eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: 410-2505-1
Client Project/Site: Newberry System
Sampling Event: Newberry System

For:
SUEZ Water Environmental Services Inc
6310 Allentown Blvd
Suite 104
Harrisburg, Pennsylvania 17112

Attn: Penny Bumbarger

Elizabeth M. Zanar

Authorized for release by:
6/9/2020 1:37:55 PM

Elizabeth Zanar, Project Manager
(717)556-7290
elizabethmzanar@eurofinsus.com

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, WXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANACASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

Elizabeth M. Zanar

Elizabeth Zanar
Project Manager
6/9/2020 1:37:55 PM

Table of Contents

Definitions/Glossary

Client: SUEZ Water Environmental Services Inc
Job ID: 410-2505-1
Project/Site: Newberry System

Qualifiers

LCMS

Qualifier	Qualifier Description
E	Result exceeded calibration range.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: SUEZ Water Environmental Services Inc
Project/Site: Newberry System

Job ID: 410-2505-1

Job ID: 410-2505-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative
410-2505-1

Comments
No additional comments.

Receipt
The samples were received on 5/21/2020 4:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were -0.1º C and 5.1º C.

Receipt Exceptions
The container label for the following sample(s) did not match the information listed on the Chain-of-Custody (COC): 301s- Conley lead vessel midway,FB- Conley lead vessel midway, 302s-dupont lead vessel midway, FB-dupont lead vessel midway. The information listed on the COC was followed.

LCMS
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: SUEZ Water Environmental Services Inc
Project/Site: Newberry System

Job ID: 410-2505-1

Client Sample ID: 7670061 001 Playground Well — Lab Sample ID: 410-2505-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	27		1.7	0.43	ng/L	1		537 DW	Total/NA
Perfluoroheptanoic acid	4.5		1.7	0.43	ng/L	1		537 DW	Total/NA
Perfluorooctanoic acid	9.3		1.7	0.43	ng/L	1		537 DW	Total/NA
Perfluorobutanesulfonic acid	3.1		1.7	0.43	ng/L	1		537 DW	Total/NA
Perfluorohexanesulfonic acid	5.8		1.7	0.43	ng/L	1		537 DW	Total/NA
Perfluorooctanesulfonic acid	15		1.7	0.43	ng/L	1		537 DW	Total/NA

Client Sample ID: 7670061 001 Playground Well FB — Lab Sample ID: 410-2505-2

No Detections.

Client Sample ID: 7670061 005 Conley Well — Lab Sample ID: 410-2505-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	5.0		1.9	0.47	ng/L	1		537 DW	Total/NA
Perfluorooctanoic acid	2.8		1.9	0.47	ng/L	1		537 DW	Total/NA
Perfluorohexanesulfonic acid	2.9		1.9	0.47	ng/L	1		537 DW	Total/NA
Perfluorooctanesulfonic acid	5.4		1.9	0.47	ng/L	1		537 DW	Total/NA

Client Sample ID: 7670061 005 Conley Well FB — Lab Sample ID: 410-2505-4

No Detections.

Client Sample ID: 7670061 301 Conley Between Lead & Lag — Lab Sample ID: 410-2505-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	10		1.8	0.45	ng/L	1		537 DW	Total/NA
Perfluoroheptanoic acid	2.0		1.8	0.45	ng/L	1		537 DW	Total/NA
Perfluorooctanoic acid	2.8		1.8	0.45	ng/L	1		537 DW	Total/NA
Perfluorobutanesulfonic acid	3.0		1.8	0.45	ng/L	1		537 DW	Total/NA
Perfluorohexanesulfonic acid	1.9		1.8	0.45	ng/L	1		537 DW	Total/NA

Client Sample ID: 7670061 301 Conley Between Lead & Lag FB — Lab Sample ID: 410-2505-6

No Detections.

Client Sample ID: 7670061 301 Conley Lead Vessel 1/2 Way — Lab Sample ID: 410-2505-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	17		1.8	0.44	ng/L	1		537 DW	Total/NA
Perfluoroheptanoic acid	3.6		1.8	0.44	ng/L	1		537 DW	Total/NA
Perfluorooctanoic acid	5.1		1.8	0.44	ng/L	1		537 DW	Total/NA
Perfluorobutanesulfonic acid	2.9		1.8	0.44	ng/L	1		537 DW	Total/NA
Perfluorohexanesulfonic acid	3.6		1.8	0.44	ng/L	1		537 DW	Total/NA
Perfluorooctanesulfonic acid	4.7		1.8	0.44	ng/L	1		537 DW	Total/NA

Client Sample ID: 7670061 301 Conley Lead Vessel 1/2 Way FB — Lab Sample ID: 410-2505-8

No Detections.

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: SUEZ Water Environmental Services Inc
Project/Site: Newberry System

Job ID: 410-2505-1

Client Sample ID: 7670061 301 Conley After Lag Vessel — Lab Sample ID: 410-2505-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	5.8		1.8	0.44	ng/L	1		537 DW	Total/NA

Client Sample ID: 7670061 301 Conley After Lag Vessel FB — Lab Sample ID: 410-2505-10

No Detections.

Client Sample ID: 7670061 002 Coppersmith Well — Lab Sample ID: 410-2505-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	21		1.7	0.43	ng/L	1		537 DW	Total/NA
Perfluoroheptanoic acid	11		1.7	0.43	ng/L	1		537 DW	Total/NA
Perfluorooctanoic acid	11		1.7	0.43	ng/L	1		537 DW	Total/NA
Perfluorononanoic acid	10		1.7	0.43	ng/L	1		537 DW	Total/NA
Perfluorobutanesulfonic acid	10		1.7	0.43	ng/L	1		537 DW	Total/NA
Perfluorohexanesulfonic acid - DL	77		17	4.3	ng/L	10		537 DW	Total/NA
Perfluorooctanesulfonic acid - DL	110		17	4.3	ng/L	10		537 DW	Total/NA

Client Sample ID: 7670061 002 Coppersmith Well FB — Lab Sample ID: 410-2505-12

No Detections.

Client Sample ID: 7670061 003 DuPont Well — Lab Sample ID: 410-2505-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	6.5		1.8	0.46	ng/L	1		537 DW	Total/NA
Perfluoroheptanoic acid	2.7		1.8	0.46	ng/L	1		537 DW	Total/NA
Perfluorooctanoic acid	4.9		1.8	0.46	ng/L	1		537 DW	Total/NA
Perfluorobutanesulfonic acid	5.8		1.8	0.46	ng/L	1		537 DW	Total/NA
Perfluorohexanesulfonic acid - DL	77		18	4.6	ng/L	10		537 DW	Total/NA
Perfluorooctanesulfonic acid - DL	110		18	4.6	ng/L	10		537 DW	Total/NA

Client Sample ID: 7670061 003 DuPont Well FB — Lab Sample ID: 410-2505-14

No Detections.

Client Sample ID: 7670061 302 DuPont Between Lead & Lag — Lab Sample ID: 410-2505-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	29		1.8	0.44	ng/L	1		537 DW	Total/NA
Perfluoroheptanoic acid	6.9		1.8	0.44	ng/L	1		537 DW	Total/NA
Perfluorooctanoic acid	6.0		1.8	0.44	ng/L	1		537 DW	Total/NA
Perfluorononanoic acid	3.5		1.8	0.44	ng/L	1		537 DW	Total/NA
Perfluorobutanesulfonic acid	9.6		1.8	0.44	ng/L	1		537 DW	Total/NA
Perfluorohexanesulfonic acid	59		1.8	0.44	ng/L	1		537 DW	Total/NA
Perfluorooctanesulfonic acid	52		1.8	0.44	ng/L	1		537 DW	Total/NA

Client Sample ID: 7670061 302 DuPont Between Lead & Lag FB — Lab Sample ID: 410-2505-16

No Detections.

Client Sample ID: 7670061 302 DuPont Lead Vessel 1/2 Way — Lab Sample ID: 410-2505-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	18		1.7	0.44	ng/L	1		537 DW	Total/NA
Perfluoroheptanoic acid	6.3		1.7	0.44	ng/L	1		537 DW	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC

Detection Summary

Client: SUEZ Water Environmental Services Inc
Project/Site: Newberry System

Job ID: 410-2505-1

Client Sample ID: 7670061 302 DuPont Lead Vessel 1/2 Way (Continued)

Lab Sample ID: 410-2505-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorooctanoic acid	6.7		1.7	0.44	ng/L	1		537 DW	Total/NA
Perfluorononanoic acid	5.5		1.7	0.44	ng/L	1		537 DW	Total/NA
Perfluorobutanesulfonic acid	7.9		1.7	0.44	ng/L	1		537 DW	Total/NA
Perfluorohexanesulfonic acid - DL	69		17	4.4	ng/L	10		537 DW	Total/NA
Perfluorooctanesulfonic acid - DL	87		17	4.4	ng/L	10		537 DW	Total/NA

Client Sample ID: 7670061 302 DuPont Lead Vessel 1/2 Way FB

Lab Sample ID: 410-2505-18

No Detections.

Client Sample ID: 7670061 302 DuPont After Lag Vessel

Lab Sample ID: 410-2505-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	18		1.8	0.44	ng/L	1		537 DW	Total/NA
Perfluoroheptanoic acid	2.1		1.8	0.44	ng/L	1		537 DW	Total/NA
Perfluorobutanesulfonic acid	5.3		1.8	0.44	ng/L	1		537 DW	Total/NA
Perfluorohexanesulfonic acid	8.2		1.8	0.44	ng/L	1		537 DW	Total/NA
Perfluorooctanesulfonic acid	2.0		1.8	0.44	ng/L	1		537 DW	Total/NA

Client Sample ID: 7670061 302 DuPont After Lag Vessel FB

Lab Sample ID: 410-2505-20

No Detections.

Client Sample ID: 7670061 101 Conley EP Grab Water

Lab Sample ID: 410-2505-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	4.9		1.7	0.42	ng/L	1		537 DW	Total/NA

Client Sample ID: 7670061 101 Conley Field Blank Grab Water

Lab Sample ID: 410-2505-22

No Detections.

Client Sample ID: 7670061 102 DuPont EP

Lab Sample ID: 410-2505-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	20		1.8	0.45	ng/L	1		537 DW	Total/NA
Perfluoroheptanoic acid	2.4		1.8	0.45	ng/L	1		537 DW	Total/NA
Perfluorobutanesulfonic acid	6.3		1.8	0.45	ng/L	1		537 DW	Total/NA
Perfluorohexanesulfonic acid	9.3		1.8	0.45	ng/L	1		537 DW	Total/NA
Perfluorooctanesulfonic acid	2.0		1.8	0.45	ng/L	1		537 DW	Total/NA

Client Sample ID: 7670061 102 DuPont EP FB

Lab Sample ID: 410-2505-24

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: 7670061 001 Playground Well
Lab Sample ID: 410-2505-1
Date Collected: 05/19/20 08:50
Matrix: Drinking Water
Date Received: 05/21/20 16:40

Method: 537 DW - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**27**		1.7	0.43	ng/L		05/27/20 10:18	05/28/20 19:33	1
Perfluoroheptanoic acid	**4.5**		1.7	0.43	ng/L		05/27/20 10:18	05/28/20 19:33	1
Perfluorooctanoic acid	**9.3**		1.7	0.43	ng/L		05/27/20 10:18	05/28/20 19:33	1
Perfluorononanoic acid	<1.7		1.7	0.43	ng/L		05/27/20 10:18	05/28/20 19:33	1
Perfluorodecanoic acid	<1.7		1.7	0.43	ng/L		05/27/20 10:18	05/28/20 19:33	1
Perfluorotridecanoic acid	<1.7		1.7	0.43	ng/L		05/27/20 10:18	05/28/20 19:33	1
Perfluorotetradecanoic acid	<1.7		1.7	0.43	ng/L		05/27/20 10:18	05/28/20 19:33	1
Perfluorobutanesulfonic acid	**3.1**		1.7	0.43	ng/L		05/27/20 10:18	05/28/20 19:33	1
Perfluorohexanesulfonic acid	**5.8**		1.7	0.43	ng/L		05/27/20 10:18	05/28/20 19:33	1
Perfluorooctanesulfonic acid	**15**		1.7	0.43	ng/L		05/27/20 10:18	05/28/20 19:33	1
NEtFOSAA	<1.7		1.7	0.43	ng/L		05/27/20 10:18	05/28/20 19:33	1
NMeFOSAA	<1.7		1.7	0.43	ng/L		05/27/20 10:18	05/28/20 19:33	1
Perfluoroundecanoic acid	<1.7		1.7	0.43	ng/L		05/27/20 10:18	05/28/20 19:33	1
Perfluorododecanoic acid	<1.7		1.7	0.43	ng/L		05/27/20 10:18	05/28/20 19:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*112*		*70 - 130*	*05/27/20 10:18*	*05/28/20 19:33*	*1*
13C2 PFDA	*107*		*70 - 130*	*05/27/20 10:18*	*05/28/20 19:33*	*1*
13C2 PFHxA	*114*		*70 - 130*	*05/27/20 10:18*	*05/28/20 19:33*	*1*

Client Sample ID: 7670061 001 Playground Well FB
Lab Sample ID: 410-2505-2
Date Collected: 05/19/20 08:50
Matrix: Potable Water
Date Received: 05/21/20 16:40

Method: 537 DW - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.8		1.8	0.46	ng/L		05/27/20 10:18	05/28/20 19:45	1
Perfluoroheptanoic acid	<1.8		1.8	0.46	ng/L		05/27/20 10:18	05/28/20 19:45	1
Perfluorooctanoic acid	<1.8		1.8	0.46	ng/L		05/27/20 10:18	05/28/20 19:45	1
Perfluorononanoic acid	<1.8		1.8	0.46	ng/L		05/27/20 10:18	05/28/20 19:45	1
Perfluorodecanoic acid	<1.8		1.8	0.46	ng/L		05/27/20 10:18	05/28/20 19:45	1
Perfluorotridecanoic acid	<1.8		1.8	0.46	ng/L		05/27/20 10:18	05/28/20 19:45	1
Perfluorotetradecanoic acid	<1.8		1.8	0.46	ng/L		05/27/20 10:18	05/28/20 19:45	1
Perfluorobutanesulfonic acid	<1.8		1.8	0.46	ng/L		05/27/20 10:18	05/28/20 19:45	1
Perfluorohexanesulfonic acid	<1.8		1.8	0.46	ng/L		05/27/20 10:18	05/28/20 19:45	1
Perfluorooctanesulfonic acid	<1.8		1.8	0.46	ng/L		05/27/20 10:18	05/28/20 19:45	1
NEtFOSAA	<1.8		1.8	0.46	ng/L		05/27/20 10:18	05/28/20 19:45	1
NMeFOSAA	<1.8		1.8	0.46	ng/L		05/27/20 10:18	05/28/20 19:45	1
Perfluoroundecanoic acid	<1.8		1.8	0.46	ng/L		05/27/20 10:18	05/28/20 19:45	1
Perfluorododecanoic acid	<1.8		1.8	0.46	ng/L		05/27/20 10:18	05/28/20 19:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*116*		*70 - 130*	*05/27/20 10:18*	*05/28/20 19:45*	*1*
13C2 PFDA	*108*		*70 - 130*	*05/27/20 10:18*	*05/28/20 19:45*	*1*
13C2 PFHxA	*116*		*70 - 130*	*05/27/20 10:18*	*05/28/20 19:45*	*1*

