


## ANALYTICAL REPORT

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

Laboratory Job ID: 410-12365-1  
Client Project/Site: Newberry System  
Sampling Event: Newberry System

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

Attn: Penny Bumbarger



Authorized for release by:  
9/24/2020 8:14:54 AM

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*Results relate only to the items tested and the sample(s) as received by the laboratory.*



Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

\* QC recoveries that exceed the upper limits and are associated with non-detect samples are qualified but no further narration is needed since the bias is high and does not change a non-detect result.

\* Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD is performed, unless otherwise specified in the method.

\* Surrogate recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

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

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Elizabeth Zanar  
Project Manager  
9/24/2020 8:14:54 AM



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# Definitions/Glossary

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

Job ID: 410-12365-1

## Qualifiers

### LCMS

Qualifier	Qualifier Description
E	Result exceeded calibration range.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
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)
TNTC	Too Numerous To Count

# Case Narrative

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

Job ID: 410-12365-1

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## Job ID: 410-12365-1

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Laboratory: Eurofins Lancaster Laboratories Env, LLC

### Narrative

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#### Job Narrative 410-12365-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 8/28/2020 3:42 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.1° C and 1.2° C.

#### LCMS

Method 537 DW: The following sample(s) were found to contain residual chlorine: 7670061 101 Conley EP Grab Water (410-12365-21).

Method 537 DW: The following sample(s) were found to contain residual chlorine: 7670061 102 DuPont EP (410-12365-23).

No additional analytical or quality issues were noted, other than those described above or 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: 410-12365-1

## Client Sample ID: 7670061 001 Playground Well

Lab Sample ID: 410-12365-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	15		1.8	0.46	ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluoroheptanoic acid	3.1		1.8	0.46	ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanoic acid	6.0		1.8	0.46	ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorobutanesulfonic acid	3.7		1.8	0.46	ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorohexanesulfonic acid	6.2		1.8	0.46	ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanesulfonic acid	11		1.8	0.46	ng/L	1		EPA 537 Ver 1.1	Total/NA

## Client Sample ID: 7670061 001 Playground Well FB

Lab Sample ID: 410-12365-2

No Detections.

## Client Sample ID: 7670061 005 Conley Well

Lab Sample ID: 410-12365-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	11		1.8	0.45	ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluoroheptanoic acid	2.3		1.8	0.45	ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanoic acid	3.9		1.8	0.45	ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorobutanesulfonic acid	2.6		1.8	0.45	ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorohexanesulfonic acid	3.8		1.8	0.45	ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanesulfonic acid	6.6		1.8	0.45	ng/L	1		EPA 537 Ver 1.1	Total/NA

## Client Sample ID: 7670061 005 Conley Well FB

Lab Sample ID: 410-12365-4

No Detections.

## Client Sample ID: 7670061 301 Conley Between Lead & Lag

Lab Sample ID: 410-12365-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	14		1.7	0.44	ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluoroheptanoic acid	2.9		1.7	0.44	ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanoic acid	4.5		1.7	0.44	ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorobutanesulfonic acid	3.9		1.7	0.44	ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorohexanesulfonic acid	3.5		1.7	0.44	ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanesulfonic acid	3.2		1.7	0.44	ng/L	1		EPA 537 Ver 1.1	Total/NA

## Client Sample ID: 7670061 301 Conley Between Lead & Lag FB

Lab Sample ID: 410-12365-6

No Detections.

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

Lab Sample ID: 410-12365-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	14		1.9	0.49	ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluoroheptanoic acid	3.2		1.9	0.49	ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanoic acid	5.5		1.9	0.49	ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorobutanesulfonic acid	3.7		1.9	0.49	ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorohexanesulfonic acid	4.6		1.9	0.49	ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanesulfonic acid	6.7		1.9	0.49	ng/L	1		EPA 537 Ver 1.1	Total/NA

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

Lab Sample ID: 410-12365-8

No Detections.

This Detection Summary does not include radiochemical test results.

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# Detection Summary

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

Job ID: 410-12365-1

## Client Sample ID: 7670061 301 Conley After Lag Vessel

Lab Sample ID: 410-12365-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	12		1.8	0.44	ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorobutanesulfonic acid	3.1		1.8	0.44	ng/L	1		EPA 537 Ver 1.1	Total/NA

## Client Sample ID: 7670061 301 Conley After Lag Vessel FB

Lab Sample ID: 410-12365-10

No Detections.

## Client Sample ID: 7670061 002 Coppersmith Well

Lab Sample ID: 410-12365-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	13		1.8	0.44	ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluoroheptanoic acid	4.9		1.8	0.44	ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanoic acid	6.5		1.8	0.44	ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorononanoic acid	3.5		1.8	0.44	ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorobutanesulfonic acid	6.7		1.8	0.44	ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorohexanesulfonic acid	47		1.8	0.44	ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanesulfonic acid	49		1.8	0.44	ng/L	1		EPA 537 Ver 1.1	Total/NA

## Client Sample ID: 7670061 002 Coppersmith Well FB

Lab Sample ID: 410-12365-12

No Detections.

## Client Sample ID: 7670061 003 DuPont Well

Lab Sample ID: 410-12365-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	6.1		1.8	0.46	ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluoroheptanoic acid	2.5		1.8	0.46	ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanoic acid	4.6		1.8	0.46	ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorobutanesulfonic acid	5.0		1.8	0.46	ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorohexanesulfonic acid	55		1.8	0.46	ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanesulfonic acid	41		1.8	0.46	ng/L	1		EPA 537 Ver 1.1	Total/NA

## Client Sample ID: 7670061 003 DuPont Well FB

Lab Sample ID: 410-12365-14

No Detections.

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

Lab Sample ID: 410-12365-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	27		1.9	0.46	ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluoroheptanoic acid	4.8		1.9	0.46	ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanoic acid	5.2		1.9	0.46	ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorononanoic acid	1.9		1.9	0.46	ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorobutanesulfonic acid	8.3		1.9	0.46	ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorohexanesulfonic acid	48		1.9	0.46	ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanesulfonic acid	28		1.9	0.46	ng/L	1		EPA 537 Ver 1.1	Total/NA

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

Lab Sample ID: 410-12365-16

No Detections.

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

Lab Sample ID: 410-12365-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanoic acid	19		1.8	0.45	ng/L	1		EPA 537 Ver 1.1	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: 410-12365-1

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

**Lab Sample ID: 410-12365-17**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoroheptanoic acid	4.8		1.8	0.45	ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanoic acid	6.1		1.8	0.45	ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorononanoic acid	2.6		1.8	0.45	ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorobutanesulfonic acid	7.2		1.8	0.45	ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorohexanesulfonic acid	54		1.8	0.45	ng/L	1		EPA 537 Ver 1.1	Total/NA
Perfluorooctanesulfonic acid	44		1.8	0.45	ng/L	1		EPA 537 Ver 1.1	Total/NA

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

**Lab Sample ID: 410-12365-18**

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Lancaster Laboratories Env, LLC



# Client Sample Results

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

Job ID: 410-12365-1

**Client Sample ID: 7670061 001 Playground Well**

**Lab Sample ID: 410-12365-1**

Date Collected: 08/27/20 10:05

Matrix: Drinking Water

Date Received: 08/28/20 15:42

**Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	15		1.8	0.46	ng/L		09/10/20 11:11	09/12/20 00:25	1
Perfluoroheptanoic acid	3.1		1.8	0.46	ng/L		09/10/20 11:11	09/12/20 00:25	1
Perfluorooctanoic acid	6.0		1.8	0.46	ng/L		09/10/20 11:11	09/12/20 00:25	1
Perfluorononanoic acid	<1.8		1.8	0.46	ng/L		09/10/20 11:11	09/12/20 00:25	1
Perfluorodecanoic acid	<1.8		1.8	0.46	ng/L		09/10/20 11:11	09/12/20 00:25	1
Perfluorotridecanoic acid	<1.8		1.8	0.46	ng/L		09/10/20 11:11	09/12/20 00:25	1
Perfluorotetradecanoic acid	<1.8		1.8	0.46	ng/L		09/10/20 11:11	09/12/20 00:25	1
Perfluorobutanesulfonic acid	3.7		1.8	0.46	ng/L		09/10/20 11:11	09/12/20 00:25	1
Perfluorohexanesulfonic acid	6.2		1.8	0.46	ng/L		09/10/20 11:11	09/12/20 00:25	1
Perfluorooctanesulfonic acid	11		1.8	0.46	ng/L		09/10/20 11:11	09/12/20 00:25	1
NEtFOSAA	<1.8		1.8	0.46	ng/L		09/10/20 11:11	09/12/20 00:25	1
NMeFOSAA	<1.8		1.8	0.46	ng/L		09/10/20 11:11	09/12/20 00:25	1
Perfluoroundecanoic acid	<1.8		1.8	0.46	ng/L		09/10/20 11:11	09/12/20 00:25	1
Perfluorododecanoic acid	<1.8		1.8	0.46	ng/L		09/10/20 11:11	09/12/20 00:25	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
d5-NEtFOSAA	89		70 - 130				09/10/20 11:11	09/12/20 00:25	1
13C2 PFDA	78		70 - 130				09/10/20 11:11	09/12/20 00:25	1
13C2 PFHxA	85		70 - 130				09/10/20 11:11	09/12/20 00:25	1

**Client Sample ID: 7670061 001 Playground Well FB**

**Lab Sample ID: 410-12365-2**

Date Collected: 08/27/20 10:05

Matrix: Potable Water

Date Received: 08/28/20 15:42

**Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.9		1.9	0.49	ng/L		09/10/20 11:11	09/12/20 00:34	1
Perfluoroheptanoic acid	<1.9		1.9	0.49	ng/L		09/10/20 11:11	09/12/20 00:34	1
Perfluorooctanoic acid	<1.9		1.9	0.49	ng/L		09/10/20 11:11	09/12/20 00:34	1
Perfluorononanoic acid	<1.9		1.9	0.49	ng/L		09/10/20 11:11	09/12/20 00:34	1
Perfluorodecanoic acid	<1.9		1.9	0.49	ng/L		09/10/20 11:11	09/12/20 00:34	1
Perfluorotridecanoic acid	<1.9		1.9	0.49	ng/L		09/10/20 11:11	09/12/20 00:34	1
Perfluorotetradecanoic acid	<1.9		1.9	0.49	ng/L		09/10/20 11:11	09/12/20 00:34	1
Perfluorobutanesulfonic acid	<1.9		1.9	0.49	ng/L		09/10/20 11:11	09/12/20 00:34	1
Perfluorohexanesulfonic acid	<1.9		1.9	0.49	ng/L		09/10/20 11:11	09/12/20 00:34	1
Perfluorooctanesulfonic acid	<1.9		1.9	0.49	ng/L		09/10/20 11:11	09/12/20 00:34	1
NEtFOSAA	<1.9		1.9	0.49	ng/L		09/10/20 11:11	09/12/20 00:34	1
NMeFOSAA	<1.9		1.9	0.49	ng/L		09/10/20 11:11	09/12/20 00:34	1
Perfluoroundecanoic acid	<1.9		1.9	0.49	ng/L		09/10/20 11:11	09/12/20 00:34	1
Perfluorododecanoic acid	<1.9		1.9	0.49	ng/L		09/10/20 11:11	09/12/20 00:34	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
d5-NEtFOSAA	98		70 - 130				09/10/20 11:11	09/12/20 00:34	1
13C2 PFDA	88		70 - 130				09/10/20 11:11	09/12/20 00:34	1
13C2 PFHxA	94		70 - 130				09/10/20 11:11	09/12/20 00:34	1

