid (PFMOAA)	X	0.427			ng/L	0.0204	1					
Perfluoro-3-methoxypropanoic acid (PFMOPrA)	UX	ND			ng/L	0.0204	1					
Perfluoro-4-methoxybutanic acid (PFMOBA)	X	1.03			ng/L	0.0204	1					
PFOA, PFOS by LC-MS/MS "As Received"												
2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)-propanoic acid (PFPrOPrA)		30.1	0.672	2.04	ng/L	0.0204	1	JLS	11/13/17	0251	1717449	2
Fluorotelomer sulfonate 4:2 (4:2 FTS)	U	ND	1.34	3.83	ng/L	0.0204	1					
Fluorotelomer sulfonate 6:2 (6:2 FTS)	U	ND	1.34	3.87	ng/L	0.0204	1					
Fluorotelomer sulfonate 8:2 (8:2 FTS)	U	ND	1.34	3.91	ng/L	0.0204	1					
Perfluorobutanesulfonate (PFBS)		2.71	0.672	1.81	ng/L	0.0204	1					
Perfluorobutyric acid (PFBA)		13.3	0.672	2.04	ng/L	0.0204	1					
Perfluorodecanesulfonate (PFDS)	U	ND	0.672	1.97	ng/L	0.0204	1					
Perfluorodecanoic acid (PFDA)	J	1.41	0.672	2.04	ng/L	0.0204	1					
Perfluorododecanoic acid (PFDoA)	U	ND	0.672	2.04	ng/L	0.0204	1					
Perfluoroheptanesulfonate (PFHpS)	U	ND	0.672	1.93	ng/L	0.0204	1					
Perfluoroheptanoic acid (PFHpA)		18.4	0.672	2.04	ng/L	0.0204	1					
Perfluorohexanesulfonate (PFHxS)		3.52	0.672	1.85	ng/L	0.0204	1					
Perfluorohexanoic acid (PFHxA)		28.1	0.672	2.04	ng/L	0.0204	1					
Perfluorononanesulfonate (PFNS)	U	ND	0.672	1.95	ng/L	0.0204	1					
Perfluorononanoic acid (PFNA)	J	1.82	0.672	2.04	ng/L	0.0204	1					
Perfluorooctanesulfonamide (PFOSA)	U	ND	0.672	1.89	ng/L	0.0204	1					
Perfluorooctanesulfonate (PFOS)		5.03	0.672	2.04	ng/L	0.0204	1					
Perfluorooctanoic acid (PFOA)		8.76	0.672	2.04	ng/L	0.0204	1					

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Certificate of Analysis

Report Date: November 17, 2017

Company : H2GO Brunswick Regional Water & Sewer
Address : 516 Village Road, NE

Leland, North Carolina 28451

Contact: Bob Walker
Project: Sample Analysis

Client Sample ID: BELVILLE ELEMENTARY
Sample ID: 437215004

Project: H2GO00117
Client ID: H2GO001

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
LCMSMS PFCs												
PFOA, PFOS by LC-MS/MS "As Received"												
Perfluoropentanesulfonate (PFPeS)	U	ND	0.672	1.91	ng/L	0.0204	1					
Perfluoropentanoic acid (PFPeA)		32.8	0.672	2.04	ng/L	0.0204	1					
Perfluorotetradecanoic acid (PFTeDA)	U	ND	0.672	2.04	ng/L	0.0204	1					
Perfluorotridecanoic acid (PFTeDA)	U	ND	0.672	2.04	ng/L	0.0204	1					
Perfluoroundecanoic acid (PFUdA)	U	ND	0.672	2.04	ng/L	0.0204	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
EPA 537	PFCs Extraction in Drinking Water	GXC1	11/09/17	1100	1717448

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	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