Client Sample ID: 7670061 005 Conley Well
Lab Sample ID: 410-2505-3
Date Collected: 05/19/20 08:55
Matrix: Drinking Water
Date Received: 05/21/20 16:40

Method: 537 DW - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**5.0**		1.9	0.47	ng/L		05/27/20 10:18	05/28/20 19:56	1
Perfluoroheptanoic acid	<1.9		1.9	0.47	ng/L		05/27/20 10:18	05/28/20 19:56	1
Perfluorooctanoic acid	**2.8**		1.9	0.47	ng/L		05/27/20 10:18	05/28/20 19:56	1
Perfluorononanoic acid	<1.9		1.9	0.47	ng/L		05/27/20 10:18	05/28/20 19:56	1
Perfluorodecanoic acid	<1.9		1.9	0.47	ng/L		05/27/20 10:18	05/28/20 19:56	1
Perfluorotridecanoic acid	<1.9		1.9	0.47	ng/L		05/27/20 10:18	05/28/20 19:56	1
Perfluorotetradecanoic acid	<1.9		1.9	0.47	ng/L		05/27/20 10:18	05/28/20 19:56	1
Perfluorobutanesulfonic acid	<1.9		1.9	0.47	ng/L		05/27/20 10:18	05/28/20 19:56	1
Perfluorohexanesulfonic acid	**2.9**		1.9	0.47	ng/L		05/27/20 10:18	05/28/20 19:56	1
Perfluorooctanesulfonic acid	**5.4**		1.9	0.47	ng/L		05/27/20 10:18	05/28/20 19:56	1
NEtFOSAA	<1.9		1.9	0.47	ng/L		05/27/20 10:18	05/28/20 19:56	1
NMeFOSAA	<1.9		1.9	0.47	ng/L		05/27/20 10:18	05/28/20 19:56	1
Perfluoroundecanoic acid	<1.9		1.9	0.47	ng/L		05/27/20 10:18	05/28/20 19:56	1
Perfluorododecanoic acid	<1.9		1.9	0.47	ng/L		05/27/20 10:18	05/28/20 19:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*111*		*70 - 130*	*05/27/20 10:18*	*05/28/20 19:56*	*1*
13C2 PFDA	*109*		*70 - 130*	*05/27/20 10:18*	*05/28/20 19:56*	*1*
13C2 PFHxA	*113*		*70 - 130*	*05/27/20 10:18*	*05/28/20 19:56*	*1*

Client Sample ID: 7670061 005 Conley Well FB
Lab Sample ID: 410-2505-4
Date Collected: 05/19/20 08:55
Matrix: Potable Water
Date Received: 05/21/20 16:40

Method: 537 DW - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.9		1.9	0.48	ng/L		05/27/20 10:18	05/28/20 20:08	1
Perfluoroheptanoic acid	<1.9		1.9	0.48	ng/L		05/27/20 10:18	05/28/20 20:08	1
Perfluorooctanoic acid	<1.9		1.9	0.48	ng/L		05/27/20 10:18	05/28/20 20:08	1
Perfluorononanoic acid	<1.9		1.9	0.48	ng/L		05/27/20 10:18	05/28/20 20:08	1
Perfluorodecanoic acid	<1.9		1.9	0.48	ng/L		05/27/20 10:18	05/28/20 20:08	1
Perfluorotridecanoic acid	<1.9		1.9	0.48	ng/L		05/27/20 10:18	05/28/20 20:08	1
Perfluorotetradecanoic acid	<1.9		1.9	0.48	ng/L		05/27/20 10:18	05/28/20 20:08	1
Perfluorobutanesulfonic acid	<1.9		1.9	0.48	ng/L		05/27/20 10:18	05/28/20 20:08	1
Perfluorohexanesulfonic acid	<1.9		1.9	0.48	ng/L		05/27/20 10:18	05/28/20 20:08	1
Perfluorooctanesulfonic acid	<1.9		1.9	0.48	ng/L		05/27/20 10:18	05/28/20 20:08	1
NEtFOSAA	<1.9		1.9	0.48	ng/L		05/27/20 10:18	05/28/20 20:08	1
NMeFOSAA	<1.9		1.9	0.48	ng/L		05/27/20 10:18	05/28/20 20:08	1
Perfluoroundecanoic acid	<1.9		1.9	0.48	ng/L		05/27/20 10:18	05/28/20 20:08	1
Perfluorododecanoic acid	<1.9		1.9	0.48	ng/L		05/27/20 10:18	05/28/20 20:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*86*		*70 - 130*	*05/27/20 10:18*	*05/28/20 20:08*	*1*
13C2 PFDA	*81*		*70 - 130*	*05/27/20 10:18*	*05/28/20 20:08*	*1*
13C2 PFHxA	*84*		*70 - 130*	*05/27/20 10:18*	*05/28/20 20:08*	*1*

Client Sample ID: 7670061 301 Conley Between Lead & Lag
Lab Sample ID: 410-2505-5

Date Collected: 05/19/20 08:40
Matrix: Drinking Water
Date Received: 05/21/20 16:40

Method: 537 DW - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**10**		1.8	0.45	ng/L		05/27/20 10:18	05/28/20 20:19	1
Perfluoroheptanoic acid	**2.0**		1.8	0.45	ng/L		05/27/20 10:18	05/28/20 20:19	1
Perfluorooctanoic acid	**2.8**		1.8	0.45	ng/L		05/27/20 10:18	05/28/20 20:19	1
Perfluorononanoic acid	<1.8		1.8	0.45	ng/L		05/27/20 10:18	05/28/20 20:19	1
Perfluorodecanoic acid	<1.8		1.8	0.45	ng/L		05/27/20 10:18	05/28/20 20:19	1
Perfluorotridecanoic acid	<1.8		1.8	0.45	ng/L		05/27/20 10:18	05/28/20 20:19	1
Perfluorotetradecanoic acid	<1.8		1.8	0.45	ng/L		05/27/20 10:18	05/28/20 20:19	1
Perfluorobutanesulfonic acid	**3.0**		1.8	0.45	ng/L		05/27/20 10:18	05/28/20 20:19	1
Perfluorohexanesulfonic acid	**1.9**		1.8	0.45	ng/L		05/27/20 10:18	05/28/20 20:19	1
Perfluorooctanesulfonic acid	<1.8		1.8	0.45	ng/L		05/27/20 10:18	05/28/20 20:19	1
NEtFOSAA	<1.8		1.8	0.45	ng/L		05/27/20 10:18	05/28/20 20:19	1
NMeFOSAA	<1.8		1.8	0.45	ng/L		05/27/20 10:18	05/28/20 20:19	1
Perfluoroundecanoic acid	<1.8		1.8	0.45	ng/L		05/27/20 10:18	05/28/20 20:19	1
Perfluorododecanoic acid	<1.8		1.8	0.45	ng/L		05/27/20 10:18	05/28/20 20:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*111*		*70 - 130*	*05/27/20 10:18*	*05/28/20 20:19*	*1*
13C2 PFDA	*102*		*70 - 130*	*05/27/20 10:18*	*05/28/20 20:19*	*1*
13C2 PFHxA	*116*		*70 - 130*	*05/27/20 10:18*	*05/28/20 20:19*	*1*

Client Sample ID: 7670061 301 Conley Between Lead & Lag FB
Lab Sample ID: 410-2505-6

Date Collected: 05/19/20 08:40
Matrix: Potable Water
Date Received: 05/21/20 16:40

Method: 537 DW - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.9		1.9	0.46	ng/L		06/02/20 06:33	06/03/20 18:56	1
Perfluoroheptanoic acid	<1.9		1.9	0.46	ng/L		06/02/20 06:33	06/03/20 18:56	1
Perfluorooctanoic acid	<1.9		1.9	0.46	ng/L		06/02/20 06:33	06/03/20 18:56	1
Perfluorononanoic acid	<1.9		1.9	0.46	ng/L		06/02/20 06:33	06/03/20 18:56	1
Perfluorodecanoic acid	<1.9		1.9	0.46	ng/L		06/02/20 06:33	06/03/20 18:56	1
Perfluorotridecanoic acid	<1.9		1.9	0.46	ng/L		06/02/20 06:33	06/03/20 18:56	1
Perfluorotetradecanoic acid	<1.9		1.9	0.46	ng/L		06/02/20 06:33	06/03/20 18:56	1
Perfluorobutanesulfonic acid	<1.9		1.9	0.46	ng/L		06/02/20 06:33	06/03/20 18:56	1
Perfluorohexanesulfonic acid	<1.9		1.9	0.46	ng/L		06/02/20 06:33	06/03/20 18:56	1
Perfluorooctanesulfonic acid	<1.9		1.9	0.46	ng/L		06/02/20 06:33	06/03/20 18:56	1
NEtFOSAA	<1.9		1.9	0.46	ng/L		06/02/20 06:33	06/03/20 18:56	1
NMeFOSAA	<1.9		1.9	0.46	ng/L		06/02/20 06:33	06/03/20 18:56	1
Perfluoroundecanoic acid	<1.9		1.9	0.46	ng/L		06/02/20 06:33	06/03/20 18:56	1
Perfluorododecanoic acid	<1.9		1.9	0.46	ng/L		06/02/20 06:33	06/03/20 18:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*98*		*70 - 130*	*06/02/20 06:33*	*06/03/20 18:56*	*1*
13C2 PFDA	*113*		*70 - 130*	*06/02/20 06:33*	*06/03/20 18:56*	*1*
13C2 PFHxA	*111*		*70 - 130*	*06/02/20 06:33*	*06/03/20 18:56*	*1*

Client Sample ID: 7670061 301 Conley Lead Vessel 1/2 Way
Lab Sample ID: 410-2505-7

Date Collected: 05/19/20 08:45
Matrix: Drinking Water
Date Received: 05/21/20 16:40

Method: 537 DW - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**17**		1.8	0.44	ng/L		05/27/20 10:18	05/28/20 20:42	1
Perfluoroheptanoic acid	**3.6**		1.8	0.44	ng/L		05/27/20 10:18	05/28/20 20:42	1
Perfluorooctanoic acid	**5.1**		1.8	0.44	ng/L		05/27/20 10:18	05/28/20 20:42	1
Perfluorononanoic acid	<1.8		1.8	0.44	ng/L		05/27/20 10:18	05/28/20 20:42	1
Perfluorodecanoic acid	<1.8		1.8	0.44	ng/L		05/27/20 10:18	05/28/20 20:42	1
Perfluorotridecanoic acid	<1.8		1.8	0.44	ng/L		05/27/20 10:18	05/28/20 20:42	1
Perfluorotetradecanoic acid	<1.8		1.8	0.44	ng/L		05/27/20 10:18	05/28/20 20:42	1
Perfluorobutanesulfonic acid	**2.9**		1.8	0.44	ng/L		05/27/20 10:18	05/28/20 20:42	1
Perfluorohexanesulfonic acid	**3.6**		1.8	0.44	ng/L		05/27/20 10:18	05/28/20 20:42	1
Perfluorooctanesulfonic acid	**4.7**		1.8	0.44	ng/L		05/27/20 10:18	05/28/20 20:42	1
NEtFOSAA	<1.8		1.8	0.44	ng/L		05/27/20 10:18	05/28/20 20:42	1
NMeFOSAA	<1.8		1.8	0.44	ng/L		05/27/20 10:18	05/28/20 20:42	1
Perfluoroundecanoic acid	<1.8		1.8	0.44	ng/L		05/27/20 10:18	05/28/20 20:42	1
Perfluorododecanoic acid	<1.8		1.8	0.44	ng/L		05/27/20 10:18	05/28/20 20:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*113*		*70 - 130*	*05/27/20 10:18*	*05/28/20 20:42*	*1*
13C2 PFDA	*115*		*70 - 130*	*05/27/20 10:18*	*05/28/20 20:42*	*1*
13C2 PFHxA	*116*		*70 - 130*	*05/27/20 10:18*	*05/28/20 20:42*	*1*

Client Sample ID: 7670061 301 Conley Lead Vessel 1/2 Way FB
Lab Sample ID: 410-2505-8

Date Collected: 05/19/20 08:45
Matrix: Potable Water
Date Received: 05/21/20 16:40

Method: 537 DW - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.8		1.8	0.46	ng/L		06/02/20 06:33	06/03/20 19:08	1
Perfluoroheptanoic acid	<1.8		1.8	0.46	ng/L		06/02/20 06:33	06/03/20 19:08	1
Perfluorooctanoic acid	<1.8		1.8	0.46	ng/L		06/02/20 06:33	06/03/20 19:08	1
Perfluorononanoic acid	<1.8		1.8	0.46	ng/L		06/02/20 06:33	06/03/20 19:08	1
Perfluorodecanoic acid	<1.8		1.8	0.46	ng/L		06/02/20 06:33	06/03/20 19:08	1
Perfluorotridecanoic acid	<1.8		1.8	0.46	ng/L		06/02/20 06:33	06/03/20 19:08	1
Perfluorotetradecanoic acid	<1.8		1.8	0.46	ng/L		06/02/20 06:33	06/03/20 19:08	1
Perfluorobutanesulfonic acid	<1.8		1.8	0.46	ng/L		06/02/20 06:33	06/03/20 19:08	1
Perfluorohexanesulfonic acid	<1.8		1.8	0.46	ng/L		06/02/20 06:33	06/03/20 19:08	1
Perfluorooctanesulfonic acid	<1.8		1.8	0.46	ng/L		06/02/20 06:33	06/03/20 19:08	1
NEtFOSAA	<1.8		1.8	0.46	ng/L		06/02/20 06:33	06/03/20 19:08	1
NMeFOSAA	<1.8		1.8	0.46	ng/L		06/02/20 06:33	06/03/20 19:08	1
Perfluoroundecanoic acid	<1.8		1.8	0.46	ng/L		06/02/20 06:33	06/03/20 19:08	1
Perfluorododecanoic acid	<1.8		1.8	0.46	ng/L		06/02/20 06:33	06/03/20 19:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*99*		*70 - 130*	*06/02/20 06:33*	*06/03/20 19:08*	*1*
13C2 PFDA	*120*		*70 - 130*	*06/02/20 06:33*	*06/03/20 19:08*	*1*
13C2 PFHxA	*110*		*70 - 130*	*06/02/20 06:33*	*06/03/20 19:08*	*1*