# Client Sample Results

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

Job ID: 410-12365-1

**Client Sample ID: 7670061 005 Conley Well**

**Lab Sample ID: 410-12365-3**

Date Collected: 08/27/20 10:10

Matrix: Drinking Water

Date Received: 08/28/20 15:42

**Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	11		1.8	0.45	ng/L		09/10/20 11:11	09/12/20 00:43	1
Perfluoroheptanoic acid	2.3		1.8	0.45	ng/L		09/10/20 11:11	09/12/20 00:43	1
Perfluorooctanoic acid	3.9		1.8	0.45	ng/L		09/10/20 11:11	09/12/20 00:43	1
Perfluorononanoic acid	<1.8		1.8	0.45	ng/L		09/10/20 11:11	09/12/20 00:43	1
Perfluorodecanoic acid	<1.8		1.8	0.45	ng/L		09/10/20 11:11	09/12/20 00:43	1
Perfluorotridecanoic acid	<1.8		1.8	0.45	ng/L		09/10/20 11:11	09/12/20 00:43	1
Perfluorotetradecanoic acid	<1.8		1.8	0.45	ng/L		09/10/20 11:11	09/12/20 00:43	1
Perfluorobutanesulfonic acid	2.6		1.8	0.45	ng/L		09/10/20 11:11	09/12/20 00:43	1
Perfluorohexanesulfonic acid	3.8		1.8	0.45	ng/L		09/10/20 11:11	09/12/20 00:43	1
Perfluorooctanesulfonic acid	6.6		1.8	0.45	ng/L		09/10/20 11:11	09/12/20 00:43	1
NEtFOSAA	<1.8		1.8	0.45	ng/L		09/10/20 11:11	09/12/20 00:43	1
NMeFOSAA	<1.8		1.8	0.45	ng/L		09/10/20 11:11	09/12/20 00:43	1
Perfluoroundecanoic acid	<1.8		1.8	0.45	ng/L		09/10/20 11:11	09/12/20 00:43	1
Perfluorododecanoic acid	<1.8		1.8	0.45	ng/L		09/10/20 11:11	09/12/20 00:43	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
d5-NEtFOSAA	92		70 - 130				09/10/20 11:11	09/12/20 00:43	1
13C2 PFDA	87		70 - 130				09/10/20 11:11	09/12/20 00:43	1
13C2 PFHxA	90		70 - 130				09/10/20 11:11	09/12/20 00:43	1

**Client Sample ID: 7670061 005 Conley Well FB**

**Lab Sample ID: 410-12365-4**

Date Collected: 08/27/20 10:10

Matrix: Potable Water

Date Received: 08/28/20 15:42

**Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.9		1.9	0.47	ng/L		09/10/20 11:11	09/12/20 00:52	1
Perfluoroheptanoic acid	<1.9		1.9	0.47	ng/L		09/10/20 11:11	09/12/20 00:52	1
Perfluorooctanoic acid	<1.9		1.9	0.47	ng/L		09/10/20 11:11	09/12/20 00:52	1
Perfluorononanoic acid	<1.9		1.9	0.47	ng/L		09/10/20 11:11	09/12/20 00:52	1
Perfluorodecanoic acid	<1.9		1.9	0.47	ng/L		09/10/20 11:11	09/12/20 00:52	1
Perfluorotridecanoic acid	<1.9		1.9	0.47	ng/L		09/10/20 11:11	09/12/20 00:52	1
Perfluorotetradecanoic acid	<1.9		1.9	0.47	ng/L		09/10/20 11:11	09/12/20 00:52	1
Perfluorobutanesulfonic acid	<1.9		1.9	0.47	ng/L		09/10/20 11:11	09/12/20 00:52	1
Perfluorohexanesulfonic acid	<1.9		1.9	0.47	ng/L		09/10/20 11:11	09/12/20 00:52	1
Perfluorooctanesulfonic acid	<1.9		1.9	0.47	ng/L		09/10/20 11:11	09/12/20 00:52	1
NEtFOSAA	<1.9		1.9	0.47	ng/L		09/10/20 11:11	09/12/20 00:52	1
NMeFOSAA	<1.9		1.9	0.47	ng/L		09/10/20 11:11	09/12/20 00:52	1
Perfluoroundecanoic acid	<1.9		1.9	0.47	ng/L		09/10/20 11:11	09/12/20 00:52	1
Perfluorododecanoic acid	<1.9		1.9	0.47	ng/L		09/10/20 11:11	09/12/20 00:52	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
d5-NEtFOSAA	96		70 - 130				09/10/20 11:11	09/12/20 00:52	1
13C2 PFDA	85		70 - 130				09/10/20 11:11	09/12/20 00:52	1
13C2 PFHxA	91		70 - 130				09/10/20 11:11	09/12/20 00:52	1

# Client Sample Results

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

Job ID: 410-12365-1

**Client Sample ID: 7670061 301 Conley Between Lead & Lag**

**Lab Sample ID: 410-12365-5**

Date Collected: 08/27/20 09:50

Matrix: Drinking Water

Date Received: 08/28/20 15:42

**Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	14		1.7	0.44	ng/L		09/10/20 11:11	09/12/20 01:01	1
Perfluoroheptanoic acid	2.9		1.7	0.44	ng/L		09/10/20 11:11	09/12/20 01:01	1
Perfluorooctanoic acid	4.5		1.7	0.44	ng/L		09/10/20 11:11	09/12/20 01:01	1
Perfluorononanoic acid	<1.7		1.7	0.44	ng/L		09/10/20 11:11	09/12/20 01:01	1
Perfluorodecanoic acid	<1.7		1.7	0.44	ng/L		09/10/20 11:11	09/12/20 01:01	1
Perfluorotridecanoic acid	<1.7		1.7	0.44	ng/L		09/10/20 11:11	09/12/20 01:01	1
Perfluorotetradecanoic acid	<1.7		1.7	0.44	ng/L		09/10/20 11:11	09/12/20 01:01	1
Perfluorobutanesulfonic acid	3.9		1.7	0.44	ng/L		09/10/20 11:11	09/12/20 01:01	1
Perfluorohexanesulfonic acid	3.5		1.7	0.44	ng/L		09/10/20 11:11	09/12/20 01:01	1
Perfluorooctanesulfonic acid	3.2		1.7	0.44	ng/L		09/10/20 11:11	09/12/20 01:01	1
NEtFOSAA	<1.7		1.7	0.44	ng/L		09/10/20 11:11	09/12/20 01:01	1
NMeFOSAA	<1.7		1.7	0.44	ng/L		09/10/20 11:11	09/12/20 01:01	1
Perfluoroundecanoic acid	<1.7		1.7	0.44	ng/L		09/10/20 11:11	09/12/20 01:01	1
Perfluorododecanoic acid	<1.7		1.7	0.44	ng/L		09/10/20 11:11	09/12/20 01:01	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
d5-NEtFOSAA	86		70 - 130				09/10/20 11:11	09/12/20 01:01	1
13C2 PFDA	82		70 - 130				09/10/20 11:11	09/12/20 01:01	1
13C2 PFHxA	91		70 - 130				09/10/20 11:11	09/12/20 01:01	1

**Client Sample ID: 7670061 301 Conley Between Lead & Lag**

**Lab Sample ID: 410-12365-6**

FB

Date Collected: 08/27/20 09:50

Matrix: Potable Water

Date Received: 08/28/20 15:42

**Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.9		1.9	0.47	ng/L		09/10/20 11:11	09/12/20 01:10	1
Perfluoroheptanoic acid	<1.9		1.9	0.47	ng/L		09/10/20 11:11	09/12/20 01:10	1
Perfluorooctanoic acid	<1.9		1.9	0.47	ng/L		09/10/20 11:11	09/12/20 01:10	1
Perfluorononanoic acid	<1.9		1.9	0.47	ng/L		09/10/20 11:11	09/12/20 01:10	1
Perfluorodecanoic acid	<1.9		1.9	0.47	ng/L		09/10/20 11:11	09/12/20 01:10	1
Perfluorotridecanoic acid	<1.9		1.9	0.47	ng/L		09/10/20 11:11	09/12/20 01:10	1
Perfluorotetradecanoic acid	<1.9		1.9	0.47	ng/L		09/10/20 11:11	09/12/20 01:10	1
Perfluorobutanesulfonic acid	<1.9		1.9	0.47	ng/L		09/10/20 11:11	09/12/20 01:10	1
Perfluorohexanesulfonic acid	<1.9		1.9	0.47	ng/L		09/10/20 11:11	09/12/20 01:10	1
Perfluorooctanesulfonic acid	<1.9		1.9	0.47	ng/L		09/10/20 11:11	09/12/20 01:10	1
NEtFOSAA	<1.9		1.9	0.47	ng/L		09/10/20 11:11	09/12/20 01:10	1
NMeFOSAA	<1.9		1.9	0.47	ng/L		09/10/20 11:11	09/12/20 01:10	1
Perfluoroundecanoic acid	<1.9		1.9	0.47	ng/L		09/10/20 11:11	09/12/20 01:10	1
Perfluorododecanoic acid	<1.9		1.9	0.47	ng/L		09/10/20 11:11	09/12/20 01:10	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
d5-NEtFOSAA	97		70 - 130				09/10/20 11:11	09/12/20 01:10	1
13C2 PFDA	86		70 - 130				09/10/20 11:11	09/12/20 01:10	1
13C2 PFHxA	93		70 - 130				09/10/20 11:11	09/12/20 01:10	1