GEL LABORATORIES LLC

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

QC Summary

Report Date: November 17, 2017

Page 1 of 8

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

Contact: Bob Walker

Workorder: 437215

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Perfluorinated Compounds											
Batch	1717449										
QC1203916045 LCS											
2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)-propanoic acid (PFPrOPrA)	19.7			19.7	ng/L		100	(70%-130%)	JLS	11/13/17	00:42
Fluorotelomer sulfonate 4:2 (4:2 FTS)	18.4			19.5	ng/L		106	(70%-130%)			
Fluorotelomer sulfonate 6:2 (6:2 FTS)	18.7			16.4	ng/L		87	(70%-130%)			
Fluorotelomer sulfonate 8:2 (8:2 FTS)	18.9			19.4	ng/L		103	(70%-130%)			
Nafion Byproduct 1			UX	ND	ng/L						
Nafion Byproduct 2			UX	ND	ng/L						
Perfluoro(3,5,7,9-tetraoxadecanoic) acid (PFO4DA)			UX	ND	ng/L						
Perfluoro(3,5,7-trioxaooctanoic) acid (PFO3OA)			UX	ND	ng/L						
Perfluoro(3,5-dioxahexanoic) acid (PFO2HxA)			UX	ND	ng/L						
Perfluoro-2-methoxyacetic acid (PFMOAA)			UX	ND	ng/L						
Perfluoro-3-methoxypropanoic acid (PFMOPrA)			UX	ND	ng/L						
Perfluoro-4-methoxybutanic acid (PFMOBA)			UX	ND	ng/L						
Perfluorobutanesulfonate (PFBS)	17.5			17.1	ng/L		98	(70%-130%)			

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Perfluorinated Compounds											
Batch	1717449										
Perfluorobutyric acid (PFBA)	19.7			18.6	ng/L		94	(70%-130%)	JLS	11/13/17	00:42
Perfluorodecanesulfonate (PFDS)	19.0			18.4	ng/L		97	(70%-130%)			
Perfluorodecanoic acid (PFDA)	19.7			18.3	ng/L		93	(70%-130%)			
Perfluorododecanoic acid (PFDoA)	19.7			17.7	ng/L		90	(70%-130%)			
Perfluoroheptanesulfonate (PFHpS)	18.7			17.0	ng/L		91	(70%-130%)			
Perfluoroheptanoic acid (PFHpA)	19.7			19.4	ng/L		98	(70%-130%)			
Perfluorohexanesulfonate (PFHxS)	18.0			16.1	ng/L		90	(70%-130%)			
Perfluorohexanoic acid (PFHxA)	19.7			19.1	ng/L		97	(70%-130%)			
Perfluorononanesulfonate (PFNS)	18.9			18.3	ng/L		97	(70%-130%)			
Perfluorononanoic acid (PFNA)	19.7			19.5	ng/L		99	(70%-130%)			
Perfluorooctanesulfonamide (PFOSA)	18.3			18.0	ng/L		99	(70%-130%)			
Perfluorooctanesulfonate (PFOS)	19.7			18.2	ng/L		92	(70%-130%)			
Perfluorooctanoic acid (PFOA)	19.7			18.5	ng/L		94	(70%-130%)			
Perfluoropentanesulfonate (PFPeS)	18.5			16.6	ng/L		90	(70%-130%)			
Perfluoropentanoic acid (PFPeA)	19.7			19.2	ng/L		98	(70%-130%)			