Client Sample ID: 7670061 301 Conley After Lag Vessel
Lab Sample ID: 410-2505-9
Date Collected: 05/19/20 08:35
Matrix: Drinking Water
Date Received: 05/21/20 16:40

Method: 537 DW - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**5.8**		1.8	0.44	ng/L		05/27/20 10:18	05/28/20 21:06	1
Perfluoroheptanoic acid	<1.8		1.8	0.44	ng/L		05/27/20 10:18	05/28/20 21:06	1
Perfluorooctanoic acid	<1.8		1.8	0.44	ng/L		05/27/20 10:18	05/28/20 21:06	1
Perfluorononanoic acid	<1.8		1.8	0.44	ng/L		05/27/20 10:18	05/28/20 21:06	1
Perfluorodecanoic acid	<1.8		1.8	0.44	ng/L		05/27/20 10:18	05/28/20 21:06	1
Perfluorotridecanoic acid	<1.8		1.8	0.44	ng/L		05/27/20 10:18	05/28/20 21:06	1
Perfluorotetradecanoic acid	<1.8		1.8	0.44	ng/L		05/27/20 10:18	05/28/20 21:06	1
Perfluorobutanesulfonic acid	<1.8		1.8	0.44	ng/L		05/27/20 10:18	05/28/20 21:06	1
Perfluorohexanesulfonic acid	<1.8		1.8	0.44	ng/L		05/27/20 10:18	05/28/20 21:06	1
Perfluorooctanesulfonic acid	<1.8		1.8	0.44	ng/L		05/27/20 10:18	05/28/20 21:06	1
NEtFOSAA	<1.8		1.8	0.44	ng/L		05/27/20 10:18	05/28/20 21:06	1
NMeFOSAA	<1.8		1.8	0.44	ng/L		05/27/20 10:18	05/28/20 21:06	1
Perfluoroundecanoic acid	<1.8		1.8	0.44	ng/L		05/27/20 10:18	05/28/20 21:06	1
Perfluorododecanoic acid	<1.8		1.8	0.44	ng/L		05/27/20 10:18	05/28/20 21:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*125*		*70 - 130*	*05/27/20 10:18*	*05/28/20 21:06*	*1*
13C2 PFDA	*127*		*70 - 130*	*05/27/20 10:18*	*05/28/20 21:06*	*1*
13C2 PFHxA	*127*		*70 - 130*	*05/27/20 10:18*	*05/28/20 21:06*	*1*

Client Sample ID: 7670061 301 Conley After Lag Vessel FB
Lab Sample ID: 410-2505-10
Date Collected: 05/19/20 08:35
Matrix: Potable Water
Date Received: 05/21/20 16:40

Method: 537 DW - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.9		1.9	0.47	ng/L		06/02/20 06:33	06/03/20 19:19	1
Perfluoroheptanoic acid	<1.9		1.9	0.47	ng/L		06/02/20 06:33	06/03/20 19:19	1
Perfluorooctanoic acid	<1.9		1.9	0.47	ng/L		06/02/20 06:33	06/03/20 19:19	1
Perfluorononanoic acid	<1.9		1.9	0.47	ng/L		06/02/20 06:33	06/03/20 19:19	1
Perfluorodecanoic acid	<1.9		1.9	0.47	ng/L		06/02/20 06:33	06/03/20 19:19	1
Perfluorotridecanoic acid	<1.9		1.9	0.47	ng/L		06/02/20 06:33	06/03/20 19:19	1
Perfluorotetradecanoic acid	<1.9		1.9	0.47	ng/L		06/02/20 06:33	06/03/20 19:19	1
Perfluorobutanesulfonic acid	<1.9		1.9	0.47	ng/L		06/02/20 06:33	06/03/20 19:19	1
Perfluorohexanesulfonic acid	<1.9		1.9	0.47	ng/L		06/02/20 06:33	06/03/20 19:19	1
Perfluorooctanesulfonic acid	<1.9		1.9	0.47	ng/L		06/02/20 06:33	06/03/20 19:19	1
NEtFOSAA	<1.9		1.9	0.47	ng/L		06/02/20 06:33	06/03/20 19:19	1
NMeFOSAA	<1.9		1.9	0.47	ng/L		06/02/20 06:33	06/03/20 19:19	1
Perfluoroundecanoic acid	<1.9		1.9	0.47	ng/L		06/02/20 06:33	06/03/20 19:19	1
Perfluorododecanoic acid	<1.9		1.9	0.47	ng/L		06/02/20 06:33	06/03/20 19:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*95*		*70 - 130*	*06/02/20 06:33*	*06/03/20 19:19*	*1*
13C2 PFDA	*106*		*70 - 130*	*06/02/20 06:33*	*06/03/20 19:19*	*1*
13C2 PFHxA	*102*		*70 - 130*	*06/02/20 06:33*	*06/03/20 19:19*	*1*

Client Sample ID: 7670061 002 Coppersmith Well
Lab Sample ID: 410-2505-11
Date Collected: 05/19/20 07:50
Matrix: Drinking Water
Date Received: 05/21/20 16:40

Method: 537 DW - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**21**		1.7	0.43	ng/L		05/27/20 10:18	05/28/20 21:40	1
Perfluoroheptanoic acid	**11**		1.7	0.43	ng/L		05/27/20 10:18	05/28/20 21:40	1
Perfluorooctanoic acid	**11**		1.7	0.43	ng/L		05/27/20 10:18	05/28/20 21:40	1
Perfluorononanoic acid	**10**		1.7	0.43	ng/L		05/27/20 10:18	05/28/20 21:40	1
Perfluorodecanoic acid	<1.7		1.7	0.43	ng/L		05/27/20 10:18	05/28/20 21:40	1
Perfluorotridecanoic acid	<1.7		1.7	0.43	ng/L		05/27/20 10:18	05/28/20 21:40	1
Perfluorotetradecanoic acid	<1.7		1.7	0.43	ng/L		05/27/20 10:18	05/28/20 21:40	1
Perfluorobutanesulfonic acid	**10**		1.7	0.43	ng/L		05/27/20 10:18	05/28/20 21:40	1
NEtFOSAA	<1.7		1.7	0.43	ng/L		05/27/20 10:18	05/28/20 21:40	1
NMeFOSAA	<1.7		1.7	0.43	ng/L		05/27/20 10:18	05/28/20 21:40	1
Perfluoroundecanoic acid	<1.7		1.7	0.43	ng/L		05/27/20 10:18	05/28/20 21:40	1
Perfluorododecanoic acid	<1.7		1.7	0.43	ng/L		05/27/20 10:18	05/28/20 21:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*117*		*70 - 130*	*05/27/20 10:18*	*05/28/20 21:40*	*1*
13C2 PFDA	*114*		*70 - 130*	*05/27/20 10:18*	*05/28/20 21:40*	*1*
13C2 PFHxA	*121*		*70 - 130*	*05/27/20 10:18*	*05/28/20 21:40*	*1*

Method: 537 DW - Perfluorinated Alkyl Acids (LC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanesulfonic acid	**77**		17	4.3	ng/L		05/27/20 10:18	06/01/20 19:10	10
Perfluorooctanesulfonic acid	**110**		17	4.3	ng/L		05/27/20 10:18	06/01/20 19:10	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*103*		*70 - 130*	*05/27/20 10:18*	*06/01/20 19:10*	*10*
13C2 PFDA	*96*		*70 - 130*	*05/27/20 10:18*	*06/01/20 19:10*	*10*
13C2 PFHxA	*92*		*70 - 130*	*05/27/20 10:18*	*06/01/20 19:10*	*10*

Client Sample ID: 7670061 002 Coppersmith Well FB
Lab Sample ID: 410-2505-12
Date Collected: 05/19/20 07:50
Matrix: Potable Water
Date Received: 05/21/20 16:40

Method: 537 DW - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.9		1.9	0.48	ng/L		05/27/20 10:18	05/28/20 21:52	1
Perfluoroheptanoic acid	<1.9		1.9	0.48	ng/L		05/27/20 10:18	05/28/20 21:52	1
Perfluorooctanoic acid	<1.9		1.9	0.48	ng/L		05/27/20 10:18	05/28/20 21:52	1
Perfluorononanoic acid	<1.9		1.9	0.48	ng/L		05/27/20 10:18	05/28/20 21:52	1
Perfluorodecanoic acid	<1.9		1.9	0.48	ng/L		05/27/20 10:18	05/28/20 21:52	1
Perfluorotridecanoic acid	<1.9		1.9	0.48	ng/L		05/27/20 10:18	05/28/20 21:52	1
Perfluorotetradecanoic acid	<1.9		1.9	0.48	ng/L		05/27/20 10:18	05/28/20 21:52	1
Perfluorobutanesulfonic acid	<1.9		1.9	0.48	ng/L		05/27/20 10:18	05/28/20 21:52	1
Perfluorohexanesulfonic acid	<1.9		1.9	0.48	ng/L		05/27/20 10:18	05/28/20 21:52	1
Perfluorooctanesulfonic acid	<1.9		1.9	0.48	ng/L		05/27/20 10:18	05/28/20 21:52	1
NEtFOSAA	<1.9		1.9	0.48	ng/L		05/27/20 10:18	05/28/20 21:52	1
NMeFOSAA	<1.9		1.9	0.48	ng/L		05/27/20 10:18	05/28/20 21:52	1
Perfluoroundecanoic acid	<1.9		1.9	0.48	ng/L		05/27/20 10:18	05/28/20 21:52	1
Perfluorododecanoic acid	<1.9		1.9	0.48	ng/L		05/27/20 10:18	05/28/20 21:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*113*		*70 - 130*	*05/27/20 10:18*	*05/28/20 21:52*	*1*

Client Sample ID: 7670061 002 Coppersmith Well FB
Lab Sample ID: 410-2505-12
Date Collected: 05/19/20 07:50
Matrix: Potable Water
Date Received: 05/21/20 16:40

Method: 537 DW - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C2 PFDA	*114*		*70 - 130*	*05/27/20 10:18*	*05/28/20 21:52*	*1*
13C2 PFHxA	*116*		*70 - 130*	*05/27/20 10:18*	*05/28/20 21:52*	*1*

Client Sample ID: 7670061 003 DuPont Well
Lab Sample ID: 410-2505-13
Date Collected: 05/19/20 08:25
Matrix: Drinking Water
Date Received: 05/21/20 16:40

Method: 537 DW - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**6.5**		1.8	0.46	ng/L		05/27/20 10:18	05/28/20 22:03	1
Perfluoroheptanoic acid	**2.7**		1.8	0.46	ng/L		05/27/20 10:18	05/28/20 22:03	1
Perfluorooctanoic acid	**4.9**		1.8	0.46	ng/L		05/27/20 10:18	05/28/20 22:03	1
Perfluorononanoic acid	<1.8		1.8	0.46	ng/L		05/27/20 10:18	05/28/20 22:03	1
Perfluorodecanoic acid	<1.8		1.8	0.46	ng/L		05/27/20 10:18	05/28/20 22:03	1
Perfluorotridecanoic acid	<1.8		1.8	0.46	ng/L		05/27/20 10:18	05/28/20 22:03	1
Perfluorotetradecanoic acid	<1.8		1.8	0.46	ng/L		05/27/20 10:18	05/28/20 22:03	1
Perfluorobutanesulfonic acid	**5.8**		1.8	0.46	ng/L		05/27/20 10:18	05/28/20 22:03	1
NEtFOSAA	<1.8		1.8	0.46	ng/L		05/27/20 10:18	05/28/20 22:03	1
NMeFOSAA	<1.8		1.8	0.46	ng/L		05/27/20 10:18	05/28/20 22:03	1
Perfluoroundecanoic acid	<1.8		1.8	0.46	ng/L		05/27/20 10:18	05/28/20 22:03	1
Perfluorododecanoic acid	<1.8		1.8	0.46	ng/L		05/27/20 10:18	05/28/20 22:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*97*		*70 - 130*	*05/27/20 10:18*	*05/28/20 22:03*	*1*
13C2 PFDA	*99*		*70 - 130*	*05/27/20 10:18*	*05/28/20 22:03*	*1*
13C2 PFHxA	*102*		*70 - 130*	*05/27/20 10:18*	*05/28/20 22:03*	*1*

Method: 537 DW - Perfluorinated Alkyl Acids (LC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanesulfonic acid	**77**		18	4.6	ng/L		05/27/20 10:18	06/01/20 19:33	10
Perfluorooctanesulfonic acid	**110**		18	4.6	ng/L		05/27/20 10:18	06/01/20 19:33	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*101*		*70 - 130*	*05/27/20 10:18*	*06/01/20 19:33*	*10*
13C2 PFDA	*104*		*70 - 130*	*05/27/20 10:18*	*06/01/20 19:33*	*10*
13C2 PFHxA	*96*		*70 - 130*	*05/27/20 10:18*	*06/01/20 19:33*	*10*

Client Sample ID: 7670061 003 DuPont Well FB
Lab Sample ID: 410-2505-14
Date Collected: 05/19/20 08:25
Matrix: Potable Water
Date Received: 05/21/20 16:40

Method: 537 DW - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.9		1.9	0.46	ng/L		05/27/20 10:18	05/28/20 22:15	1
Perfluoroheptanoic acid	<1.9		1.9	0.46	ng/L		05/27/20 10:18	05/28/20 22:15	1
Perfluorooctanoic acid	<1.9		1.9	0.46	ng/L		05/27/20 10:18	05/28/20 22:15	1
Perfluorononanoic acid	<1.9		1.9	0.46	ng/L		05/27/20 10:18	05/28/20 22:15	1
Perfluorodecanoic acid	<1.9		1.9	0.46	ng/L		05/27/20 10:18	05/28/20 22:15	1
Perfluorotridecanoic acid	<1.9		1.9	0.46	ng/L		05/27/20 10:18	05/28/20 22:15	1
Perfluorotetradecanoic acid	<1.9		1.9	0.46	ng/L		05/27/20 10:18	05/28/20 22:15	1
Perfluorobutanesulfonic acid	<1.9		1.9	0.46	ng/L		05/27/20 10:18	05/28/20 22:15	1

Client Sample ID: 7670061 003 DuPont Well FB
Lab Sample ID: 410-2505-14
Date Collected: 05/19/20 08:25
Matrix: Potable Water
Date Received: 05/21/20 16:40