# Client Sample Results

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

Job ID: 410-12365-1

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

**Lab Sample ID: 410-12365-7**

Date Collected: 08/27/20 09:55

Matrix: Drinking Water

Date Received: 08/28/20 15:42

**Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	14		1.9	0.49	ng/L		09/10/20 11:11	09/12/20 01:19	1
Perfluoroheptanoic acid	3.2		1.9	0.49	ng/L		09/10/20 11:11	09/12/20 01:19	1
Perfluorooctanoic acid	5.5		1.9	0.49	ng/L		09/10/20 11:11	09/12/20 01:19	1
Perfluorononanoic acid	<1.9		1.9	0.49	ng/L		09/10/20 11:11	09/12/20 01:19	1
Perfluorodecanoic acid	<1.9		1.9	0.49	ng/L		09/10/20 11:11	09/12/20 01:19	1
Perfluorotridecanoic acid	<1.9		1.9	0.49	ng/L		09/10/20 11:11	09/12/20 01:19	1
Perfluorotetradecanoic acid	<1.9		1.9	0.49	ng/L		09/10/20 11:11	09/12/20 01:19	1
Perfluorobutanesulfonic acid	3.7		1.9	0.49	ng/L		09/10/20 11:11	09/12/20 01:19	1
Perfluorohexanesulfonic acid	4.6		1.9	0.49	ng/L		09/10/20 11:11	09/12/20 01:19	1
Perfluorooctanesulfonic acid	6.7		1.9	0.49	ng/L		09/10/20 11:11	09/12/20 01:19	1
NEtFOSAA	<1.9		1.9	0.49	ng/L		09/10/20 11:11	09/12/20 01:19	1
NMeFOSAA	<1.9		1.9	0.49	ng/L		09/10/20 11:11	09/12/20 01:19	1
Perfluoroundecanoic acid	<1.9		1.9	0.49	ng/L		09/10/20 11:11	09/12/20 01:19	1
Perfluorododecanoic acid	<1.9		1.9	0.49	ng/L		09/10/20 11:11	09/12/20 01:19	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
d5-NEtFOSAA	89		70 - 130				09/10/20 11:11	09/12/20 01:19	1
13C2 PFDA	85		70 - 130				09/10/20 11:11	09/12/20 01:19	1
13C2 PFHxA	92		70 - 130				09/10/20 11:11	09/12/20 01:19	1

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

**Lab Sample ID: 410-12365-8**

Date Collected: 08/27/20 09:55

Matrix: Potable Water

Date Received: 08/28/20 15:42

**Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.9		1.9	0.49	ng/L		09/10/20 11:11	09/12/20 01:28	1
Perfluoroheptanoic acid	<1.9		1.9	0.49	ng/L		09/10/20 11:11	09/12/20 01:28	1
Perfluorooctanoic acid	<1.9		1.9	0.49	ng/L		09/10/20 11:11	09/12/20 01:28	1
Perfluorononanoic acid	<1.9		1.9	0.49	ng/L		09/10/20 11:11	09/12/20 01:28	1
Perfluorodecanoic acid	<1.9		1.9	0.49	ng/L		09/10/20 11:11	09/12/20 01:28	1
Perfluorotridecanoic acid	<1.9		1.9	0.49	ng/L		09/10/20 11:11	09/12/20 01:28	1
Perfluorotetradecanoic acid	<1.9		1.9	0.49	ng/L		09/10/20 11:11	09/12/20 01:28	1
Perfluorobutanesulfonic acid	<1.9		1.9	0.49	ng/L		09/10/20 11:11	09/12/20 01:28	1
Perfluorohexanesulfonic acid	<1.9		1.9	0.49	ng/L		09/10/20 11:11	09/12/20 01:28	1
Perfluorooctanesulfonic acid	<1.9		1.9	0.49	ng/L		09/10/20 11:11	09/12/20 01:28	1
NEtFOSAA	<1.9		1.9	0.49	ng/L		09/10/20 11:11	09/12/20 01:28	1
NMeFOSAA	<1.9		1.9	0.49	ng/L		09/10/20 11:11	09/12/20 01:28	1
Perfluoroundecanoic acid	<1.9		1.9	0.49	ng/L		09/10/20 11:11	09/12/20 01:28	1
Perfluorododecanoic acid	<1.9		1.9	0.49	ng/L		09/10/20 11:11	09/12/20 01:28	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
d5-NEtFOSAA	95		70 - 130				09/10/20 11:11	09/12/20 01:28	1
13C2 PFDA	84		70 - 130				09/10/20 11:11	09/12/20 01:28	1
13C2 PFHxA	90		70 - 130				09/10/20 11:11	09/12/20 01:28	1

# Client Sample Results

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

Job ID: 410-12365-1

**Client Sample ID: 7670061 301 Conley After Lag Vessel**

**Lab Sample ID: 410-12365-9**

Date Collected: 08/27/20 09:45

Matrix: Drinking Water

Date Received: 08/28/20 15:42

**Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Perfluorohexanoic acid</b>	<b>12</b>		1.8	0.44	ng/L		09/10/20 11:11	09/12/20 01:37	1
Perfluoroheptanoic acid	<1.8		1.8	0.44	ng/L		09/10/20 11:11	09/12/20 01:37	1
Perfluorooctanoic acid	<1.8		1.8	0.44	ng/L		09/10/20 11:11	09/12/20 01:37	1
Perfluorononanoic acid	<1.8		1.8	0.44	ng/L		09/10/20 11:11	09/12/20 01:37	1
Perfluorodecanoic acid	<1.8		1.8	0.44	ng/L		09/10/20 11:11	09/12/20 01:37	1
Perfluorotridecanoic acid	<1.8		1.8	0.44	ng/L		09/10/20 11:11	09/12/20 01:37	1
Perfluorotetradecanoic acid	<1.8		1.8	0.44	ng/L		09/10/20 11:11	09/12/20 01:37	1
<b>Perfluorobutanesulfonic acid</b>	<b>3.1</b>		1.8	0.44	ng/L		09/10/20 11:11	09/12/20 01:37	1
Perfluorohexanesulfonic acid	<1.8		1.8	0.44	ng/L		09/10/20 11:11	09/12/20 01:37	1
Perfluorooctanesulfonic acid	<1.8		1.8	0.44	ng/L		09/10/20 11:11	09/12/20 01:37	1
NEtFOSAA	<1.8		1.8	0.44	ng/L		09/10/20 11:11	09/12/20 01:37	1
NMeFOSAA	<1.8		1.8	0.44	ng/L		09/10/20 11:11	09/12/20 01:37	1
Perfluoroundecanoic acid	<1.8		1.8	0.44	ng/L		09/10/20 11:11	09/12/20 01:37	1
Perfluorododecanoic acid	<1.8		1.8	0.44	ng/L		09/10/20 11:11	09/12/20 01:37	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
d5-NEtFOSAA	95		70 - 130				09/10/20 11:11	09/12/20 01:37	1
13C2 PFDA	81		70 - 130				09/10/20 11:11	09/12/20 01:37	1
13C2 PFHxA	90		70 - 130				09/10/20 11:11	09/12/20 01:37	1

**Client Sample ID: 7670061 301 Conley After Lag Vessel FB**

**Lab Sample ID: 410-12365-10**

Date Collected: 08/27/20 09:45

Matrix: Potable Water

Date Received: 08/28/20 15:42

**Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.8		1.8	0.46	ng/L		09/10/20 11:11	09/12/20 01:46	1
Perfluoroheptanoic acid	<1.8		1.8	0.46	ng/L		09/10/20 11:11	09/12/20 01:46	1
Perfluorooctanoic acid	<1.8		1.8	0.46	ng/L		09/10/20 11:11	09/12/20 01:46	1
Perfluorononanoic acid	<1.8		1.8	0.46	ng/L		09/10/20 11:11	09/12/20 01:46	1
Perfluorodecanoic acid	<1.8		1.8	0.46	ng/L		09/10/20 11:11	09/12/20 01:46	1
Perfluorotridecanoic acid	<1.8		1.8	0.46	ng/L		09/10/20 11:11	09/12/20 01:46	1
Perfluorotetradecanoic acid	<1.8		1.8	0.46	ng/L		09/10/20 11:11	09/12/20 01:46	1
Perfluorobutanesulfonic acid	<1.8		1.8	0.46	ng/L		09/10/20 11:11	09/12/20 01:46	1
Perfluorohexanesulfonic acid	<1.8		1.8	0.46	ng/L		09/10/20 11:11	09/12/20 01:46	1
Perfluorooctanesulfonic acid	<1.8		1.8	0.46	ng/L		09/10/20 11:11	09/12/20 01:46	1
NEtFOSAA	<1.8		1.8	0.46	ng/L		09/10/20 11:11	09/12/20 01:46	1
NMeFOSAA	<1.8		1.8	0.46	ng/L		09/10/20 11:11	09/12/20 01:46	1
Perfluoroundecanoic acid	<1.8		1.8	0.46	ng/L		09/10/20 11:11	09/12/20 01:46	1
Perfluorododecanoic acid	<1.8		1.8	0.46	ng/L		09/10/20 11:11	09/12/20 01:46	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
d5-NEtFOSAA	97		70 - 130				09/10/20 11:11	09/12/20 01:46	1
13C2 PFDA	84		70 - 130				09/10/20 11:11	09/12/20 01:46	1
13C2 PFHxA	90		70 - 130				09/10/20 11:11	09/12/20 01:46	1

# Client Sample Results

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

Job ID: 410-12365-1

**Client Sample ID: 7670061 002 Coppersmith Well**

**Lab Sample ID: 410-12365-11**

Date Collected: 08/27/20 08:45

Matrix: Drinking Water

Date Received: 08/28/20 15:42

**Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	13		1.8	0.44	ng/L		09/10/20 11:11	09/12/20 02:06	1
Perfluoroheptanoic acid	4.9		1.8	0.44	ng/L		09/10/20 11:11	09/12/20 02:06	1
Perfluorooctanoic acid	6.5		1.8	0.44	ng/L		09/10/20 11:11	09/12/20 02:06	1
Perfluorononanoic acid	3.5		1.8	0.44	ng/L		09/10/20 11:11	09/12/20 02:06	1
Perfluorodecanoic acid	<1.8		1.8	0.44	ng/L		09/10/20 11:11	09/12/20 02:06	1
Perfluorotridecanoic acid	<1.8		1.8	0.44	ng/L		09/10/20 11:11	09/12/20 02:06	1
Perfluorotetradecanoic acid	<1.8		1.8	0.44	ng/L		09/10/20 11:11	09/12/20 02:06	1
Perfluorobutanesulfonic acid	6.7		1.8	0.44	ng/L		09/10/20 11:11	09/12/20 02:06	1
Perfluorohexanesulfonic acid	47		1.8	0.44	ng/L		09/10/20 11:11	09/12/20 02:06	1
Perfluorooctanesulfonic acid	49		1.8	0.44	ng/L		09/10/20 11:11	09/12/20 02:06	1
NEtFOSAA	<1.8		1.8	0.44	ng/L		09/10/20 11:11	09/12/20 02:06	1
NMeFOSAA	<1.8		1.8	0.44	ng/L		09/10/20 11:11	09/12/20 02:06	1
Perfluoroundecanoic acid	<1.8		1.8	0.44	ng/L		09/10/20 11:11	09/12/20 02:06	1
Perfluorododecanoic acid	<1.8		1.8	0.44	ng/L		09/10/20 11:11	09/12/20 02:06	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
d5-NEtFOSAA	96		70 - 130				09/10/20 11:11	09/12/20 02:06	1
13C2 PFDA	85		70 - 130				09/10/20 11:11	09/12/20 02:06	1
13C2 PFHxA	87		70 - 130				09/10/20 11:11	09/12/20 02:06	1