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QC Summary

Workorder: 437215

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Perfluorinated Compounds											
Batch	1717449										
Perfluorotetradecanoic acid (PFTeDA)	19.7			17.8	ng/L		90	(70%-130%)	JLS	11/13/17	00:42
Perfluorotridecanoic acid (PFTTrDA)	19.7			17.9	ng/L		91	(70%-130%)			
Perfluoroundecanoic acid (PFUdA)	19.7			21.0	ng/L		107	(70%-130%)			
QC1203916046 LCSD											
2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)-propanoic acid (PFPrOPrA)	19.7			20.9	ng/L	6	106	(0%-30%)		11/13/17	01:04
Fluorotelomer sulfonate 4:2 (4:2 FTS)	18.4			19.4	ng/L	1	105	(0%-30%)			
Fluorotelomer sulfonate 6:2 (6:2 FTS)	18.7			18.5	ng/L	12	99	(0%-30%)			
Fluorotelomer sulfonate 8:2 (8:2 FTS)	18.9			18.3	ng/L	6	97	(0%-30%)			
Nafion Byproduct 1			UX	ND	ng/L	N/A					
Nafion Byproduct 2			UX	ND	ng/L	N/A					
Perfluoro(3,5,7,9-tetraoxadecanoic) acid (PFO4DA)			UX	ND	ng/L	N/A					
Perfluoro(3,5,7-trioxaoctanoic) acid (PFO3OA)			UX	ND	ng/L	N/A					
Perfluoro(3,5-dioxahexanoic) acid (PFO2HxA)			UX	ND	ng/L	N/A					
Perfluoro-2-methoxyacetic acid (PFMOAA)			UX	ND	ng/L	N/A					
Perfluoro-3-methoxypropanoic acid (PFMOPrA)			UX	ND	ng/L	N/A					
Perfluoro-4-methoxybutanic acid (PFMOBA)			UX	ND	ng/L	N/A					

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Perfluorinated Compounds											
Batch	1717449										
Perfluorobutanesulfonate (PFBS)	17.5			17.1	ng/L	0	98	(0%-30%)	JLS	11/13/17	01:04
Perfluorobutyric acid (PFBA)	19.7			20.6	ng/L	10	104	(0%-30%)			
Perfluorodecanesulfonate (PFDS)	19.0			18.1	ng/L	2	95	(0%-30%)			
Perfluorodecanoic acid (PFDA)	19.7			19.7	ng/L	7	100	(0%-30%)			
Perfluorododecanoic acid (PFDoA)	19.7			18.0	ng/L	2	91	(0%-30%)			
Perfluoroheptanesulfonate (PFHpS)	18.7			18.3	ng/L	8	98	(0%-30%)			
Perfluoroheptanoic acid (PFHpA)	19.7			19.4	ng/L	0	98	(0%-30%)			
Perfluorohexanesulfonate (PFHxS)	18.0			18.0	ng/L	11	100	(0%-30%)			
Perfluorohexanoic acid (PFHxA)	19.7			20.1	ng/L	5	102	(0%-30%)			
Perfluorononanesulfonate (PFNS)	18.9			19.0	ng/L	4	100	(0%-30%)			
Perfluorononanoic acid (PFNA)	19.7			20.4	ng/L	5	103	(0%-30%)			
Perfluorooctanesulfonamide (PFOSA)	18.3			18.2	ng/L	1	100	(0%-30%)			
Perfluorooctanesulfonate (PFOS)	19.7			19.7	ng/L	8	100	(0%-30%)			
Perfluorooctanoic acid (PFOA)	19.7			18.5	ng/L	0	94	(0%-30%)			
Perfluoropentanesulfonate (PFPeS)	18.5			18.2	ng/L	9	98	(0%-30%)			

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Perfluorinated Compounds											
Batch 1717449											
Perfluoropentanoic acid (PFPeA)	19.7			19.5	ng/L	1	99	(0%-30%)	JLS	11/13/17	01:04
Perfluorotetradecanoic acid (PFTeDA)	19.7			18.7	ng/L	4	95	(0%-30%)			
Perfluorotridecanoic acid (PFTTrDA)	19.7			19.5	ng/L	9	99	(0%-30%)			
Perfluoroundecanoic acid (PFUdA)	19.7			20.4	ng/L	3	103	(0%-30%)			
QC1203916044 MB											
2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)-propanoic acid (PFPrOPrA)			U	ND	ng/L					11/13/17	00:21
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						
Nafion Byproduct 1			UX	ND	ng/L						
Nafion Byproduct 2			UX	ND	ng/L						
Perfluoro(3,5,7,9-tetraoxadecanoic) acid (PFO4DA)			UX	ND	ng/L						
Perfluoro(3,5,7-trioxaooctanoic) acid (PFO3OA)			UX	ND	ng/L						
Perfluoro(3,5-dioxahexanoic) acid (PFO2HxA)			UX	ND	ng/L						
Perfluoro-2-methoxyacetic acid (PFMOAA)			UX	ND	ng/L						
Perfluoro-3-methoxypropanoic acid (PFMOPrA)			UX	ND	ng/L						