Method: 537 DW - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanesulfonic acid	<1.9		1.9	0.46	ng/L		05/27/20 10:18	05/28/20 22:15	1
Perfluorooctanesulfonic acid	<1.9		1.9	0.46	ng/L		05/27/20 10:18	05/28/20 22:15	1
NEtFOSAA	<1.9		1.9	0.46	ng/L		05/27/20 10:18	05/28/20 22:15	1
NMeFOSAA	<1.9		1.9	0.46	ng/L		05/27/20 10:18	05/28/20 22:15	1
Perfluoroundecanoic acid	<1.9		1.9	0.46	ng/L		05/27/20 10:18	05/28/20 22:15	1
Perfluorododecanoic acid	<1.9		1.9	0.46	ng/L		05/27/20 10:18	05/28/20 22:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*115*		*70 - 130*	*05/27/20 10:18*	*05/28/20 22:15*	*1*
13C2 PFDA	*115*		*70 - 130*	*05/27/20 10:18*	*05/28/20 22:15*	*1*
13C2 PFHxA	*118*		*70 - 130*	*05/27/20 10:18*	*05/28/20 22:15*	*1*

Client Sample ID: 7670061 302 DuPont Between Lead & Lag
Lab Sample ID: 410-2505-15
Date Collected: 05/19/20 08:15
Matrix: Drinking Water
Date Received: 05/21/20 16:40

Method: 537 DW - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**29**		1.8	0.44	ng/L		05/27/20 10:18	05/28/20 22:26	1
Perfluoroheptanoic acid	**6.9**		1.8	0.44	ng/L		05/27/20 10:18	05/28/20 22:26	1
Perfluorooctanoic acid	**6.0**		1.8	0.44	ng/L		05/27/20 10:18	05/28/20 22:26	1
Perfluorononanoic acid	**3.5**		1.8	0.44	ng/L		05/27/20 10:18	05/28/20 22:26	1
Perfluorodecanoic acid	<1.8		1.8	0.44	ng/L		05/27/20 10:18	05/28/20 22:26	1
Perfluorotridecanoic acid	<1.8		1.8	0.44	ng/L		05/27/20 10:18	05/28/20 22:26	1
Perfluorotetradecanoic acid	<1.8		1.8	0.44	ng/L		05/27/20 10:18	05/28/20 22:26	1
Perfluorobutanesulfonic acid	**9.6**		1.8	0.44	ng/L		05/27/20 10:18	05/28/20 22:26	1
Perfluorohexanesulfonic acid	**59**		1.8	0.44	ng/L		05/27/20 10:18	05/28/20 22:26	1
Perfluorooctanesulfonic acid	**52**		1.8	0.44	ng/L		05/27/20 10:18	05/28/20 22:26	1
NEtFOSAA	<1.8		1.8	0.44	ng/L		05/27/20 10:18	05/28/20 22:26	1
NMeFOSAA	<1.8		1.8	0.44	ng/L		05/27/20 10:18	05/28/20 22:26	1
Perfluoroundecanoic acid	<1.8		1.8	0.44	ng/L		05/27/20 10:18	05/28/20 22:26	1
Perfluorododecanoic acid	<1.8		1.8	0.44	ng/L		05/27/20 10:18	05/28/20 22:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*109*		*70 - 130*	*05/27/20 10:18*	*05/28/20 22:26*	*1*
13C2 PFDA	*120*		*70 - 130*	*05/27/20 10:18*	*05/28/20 22:26*	*1*
13C2 PFHxA	*122*		*70 - 130*	*05/27/20 10:18*	*05/28/20 22:26*	*1*

Client Sample ID: 7670061 302 DuPont Between Lead & Lag FB
Lab Sample ID: 410-2505-16
Date Collected: 05/19/20 08:15
Matrix: Potable Water
Date Received: 05/21/20 16:40

Method: 537 DW - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.8		1.8	0.46	ng/L		05/27/20 10:18	05/28/20 22:38	1
Perfluoroheptanoic acid	<1.8		1.8	0.46	ng/L		05/27/20 10:18	05/28/20 22:38	1
Perfluorooctanoic acid	<1.8		1.8	0.46	ng/L		05/27/20 10:18	05/28/20 22:38	1
Perfluorononanoic acid	<1.8		1.8	0.46	ng/L		05/27/20 10:18	05/28/20 22:38	1
Perfluorodecanoic acid	<1.8		1.8	0.46	ng/L		05/27/20 10:18	05/28/20 22:38	1
Perfluorotridecanoic acid	<1.8		1.8	0.46	ng/L		05/27/20 10:18	05/28/20 22:38	1

Client Sample ID: 7670061 302 DuPont Between Lead & Lag FB

Lab Sample ID: 410-2505-16

Date Collected: 05/19/20 08:15
Matrix: Potable Water
Date Received: 05/21/20 16:40

Method: 537 DW - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotetradecanoic acid	<1.8		1.8	0.46	ng/L		05/27/20 10:18	05/28/20 22:38	1
Perfluorobutanesulfonic acid	<1.8		1.8	0.46	ng/L		05/27/20 10:18	05/28/20 22:38	1
Perfluorohexanesulfonic acid	<1.8		1.8	0.46	ng/L		05/27/20 10:18	05/28/20 22:38	1
Perfluorooctanesulfonic acid	<1.8		1.8	0.46	ng/L		05/27/20 10:18	05/28/20 22:38	1
NEtFOSAA	<1.8		1.8	0.46	ng/L		05/27/20 10:18	05/28/20 22:38	1
NMeFOSAA	<1.8		1.8	0.46	ng/L		05/27/20 10:18	05/28/20 22:38	1
Perfluoroundecanoic acid	<1.8		1.8	0.46	ng/L		05/27/20 10:18	05/28/20 22:38	1
Perfluorododecanoic acid	<1.8		1.8	0.46	ng/L		05/27/20 10:18	05/28/20 22:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*123*		*70 - 130*	*05/27/20 10:18*	*05/28/20 22:38*	*1*
13C2 PFDA	*119*		*70 - 130*	*05/27/20 10:18*	*05/28/20 22:38*	*1*
13C2 PFHxA	*130*		*70 - 130*	*05/27/20 10:18*	*05/28/20 22:38*	*1*

Client Sample ID: 7670061 302 DuPont Lead Vessel 1/2 Way

Lab Sample ID: 410-2505-17

Date Collected: 05/19/20 08:20
Matrix: Drinking Water
Date Received: 05/21/20 16:40

Method: 537 DW - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**18**		1.7	0.44	ng/L		05/27/20 10:18	05/28/20 22:49	1
Perfluoroheptanoic acid	**6.3**		1.7	0.44	ng/L		05/27/20 10:18	05/28/20 22:49	1
Perfluorooctanoic acid	**6.7**		1.7	0.44	ng/L		05/27/20 10:18	05/28/20 22:49	1
Perfluorononanoic acid	**5.5**		1.7	0.44	ng/L		05/27/20 10:18	05/28/20 22:49	1
Perfluorodecanoic acid	<1.7		1.7	0.44	ng/L		05/27/20 10:18	05/28/20 22:49	1
Perfluorotridecanoic acid	<1.7		1.7	0.44	ng/L		05/27/20 10:18	05/28/20 22:49	1
Perfluorotetradecanoic acid	<1.7		1.7	0.44	ng/L		05/27/20 10:18	05/28/20 22:49	1
Perfluorobutanesulfonic acid	**7.9**		1.7	0.44	ng/L		05/27/20 10:18	05/28/20 22:49	1
NEtFOSAA	<1.7		1.7	0.44	ng/L		05/27/20 10:18	05/28/20 22:49	1
NMeFOSAA	<1.7		1.7	0.44	ng/L		05/27/20 10:18	05/28/20 22:49	1
Perfluoroundecanoic acid	<1.7		1.7	0.44	ng/L		05/27/20 10:18	05/28/20 22:49	1
Perfluorododecanoic acid	<1.7		1.7	0.44	ng/L		05/27/20 10:18	05/28/20 22:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*91*		*70 - 130*	*05/27/20 10:18*	*05/28/20 22:49*	*1*
13C2 PFDA	*95*		*70 - 130*	*05/27/20 10:18*	*05/28/20 22:49*	*1*
13C2 PFHxA	*93*		*70 - 130*	*05/27/20 10:18*	*05/28/20 22:49*	*1*

Method: 537 DW - Perfluorinated Alkyl Acids (LC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanesulfonic acid	**69**		17	4.4	ng/L		05/27/20 10:18	06/01/20 20:19	10
Perfluorooctanesulfonic acid	**87**		17	4.4	ng/L		05/27/20 10:18	06/01/20 20:19	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*95*		*70 - 130*	*05/27/20 10:18*	*06/01/20 20:19*	*10*
13C2 PFDA	*90*		*70 - 130*	*05/27/20 10:18*	*06/01/20 20:19*	*10*
13C2 PFHxA	*88*		*70 - 130*	*05/27/20 10:18*	*06/01/20 20:19*	*10*

Client Sample ID: 7670061 302 DuPont Lead Vessel 1/2 Way FB

Lab Sample ID: 410-2505-18

Date Collected: 05/19/20 08:20
Matrix: Potable Water
Date Received: 05/21/20 16:40

Method: 537 DW - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.9		1.9	0.48	ng/L		05/27/20 10:18	05/28/20 23:01	1
Perfluoroheptanoic acid	<1.9		1.9	0.48	ng/L		05/27/20 10:18	05/28/20 23:01	1
Perfluorooctanoic acid	<1.9		1.9	0.48	ng/L		05/27/20 10:18	05/28/20 23:01	1
Perfluorononanoic acid	<1.9		1.9	0.48	ng/L		05/27/20 10:18	05/28/20 23:01	1
Perfluorodecanoic acid	<1.9		1.9	0.48	ng/L		05/27/20 10:18	05/28/20 23:01	1
Perfluorotridecanoic acid	<1.9		1.9	0.48	ng/L		05/27/20 10:18	05/28/20 23:01	1
Perfluorotetradecanoic acid	<1.9		1.9	0.48	ng/L		05/27/20 10:18	05/28/20 23:01	1
Perfluorobutanesulfonic acid	<1.9		1.9	0.48	ng/L		05/27/20 10:18	05/28/20 23:01	1
Perfluorohexanesulfonic acid	<1.9		1.9	0.48	ng/L		05/27/20 10:18	05/28/20 23:01	1
Perfluorooctanesulfonic acid	<1.9		1.9	0.48	ng/L		05/27/20 10:18	05/28/20 23:01	1
NEtFOSAA	<1.9		1.9	0.48	ng/L		05/27/20 10:18	05/28/20 23:01	1
NMeFOSAA	<1.9		1.9	0.48	ng/L		05/27/20 10:18	05/28/20 23:01	1
Perfluoroundecanoic acid	<1.9		1.9	0.48	ng/L		05/27/20 10:18	05/28/20 23:01	1
Perfluorododecanoic acid	<1.9		1.9	0.48	ng/L		05/27/20 10:18	05/28/20 23:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*105*		*70 - 130*	*05/27/20 10:18*	*05/28/20 23:01*	*1*
13C2 PFDA	*117*		*70 - 130*	*05/27/20 10:18*	*05/28/20 23:01*	*1*
13C2 PFHxA	*111*		*70 - 130*	*05/27/20 10:18*	*05/28/20 23:01*	*1*

Client Sample ID: 7670061 302 DuPont After Lag Vessel

Lab Sample ID: 410-2505-19

Date Collected: 05/19/20 08:10
Matrix: Drinking Water
Date Received: 05/21/20 16:40

Method: 537 DW - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**18**		1.8	0.44	ng/L		05/27/20 10:18	05/28/20 23:12	1
Perfluoroheptanoic acid	**2.1**		1.8	0.44	ng/L		05/27/20 10:18	05/28/20 23:12	1
Perfluorooctanoic acid	<1.8		1.8	0.44	ng/L		05/27/20 10:18	05/28/20 23:12	1
Perfluorononanoic acid	<1.8		1.8	0.44	ng/L		05/27/20 10:18	05/28/20 23:12	1
Perfluorodecanoic acid	<1.8		1.8	0.44	ng/L		05/27/20 10:18	05/28/20 23:12	1
Perfluorotridecanoic acid	<1.8		1.8	0.44	ng/L		05/27/20 10:18	05/28/20 23:12	1
Perfluorotetradecanoic acid	<1.8		1.8	0.44	ng/L		05/27/20 10:18	05/28/20 23:12	1
Perfluorobutanesulfonic acid	**5.3**		1.8	0.44	ng/L		05/27/20 10:18	05/28/20 23:12	1
Perfluorohexanesulfonic acid	**8.2**		1.8	0.44	ng/L		05/27/20 10:18	05/28/20 23:12	1
Perfluorooctanesulfonic acid	**2.0**		1.8	0.44	ng/L		05/27/20 10:18	05/28/20 23:12	1
NEtFOSAA	<1.8		1.8	0.44	ng/L		05/27/20 10:18	05/28/20 23:12	1
NMeFOSAA	<1.8		1.8	0.44	ng/L		05/27/20 10:18	05/28/20 23:12	1
Perfluoroundecanoic acid	<1.8		1.8	0.44	ng/L		05/27/20 10:18	05/28/20 23:12	1
Perfluorododecanoic acid	<1.8		1.8	0.44	ng/L		05/27/20 10:18	05/28/20 23:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*88*		*70 - 130*	*05/27/20 10:18*	*05/28/20 23:12*	*1*
13C2 PFDA	*77*		*70 - 130*	*05/27/20 10:18*	*05/28/20 23:12*	*1*
13C2 PFHxA	*90*		*70 - 130*	*05/27/20 10:18*	*05/28/20 23:12*	*1*

Client Sample ID: 7670061 302 DuPont After Lag Vessel FB
Lab Sample ID: 410-2505-20
Date Collected: 05/19/20 08:10
Matrix: Potable Water
Date Received: 05/21/20 16:40

Method: 537 DW - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.9		1.9	0.46	ng/L		05/27/20 10:18	05/28/20 23:24	1
Perfluoroheptanoic acid	<1.9		1.9	0.46	ng/L		05/27/20 10:18	05/28/20 23:24	1
Perfluorooctanoic acid	<1.9		1.9	0.46	ng/L		05/27/20 10:18	05/28/20 23:24	1
Perfluorononanoic acid	<1.9		1.9	0.46	ng/L		05/27/20 10:18	05/28/20 23:24	1
Perfluorodecanoic acid	<1.9		1.9	0.46	ng/L		05/27/20 10:18	05/28/20 23:24	1
Perfluorotridecanoic acid	<1.9		1.9	0.46	ng/L		05/27/20 10:18	05/28/20 23:24	1
Perfluorotetradecanoic acid	<1.9		1.9	0.46	ng/L		05/27/20 10:18	05/28/20 23:24	1
Perfluorobutanesulfonic acid	<1.9		1.9	0.46	ng/L		05/27/20 10:18	05/28/20 23:24	1
Perfluorohexanesulfonic acid	<1.9		1.9	0.46	ng/L		05/27/20 10:18	05/28/20 23:24	1
Perfluorooctanesulfonic acid	<1.9		1.9	0.46	ng/L		05/27/20 10:18	05/28/20 23:24	1
NEtFOSAA	<1.9		1.9	0.46	ng/L		05/27/20 10:18	05/28/20 23:24	1
NMeFOSAA	<1.9		1.9	0.46	ng/L		05/27/20 10:18	05/28/20 23:24	1
Perfluoroundecanoic acid	<1.9		1.9	0.46	ng/L		05/27/20 10:18	05/28/20 23:24	1
Perfluorododecanoic acid	<1.9		1.9	0.46	ng/L		05/27/20 10:18	05/28/20 23:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*98*		*70 - 130*	*05/27/20 10:18*	*05/28/20 23:24*	*1*
13C2 PFDA	*103*		*70 - 130*	*05/27/20 10:18*	*05/28/20 23:24*	*1*
13C2 PFHxA	*103*		*70 - 130*	*05/27/20 10:18*	*05/28/20 23:24*	*1*