**Client Sample ID: 7670061 002 Coppersmith Well FB**

**Lab Sample ID: 410-12365-12**

Date Collected: 08/27/20 08:45

Matrix: Potable Water

Date Received: 08/28/20 15:42

**Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<2.1		2.1	0.52	ng/L		09/10/20 11:11	09/12/20 02:16	1
Perfluoroheptanoic acid	<2.1		2.1	0.52	ng/L		09/10/20 11:11	09/12/20 02:16	1
Perfluorooctanoic acid	<2.1		2.1	0.52	ng/L		09/10/20 11:11	09/12/20 02:16	1
Perfluorononanoic acid	<2.1		2.1	0.52	ng/L		09/10/20 11:11	09/12/20 02:16	1
Perfluorodecanoic acid	<2.1		2.1	0.52	ng/L		09/10/20 11:11	09/12/20 02:16	1
Perfluorotridecanoic acid	<2.1		2.1	0.52	ng/L		09/10/20 11:11	09/12/20 02:16	1
Perfluorotetradecanoic acid	<2.1		2.1	0.52	ng/L		09/10/20 11:11	09/12/20 02:16	1
Perfluorobutanesulfonic acid	<2.1		2.1	0.52	ng/L		09/10/20 11:11	09/12/20 02:16	1
Perfluorohexanesulfonic acid	<2.1		2.1	0.52	ng/L		09/10/20 11:11	09/12/20 02:16	1
Perfluorooctanesulfonic acid	<2.1		2.1	0.52	ng/L		09/10/20 11:11	09/12/20 02:16	1
NEtFOSAA	<2.1		2.1	0.52	ng/L		09/10/20 11:11	09/12/20 02:16	1
NMeFOSAA	<2.1		2.1	0.52	ng/L		09/10/20 11:11	09/12/20 02:16	1
Perfluoroundecanoic acid	<2.1		2.1	0.52	ng/L		09/10/20 11:11	09/12/20 02:16	1
Perfluorododecanoic acid	<2.1		2.1	0.52	ng/L		09/10/20 11:11	09/12/20 02:16	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
d5-NEtFOSAA	95		70 - 130				09/10/20 11:11	09/12/20 02:16	1
13C2 PFDA	88		70 - 130				09/10/20 11:11	09/12/20 02:16	1
13C2 PFHxA	93		70 - 130				09/10/20 11:11	09/12/20 02:16	1

# Client Sample Results

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

Job ID: 410-12365-1

**Client Sample ID: 7670061 003 DuPont Well**

**Lab Sample ID: 410-12365-13**

Date Collected: 08/27/20 09:25

Matrix: Drinking Water

Date Received: 08/28/20 15:42

**Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	6.1		1.8	0.46	ng/L		09/10/20 11:11	09/12/20 02:25	1
Perfluoroheptanoic acid	2.5		1.8	0.46	ng/L		09/10/20 11:11	09/12/20 02:25	1
Perfluorooctanoic acid	4.6		1.8	0.46	ng/L		09/10/20 11:11	09/12/20 02:25	1
Perfluorononanoic acid	<1.8		1.8	0.46	ng/L		09/10/20 11:11	09/12/20 02:25	1
Perfluorodecanoic acid	<1.8		1.8	0.46	ng/L		09/10/20 11:11	09/12/20 02:25	1
Perfluorotridecanoic acid	<1.8		1.8	0.46	ng/L		09/10/20 11:11	09/12/20 02:25	1
Perfluorotetradecanoic acid	<1.8		1.8	0.46	ng/L		09/10/20 11:11	09/12/20 02:25	1
Perfluorobutanesulfonic acid	5.0		1.8	0.46	ng/L		09/10/20 11:11	09/12/20 02:25	1
Perfluorohexanesulfonic acid	55		1.8	0.46	ng/L		09/10/20 11:11	09/12/20 02:25	1
Perfluorooctanesulfonic acid	41		1.8	0.46	ng/L		09/10/20 11:11	09/12/20 02:25	1
NEtFOSAA	<1.8		1.8	0.46	ng/L		09/10/20 11:11	09/12/20 02:25	1
NMeFOSAA	<1.8		1.8	0.46	ng/L		09/10/20 11:11	09/12/20 02:25	1
Perfluoroundecanoic acid	<1.8		1.8	0.46	ng/L		09/10/20 11:11	09/12/20 02:25	1
Perfluorododecanoic acid	<1.8		1.8	0.46	ng/L		09/10/20 11:11	09/12/20 02:25	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
d5-NEtFOSAA	93		70 - 130				09/10/20 11:11	09/12/20 02:25	1
13C2 PFDA	85		70 - 130				09/10/20 11:11	09/12/20 02:25	1
13C2 PFHxA	89		70 - 130				09/10/20 11:11	09/12/20 02:25	1

**Client Sample ID: 7670061 003 DuPont Well FB**

**Lab Sample ID: 410-12365-14**

Date Collected: 08/27/20 09:25

Matrix: Potable Water

Date Received: 08/28/20 15:42

**Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.9		1.9	0.48	ng/L		09/10/20 11:11	09/12/20 02:34	1
Perfluoroheptanoic acid	<1.9		1.9	0.48	ng/L		09/10/20 11:11	09/12/20 02:34	1
Perfluorooctanoic acid	<1.9		1.9	0.48	ng/L		09/10/20 11:11	09/12/20 02:34	1
Perfluorononanoic acid	<1.9		1.9	0.48	ng/L		09/10/20 11:11	09/12/20 02:34	1
Perfluorodecanoic acid	<1.9		1.9	0.48	ng/L		09/10/20 11:11	09/12/20 02:34	1
Perfluorotridecanoic acid	<1.9		1.9	0.48	ng/L		09/10/20 11:11	09/12/20 02:34	1
Perfluorotetradecanoic acid	<1.9		1.9	0.48	ng/L		09/10/20 11:11	09/12/20 02:34	1
Perfluorobutanesulfonic acid	<1.9		1.9	0.48	ng/L		09/10/20 11:11	09/12/20 02:34	1
Perfluorohexanesulfonic acid	<1.9		1.9	0.48	ng/L		09/10/20 11:11	09/12/20 02:34	1
Perfluorooctanesulfonic acid	<1.9		1.9	0.48	ng/L		09/10/20 11:11	09/12/20 02:34	1
NEtFOSAA	<1.9		1.9	0.48	ng/L		09/10/20 11:11	09/12/20 02:34	1
NMeFOSAA	<1.9		1.9	0.48	ng/L		09/10/20 11:11	09/12/20 02:34	1
Perfluoroundecanoic acid	<1.9		1.9	0.48	ng/L		09/10/20 11:11	09/12/20 02:34	1
Perfluorododecanoic acid	<1.9		1.9	0.48	ng/L		09/10/20 11:11	09/12/20 02:34	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
d5-NEtFOSAA	97		70 - 130				09/10/20 11:11	09/12/20 02:34	1
13C2 PFDA	89		70 - 130				09/10/20 11:11	09/12/20 02:34	1
13C2 PFHxA	92		70 - 130				09/10/20 11:11	09/12/20 02:34	1

# Client Sample Results

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

Job ID: 410-12365-1

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

**Lab Sample ID: 410-12365-15**

Date Collected: 08/27/20 09:10

Matrix: Drinking Water

Date Received: 08/28/20 15:42

**Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	27		1.9	0.46	ng/L		09/10/20 11:11	09/12/20 02:43	1
Perfluoroheptanoic acid	4.8		1.9	0.46	ng/L		09/10/20 11:11	09/12/20 02:43	1
Perfluorooctanoic acid	5.2		1.9	0.46	ng/L		09/10/20 11:11	09/12/20 02:43	1
Perfluorononanoic acid	1.9		1.9	0.46	ng/L		09/10/20 11:11	09/12/20 02:43	1
Perfluorodecanoic acid	<1.9		1.9	0.46	ng/L		09/10/20 11:11	09/12/20 02:43	1
Perfluorotridecanoic acid	<1.9		1.9	0.46	ng/L		09/10/20 11:11	09/12/20 02:43	1
Perfluorotetradecanoic acid	<1.9		1.9	0.46	ng/L		09/10/20 11:11	09/12/20 02:43	1
Perfluorobutanesulfonic acid	8.3		1.9	0.46	ng/L		09/10/20 11:11	09/12/20 02:43	1
Perfluorohexanesulfonic acid	48		1.9	0.46	ng/L		09/10/20 11:11	09/12/20 02:43	1
Perfluorooctanesulfonic acid	28		1.9	0.46	ng/L		09/10/20 11:11	09/12/20 02:43	1
NEtFOSAA	<1.9		1.9	0.46	ng/L		09/10/20 11:11	09/12/20 02:43	1
NMeFOSAA	<1.9		1.9	0.46	ng/L		09/10/20 11:11	09/12/20 02:43	1
Perfluoroundecanoic acid	<1.9		1.9	0.46	ng/L		09/10/20 11:11	09/12/20 02:43	1
Perfluorododecanoic acid	<1.9		1.9	0.46	ng/L		09/10/20 11:11	09/12/20 02:43	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
d5-NEtFOSAA	88		70 - 130				09/10/20 11:11	09/12/20 02:43	1
13C2 PFDA	81		70 - 130				09/10/20 11:11	09/12/20 02:43	1
13C2 PFHxA	86		70 - 130				09/10/20 11:11	09/12/20 02:43	1