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Perfluorinated Compounds											
Batch	1717449										
Perfluoro-4-methoxybutanic acid (PFMOBA)			UX	ND	ng/L				JLS	11/13/17	00:21
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						
Perfluorononanoic acid (PFNA)			U	ND	ng/L						
Perfluorooctanesulfonamide (PFOSA)			U	ND	ng/L						
Perfluorooctanesulfonate (PFOS)			U	ND	ng/L						
Perfluorooctanoic acid (PFOA)			U	ND	ng/L						

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
Perfluorinated Compounds											
Batch	1717449										
Perfluoropentanesulfonate (PFPeS)			U	ND	ng/L				JLS	11/13/17 00:21	
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						

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%.
- Q One or more quality control criteria have not been met. Refer to the applicable narrative or DER.
- R Sample results are rejected

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QC Summary

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Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time
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.

**LCMSMS-Misc
Technical Case Narrative
H2GO Brunswick Regional Water & Sewer (H2GO)
SDG #: 437215**

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

Analytical Method: EPA 537

Analytical Procedure: GL-OA-E-076 REV# 4

Analytical Batches: 1717449 and 1717448

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

<u>GEL Sample ID#</u>	<u>Client Sample Identification</u>
437215001	H2GO GST/BPS
437215002	H2GO GST/BPS
437215003	BELVILLE ELEMENTARY
437215004	BELVILLE ELEMENTARY
1203916044	Method Blank (MB)
1203916045	Laboratory Control Sample (LCS)
1203916046	Laboratory Control Sample Duplicate (LCSD)

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 within the calibration range. 437215002 (H2GO GST/BPS).

Analyte	437215
	002
2,3,3,3-Tetrafluoro-2-(1,1,2,2,3,3,3-heptafluoropropoxy)-propanoic acid (PFPrOPrA)	2X
Perfluorohexanoic acid (PFHxA)	2X
Perfluoropentanoic acid (PFPeA)	2X

Miscellaneous Information

Additional Comments

Results reported with the X qualifier are estimated concentrations and were obtained the GenX calibration curve because authentic standards are not available at this time. 1203916044 (MB), 437215001 (H2GO GST/BPS), 437215002 (H2GO GST/BPS), 437215003 (BELVILLE ELEMENTARY) and 437215004 (BELVILLE ELEMENTARY).

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.

Page: <u>1</u> of <u>1</u>	GEL Chain of Custody and Analytical Request	GEL Laboratories, LLC
Project #: <u>8</u>		2040 Savage Road
GEL Quote #: _____		Charleston, SC 29407
GOC Number ⁽¹⁾ : _____		Phone: (843) 556-8171
PO Number: _____		Fax: (843) 766-1178

GEL Chain of Custody and Analytical Request

GEL Work Order Number: 437215

Phone #:

Client Name: H2GD

Project/Site Name:

Fax #:

Address:

Collected by:

Send Results To: Bob Walker

[illegible]

	Level 4	Level 3	Level 2	Level 1	QC Summary	C of A	Circle Deliverable:
TAT Requested:	Normal						
Rush:							
Specify:							
Fax Results:	Yes	/					
(Subject to Surcharge)							

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

	Eastern	Pacific
Central		
Mountain		
Other		

Chain of Custody Signatures

Relinquished By (Signed)	Date	Time	Received by (signed)	Date	Time	GEL PM:
Bob Walker	110617	1430	3	11/7/17	11:15	Method of Shipment:
			2			Airbill #:
			3			Airbill #:

Chain of Custody Number = Client Determined

;) Chain of Custody Number = Client Determined

QC Codes: N = Normal Sample, IB = Trip Blank, ED = Field Duplicate, EQD = Equipment Duplcs., MSB = Matrix Spike Sample, MSA = Matrix Spike Adduct.