Client Sample ID: 7670061 101 Conley EP Grab Water
Lab Sample ID: 410-2505-21
Date Collected: 05/19/20 08:30
Matrix: Drinking Water
Date Received: 05/21/20 16:40

Method: 537 DW - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**4.9**		1.7	0.42	ng/L		05/27/20 16:59	05/30/20 02:49	1
Perfluoroheptanoic acid	<1.7		1.7	0.42	ng/L		05/27/20 16:59	05/30/20 02:49	1
Perfluorooctanoic acid	<1.7		1.7	0.42	ng/L		05/27/20 16:59	05/30/20 02:49	1
Perfluorononanoic acid	<1.7		1.7	0.42	ng/L		05/27/20 16:59	05/30/20 02:49	1
Perfluorodecanoic acid	<1.7		1.7	0.42	ng/L		05/27/20 16:59	05/30/20 02:49	1
Perfluorotridecanoic acid	<1.7		1.7	0.42	ng/L		05/27/20 16:59	05/30/20 02:49	1
Perfluorotetradecanoic acid	<1.7		1.7	0.42	ng/L		05/27/20 16:59	05/30/20 02:49	1
Perfluorobutanesulfonic acid	<1.7		1.7	0.42	ng/L		05/27/20 16:59	05/30/20 02:49	1
Perfluorohexanesulfonic acid	<1.7		1.7	0.42	ng/L		05/27/20 16:59	05/30/20 02:49	1
Perfluorooctanesulfonic acid	<1.7		1.7	0.42	ng/L		05/27/20 16:59	05/30/20 02:49	1
NEtFOSAA	<1.7		1.7	0.42	ng/L		05/27/20 16:59	05/30/20 02:49	1
NMeFOSAA	<1.7		1.7	0.42	ng/L		05/27/20 16:59	05/30/20 02:49	1
Perfluoroundecanoic acid	<1.7		1.7	0.42	ng/L		05/27/20 16:59	05/30/20 02:49	1
Perfluorododecanoic acid	<1.7		1.7	0.42	ng/L		05/27/20 16:59	05/30/20 02:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*89*		*70 - 130*	*05/27/20 16:59*	*05/30/20 02:49*	*1*
13C2 PFDA	*100*		*70 - 130*	*05/27/20 16:59*	*05/30/20 02:49*	*1*
13C2 PFHxA	*94*		*70 - 130*	*05/27/20 16:59*	*05/30/20 02:49*	*1*

Client Sample ID: 7670061 101 Conley Field Blank Grab Water
Lab Sample ID: 410-2505-22

Date Collected: 05/19/20 08:30
Matrix: Potable Water
Date Received: 05/21/20 16:40

Method: 537 DW - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.4		1.4	0.34	ng/L		05/27/20 16:59	05/30/20 03:00	1
Perfluoroheptanoic acid	<1.4		1.4	0.34	ng/L		05/27/20 16:59	05/30/20 03:00	1
Perfluorooctanoic acid	<1.4		1.4	0.34	ng/L		05/27/20 16:59	05/30/20 03:00	1
Perfluorononanoic acid	<1.4		1.4	0.34	ng/L		05/27/20 16:59	05/30/20 03:00	1
Perfluorodecanoic acid	<1.4		1.4	0.34	ng/L		05/27/20 16:59	05/30/20 03:00	1
Perfluorotridecanoic acid	<1.4		1.4	0.34	ng/L		05/27/20 16:59	05/30/20 03:00	1
Perfluorotetradecanoic acid	<1.4		1.4	0.34	ng/L		05/27/20 16:59	05/30/20 03:00	1
Perfluorobutanesulfonic acid	<1.4		1.4	0.34	ng/L		05/27/20 16:59	05/30/20 03:00	1
Perfluorohexanesulfonic acid	<1.4		1.4	0.34	ng/L		05/27/20 16:59	05/30/20 03:00	1
Perfluorooctanesulfonic acid	<1.4		1.4	0.34	ng/L		05/27/20 16:59	05/30/20 03:00	1
NEtFOSAA	<1.4		1.4	0.34	ng/L		05/27/20 16:59	05/30/20 03:00	1
NMeFOSAA	<1.4		1.4	0.34	ng/L		05/27/20 16:59	05/30/20 03:00	1
Perfluoroundecanoic acid	<1.4		1.4	0.34	ng/L		05/27/20 16:59	05/30/20 03:00	1
Perfluorododecanoic acid	<1.4		1.4	0.34	ng/L		05/27/20 16:59	05/30/20 03:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*95*		*70 - 130*	*05/27/20 16:59*	*05/30/20 03:00*	*1*
13C2 PFDA	*94*		*70 - 130*	*05/27/20 16:59*	*05/30/20 03:00*	*1*
13C2 PFHxA	*99*		*70 - 130*	*05/27/20 16:59*	*05/30/20 03:00*	*1*

Client Sample ID: 7670061 102 DuPont EP
Lab Sample ID: 410-2505-23

Date Collected: 05/19/20 08:00
Matrix: Drinking Water
Date Received: 05/21/20 16:40

Method: 537 DW - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	**20**		1.8	0.45	ng/L		05/27/20 16:59	05/30/20 03:12	1
Perfluoroheptanoic acid	**2.4**		1.8	0.45	ng/L		05/27/20 16:59	05/30/20 03:12	1
Perfluorooctanoic acid	<1.8		1.8	0.45	ng/L		05/27/20 16:59	05/30/20 03:12	1
Perfluorononanoic acid	<1.8		1.8	0.45	ng/L		05/27/20 16:59	05/30/20 03:12	1
Perfluorodecanoic acid	<1.8		1.8	0.45	ng/L		05/27/20 16:59	05/30/20 03:12	1
Perfluorotridecanoic acid	<1.8		1.8	0.45	ng/L		05/27/20 16:59	05/30/20 03:12	1
Perfluorotetradecanoic acid	<1.8		1.8	0.45	ng/L		05/27/20 16:59	05/30/20 03:12	1
Perfluorobutanesulfonic acid	**6.3**		1.8	0.45	ng/L		05/27/20 16:59	05/30/20 03:12	1
Perfluorohexanesulfonic acid	**9.3**		1.8	0.45	ng/L		05/27/20 16:59	05/30/20 03:12	1
Perfluorooctanesulfonic acid	**2.0**		1.8	0.45	ng/L		05/27/20 16:59	05/30/20 03:12	1
NEtFOSAA	<1.8		1.8	0.45	ng/L		05/27/20 16:59	05/30/20 03:12	1
NMeFOSAA	<1.8		1.8	0.45	ng/L		05/27/20 16:59	05/30/20 03:12	1
Perfluoroundecanoic acid	<1.8		1.8	0.45	ng/L		05/27/20 16:59	05/30/20 03:12	1
Perfluorododecanoic acid	<1.8		1.8	0.45	ng/L		05/27/20 16:59	05/30/20 03:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*95*		*70 - 130*	*05/27/20 16:59*	*05/30/20 03:12*	*1*
13C2 PFDA	*91*		*70 - 130*	*05/27/20 16:59*	*05/30/20 03:12*	*1*
13C2 PFHxA	*96*		*70 - 130*	*05/27/20 16:59*	*05/30/20 03:12*	*1*

Client: SUEZ Water Environmental Services Inc
Job ID: 410-2505-1
Project/Site: Newberry System

Client Sample ID: 7670061 102 DuPont EP FB
Lab Sample ID: 410-2505-24
Date Collected: 05/19/20 08:00
Matrix: Potable Water
Date Received: 05/21/20 16:40

Method: 537 DW - Perfluorinated Alkyl Acids (LC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.8		1.8	0.46	ng/L		05/27/20 16:59	05/30/20 03:23	1
Perfluoroheptanoic acid	<1.8		1.8	0.46	ng/L		05/27/20 16:59	05/30/20 03:23	1
Perfluorooctanoic acid	<1.8		1.8	0.46	ng/L		05/27/20 16:59	05/30/20 03:23	1
Perfluorononanoic acid	<1.8		1.8	0.46	ng/L		05/27/20 16:59	05/30/20 03:23	1
Perfluorodecanoic acid	<1.8		1.8	0.46	ng/L		05/27/20 16:59	05/30/20 03:23	1
Perfluorotridecanoic acid	<1.8		1.8	0.46	ng/L		05/27/20 16:59	05/30/20 03:23	1
Perfluorotetradecanoic acid	<1.8		1.8	0.46	ng/L		05/27/20 16:59	05/30/20 03:23	1
Perfluorobutanesulfonic acid	<1.8		1.8	0.46	ng/L		05/27/20 16:59	05/30/20 03:23	1
Perfluorohexanesulfonic acid	<1.8		1.8	0.46	ng/L		05/27/20 16:59	05/30/20 03:23	1
Perfluorooctanesulfonic acid	<1.8		1.8	0.46	ng/L		05/27/20 16:59	05/30/20 03:23	1
NEtFOSAA	<1.8		1.8	0.46	ng/L		05/27/20 16:59	05/30/20 03:23	1
NMeFOSAA	<1.8		1.8	0.46	ng/L		05/27/20 16:59	05/30/20 03:23	1
Perfluoroundecanoic acid	<1.8		1.8	0.46	ng/L		05/27/20 16:59	05/30/20 03:23	1
Perfluorododecanoic acid	<1.8		1.8	0.46	ng/L		05/27/20 16:59	05/30/20 03:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*96*		*70 - 130*	*05/27/20 16:59*	*05/30/20 03:23*	*1*
13C2 PFDA	*97*		*70 - 130*	*05/27/20 16:59*	*05/30/20 03:23*	*1*
13C2 PFHxA	*96*		*70 - 130*	*05/27/20 16:59*	*05/30/20 03:23*	*1*

Surrogate Summary

Client: SUEZ Water Environmental Services Inc
Project/Site: Newberry System

Job ID: 410-2505-1

Method: 537 DW - Perfluorinated Alkyl Acids (LC/MS)

Matrix: Drinking Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	d5NEFOS (70-130)	PFDA (70-130)	PFHxA (70-130)
410-2505-1	7670061 001 Playground Well	112	107	114
410-2505-3	7670061 005 Conley Well	111	109	113
410-2505-5	7670061 301 Conley Between Lead & Lag	111	102	116
410-2505-7	7670061 301 Conley Lead Vessel 1/2 Way	113	115	116
410-2505-9	7670061 301 Conley After Lag Vessel	125	127	127
410-2505-11	7670061 002 Coppersmith Well	117	114	121
410-2505-11 - DL	7670061 002 Coppersmith Well	103	96	92
410-2505-13	7670061 003 DuPont Well	97	99	102
410-2505-13 - DL	7670061 003 DuPont Well	101	104	96
410-2505-15	7670061 302 DuPont Between Lead & Lag	109	120	122
410-2505-17	7670061 302 DuPont Lead Vessel 1/2 Way	91	95	93
410-2505-17 - DL	7670061 302 DuPont Lead Vessel 1/2 Way	95	90	88
410-2505-19	7670061 302 DuPont After Lag Vessel	88	77	90
410-2505-21	7670061 101 Conley EP Grab Water	89	100	94
410-2505-23	7670061 102 DuPont EP	95	91	96
LCS 410-9345/2-A	Lab Control Sample	101	105	106
LCS 410-9372/2-A	Lab Control Sample	92	100	98
LCSD 410-9345/3-A	Lab Control Sample Dup	92	94	102
LCSD 410-9372/3-A	Lab Control Sample Dup	95	101	103
MB 410-9345/1-A	Method Blank	118	107	113
MB 410-9372/1-A	Method Blank	86	89	89

Surrogate Legend

d5NEFOS = d5-NEtFOSAA
PFDA = 13C2 PFDA
PFHxA = 13C2 PFHxA

Method: 537 DW - Perfluorinated Alkyl Acids (LC/MS)

Matrix: Potable Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	d5NEFOS (70-130)	PFDA (70-130)	PFHxA (70-130)
410-2505-2	7670061 001 Playground Well F	116	108	116
410-2505-4	7670061 005 Conley Well FB	86	81	84
410-2505-6	7670061 301 Conley Between Lead & Lag FB	98	113	111
410-2505-8	7670061 301 Conley Lead Vessel 1/2 Way FB	99	120	110
410-2505-10	7670061 301 Conley After Lag Vessel FB	95	106	102
410-2505-12	7670061 002 Coppersmith Well FB	113	114	116
410-2505-14	7670061 003 DuPont Well FB	115	115	118
410-2505-16	7670061 302 DuPont Between Lead & Lag FB	123	119	130

Surrogate Summary

Client: SUEZ Water Environmental Services Inc
Job ID: 410-2505-1
Project/Site: Newberry System

Method: 537 DW - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Matrix: Potable Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		d5NEFOS	PFDA	PFHxA
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)
410-2505-18	7670061 302 DuPont Lead Vess	105	117	111
410-2505-20	7670061 302 DuPont After Lag Vessel FB	98	103	103
410-2505-22	7670061 101 Conley Field Blank Grab Water	95	94	99
410-2505-24	7670061 102 DuPont EP FB	96	97	96

Surrogate Legend

d5NEFOS = d5-NEtFOSAA
PFDA = 13C2 PFDA
PFHxA = 13C2 PFHxA

Method: 537 DW - Perfluorinated Alkyl Acids (LC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		d5NEFOS	PFDA	PFHxA
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)
LCS 410-9906/2-A	Lab Control Sample	94	101	101
LCSD 410-9906/3-A	Lab Control Sample Dup	93	114	106
MB 410-9906/1-A	Method Blank	93	105	97

Surrogate Legend

d5NEFOS = d5-NEtFOSAA
PFDA = 13C2 PFDA
PFHxA = 13C2 PFHxA

Method: 537 DW - Perfluorinated Alkyl Acids (LC/MS)