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

**Lab Sample ID: 410-12365-16**

**FB**

Date Collected: 08/27/20 09:10

Matrix: Potable Water

Date Received: 08/28/20 15:42

**Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<1.9		1.9	0.47	ng/L		09/10/20 11:11	09/12/20 02:52	1
Perfluoroheptanoic acid	<1.9		1.9	0.47	ng/L		09/10/20 11:11	09/12/20 02:52	1
Perfluorooctanoic acid	<1.9		1.9	0.47	ng/L		09/10/20 11:11	09/12/20 02:52	1
Perfluorononanoic acid	<1.9		1.9	0.47	ng/L		09/10/20 11:11	09/12/20 02:52	1
Perfluorodecanoic acid	<1.9		1.9	0.47	ng/L		09/10/20 11:11	09/12/20 02:52	1
Perfluorotridecanoic acid	<1.9		1.9	0.47	ng/L		09/10/20 11:11	09/12/20 02:52	1
Perfluorotetradecanoic acid	<1.9		1.9	0.47	ng/L		09/10/20 11:11	09/12/20 02:52	1
Perfluorobutanesulfonic acid	<1.9		1.9	0.47	ng/L		09/10/20 11:11	09/12/20 02:52	1
Perfluorohexanesulfonic acid	<1.9		1.9	0.47	ng/L		09/10/20 11:11	09/12/20 02:52	1
Perfluorooctanesulfonic acid	<1.9		1.9	0.47	ng/L		09/10/20 11:11	09/12/20 02:52	1
NEtFOSAA	<1.9		1.9	0.47	ng/L		09/10/20 11:11	09/12/20 02:52	1
NMeFOSAA	<1.9		1.9	0.47	ng/L		09/10/20 11:11	09/12/20 02:52	1
Perfluoroundecanoic acid	<1.9		1.9	0.47	ng/L		09/10/20 11:11	09/12/20 02:52	1
Perfluorododecanoic acid	<1.9		1.9	0.47	ng/L		09/10/20 11:11	09/12/20 02:52	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
d5-NEtFOSAA	92		70 - 130				09/10/20 11:11	09/12/20 02:52	1
13C2 PFDA	82		70 - 130				09/10/20 11:11	09/12/20 02:52	1
13C2 PFHxA	86		70 - 130				09/10/20 11:11	09/12/20 02:52	1



# Client Sample Results

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

Job ID: 410-12365-1

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

**Lab Sample ID: 410-12365-17**

Date Collected: 08/27/20 09:20

Matrix: Drinking Water

Date Received: 08/28/20 15:42

**Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	19		1.8	0.45	ng/L		09/10/20 11:11	09/12/20 03:01	1
Perfluoroheptanoic acid	4.8		1.8	0.45	ng/L		09/10/20 11:11	09/12/20 03:01	1
Perfluorooctanoic acid	6.1		1.8	0.45	ng/L		09/10/20 11:11	09/12/20 03:01	1
Perfluorononanoic acid	2.6		1.8	0.45	ng/L		09/10/20 11:11	09/12/20 03:01	1
Perfluorodecanoic acid	<1.8		1.8	0.45	ng/L		09/10/20 11:11	09/12/20 03:01	1
Perfluorotridecanoic acid	<1.8		1.8	0.45	ng/L		09/10/20 11:11	09/12/20 03:01	1
Perfluorotetradecanoic acid	<1.8		1.8	0.45	ng/L		09/10/20 11:11	09/12/20 03:01	1
Perfluorobutanesulfonic acid	7.2		1.8	0.45	ng/L		09/10/20 11:11	09/12/20 03:01	1
Perfluorohexanesulfonic acid	54		1.8	0.45	ng/L		09/10/20 11:11	09/12/20 03:01	1
Perfluorooctanesulfonic acid	44		1.8	0.45	ng/L		09/10/20 11:11	09/12/20 03:01	1
NEtFOSAA	<1.8		1.8	0.45	ng/L		09/10/20 11:11	09/12/20 03:01	1
NMeFOSAA	<1.8		1.8	0.45	ng/L		09/10/20 11:11	09/12/20 03:01	1
Perfluoroundecanoic acid	<1.8		1.8	0.45	ng/L		09/10/20 11:11	09/12/20 03:01	1
Perfluorododecanoic acid	<1.8		1.8	0.45	ng/L		09/10/20 11:11	09/12/20 03:01	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
d5-NEtFOSAA	85		70 - 130				09/10/20 11:11	09/12/20 03:01	1
13C2 PFDA	80		70 - 130				09/10/20 11:11	09/12/20 03:01	1
13C2 PFHxA	88		70 - 130				09/10/20 11:11	09/12/20 03:01	1

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

**Lab Sample ID: 410-12365-18**

**FB**

Date Collected: 08/27/20 09:20

Matrix: Potable Water

Date Received: 08/28/20 15:42

**Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid	<2.0		2.0	0.49	ng/L		09/10/20 11:11	09/12/20 03:11	1
Perfluoroheptanoic acid	<2.0		2.0	0.49	ng/L		09/10/20 11:11	09/12/20 03:11	1
Perfluorooctanoic acid	<2.0		2.0	0.49	ng/L		09/10/20 11:11	09/12/20 03:11	1
Perfluorononanoic acid	<2.0		2.0	0.49	ng/L		09/10/20 11:11	09/12/20 03:11	1
Perfluorodecanoic acid	<2.0		2.0	0.49	ng/L		09/10/20 11:11	09/12/20 03:11	1
Perfluorotridecanoic acid	<2.0		2.0	0.49	ng/L		09/10/20 11:11	09/12/20 03:11	1
Perfluorotetradecanoic acid	<2.0		2.0	0.49	ng/L		09/10/20 11:11	09/12/20 03:11	1
Perfluorobutanesulfonic acid	<2.0		2.0	0.49	ng/L		09/10/20 11:11	09/12/20 03:11	1
Perfluorohexanesulfonic acid	<2.0		2.0	0.49	ng/L		09/10/20 11:11	09/12/20 03:11	1
Perfluorooctanesulfonic acid	<2.0		2.0	0.49	ng/L		09/10/20 11:11	09/12/20 03:11	1
NEtFOSAA	<2.0		2.0	0.49	ng/L		09/10/20 11:11	09/12/20 03:11	1
NMeFOSAA	<2.0		2.0	0.49	ng/L		09/10/20 11:11	09/12/20 03:11	1
Perfluoroundecanoic acid	<2.0		2.0	0.49	ng/L		09/10/20 11:11	09/12/20 03:11	1
Perfluorododecanoic acid	<2.0		2.0	0.49	ng/L		09/10/20 11:11	09/12/20 03:11	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
d5-NEtFOSAA	94		70 - 130				09/10/20 11:11	09/12/20 03:11	1
13C2 PFDA	83		70 - 130				09/10/20 11:11	09/12/20 03:11	1
13C2 PFHxA	89		70 - 130				09/10/20 11:11	09/12/20 03:11	1

# Surrogate Summary

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

Job ID: 410-12365-1

## Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Matrix: Drinking Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		d5NEFOS (70-130)	PFDA (70-130)	PFHxA (70-130)
410-12365-1	7670061 001 Playground Well	89	78	85
410-12365-3	7670061 005 Conley Well	92	87	90
410-12365-5	7670061 301 Conley Between Lead & Lag	86	82	91
410-12365-7	7670061 301 Conley Lead Vessel 1/2 Way	89	85	92
410-12365-9	7670061 301 Conley After Lag Vessel	95	81	90
410-12365-11	7670061 002 Coppersmith Well	96	85	87
410-12365-13	7670061 003 DuPont Well	93	85	89
410-12365-15	7670061 302 DuPont Between Lead & Lag	88	81	86
410-12365-17	7670061 302 DuPont Lead Vessel 1/2 Way	85	80	88
LCS 410-42543/2-A	Lab Control Sample	91	85	91
LCSD 410-42543/3-A	Lab Control Sample Dup	95	87	94
LLCS 410-42543/4-A	Lab Control Sample	97	85	91
MB 410-42543/1-A	Method Blank	93	90	93

**Surrogate Legend**  
 d5NEFOS = d5-NEtFOSAA  
 PFDA = 13C2 PFDA  
 PFHxA = 13C2 PFHxA

## Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

Matrix: Potable Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		d5NEFOS (70-130)	PFDA (70-130)	PFHxA (70-130)
410-12365-2	7670061 001 Playground Well F	98	88	94
410-12365-4	7670061 005 Conley Well FB	96	85	91
410-12365-6	7670061 301 Conley Between Lead & Lag FB	97	86	93
410-12365-8	7670061 301 Conley Lead Vessel 1/2 Way FB	95	84	90
410-12365-10	7670061 301 Conley After Lag Vessel FB	97	84	90
410-12365-12	7670061 002 Coppersmith Well FB	95	88	93
410-12365-14	7670061 003 DuPont Well FB	97	89	92
410-12365-16	7670061 302 DuPont Between Lead & Lag FB	92	82	86
410-12365-18	7670061 302 DuPont Lead Vessel 1/2 Way FB	94	83	89

**Surrogate Legend**  
 d5NEFOS = d5-NEtFOSAA  
 PFDA = 13C2 PFDA  
 PFHxA = 13C2 PFHxA

# QC Sample Results

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

Job ID: 410-12365-1

## Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1

**Lab Sample ID: MB 410-42543/1-A**  
**Matrix: Drinking Water**  
**Analysis Batch: 42943**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 42543**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorohexanoic acid	<2.0		2.0	0.50	ng/L		09/10/20 11:11	09/11/20 23:47	1
Perfluoroheptanoic acid	<2.0		2.0	0.50	ng/L		09/10/20 11:11	09/11/20 23:47	1
Perfluorooctanoic acid	<2.0		2.0	0.50	ng/L		09/10/20 11:11	09/11/20 23:47	1
Perfluorononanoic acid	<2.0		2.0	0.50	ng/L		09/10/20 11:11	09/11/20 23:47	1
Perfluorodecanoic acid	<2.0		2.0	0.50	ng/L		09/10/20 11:11	09/11/20 23:47	1
Perfluorotridecanoic acid	<2.0		2.0	0.50	ng/L		09/10/20 11:11	09/11/20 23:47	1
Perfluorotetradecanoic acid	<2.0		2.0	0.50	ng/L		09/10/20 11:11	09/11/20 23:47	1
Perfluorobutanesulfonic acid	<2.0		2.0	0.50	ng/L		09/10/20 11:11	09/11/20 23:47	1
Perfluorohexanesulfonic acid	<2.0		2.0	0.50	ng/L		09/10/20 11:11	09/11/20 23:47	1
Perfluorooctanesulfonic acid	<2.0		2.0	0.50	ng/L		09/10/20 11:11	09/11/20 23:47	1
NEtFOSAA	<2.0		2.0	0.50	ng/L		09/10/20 11:11	09/11/20 23:47	1
NMeFOSAA	<2.0		2.0	0.50	ng/L		09/10/20 11:11	09/11/20 23:47	1
Perfluoroundecanoic acid	<2.0		2.0	0.50	ng/L		09/10/20 11:11	09/11/20 23:47	1
Perfluorododecanoic acid	<2.0		2.0	0.50	ng/L		09/10/20 11:11	09/11/20 23:47	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
d5-NEtFOSAA	93		70 - 130	09/10/20 11:11	09/11/20 23:47	1
13C2 PFDA	90		70 - 130	09/10/20 11:11	09/11/20 23:47	1
13C2 PFHxA	93		70 - 130	09/10/20 11:11	09/11/20 23:47	1