Field Filtered: F-for liquid matrices, indicate with a Y or N for sample was not held filtered.

1.) Matrix Codes: DW=Drinking Water, GW=Groundwater, SW=Surface Water, W=Waste Water, WW=Waste Water, SS=Sludge, SD=Settleable, SL=Sludge, SS=Solid Waste, and

Sample Analysis Requested: Analytical method requested (i.e. 8260B, 6010B/7470A) and number of containers provided for each (i.e. 8260B = 3, 6010B/7470A = 1).

WHITE = LABORATORY

PINK = CLIENT

For Lab Receiving Use Only

Custody Seal Intact?

ES NO

Cooler Temp:

SAMPLE RECEIPT & REVIEW FORM

Client: <u>H260</u>		SDG/AR/COC/Work Order: <u>437215</u>		
Received By: <u>ZKW</u>		Date Received: <u>11/7/17</u>		
Carrier and Tracking Number		Circle Applicable: FedEx Express <input checked="" type="checkbox"/> FedEx Ground <input type="checkbox"/> UPS <input type="checkbox"/> Field Services <input type="checkbox"/> Courier <input type="checkbox"/> Other <input type="checkbox"/>		
		<u>7336 97010663</u>		
Suspected Hazard Information	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	*If Net Counts > 100cpm on samples not marked "radioactive", contact the Radiation Safety Group for further investigation.		
Shipped as a DOT Hazardous?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Hazard Class Shipped: _____ UN#: _____		
COC/Samples marked or classified as radioactive?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Maximum Net Counts Observed* (Observed Counts - Area Background Counts): <u>0</u> CPM/mR/Hr Classified as: Rad 1 Rad 2 Rad 3		
Is package, COC, and/or Samples marked HAZ?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	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?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
2 Chain of custody documents included with shipment?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3 Samples requiring cold preservation within (0 ≤ 6 deg. C)?*	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Preservation Method: <u>Wet Ice</u> Ice Packs Dry ice None Other: *all temperatures are recorded in Celsius TEMP: <u>2°C</u>
4 Daily check performed and passed on IR temperature gun?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Temperature Device Serial #: <u>IR3-16</u> Secondary Temperature Device Serial # (If Applicable):
5 Sample containers intact and sealed?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Circle Applicable: Seals broken Damaged container Leaking container Other (describe)
6 Samples requiring chemical preservation at proper pH?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample ID's and Containers Affected: If Preservation added, Lot#:
7 Do any samples require Volatile Analysis?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	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?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	ID's and tests affected:
9 Sample ID's on COC match ID's on bottles?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample ID's and containers affected: <u>No ID on 2nd GST/BPS sample</u>
10 Date & time on COC match date & time on bottles?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample ID's affected: <u>No Date/Time on 2nd GST/BPS sample</u>
11 Number of containers received match number indicated on COC?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Sample ID's affected:
12 Are sample containers identifiable as GEL provided?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
13 COC form is properly signed in relinquished/received sections?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Comments (Use Continuation Form if needed):				

PM (or PMA) review: Initials

Date 11.8.2017 Page 1 of 1

GL-CHL-SR-001 Rev 5

List of current GEL Certifications as of 17 November 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	SC000122017-24
Vermont	VT87156
Virginia NELAP	460202
Washington	C780
West Virginia	997404