Lab Sample ID: MB 410-9345/1-A
Matrix: Drinking Water
Analysis Batch: 9534

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 9345

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<2.0		2.0	0.50	ng/L		05/27/20 10:18	05/28/20 18:59	1
Perfluoroheptanoic acid	<2.0		2.0	0.50	ng/L		05/27/20 10:18	05/28/20 18:59	1
Perfluorooctanoic acid	<2.0		2.0	0.50	ng/L		05/27/20 10:18	05/28/20 18:59	1
Perfluorononanoic acid	<2.0		2.0	0.50	ng/L		05/27/20 10:18	05/28/20 18:59	1
Perfluorodecanoic acid	<2.0		2.0	0.50	ng/L		05/27/20 10:18	05/28/20 18:59	1
Perfluorotridecanoic acid	<2.0		2.0	0.50	ng/L		05/27/20 10:18	05/28/20 18:59	1
Perfluorotetradecanoic acid	<2.0		2.0	0.50	ng/L		05/27/20 10:18	05/28/20 18:59	1
Perfluorobutanesulfonic acid	<2.0		2.0	0.50	ng/L		05/27/20 10:18	05/28/20 18:59	1
Perfluorohexanesulfonic acid	<2.0		2.0	0.50	ng/L		05/27/20 10:18	05/28/20 18:59	1
Perfluorooctanesulfonic acid	<2.0		2.0	0.50	ng/L		05/27/20 10:18	05/28/20 18:59	1
NEtFOSAA	<2.0		2.0	0.50	ng/L		05/27/20 10:18	05/28/20 18:59	1
NMeFOSAA	<2.0		2.0	0.50	ng/L		05/27/20 10:18	05/28/20 18:59	1
Perfluoroundecanoic acid	<2.0		2.0	0.50	ng/L		05/27/20 10:18	05/28/20 18:59	1
Perfluorododecanoic acid	<2.0		2.0	0.50	ng/L		05/27/20 10:18	05/28/20 18:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*118*		*70 - 130*	*05/27/20 10:18*	*05/28/20 18:59*	*1*
13C2 PFDA	*107*		*70 - 130*	*05/27/20 10:18*	*05/28/20 18:59*	*1*
13C2 PFHxA	*113*		*70 - 130*	*05/27/20 10:18*	*05/28/20 18:59*	*1*

Lab Sample ID: LCS 410-9345/2-A
Matrix: Drinking Water
Analysis Batch: 9534

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 9345

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorohexanoic acid	80.0	90.6	E	ng/L		113	70 - 130
Perfluoroheptanoic acid	80.0	90.4	E	ng/L		113	70 - 130
Perfluorooctanoic acid	80.0	92.2	E	ng/L		115	70 - 130
Perfluorononanoic acid	80.0	83.3	E	ng/L		104	70 - 130
Perfluorodecanoic acid	80.0	86.1	E	ng/L		108	70 - 130
Perfluorotridecanoic acid	80.0	84.0	E	ng/L		105	70 - 130
Perfluorotetradecanoic acid	80.0	86.0	E	ng/L		107	70 - 130
Perfluorobutanesulfonic acid	70.8	79.9	E	ng/L		113	70 - 130
Perfluorohexanesulfonic acid	73.0	81.7	E	ng/L		112	70 - 130
Perfluorooctanesulfonic acid	74.0	84.0	E	ng/L		113	70 - 130
NEtFOSAA	80.0	87.1	E	ng/L		109	70 - 130
NMeFOSAA	80.0	91.1	E	ng/L		114	70 - 130
Perfluoroundecanoic acid	80.0	90.0	E	ng/L		113	70 - 130
Perfluorododecanoic acid	80.0	77.0		ng/L		96	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
d5-NEtFOSAA	*101*		*70 - 130*
13C2 PFDA	*105*		*70 - 130*
13C2 PFHxA	*106*		*70 - 130*

Method: 537 DW - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: LCSD 410-9345/3-A
Matrix: Drinking Water
Analysis Batch: 9534

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 9345

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorohexanoic acid			80.0	88.4	E	ng/L		110	70 - 130	3	30
Perfluoroheptanoic acid			80.0	84.3	E	ng/L		105	70 - 130	7	30
Perfluorooctanoic acid			80.0	80.2	E	ng/L		100	70 - 130	14	30
Perfluorononanoic acid			80.0	80.2	E	ng/L		100	70 - 130	4	30
Perfluorodecanoic acid			80.0	77.7		ng/L		97	70 - 130	10	30
Perfluorotridecanoic acid			80.0	84.1	E	ng/L		105	70 - 130	0	30
Perfluorotetradecanoic acid			80.0	80.7	E	ng/L		101	70 - 130	6	30
Perfluorobutanesulfonic acid			70.8	72.7	E	ng/L		103	70 - 130	9	30
Perfluorohexanesulfonic acid			73.0	76.0	E	ng/L		104	70 - 130	7	30
Perfluorooctanesulfonic acid			74.0	78.0	E	ng/L		105	70 - 130	7	30
NEtFOSAA			80.0	82.7	E	ng/L		103	70 - 130	5	30
NMeFOSAA			80.0	85.5	E	ng/L		107	70 - 130	6	30
Perfluoroundecanoic acid			80.0	79.4		ng/L		99	70 - 130	13	30
Perfluorododecanoic acid			80.0	76.6		ng/L		96	70 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
d5-NEtFOSAA	*92*		*70 - 130*
13C2 PFDA	*94*		*70 - 130*
13C2 PFHxA	*102*		*70 - 130*

Lab Sample ID: MB 410-9372/1-A
Matrix: Drinking Water
Analysis Batch: 9689

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 9372

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<2.0		2.0	0.50	ng/L		05/27/20 16:59	05/30/20 02:14	1
Perfluoroheptanoic acid	<2.0		2.0	0.50	ng/L		05/27/20 16:59	05/30/20 02:14	1
Perfluorooctanoic acid	<2.0		2.0	0.50	ng/L		05/27/20 16:59	05/30/20 02:14	1
Perfluorononanoic acid	<2.0		2.0	0.50	ng/L		05/27/20 16:59	05/30/20 02:14	1
Perfluorodecanoic acid	<2.0		2.0	0.50	ng/L		05/27/20 16:59	05/30/20 02:14	1
Perfluorotridecanoic acid	<2.0		2.0	0.50	ng/L		05/27/20 16:59	05/30/20 02:14	1
Perfluorotetradecanoic acid	<2.0		2.0	0.50	ng/L		05/27/20 16:59	05/30/20 02:14	1
Perfluorobutanesulfonic acid	<2.0		2.0	0.50	ng/L		05/27/20 16:59	05/30/20 02:14	1
Perfluorohexanesulfonic acid	<2.0		2.0	0.50	ng/L		05/27/20 16:59	05/30/20 02:14	1
Perfluorooctanesulfonic acid	<2.0		2.0	0.50	ng/L		05/27/20 16:59	05/30/20 02:14	1
NEtFOSAA	<2.0		2.0	0.50	ng/L		05/27/20 16:59	05/30/20 02:14	1
NMeFOSAA	<2.0		2.0	0.50	ng/L		05/27/20 16:59	05/30/20 02:14	1
Perfluoroundecanoic acid	<2.0		2.0	0.50	ng/L		05/27/20 16:59	05/30/20 02:14	1
Perfluorododecanoic acid	<2.0		2.0	0.50	ng/L		05/27/20 16:59	05/30/20 02:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*86*		*70 - 130*	*05/27/20 16:59*	*05/30/20 02:14*	*1*
13C2 PFDA	*89*		*70 - 130*	*05/27/20 16:59*	*05/30/20 02:14*	*1*
13C2 PFHxA	*89*		*70 - 130*	*05/27/20 16:59*	*05/30/20 02:14*	*1*

Method: 537 DW - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: LCS 410-9372/2-A
Matrix: Drinking Water
Analysis Batch: 9689

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 9372

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Perfluorohexanoic acid			20.5	20.9		ng/L		102	70 - 130		
Perfluoroheptanoic acid			20.5	22.2		ng/L		108	70 - 130		
Perfluorooctanoic acid			20.5	21.3		ng/L		104	70 - 130		
Perfluorononanoic acid			20.5	21.1		ng/L		103	70 - 130		
Perfluorodecanoic acid			20.5	20.6		ng/L		101	70 - 130		
Perfluorotridecanoic acid			20.5	19.2		ng/L		94	70 - 130		
Perfluorotetradecanoic acid			20.5	19.8		ng/L		97	70 - 130		
Perfluorobutanesulfonic acid			18.1	18.9		ng/L		104	70 - 130		
Perfluorohexanesulfonic acid			18.7	19.0		ng/L		102	70 - 130		
Perfluorooctanesulfonic acid			19.0	19.6		ng/L		104	70 - 130		
NEtFOSAA			20.5	21.6		ng/L		105	70 - 130		
NMeFOSAA			20.5	20.7		ng/L		101	70 - 130		
Perfluoroundecanoic acid			20.5	21.4		ng/L		104	70 - 130		
Perfluorododecanoic acid			20.5	21.6		ng/L		106	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
d5-NEtFOSAA	*92*		*70 - 130*
13C2 PFDA	*100*		*70 - 130*
13C2 PFHxA	*98*		*70 - 130*

Lab Sample ID: LCSD 410-9372/3-A
Matrix: Drinking Water
Analysis Batch: 9689

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 9372

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorohexanoic acid			20.5	21.6		ng/L		106	70 - 130	4	30
Perfluoroheptanoic acid			20.5	23.8		ng/L		116	70 - 130	7	30
Perfluorooctanoic acid			20.5	23.2		ng/L		113	70 - 130	9	30
Perfluorononanoic acid			20.5	24.2		ng/L		118	70 - 130	14	30
Perfluorodecanoic acid			20.5	23.0		ng/L		112	70 - 130	11	30
Perfluorotridecanoic acid			20.5	22.1		ng/L		108	70 - 130	14	30
Perfluorotetradecanoic acid			20.5	21.8		ng/L		106	70 - 130	10	30
Perfluorobutanesulfonic acid			18.1	20.1		ng/L		111	70 - 130	6	30
Perfluorohexanesulfonic acid			18.7	20.5		ng/L		110	70 - 130	8	30
Perfluorooctanesulfonic acid			19.0	20.9		ng/L		110	70 - 130	6	30
NEtFOSAA			20.5	22.5		ng/L		110	70 - 130	4	30
NMeFOSAA			20.5	22.7		ng/L		111	70 - 130	9	30
Perfluoroundecanoic acid			20.5	23.9		ng/L		117	70 - 130	11	30
Perfluorododecanoic acid			20.5	21.6		ng/L		106	70 - 130	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
d5-NEtFOSAA	*95*		*70 - 130*
13C2 PFDA	*101*		*70 - 130*
13C2 PFHxA	*103*		*70 - 130*

Method: 537 DW - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: MB 410-9906/1-A
Matrix: Water
Analysis Batch: 10276

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 9906

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<2.0		2.0	0.50	ng/L		06/02/20 06:33	06/03/20 18:21	1
Perfluoroheptanoic acid	<2.0		2.0	0.50	ng/L		06/02/20 06:33	06/03/20 18:21	1
Perfluorooctanoic acid	<2.0		2.0	0.50	ng/L		06/02/20 06:33	06/03/20 18:21	1
Perfluorononanoic acid	<2.0		2.0	0.50	ng/L		06/02/20 06:33	06/03/20 18:21	1
Perfluorodecanoic acid	<2.0		2.0	0.50	ng/L		06/02/20 06:33	06/03/20 18:21	1
Perfluorotridecanoic acid	<2.0		2.0	0.50	ng/L		06/02/20 06:33	06/03/20 18:21	1
Perfluorotetradecanoic acid	<2.0		2.0	0.50	ng/L		06/02/20 06:33	06/03/20 18:21	1
Perfluorobutanesulfonic acid	<2.0		2.0	0.50	ng/L		06/02/20 06:33	06/03/20 18:21	1
Perfluorohexanesulfonic acid	<2.0		2.0	0.50	ng/L		06/02/20 06:33	06/03/20 18:21	1
Perfluorooctanesulfonic acid	<2.0		2.0	0.50	ng/L		06/02/20 06:33	06/03/20 18:21	1
NEtFOSAA	<2.0		2.0	0.50	ng/L		06/02/20 06:33	06/03/20 18:21	1
NMeFOSAA	<2.0		2.0	0.50	ng/L		06/02/20 06:33	06/03/20 18:21	1
Perfluoroundecanoic acid	<2.0		2.0	0.50	ng/L		06/02/20 06:33	06/03/20 18:21	1
Perfluorododecanoic acid	<2.0		2.0	0.50	ng/L		06/02/20 06:33	06/03/20 18:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
d5-NEtFOSAA	*93*		*70 - 130*	*06/02/20 06:33*	*06/03/20 18:21*	*1*
13C2 PFDA	*105*		*70 - 130*	*06/02/20 06:33*	*06/03/20 18:21*	*1*
13C2 PFHxA	*97*		*70 - 130*	*06/02/20 06:33*	*06/03/20 18:21*	*1*

Lab Sample ID: LCS 410-9906/2-A
Matrix: Water
Analysis Batch: 10276

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 9906

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorohexanoic acid	20.5	24.5		ng/L		120	70 - 130
Perfluoroheptanoic acid	20.5	24.2		ng/L		118	70 - 130
Perfluorooctanoic acid	20.5	24.7		ng/L		120	70 - 130
Perfluorononanoic acid	20.5	22.9		ng/L		112	70 - 130
Perfluorodecanoic acid	20.5	24.2		ng/L		118	70 - 130
Perfluorotridecanoic acid	20.5	23.7		ng/L		116	70 - 130
Perfluorotetradecanoic acid	20.5	23.3		ng/L		114	70 - 130
Perfluorobutanesulfonic acid	18.1	18.7		ng/L		103	70 - 130
Perfluorohexanesulfonic acid	18.7	19.9		ng/L		106	70 - 130
Perfluorooctanesulfonic acid	19.0	20.3		ng/L		107	70 - 130
NEtFOSAA	20.5	22.2		ng/L		109	70 - 130
NMeFOSAA	20.5	22.2		ng/L		109	70 - 130
Perfluoroundecanoic acid	20.5	23.4		ng/L		114	70 - 130
Perfluorododecanoic acid	20.5	23.3		ng/L		114	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
d5-NEtFOSAA	*94*		*70 - 130*
13C2 PFDA	*101*		*70 - 130*
13C2 PFHxA	*101*		*70 - 130*

Method: 537 DW - Perfluorinated Alkyl Acids (LC/MS) (Continued)