**Lab Sample ID: LCS 410-42543/2-A**  
**Matrix: Drinking Water**  
**Analysis Batch: 42943**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 42543**

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Perfluorohexanoic acid	80.0	76.3		ng/L		95	70 - 130
Perfluoroheptanoic acid	80.0	74.3		ng/L		93	70 - 130
Perfluorooctanoic acid	80.0	77.9		ng/L		97	70 - 130
Perfluorononanoic acid	80.0	74.8		ng/L		94	70 - 130
Perfluorodecanoic acid	80.0	72.9		ng/L		91	70 - 130
Perfluorotridecanoic acid	80.0	76.3		ng/L		95	70 - 130
Perfluorotetradecanoic acid	80.0	71.8		ng/L		90	70 - 130
Perfluorobutanesulfonic acid	70.8	69.9		ng/L		99	70 - 130
Perfluorohexanesulfonic acid	73.0	71.7		ng/L		98	70 - 130
Perfluorooctanesulfonic acid	74.0	72.6		ng/L		98	70 - 130
NEtFOSAA	80.0	81.3	E	ng/L		102	70 - 130
NMeFOSAA	80.0	78.7		ng/L		98	70 - 130
Perfluoroundecanoic acid	80.0	80.1	E	ng/L		100	70 - 130
Perfluorododecanoic acid	80.0	83.2	E	ng/L		104	70 - 130

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
d5-NEtFOSAA	91		70 - 130
13C2 PFDA	85		70 - 130
13C2 PFHxA	91		70 - 130

# QC Sample Results

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

Job ID: 410-12365-1

## Method: EPA 537 Ver 1.1 - EPA 537 Version 1.1 (Continued)

**Lab Sample ID: LCSD 410-42543/3-A**  
**Matrix: Drinking Water**  
**Analysis Batch: 42943**

**Client Sample ID: Lab Control Sample Dup**  
**Prep Type: Total/NA**  
**Prep Batch: 42543**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorohexanoic acid	80.0	77.3		ng/L		97	70 - 130	1	30
Perfluoroheptanoic acid	80.0	74.3		ng/L		93	70 - 130	0	30
Perfluorooctanoic acid	80.0	77.6		ng/L		97	70 - 130	0	30
Perfluorononanoic acid	80.0	76.0		ng/L		95	70 - 130	1	30
Perfluorodecanoic acid	80.0	73.2		ng/L		91	70 - 130	0	30
Perfluorotridecanoic acid	80.0	78.8		ng/L		99	70 - 130	3	30
Perfluorotetradecanoic acid	80.0	74.6		ng/L		93	70 - 130	4	30
Perfluorobutanesulfonic acid	70.8	71.7	E	ng/L		101	70 - 130	3	30
Perfluorohexanesulfonic acid	73.0	72.1		ng/L		99	70 - 130	1	30
Perfluorooctanesulfonic acid	74.0	72.9		ng/L		98	70 - 130	0	30
NEtFOSAA	80.0	83.8	E	ng/L		105	70 - 130	3	30
NMeFOSAA	80.0	81.0	E	ng/L		101	70 - 130	3	30
Perfluoroundecanoic acid	80.0	79.9		ng/L		100	70 - 130	0	30
Perfluorododecanoic acid	80.0	86.5	E	ng/L		108	70 - 130	4	30

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
d5-NEtFOSAA	95		70 - 130
13C2 PFDA	87		70 - 130
13C2 PFHxA	94		70 - 130

**Lab Sample ID: LLCS 410-42543/4-A**  
**Matrix: Drinking Water**  
**Analysis Batch: 42943**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 42543**

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorohexanoic acid	1.92	1.82	J	ng/L		95	50 - 150		
Perfluoroheptanoic acid	1.92	1.71	J	ng/L		89	50 - 150		
Perfluorooctanoic acid	1.92	1.79	J	ng/L		93	50 - 150		
Perfluorononanoic acid	1.92	1.78	J	ng/L		93	50 - 150		
Perfluorodecanoic acid	1.92	1.78	J	ng/L		93	50 - 150		
Perfluorotridecanoic acid	1.92	1.78	J	ng/L		93	50 - 150		
Perfluorotetradecanoic acid	1.92	1.73	J	ng/L		90	50 - 150		
Perfluorobutanesulfonic acid	1.70	1.58	J	ng/L		93	50 - 150		
Perfluorohexanesulfonic acid	1.75	1.61	J	ng/L		92	50 - 150		
Perfluorooctanesulfonic acid	1.78	1.74	J	ng/L		98	50 - 150		
NEtFOSAA	1.92	2.09		ng/L		109	50 - 150		
NMeFOSAA	1.92	1.97	J	ng/L		103	50 - 150		
Perfluoroundecanoic acid	1.92	1.81	J	ng/L		94	50 - 150		
Perfluorododecanoic acid	1.92	1.89	J	ng/L		99	50 - 150		

Surrogate	LLCS LLCS		Limits
	%Recovery	Qualifier	
d5-NEtFOSAA	97		70 - 130
13C2 PFDA	85		70 - 130
13C2 PFHxA	91		70 - 130

# QC Association Summary

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

Job ID: 410-12365-1

## LCMS

### Prep Batch: 42543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12365-1	7670061 001 Playground Well	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-12365-2	7670061 001 Playground Well FB	Total/NA	Potable Water	EPA 537 Ver 1.1	
410-12365-3	7670061 005 Conley Well	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-12365-4	7670061 005 Conley Well FB	Total/NA	Potable Water	EPA 537 Ver 1.1	
410-12365-5	7670061 301 Conley Between Lead & Lag	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-12365-6	7670061 301 Conley Between Lead & Lag FB	Total/NA	Potable Water	EPA 537 Ver 1.1	
410-12365-7	7670061 301 Conley Lead Vessel 1/2 Way	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-12365-8	7670061 301 Conley Lead Vessel 1/2 Way FB	Total/NA	Potable Water	EPA 537 Ver 1.1	
410-12365-9	7670061 301 Conley After Lag Vessel	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-12365-10	7670061 301 Conley After Lag Vessel FB	Total/NA	Potable Water	EPA 537 Ver 1.1	
410-12365-11	7670061 002 Coppersmith Well	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-12365-12	7670061 002 Coppersmith Well FB	Total/NA	Potable Water	EPA 537 Ver 1.1	
410-12365-13	7670061 003 DuPont Well	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-12365-14	7670061 003 DuPont Well FB	Total/NA	Potable Water	EPA 537 Ver 1.1	
410-12365-15	7670061 302 DuPont Between Lead & Lag	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-12365-16	7670061 302 DuPont Between Lead & Lag FB	Total/NA	Potable Water	EPA 537 Ver 1.1	
410-12365-17	7670061 302 DuPont Lead Vessel 1/2 Way	Total/NA	Drinking Water	EPA 537 Ver 1.1	
410-12365-18	7670061 302 DuPont Lead Vessel 1/2 Way FB	Total/NA	Potable Water	EPA 537 Ver 1.1	
MB 410-42543/1-A	Method Blank	Total/NA	Drinking Water	EPA 537 Ver 1.1	
LCS 410-42543/2-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537 Ver 1.1	
LCSD 410-42543/3-A	Lab Control Sample Dup	Total/NA	Drinking Water	EPA 537 Ver 1.1	
LLCS 410-42543/4-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537 Ver 1.1	

### Analysis Batch: 42943

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-12365-1	7670061 001 Playground Well	Total/NA	Drinking Water	EPA 537 Ver 1.1	42543
410-12365-2	7670061 001 Playground Well FB	Total/NA	Potable Water	EPA 537 Ver 1.1	42543
410-12365-3	7670061 005 Conley Well	Total/NA	Drinking Water	EPA 537 Ver 1.1	42543
410-12365-4	7670061 005 Conley Well FB	Total/NA	Potable Water	EPA 537 Ver 1.1	42543
410-12365-5	7670061 301 Conley Between Lead & Lag	Total/NA	Drinking Water	EPA 537 Ver 1.1	42543
410-12365-6	7670061 301 Conley Between Lead & Lag FB	Total/NA	Potable Water	EPA 537 Ver 1.1	42543
410-12365-7	7670061 301 Conley Lead Vessel 1/2 Way	Total/NA	Drinking Water	EPA 537 Ver 1.1	42543
410-12365-8	7670061 301 Conley Lead Vessel 1/2 Way FB	Total/NA	Potable Water	EPA 537 Ver 1.1	42543
410-12365-9	7670061 301 Conley After Lag Vessel	Total/NA	Drinking Water	EPA 537 Ver 1.1	42543
410-12365-10	7670061 301 Conley After Lag Vessel FB	Total/NA	Potable Water	EPA 537 Ver 1.1	42543
410-12365-11	7670061 002 Coppersmith Well	Total/NA	Drinking Water	EPA 537 Ver 1.1	42543
410-12365-12	7670061 002 Coppersmith Well FB	Total/NA	Potable Water	EPA 537 Ver 1.1	42543
410-12365-13	7670061 003 DuPont Well	Total/NA	Drinking Water	EPA 537 Ver 1.1	42543
410-12365-14	7670061 003 DuPont Well FB	Total/NA	Potable Water	EPA 537 Ver 1.1	42543
410-12365-15	7670061 302 DuPont Between Lead & Lag	Total/NA	Drinking Water	EPA 537 Ver 1.1	42543
410-12365-16	7670061 302 DuPont Between Lead & Lag FB	Total/NA	Potable Water	EPA 537 Ver 1.1	42543
410-12365-17	7670061 302 DuPont Lead Vessel 1/2 Way	Total/NA	Drinking Water	EPA 537 Ver 1.1	42543
410-12365-18	7670061 302 DuPont Lead Vessel 1/2 Way FB	Total/NA	Potable Water	EPA 537 Ver 1.1	42543
MB 410-42543/1-A	Method Blank	Total/NA	Drinking Water	EPA 537 Ver 1.1	42543
LCS 410-42543/2-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537 Ver 1.1	42543
LCSD 410-42543/3-A	Lab Control Sample Dup	Total/NA	Drinking Water	EPA 537 Ver 1.1	42543
LLCS 410-42543/4-A	Lab Control Sample	Total/NA	Drinking Water	EPA 537 Ver 1.1	42543

# Lab Chronicle

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

Job ID: 410-12365-1

**Client Sample ID: 7670061 001 Playground Well**

**Lab Sample ID: 410-12365-1**

Date Collected: 08/27/20 10:05

Matrix: Drinking Water

Date Received: 08/28/20 15:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			42543	09/10/20 11:11	Q5YX	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	42943	09/12/20 00:25	DCS9	ELLE

**Client Sample ID: 7670061 001 Playground Well FB**

**Lab Sample ID: 410-12365-2**

Date Collected: 08/27/20 10:05

Matrix: Potable Water

Date Received: 08/28/20 15:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			42543	09/10/20 11:11	Q5YX	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	42943	09/12/20 00:34	DCS9	ELLE

**Client Sample ID: 7670061 005 Conley Well**

**Lab Sample ID: 410-12365-3**

Date Collected: 08/27/20 10:10

Matrix: Drinking Water

Date Received: 08/28/20 15:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			42543	09/10/20 11:11	Q5YX	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	42943	09/12/20 00:43	DCS9	ELLE

**Client Sample ID: 7670061 005 Conley Well FB**

**Lab Sample ID: 410-12365-4**

Date Collected: 08/27/20 10:10

Matrix: Potable Water

Date Received: 08/28/20 15:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			42543	09/10/20 11:11	Q5YX	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	42943	09/12/20 00:52	DCS9	ELLE

**Client Sample ID: 7670061 301 Conley Between Lead & Lag**

**Lab Sample ID: 410-12365-5**

Date Collected: 08/27/20 09:50

Matrix: Drinking Water

Date Received: 08/28/20 15:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			42543	09/10/20 11:11	Q5YX	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	42943	09/12/20 01:01	DCS9	ELLE

**Client Sample ID: 7670061 301 Conley Between Lead & Lag FB**

**Lab Sample ID: 410-12365-6**

Date Collected: 08/27/20 09:50

Matrix: Potable Water

Date Received: 08/28/20 15:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			42543	09/10/20 11:11	Q5YX	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	42943	09/12/20 01:10	DCS9	ELLE

# Lab Chronicle

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

Job ID: 410-12365-1

**Client Sample ID: 7670061 301 Conley Lead Vessel 1/2 Way**  
Date Collected: 08/27/20 09:55  
Date Received: 08/28/20 15:42

**Lab Sample ID: 410-12365-7**  
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			42543	09/10/20 11:11	Q5YX	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	42943	09/12/20 01:19	DCS9	ELLE

**Client Sample ID: 7670061 301 Conley Lead Vessel 1/2 Way FB**  
Date Collected: 08/27/20 09:55  
Date Received: 08/28/20 15:42

**Lab Sample ID: 410-12365-8**  
Matrix: Potable Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			42543	09/10/20 11:11	Q5YX	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	42943	09/12/20 01:28	DCS9	ELLE

**Client Sample ID: 7670061 301 Conley After Lag Vessel**  
Date Collected: 08/27/20 09:45  
Date Received: 08/28/20 15:42

**Lab Sample ID: 410-12365-9**  
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			42543	09/10/20 11:11	Q5YX	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	42943	09/12/20 01:37	DCS9	ELLE

**Client Sample ID: 7670061 301 Conley After Lag Vessel FB**  
Date Collected: 08/27/20 09:45  
Date Received: 08/28/20 15:42

**Lab Sample ID: 410-12365-10**  
Matrix: Potable Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			42543	09/10/20 11:11	Q5YX	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	42943	09/12/20 01:46	DCS9	ELLE

**Client Sample ID: 7670061 002 Coppersmith Well**  
Date Collected: 08/27/20 08:45  
Date Received: 08/28/20 15:42

**Lab Sample ID: 410-12365-11**  
Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			42543	09/10/20 11:11	Q5YX	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	42943	09/12/20 02:06	DCS9	ELLE

**Client Sample ID: 7670061 002 Coppersmith Well FB**  
Date Collected: 08/27/20 08:45  
Date Received: 08/28/20 15:42

**Lab Sample ID: 410-12365-12**  
Matrix: Potable Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			42543	09/10/20 11:11	Q5YX	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	42943	09/12/20 02:16	DCS9	ELLE

# Lab Chronicle

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

Job ID: 410-12365-1

**Client Sample ID: 7670061 003 DuPont Well**

**Lab Sample ID: 410-12365-13**

Date Collected: 08/27/20 09:25

Matrix: Drinking Water

Date Received: 08/28/20 15:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			42543	09/10/20 11:11	Q5YX	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	42943	09/12/20 02:25	DCS9	ELLE

**Client Sample ID: 7670061 003 DuPont Well FB**

**Lab Sample ID: 410-12365-14**

Date Collected: 08/27/20 09:25

Matrix: Potable Water

Date Received: 08/28/20 15:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			42543	09/10/20 11:11	Q5YX	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	42943	09/12/20 02:34	DCS9	ELLE

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

**Lab Sample ID: 410-12365-15**

Date Collected: 08/27/20 09:10

Matrix: Drinking Water

Date Received: 08/28/20 15:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			42543	09/10/20 11:11	Q5YX	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	42943	09/12/20 02:43	DCS9	ELLE

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

**Lab Sample ID: 410-12365-16**

Date Collected: 08/27/20 09:10

Matrix: Potable Water

Date Received: 08/28/20 15:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			42543	09/10/20 11:11	Q5YX	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	42943	09/12/20 02:52	DCS9	ELLE

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

**Lab Sample ID: 410-12365-17**

Date Collected: 08/27/20 09:20

Matrix: Drinking Water

Date Received: 08/28/20 15:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			42543	09/10/20 11:11	Q5YX	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	42943	09/12/20 03:01	DCS9	ELLE

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

**Lab Sample ID: 410-12365-18**

Date Collected: 08/27/20 09:20

Matrix: Potable Water

Date Received: 08/28/20 15:42

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	EPA 537 Ver 1.1			42543	09/10/20 11:11	Q5YX	ELLE
Total/NA	Analysis	EPA 537 Ver 1.1		1	42943	09/12/20 03:11	DCS9	ELLE



# Lab Chronicle

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

Job ID: 410-12365-1

**Laboratory References:**

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

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# Accreditation/Certification Summary

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

Job ID: 410-12365-1

## 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	01-31-21

- 1
- 2
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# Method Summary

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

Job ID: 410-12365-1

Method	Method Description	Protocol	Laboratory
EPA 537 Ver 1.1	EPA 537 Version 1.1	EPA	ELLE
EPA 537 Ver 1.1	EPA 537 Version 1.1	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: 410-12365-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
410-12365-1	7670061 001 Playground Well	Drinking Water	08/27/20 10:05	08/28/20 15:42	
410-12365-2	7670061 001 Playground Well FB	Potable Water	08/27/20 10:05	08/28/20 15:42	
410-12365-3	7670061 005 Conley Well	Drinking Water	08/27/20 10:10	08/28/20 15:42	
410-12365-4	7670061 005 Conley Well FB	Potable Water	08/27/20 10:10	08/28/20 15:42	
410-12365-5	7670061 301 Conley Between Lead & Lag	Drinking Water	08/27/20 09:50	08/28/20 15:42	
410-12365-6	7670061 301 Conley Between Lead & Lag FB	Potable Water	08/27/20 09:50	08/28/20 15:42	
410-12365-7	7670061 301 Conley Lead Vessel 1/2 Way	Drinking Water	08/27/20 09:55	08/28/20 15:42	
410-12365-8	7670061 301 Conley Lead Vessel 1/2 Way FB	Potable Water	08/27/20 09:55	08/28/20 15:42	
410-12365-9	7670061 301 Conley After Lag Vessel	Drinking Water	08/27/20 09:45	08/28/20 15:42	
410-12365-10	7670061 301 Conley After Lag Vessel FB	Potable Water	08/27/20 09:45	08/28/20 15:42	
410-12365-11	7670061 002 Coppersmith Well	Drinking Water	08/27/20 08:45	08/28/20 15:42	
410-12365-12	7670061 002 Coppersmith Well FB	Potable Water	08/27/20 08:45	08/28/20 15:42	
410-12365-13	7670061 003 DuPont Well	Drinking Water	08/27/20 09:25	08/28/20 15:42	
410-12365-14	7670061 003 DuPont Well FB	Potable Water	08/27/20 09:25	08/28/20 15:42	
410-12365-15	7670061 302 DuPont Between Lead & Lag	Drinking Water	08/27/20 09:10	08/28/20 15:42	
410-12365-16	7670061 302 DuPont Between Lead & Lag FB	Potable Water	08/27/20 09:10	08/28/20 15:42	
410-12365-17	7670061 302 DuPont Lead Vessel 1/2 Way	Drinking Water	08/27/20 09:20	08/28/20 15:42	
410-12365-18	7670061 302 DuPont Lead Vessel 1/2 Way FB	Potable Water	08/27/20 09:20	08/28/20 15:42	