Lab Sample ID: LCSD 410-9906/3-A
Matrix: Water
Analysis Batch: 10276

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 9906

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorohexanoic acid			20.5	22.4		ng/L		109	70 - 130	9	30
Perfluoroheptanoic acid			20.5	25.6		ng/L		125	70 - 130	6	30
Perfluorooctanoic acid			20.5	24.8		ng/L		121	70 - 130	0	30
Perfluorononanoic acid			20.5	24.7		ng/L		121	70 - 130	8	30
Perfluorodecanoic acid			20.5	24.6		ng/L		120	70 - 130	2	30
Perfluorotridecanoic acid			20.5	24.4		ng/L		119	70 - 130	3	30
Perfluorotetradecanoic acid			20.5	23.5		ng/L		115	70 - 130	1	30
Perfluorobutanesulfonic acid			18.1	18.5		ng/L		102	70 - 130	1	30
Perfluorohexanesulfonic acid			18.7	18.9		ng/L		101	70 - 130	5	30
Perfluorooctanesulfonic acid			19.0	20.1		ng/L		106	70 - 130	1	30
NEtFOSAA			20.5	22.3		ng/L		109	70 - 130	0	30
NMeFOSAA			20.5	22.5		ng/L		110	70 - 130	1	30
Perfluoroundecanoic acid			20.5	25.1		ng/L		122	70 - 130	7	30
Perfluorododecanoic acid			20.5	25.2		ng/L		123	70 - 130	8	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
d5-NEtFOSAA	*93*		*70 - 130*
13C2 PFDA	*114*		*70 - 130*
13C2 PFHxA	*106*		*70 - 130*

LCMS

Prep Batch: 9345

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-2505-1	7670061 001 Playground Well	Total/NA	Drinking Water	537 DW	
410-2505-2	7670061 001 Playground Well FB	Total/NA	Potable Water	537 DW	
410-2505-3	7670061 005 Conley Well	Total/NA	Drinking Water	537 DW	
410-2505-4	7670061 005 Conley Well FB	Total/NA	Potable Water	537 DW	
410-2505-5	7670061 301 Conley Between Lead & Lag	Total/NA	Drinking Water	537 DW	
410-2505-7	7670061 301 Conley Lead Vessel 1/2 Way	Total/NA	Drinking Water	537 DW	
410-2505-9	7670061 301 Conley After Lag Vessel	Total/NA	Drinking Water	537 DW	
410-2505-11	7670061 002 Coppersmith Well	Total/NA	Drinking Water	537 DW	
410-2505-11 - DL	7670061 002 Coppersmith Well	Total/NA	Drinking Water	537 DW	
410-2505-12	7670061 002 Coppersmith Well FB	Total/NA	Potable Water	537 DW	
410-2505-13 - DL	7670061 003 DuPont Well	Total/NA	Drinking Water	537 DW	
410-2505-13	7670061 003 DuPont Well	Total/NA	Drinking Water	537 DW	
410-2505-14	7670061 003 DuPont Well FB	Total/NA	Potable Water	537 DW	
410-2505-15	7670061 302 DuPont Between Lead & Lag	Total/NA	Drinking Water	537 DW	
410-2505-16	7670061 302 DuPont Between Lead & Lag FB	Total/NA	Potable Water	537 DW	
410-2505-17	7670061 302 DuPont Lead Vessel 1/2 Way	Total/NA	Drinking Water	537 DW	
410-2505-17 - DL	7670061 302 DuPont Lead Vessel 1/2 Way	Total/NA	Drinking Water	537 DW	
410-2505-18	7670061 302 DuPont Lead Vessel 1/2 Way FB	Total/NA	Potable Water	537 DW	
410-2505-19	7670061 302 DuPont After Lag Vessel	Total/NA	Drinking Water	537 DW	
410-2505-20	7670061 302 DuPont After Lag Vessel FB	Total/NA	Potable Water	537 DW	
MB 410-9345/1-A	Method Blank	Total/NA	Drinking Water	537 DW	
LCS 410-9345/2-A	Lab Control Sample	Total/NA	Drinking Water	537 DW	
LCSD 410-9345/3-A	Lab Control Sample Dup	Total/NA	Drinking Water	537 DW	

Prep Batch: 9372

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-2505-21	7670061 101 Conley EP Grab Water	Total/NA	Drinking Water	537 DW	
410-2505-22	7670061 101 Conley Field Blank Grab Water	Total/NA	Potable Water	537 DW	
410-2505-23	7670061 102 DuPont EP	Total/NA	Drinking Water	537 DW	
410-2505-24	7670061 102 DuPont EP FB	Total/NA	Potable Water	537 DW	
MB 410-9372/1-A	Method Blank	Total/NA	Drinking Water	537 DW	
LCS 410-9372/2-A	Lab Control Sample	Total/NA	Drinking Water	537 DW	
LCSD 410-9372/3-A	Lab Control Sample Dup	Total/NA	Drinking Water	537 DW	

Analysis Batch: 9534

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-2505-1	7670061 001 Playground Well	Total/NA	Drinking Water	537 DW	9345
410-2505-2	7670061 001 Playground Well FB	Total/NA	Potable Water	537 DW	9345
410-2505-3	7670061 005 Conley Well	Total/NA	Drinking Water	537 DW	9345
410-2505-4	7670061 005 Conley Well FB	Total/NA	Potable Water	537 DW	9345
410-2505-5	7670061 301 Conley Between Lead & Lag	Total/NA	Drinking Water	537 DW	9345
410-2505-7	7670061 301 Conley Lead Vessel 1/2 Way	Total/NA	Drinking Water	537 DW	9345
410-2505-9	7670061 301 Conley After Lag Vessel	Total/NA	Drinking Water	537 DW	9345
410-2505-11	7670061 002 Coppersmith Well	Total/NA	Drinking Water	537 DW	9345
410-2505-12	7670061 002 Coppersmith Well FB	Total/NA	Potable Water	537 DW	9345
410-2505-13	7670061 003 DuPont Well	Total/NA	Drinking Water	537 DW	9345
410-2505-14	7670061 003 DuPont Well FB	Total/NA	Potable Water	537 DW	9345
410-2505-15	7670061 302 DuPont Between Lead & Lag	Total/NA	Drinking Water	537 DW	9345
410-2505-16	7670061 302 DuPont Between Lead & Lag FB	Total/NA	Potable Water	537 DW	9345
410-2505-17	7670061 302 DuPont Lead Vessel 1/2 Way	Total/NA	Drinking Water	537 DW	9345
410-2505-18	7670061 302 DuPont Lead Vessel 1/2 Way FB	Total/NA	Potable Water	537 DW	9345

LCMS (Continued)

Analysis Batch: 9534 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-2505-19	7670061 302 DuPont After Lag Vessel	Total/NA	Drinking Water	537 DW	9345
410-2505-20	7670061 302 DuPont After Lag Vessel FB	Total/NA	Potable Water	537 DW	9345
MB 410-9345/1-A	Method Blank	Total/NA	Drinking Water	537 DW	9345
LCS 410-9345/2-A	Lab Control Sample	Total/NA	Drinking Water	537 DW	9345
LCSD 410-9345/3-A	Lab Control Sample Dup	Total/NA	Drinking Water	537 DW	9345

Analysis Batch: 9689

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-2505-21	7670061 101 Conley EP Grab Water	Total/NA	Drinking Water	537 DW	9372
410-2505-22	7670061 101 Conley Field Blank Grab Water	Total/NA	Potable Water	537 DW	9372
410-2505-23	7670061 102 DuPont EP	Total/NA	Drinking Water	537 DW	9372
410-2505-24	7670061 102 DuPont EP FB	Total/NA	Potable Water	537 DW	9372
MB 410-9372/1-A	Method Blank	Total/NA	Drinking Water	537 DW	9372
LCS 410-9372/2-A	Lab Control Sample	Total/NA	Drinking Water	537 DW	9372
LCSD 410-9372/3-A	Lab Control Sample Dup	Total/NA	Drinking Water	537 DW	9372

Analysis Batch: 9845

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-2505-11 - DL	7670061 002 Coppersmith Well	Total/NA	Drinking Water	537 DW	9345
410-2505-13 - DL	7670061 003 DuPont Well	Total/NA	Drinking Water	537 DW	9345
410-2505-17 - DL	7670061 302 DuPont Lead Vessel 1/2 Way	Total/NA	Drinking Water	537 DW	9345

Prep Batch: 9906

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-2505-6	7670061 301 Conley Between Lead & Lag FB	Total/NA	Potable Water	537 DW	
410-2505-8	7670061 301 Conley Lead Vessel 1/2 Way FB	Total/NA	Potable Water	537 DW	
410-2505-10	7670061 301 Conley After Lag Vessel FB	Total/NA	Potable Water	537 DW	
MB 410-9906/1-A	Method Blank	Total/NA	Water	537 DW	
LCS 410-9906/2-A	Lab Control Sample	Total/NA	Water	537 DW	
LCSD 410-9906/3-A	Lab Control Sample Dup	Total/NA	Water	537 DW	

Analysis Batch: 10276

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-2505-6	7670061 301 Conley Between Lead & Lag FB	Total/NA	Potable Water	537 DW	9906
410-2505-8	7670061 301 Conley Lead Vessel 1/2 Way FB	Total/NA	Potable Water	537 DW	9906
410-2505-10	7670061 301 Conley After Lag Vessel FB	Total/NA	Potable Water	537 DW	9906
MB 410-9906/1-A	Method Blank	Total/NA	Water	537 DW	9906
LCS 410-9906/2-A	Lab Control Sample	Total/NA	Water	537 DW	9906
LCSD 410-9906/3-A	Lab Control Sample Dup	Total/NA	Water	537 DW	9906

Lab Chronicle

Client: SUEZ Water Environmental Services Inc
Project/Site: Newberry System

Job ID: 410-2505-1

Client Sample ID: 7670061 001 Playground Well
Lab Sample ID: 410-2505-1
Date Collected: 05/19/20 08:50
Matrix: Drinking Water
Date Received: 05/21/20 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 DW			9345	05/27/20 10:18	S7AC	ELLE
Total/NA	Analysis	537 DW		1	9534	05/28/20 19:33	Y6ZN	ELLE

Client Sample ID: 7670061 001 Playground Well FB
Lab Sample ID: 410-2505-2
Date Collected: 05/19/20 08:50
Matrix: Potable Water
Date Received: 05/21/20 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 DW			9345	05/27/20 10:18	S7AC	ELLE
Total/NA	Analysis	537 DW		1	9534	05/28/20 19:45	Y6ZN	ELLE

Client Sample ID: 7670061 005 Conley Well
Lab Sample ID: 410-2505-3
Date Collected: 05/19/20 08:55
Matrix: Drinking Water
Date Received: 05/21/20 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 DW			9345	05/27/20 10:18	S7AC	ELLE
Total/NA	Analysis	537 DW		1	9534	05/28/20 19:56	Y6ZN	ELLE

Client Sample ID: 7670061 005 Conley Well FB
Lab Sample ID: 410-2505-4
Date Collected: 05/19/20 08:55
Matrix: Potable Water
Date Received: 05/21/20 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 DW			9345	05/27/20 10:18	S7AC	ELLE
Total/NA	Analysis	537 DW		1	9534	05/28/20 20:08	Y6ZN	ELLE

Client Sample ID: 7670061 301 Conley Between Lead & Lag
Lab Sample ID: 410-2505-5
Date Collected: 05/19/20 08:40
Matrix: Drinking Water
Date Received: 05/21/20 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 DW			9345	05/27/20 10:18	S7AC	ELLE
Total/NA	Analysis	537 DW		1	9534	05/28/20 20:19	Y6ZN	ELLE

Client Sample ID: 7670061 301 Conley Between Lead & Lag FB
Lab Sample ID: 410-2505-6
Date Collected: 05/19/20 08:40
Matrix: Potable Water
Date Received: 05/21/20 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 DW			9906	06/02/20 06:33	KM	ELLE
Total/NA	Analysis	537 DW		1	10276	06/03/20 18:56	Y6ZN	ELLE

Lab Chronicle

Client: SUEZ Water Environmental Services Inc
Project/Site: Newberry System

Job ID: 410-2505-1

Client Sample ID: 7670061 301 Conley Lead Vessel 1/2 Way

Lab Sample ID: 410-2505-7
Date Collected: 05/19/20 08:45
Matrix: Drinking Water
Date Received: 05/21/20 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 DW			9345	05/27/20 10:18	S7AC	ELLE
Total/NA	Analysis	537 DW		1	9534	05/28/20 20:42	Y6ZN	ELLE

Client Sample ID: 7670061 301 Conley Lead Vessel 1/2 Way FB

Lab Sample ID: 410-2505-8
Date Collected: 05/19/20 08:45
Matrix: Potable Water
Date Received: 05/21/20 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 DW			9906	06/02/20 06:33	KM	ELLE
Total/NA	Analysis	537 DW		1	10276	06/03/20 19:08	Y6ZN	ELLE

Client Sample ID: 7670061 301 Conley After Lag Vessel

Lab Sample ID: 410-2505-9
Date Collected: 05/19/20 08:35
Matrix: Drinking Water
Date Received: 05/21/20 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 DW			9345	05/27/20 10:18	S7AC	ELLE
Total/NA	Analysis	537 DW		1	9534	05/28/20 21:06	Y6ZN	ELLE

Client Sample ID: 7670061 301 Conley After Lag Vessel FB

Lab Sample ID: 410-2505-10
Date Collected: 05/19/20 08:35
Matrix: Potable Water
Date Received: 05/21/20 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 DW			9906	06/02/20 06:33	KM	ELLE
Total/NA	Analysis	537 DW		1	10276	06/03/20 19:19	Y6ZN	ELLE

Client Sample ID: 7670061 002 Coppersmith Well

Lab Sample ID: 410-2505-11
Date Collected: 05/19/20 07:50
Matrix: Drinking Water
Date Received: 05/21/20 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 DW			9345	05/27/20 10:18	S7AC	ELLE
Total/NA	Analysis	537 DW		1	9534	05/28/20 21:40	Y6ZN	ELLE
Total/NA	Prep	537 DW	DL		9345	05/27/20 10:18	S7AC	ELLE
Total/NA	Analysis	537 DW	DL	10	9845	06/01/20 19:10	Y6ZN	ELLE

Client Sample ID: 7670061 002 Coppersmith Well FB

Lab Sample ID: 410-2505-12
Date Collected: 05/19/20 07:50
Matrix: Potable Water
Date Received: 05/21/20 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 DW			9345	05/27/20 10:18	S7AC	ELLE
Total/NA	Analysis	537 DW		1	9534	05/28/20 21:52	Y6ZN	ELLE

Lab Chronicle

Client: SUEZ Water Environmental Services Inc
Project/Site: Newberry System

Job ID: 410-2505-1

Client Sample ID: 7670061 003 DuPont Well

Lab Sample ID: 410-2505-13
Date Collected: 05/19/20 08:25
Matrix: Drinking Water
Date Received: 05/21/20 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 DW			9345	05/27/20 10:18	S7AC	ELLE
Total/NA	Analysis	537 DW		1	9534	05/28/20 22:03	Y6ZN	ELLE
Total/NA	Prep	537 DW	DL		9345	05/27/20 10:18	S7AC	ELLE
Total/NA	Analysis	537 DW	DL	10	9845	06/01/20 19:33	Y6ZN	ELLE

Client Sample ID: 7670061 003 DuPont Well FB

Lab Sample ID: 410-2505-14
Date Collected: 05/19/20 08:25
Matrix: Potable Water
Date Received: 05/21/20 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 DW			9345	05/27/20 10:18	S7AC	ELLE
Total/NA	Analysis	537 DW		1	9534	05/28/20 22:15	Y6ZN	ELLE

Client Sample ID: 7670061 302 DuPont Between Lead & Lag

Lab Sample ID: 410-2505-15
Date Collected: 05/19/20 08:15
Matrix: Drinking Water
Date Received: 05/21/20 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 DW			9345	05/27/20 10:18	S7AC	ELLE
Total/NA	Analysis	537 DW		1	9534	05/28/20 22:26	Y6ZN	ELLE

Client Sample ID: 7670061 302 DuPont Between Lead & Lag FB

Lab Sample ID: 410-2505-16
Date Collected: 05/19/20 08:15
Matrix: Potable Water
Date Received: 05/21/20 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 DW			9345	05/27/20 10:18	S7AC	ELLE
Total/NA	Analysis	537 DW		1	9534	05/28/20 22:38	Y6ZN	ELLE

Client Sample ID: 7670061 302 DuPont Lead Vessel 1/2 Way

Lab Sample ID: 410-2505-17
Date Collected: 05/19/20 08:20
Matrix: Drinking Water
Date Received: 05/21/20 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 DW			9345	05/27/20 10:18	S7AC	ELLE
Total/NA	Analysis	537 DW		1	9534	05/28/20 22:49	Y6ZN	ELLE
Total/NA	Prep	537 DW	DL		9345	05/27/20 10:18	S7AC	ELLE
Total/NA	Analysis	537 DW	DL	10	9845	06/01/20 20:19	Y6ZN	ELLE

Client Sample ID: 7670061 302 DuPont Lead Vessel 1/2 Way FB

Lab Sample ID: 410-2505-18

Date Collected: 05/19/20 08:20
Date Received: 05/21/20 16:40

Matrix: Potable Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 DW			9345	05/27/20 10:18	S7AC	ELLE
Total/NA	Analysis	537 DW		1	9534	05/28/20 23:01	Y6ZN	ELLE

Client Sample ID: 7670061 302 DuPont After Lag Vessel

Lab Sample ID: 410-2505-19

Date Collected: 05/19/20 08:10
Date Received: 05/21/20 16:40

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 DW			9345	05/27/20 10:18	S7AC	ELLE
Total/NA	Analysis	537 DW		1	9534	05/28/20 23:12	Y6ZN	ELLE

Client Sample ID: 7670061 302 DuPont After Lag Vessel FB

Lab Sample ID: 410-2505-20

Date Collected: 05/19/20 08:10
Date Received: 05/21/20 16:40

Matrix: Potable Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 DW			9345	05/27/20 10:18	S7AC	ELLE
Total/NA	Analysis	537 DW		1	9534	05/28/20 23:24	Y6ZN	ELLE

Client Sample ID: 7670061 101 Conley EP Grab Water

Lab Sample ID: 410-2505-21

Date Collected: 05/19/20 08:30
Date Received: 05/21/20 16:40

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 DW			9372	05/27/20 16:59	Z5TV	ELLE
Total/NA	Analysis	537 DW		1	9689	05/30/20 02:49	Y6ZN	ELLE

Client Sample ID: 7670061 101 Conley Field Blank Grab Water

Lab Sample ID: 410-2505-22

Date Collected: 05/19/20 08:30
Date Received: 05/21/20 16:40

Matrix: Potable Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 DW			9372	05/27/20 16:59	Z5TV	ELLE
Total/NA	Analysis	537 DW		1	9689	05/30/20 03:00	Y6ZN	ELLE

Client Sample ID: 7670061 102 DuPont EP

Lab Sample ID: 410-2505-23

Date Collected: 05/19/20 08:00
Date Received: 05/21/20 16:40

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 DW			9372	05/27/20 16:59	Z5TV	ELLE
Total/NA	Analysis	537 DW		1	9689	05/30/20 03:12	Y6ZN	ELLE

Lab Chronicle

Client: SUEZ Water Environmental Services Inc
Project/Site: Newberry System

Job ID: 410-2505-1

Client Sample ID: 7670061 102 DuPont EP FB

Lab Sample ID: 410-2505-24

Date Collected: 05/19/20 08:00

Matrix: Potable Water

Date Received: 05/21/20 16:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	537 DW			9372	05/27/20 16:59	Z5TV	ELLE
Total/NA	Analysis	537 DW		1	9689	05/30/20 03:23	Y6ZN	ELLE

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Accreditation/Certification Summary

Client: SUEZ Water Environmental Services Inc
Job ID: 410-2505-1
Project/Site: Newberry System

Laboratory: Eurofins Lancaster Laboratories Env, LLC

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Pennsylvania	NELAP	36-00037	01-30-21

Method Summary

Client: SUEZ Water Environmental Services Inc
Project/Site: Newberry System

Job ID: 410-2505-1

Method	Method Description	Protocol	Laboratory
537 DW	Perfluorinated Alkyl Acids (LC/MS)	EPA	ELLE
537 DW	Extraction of Perfluorinated Alkyl Acids	EPA	ELLE

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

ELLE = Eurofins Lancaster Laboratories Env, LLC, 2425 New Holland Pike, Lancaster, PA 17601, TEL (717)656-2300

Sample Summary

Client: SUEZ Water Environmental Services Inc
Project/Site: Newberry System

Job ID: 410-2505-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
410-2505-1	7670061 001 Playground Well	Drinking Water	05/19/20 08:50	05/21/20 16:40	
410-2505-2	7670061 001 Playground Well FB	Potable Water	05/19/20 08:50	05/21/20 16:40	
410-2505-3	7670061 005 Conley Well	Drinking Water	05/19/20 08:55	05/21/20 16:40	
410-2505-4	7670061 005 Conley Well FB	Potable Water	05/19/20 08:55	05/21/20 16:40	
410-2505-5	7670061 301 Conley Between Lead & Lag	Drinking Water	05/19/20 08:40	05/21/20 16:40	
410-2505-6	7670061 301 Conley Between Lead & Lag FB	Potable Water	05/19/20 08:40	05/21/20 16:40	
410-2505-7	7670061 301 Conley Lead Vessel 1/2 Way	Drinking Water	05/19/20 08:45	05/21/20 16:40	
410-2505-8	7670061 301 Conley Lead Vessel 1/2 Way FB	Potable Water	05/19/20 08:45	05/21/20 16:40	
410-2505-9	7670061 301 Conley After Lag Vessel	Drinking Water	05/19/20 08:35	05/21/20 16:40	
410-2505-10	7670061 301 Conley After Lag Vessel FB	Potable Water	05/19/20 08:35	05/21/20 16:40	
410-2505-11	7670061 002 Coppersmith Well	Drinking Water	05/19/20 07:50	05/21/20 16:40	
410-2505-12	7670061 002 Coppersmith Well FB	Potable Water	05/19/20 07:50	05/21/20 16:40	
410-2505-13	7670061 003 DuPont Well	Drinking Water	05/19/20 08:25	05/21/20 16:40	
410-2505-14	7670061 003 DuPont Well FB	Potable Water	05/19/20 08:25	05/21/20 16:40	
410-2505-15	7670061 302 DuPont Between Lead & Lag	Drinking Water	05/19/20 08:15	05/21/20 16:40	
410-2505-16	7670061 302 DuPont Between Lead & Lag FB	Potable Water	05/19/20 08:15	05/21/20 16:40	
410-2505-17	7670061 302 DuPont Lead Vessel 1/2 Way	Drinking Water	05/19/20 08:20	05/21/20 16:40	
410-2505-18	7670061 302 DuPont Lead Vessel 1/2 Way FB	Potable Water	05/19/20 08:20	05/21/20 16:40	
410-2505-19	7670061 302 DuPont After Lag Vessel	Drinking Water	05/19/20 08:10	05/21/20 16:40	
410-2505-20	7670061 302 DuPont After Lag Vessel FB	Potable Water	05/19/20 08:10	05/21/20 16:40	
410-2505-21	7670061 101 Conley EP Grab Water	Drinking Water	05/19/20 08:30	05/21/20 16:40	
410-2505-22	7670061 101 Conley Field Blank Grab Water	Potable Water	05/19/20 08:30	05/21/20 16:40	
410-2505-23	7670061 102 DuPont EP	Drinking Water	05/19/20 08:00	05/21/20 16:40	
410-2505-24	7670061 102 DuPont EP FB	Potable Water	05/19/20 08:00	05/21/20 16:40	

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Environmental Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories Environmental

Acct. # 44297 Group # ____________ Sample # ____________

Client: SUEZ WATER PA	
Project Name: Newberry System	Site ID #:
Project Manager: Elizabeth Zanar	P.O. #:
Sampler: Penny Bumbarger	PWSID #: 7670061
Phone #: 717-773-0185	Quote #: 219948A
State where samples were collected: PA	For Compliance: Yes ☑ No ☐

Matrix: Soil ☐ Sediment ☐ Tissue ☐ Water: Potable ☐ NPDES ☐ Ground ☑ Surface ☐ Other: GAC Filtered Water

Analyses Requested / Preservation and Filtration Codes: PFAS (14) 537 v 1.1 — O

Sample Identification	Collection Date	Collection Time	Grab	Composite	Soil/Sediment/Tissue	Water	Other: GAC Filtered Water	Total # of Containers	PFAS (14) 537 v 1.1									Remarks
009 Susq Vill Well 1	5/19/20	0945	X			X		2	X									Quarterly Compliance
FB - Susq Vill Well	5/19/20	0945						2	X									
010 Susq Vill Well 2	5/19/20	0950	X			X		2	X									
FB - Susq Vill Well 2	5/19/20	0950						2	X									
011 Paddletown Well	5/19/20	1100	X			X		2	X									
FB - Paddletown Well	5/19/20	1100						2	X									

For Lab Use Only
SF #: ________
SCR #: ________

Preservation Codes
H = HCl T = Thiosulfate
N = HNO_3 B = NaOH
S = H_2SO_4 P = H_3PO_4
F = Field Filtered O = Other

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐
(Rush TAT is subject to laboratory approval and surcharges.)

Date results are needed:

Rush results requested by (please check): E-Mail ☑ Phone ☐

E-mail Address: penny.bumbarger@suez.com

Phone: 717-773-0185

Data Package Options (please check if required)

Type I (Validation/non-CLP)	☐	MA MCP	☐
Type III (Reduced non-CLP)	☐	CT RCP	☐
Type VI (Raw Data Only)	☐	TX TRRP-13	☐
NJ DKQP	☐	NYSDEC Category	☐ A or ☐ B

EDD Required? Yes ☐ No ☐ If yes, format: ________

Relinquished by	Date	Time	Received by	Date	Time
Penny Bumbarger	5/21/2020	12:10	Stan King	5.21.20	12:10
Stan King	5.21.20	16:45			
			W M [illegible]	5/21/20	1640

Relinquished by Commercial Carrier: UPS ____ FedEx ____ Other X

Temperature upon receipt 0.1 / 5.1 °C

Eurofins Lancaster Laboratories Environmental, LLC • 2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300

7045 0717

Environmental Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories Environmental

Acct. # 44297 Group # ____ Sample # ____

Client: **SUEZ WATER PA**
Project Name: Newberry System — Site ID #:
Project Manager: Elizabeth Zanar — P.O. #:
Sampler: Penny Bumbarger — PWSID #: 7670061
Phone #: 717-773-0185 — Quote #: 219948A
State where samples were collected: PA — For Compliance: Yes ☑ No ☐

Matrix: Soil ☐ Sediment ☐ Tissue ☐; Water: Potable ☐ Ground ☑ NPDES ☐ Surface ☐; Other: GAC Filtered Water

Analyses Requested / Preservation and Filtration Codes: O

Sample Identification	Collection Date	Collection Time	Grab	Composite	Water	Total # of Containers	PFAS (14) 537 v 1.1	Remarks
006 Eden Well	5/19/20	0920	X		X	2	X	Quarterly Compliance
FB - Eden Well	5/19/20	0920				2	X	
007 Reeser Well 1	5/19/20	1015	X		X	2	X	
FB - Reeser Well 1	5/19/20	1015				2	X	
008 Reeser Well 2	5/19/20	1025	X		X	2	X	
FB - Reeser Well 2	5/19/20	1025				2	X	

For Lab Use Only
SF #: ____
SCR #: ____

Preservation Codes
H = HCl T = Thiosulfate
N = HNO_3 B = NaOH
S = H_2SO_4 P = H_3PO_4
F = Field Filtered O = Other

Turnaround Time Requested (TAT) (please check): Standard ☑ Rush ☐
(Rush TAT is subject to laboratory approval and surcharges.)

Date results are needed:

Rush results requested by (please check): E-Mail ☑ Phone ☐

E-mail Address: penny.bumbarger@suez.com

Phone: 717-773-0185

Data Package Options (please check if required)

Type I (Validation/non-CLP)	☐	MA MCP	☐
Type III (Reduced non-CLP)	☐	CT RCP	☐
Type VI (Raw Data Only)	☐	TX TRRP-13	☐
NJ DKQP	☐	NYSDEC Category	☐ A or ☐ B

EDD Required? Yes ☐ No ☐ If yes, format: ____

Relinquished by	Date	Time	Received by	Date	Time
Penny Bumbarger	5/21/2020	13:10	Stan King	5.21.20	13:10
Stan King	5-21-20	16:45			
			W Mathews	5/21/20	1640

Relinquished by Commercial Carrier: UPS ____ FedEx ____ Other X

Temperature upon receipt 5-0.1 5.1 °C

(3) WM/33690

Eurofins Lancaster Laboratories Environmental, LLC • 2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300

7045 0717

Login Sample Receipt Checklist

Client: SUEZ Water Environmental Services Inc

Job Number: 410-2505-1

Login Number: 2505
List Number: 1
Creator: Colon Martinez, Jessenia C

List Source: Eurofins Lancaster Laboratories Env

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable (</=6C, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (</=6C, not frozen).	True	
WV: Container Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the containers received and the COC.	False	IDs on containers do not match the COC. Logged in per COC.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Is the Field Sampler's name present on COC?	True	
Sample Preservation Verified.	N/A	
Residual Chlorine Checked.	N/A	
Sample custody seals are intact.	True	