Lancaster Laboratories  
Environmental



410-12365 Chain of Custody

# Analysis Request/Chain of Custody

Sample # \_\_\_\_\_

Client: <b>SUEZ WATER PA</b>		Matrix		Analyses Requested								For Lab Use Only							
Project Name: Newberry System		Site ID #:		<input type="checkbox"/> Tissue		<input checked="" type="checkbox"/> Ground		<input type="checkbox"/> Surface		Preservation and Filtration Codes								SF #: _____	
Project Manager: Elizabeth Zanar		P.O. #:		<input type="checkbox"/> Potable		<input type="checkbox"/> NPDES		Other: GAC Filtered Water		O								SCR #: _____	
Sampler: Penny Bumbarger		PWSID #: 7670061		<input type="checkbox"/> Soil		<input type="checkbox"/> Water		Total # of Containers		PFAS (14) 537 v 1.1								Preservation Codes H = HCl      T = Thiosulfate N = HNO <sub>3</sub> B = NaOH S = H <sub>2</sub> SO <sub>4</sub> P = H <sub>3</sub> PO <sub>4</sub> F = Field Filtered    O = Other	
Phone #: 717-773-0185		Quote #: 219948A		<input type="checkbox"/> Sediment		<input type="checkbox"/> NPDES		PFAS (14) 537 v 1.1										Remarks	
State where samples were collected: PA		For Compliance: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		<input type="checkbox"/> Composite		<input type="checkbox"/> Other: GAC Filtered Water		PFAS (14) 537 v 1.1										Monthly Compliance	
Sample Identification		Date	Time	Grab	Composite	Soil	Water	Other: GAC Filtered Water	Total # of Containers	PFAS (14) 537 v 1.1									
001 Playground Well		8/27/20	1005	X			X		2	X									
FB - Playground Well		8/27/20	1005						2	X									
005 Conley Well		8/27/20	1010	X			X		2	X									
FB - Conley Well		8/27/20	1010						2	X									
301s Conley Between Lead and Lag		8/27/20	0950	X				X	2	X									
FB - Conley Between Lead and Lag		8/27/20	0950						2	X									
301s Conley Lead Vessel Halfway Port		8/27/20	0955	X				X	2	X									
FB - Conley Lead Vessel Halfway Port		8/27/20	0955						2	X									
301s Conley After Lag		8/27/20	0945	X				X	2	X									
FB - Conley After Lag		8/27/20	0945						2	X									
Turnaround Time Requested (TAT) (please check):				Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>		Relinquished by:		Date		Time		Received by:		Date		Time			
(Rush TAT is subject to laboratory approval and surcharges.)						Penny Bumbarger		8/28/20		1100		[Signature]		8/28/20		1602			
Date results are needed:						Relinquished by:		Date		Time		Received by:		Date		Time			
Rush results requested by (please check):				E-Mail <input checked="" type="checkbox"/> Phone <input type="checkbox"/>		[Signature]		8/28/20		1535									
E-mail Address: penny.bumbarger@suez.com						Relinquished by:		Date		Time		Received by:		Date		Time			
Phone: 717-773-0185						[Signature]													
Data Package Options (please check if required)						Relinquished by:		Date		Time		Received by:		Date		Time			
Type I (Validation/non-CLP) <input type="checkbox"/>		MA MCP <input type="checkbox"/>				Relinquished by:		Date		Time		Received by:		Date		Time			
Type III (Reduced non-CLP) <input type="checkbox"/>		CT RCP <input type="checkbox"/>				[Signature]								8/28/20		1540			
Type VI (Raw Data Only) <input type="checkbox"/>		TX TRRP-13 <input type="checkbox"/>				Relinquished by Commercial Carrier:													
NJ DKQP <input type="checkbox"/>		NYSDEC Category <input type="checkbox"/>		A or B <input type="checkbox"/>		UPS _____ FedEx _____ Other _____						Temperature upon receipt		1.1-1.2 °C					
EDD Required? Yes <input type="checkbox"/> No <input type="checkbox"/>				If yes, format: _____															

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# Environmental Analysis Request/Chain of Custody



Lancaster Laboratories  
Environmental

Acct. # 44297 Group # \_\_\_\_\_

Sample # \_\_\_\_\_

Client: <b>SUEZ WATER PA</b>		Project Name: Newberry System		Site ID #:		Matrix		Analyses Requested						For Lab Use Only		
Project Manager: Elizabeth Zanar		P.O. #:		PWSID #: 7670061		<input type="checkbox"/> Tissue <input checked="" type="checkbox"/> Ground <input type="checkbox"/> Surface		Preservation and Filtration Codes						SF #: _____		
Sampler: Penny Bumbarger		P.O. #:		Quote #: 219948A		<input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Other: GAC Filtered Water								O		SCR #: _____
Phone #: 717-773-0185		State where samples were collected: PA		For Compliance: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Soil <input type="checkbox"/> Sediment <input type="checkbox"/>		Total # of Containers		PFAS (14) 537 v 1.1		Preservation Codes H = HCl      T = Thiosulfate N = HNO <sub>3</sub> B = NaOH S = H <sub>2</sub> SO <sub>4</sub> P = H <sub>3</sub> PO <sub>4</sub> F = Field Filtered      O = Other				
Sample Identification		Collection		Grab	Composite	Water	Other:	Total # of Containers	PFAS (14) 537 v 1.1	Analyses Requested						Remarks
		Date	Time							Preservation and Filtration Codes						
002 Coppersmith Well		8/27/20	0845	X		X		2	X							
FB - Coppersmith Well		8/27/20	0845					2	X							
003 DuPont Well		8/27/20	0925	X		X		2	X							
FB - DuPont Well		8/27/20	0925					2	X							
302s DuPont Between Lead and Lag		8/27/20	0910	X			X	2	X							
FB - DuPont Between Lead and Lag		8/27/20	0910					2	X							
302s DuPont Lead Vessel Halfway Port		8/27/20	0920	X			X	2	X							
FB - DuPont Lead Vessel Halfway Port		8/27/20	0920					2	X							
302s DuPont After Lag		8/27/20	0915	X			X	2	X							
FB - DuPont After Lag		8/27/20	0915					2	X							
Turnaround Time Requested (TAT) (please check):				Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>		Relinquished by:		Date	Time	Received by:		Date	Time			
(Rush TAT is subject to laboratory approval and surcharges.)						<i>Penny Bumbarger</i>		8/28/20	1100	<i>Robert Dieck</i>		8/28/20	1102			
Date results are needed:						Relinquished by:		Date	Time	Received by:		Date	Time			
Rush results requested by (please check):				E-Mail <input checked="" type="checkbox"/> Phone <input type="checkbox"/>		<i>Robert Dieck</i>		8/28/20	1535							
E-mail Address: penny.bumbarger@suez.com				Phone: 717-773-0185		Relinquished by:		Date	Time	Received by:		Date	Time			
Data Package Options (please check if required)						Relinquished by:		Date	Time	Received by:		Date	Time			
Type I (Validation/non-CLP)	<input type="checkbox"/>	MA MCP	<input type="checkbox"/>			Relinquished by:		Date	Time	Received by:		Date	Time			
Type III (Reduced non-CLP)	<input type="checkbox"/>	CT RCP	<input type="checkbox"/>			Relinquished by:		Date	Time	Received by:		Date	Time			
Type VI (Raw Data Only)	<input type="checkbox"/>	TX TRRP-13	<input type="checkbox"/>			Relinquished by:		Date	Time	Received by:		Date	Time			
NJ DKQP	<input type="checkbox"/>	NYSDEC Category	<input type="checkbox"/>	A or B		Relinquished by Commercial Carrier:				Received by:		Date	Time			
EDD Required?	Yes <input type="checkbox"/> No <input type="checkbox"/>	If yes, format: _____				UPS _____ FedEx _____ Other _____				Temperature upon receipt		1.1-1.2 °C				

# Environmental Analysis Request/Chain of Custody



Lancaster Laboratories  
Environmental

Acct. # 44297 Group # \_\_\_\_\_ Sample # \_\_\_\_\_

Client: <b>SUEZ WATER PA</b>				<b>Matrix</b>			<b>Analyses Requested</b>						<b>For Lab Use Only</b>		
Project Name: Newberry System		Site ID #:		<input type="checkbox"/> Tissue	<input type="checkbox"/> Ground	<input type="checkbox"/> Surface	<b>Preservation and Filtration Codes</b>						SF #: _____		
Project Manager: Elizabeth Zanar		P.O. #:		<input type="checkbox"/> Potable	<input checked="" type="checkbox"/> Water	<input type="checkbox"/> NPDES	O						SCR #: _____		
Sampler: Penny Bumbarger		PWSID #: 7670061		<input type="checkbox"/> Sediment	<input type="checkbox"/> Other: GAC Filtered Water	Total # of Containers							PFAS (14) 537 v 1.1		
Phone #: 717-773-0185		Quote #: 219948A		<input type="checkbox"/> Soil	<input type="checkbox"/> Composite										
State where samples were collected: PA		For Compliance: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		<b>Collection</b>										<b>Remarks</b>	
		Date	Time	Grab	Composite									<b>Monthly Compliance</b>	
Sample Identification															
EP 101 Conley		8/27/20	0940	X											
FB - EP 101 Conley		8/27/20	0940												
EP 102 DuPont		8/27/20	0905	X											
FB - EP 102 DuPont		8/27/20	0905												
Turnaround Time Requested (TAT) (please check):				Standard <input checked="" type="checkbox"/>	Rush <input type="checkbox"/>	Relinquished by:		Date	Time	Received by:		Date	Time		
(Rush TAT is subject to laboratory approval and surcharges.)						<i>Penny Bumbarger</i>		8/28/20	1100	<i>Paula D. [Signature]</i>		8/28/20	1102		
Date results are needed:						Relinquished by:		Date	Time	Received by:		Date	Time		
Rush results requested by (please check):				E-Mail <input checked="" type="checkbox"/>	Phone <input type="checkbox"/>	<i>Paula D. [Signature]</i>		8/28/20	1535						
E-mail Address: <a href="mailto:penny.bumbarger@suez.com">penny.bumbarger@suez.com</a>						Relinquished by:		Date	Time	Received by:		Date	Time		
Phone: 717-773-0185						<i>[Signature]</i>									
<b>Data Package Options</b> (please check if required)						Relinquished by:		Date	Time	Received by:		Date	Time		
Type I (Validation/non-CLP)	<input type="checkbox"/>	MA MCP	<input type="checkbox"/>			<i>[Signature]</i>									
Type III (Reduced non-CLP)	<input type="checkbox"/>	CT RCP	<input type="checkbox"/>			Relinquished by:		Date	Time	Received by:		Date	Time		
Type VI (Raw Data Only)	<input type="checkbox"/>	TX TRRP-13	<input type="checkbox"/>			<i>[Signature]</i>						8-28-2020	1540		
NJ DKQP	<input type="checkbox"/>	NYSDEC Category	<input type="checkbox"/> A or <input type="checkbox"/> B			Relinquished by Commercial Carrier:									
EDD Required?	Yes <input type="checkbox"/> No <input type="checkbox"/>	If yes, format: _____				UPS _____ FedEx _____ Other _____						Temperature upon receipt		11-1.2 °C	

07

## Login Sample Receipt Checklist

Client: SUEZ Water Environmental Services Inc

Job Number: 410-12365-1

**Login Number: 12365**

**List Source: Eurofins Lancaster Laboratories Env**

**List Number: 1**

**Creator: Jeremiah, Cory T**

Question	Answer	Comment
Radioactivity wasn't checked or is <math>\leq</math> background as measured by a survey meter.	N/A	
The cooler's custody seal is intact.	N/A	
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 (<math>\leq 6C</math>, not frozen).	True	
Cooler Temperature is recorded.	True	
WV: Container Temperature is acceptable (<math>\leq 6C</math>, not frozen).	N/A	
WV: Container Temperature is recorded.	N/A	
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.	True	
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.	N/A	
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.	N/A	