

**MONTHLY PROGRESS REPORT  
TACONIC FACILITY (NYSDEC SITE NO. 442047)  
PETERSBURGH, NEW YORK  
JANUARY 2017**

**Actions Taken to Comply with the Settlement Agreement During Previous Month (January):**

- WEL-DUN, Inc. (WEL-DUN) sampled 21 point-of-entry treatment (POET) systems in January 2017 for the analysis of perfluorinated compounds (PFCs) by TestAmerica (TA), as part of the quarterly maintenance monitoring.
- WEL-DUN performed annual raw water sampling at 11 private wells in January 2017 for the analysis of PFCs by TA, as part of the POET system maintenance monitoring.
- POET systems were installed in January 2017 for three additional residences included in the Taconic POET list provided in Exhibit C of the Settlement Agreement.
- Results of the Town of Petersburg (Town) Public Water Granular Activated Carbon (GAC) System start-up samples were received on January 13 and 25, 2017 and transmitted to the New York State Department of Environmental Conservation (NYSDEC), New York State Department of Health (NYSDOH) and Rensselaer County Department of Health (RCDOH) under separate cover on January 13 and 25, 2017.
- Based on the Town's GAC System start-up plan sample results, NYSDOH approved placing the system into operation on January 26, 2017. The Town GAC System was put into operation and began transmission of filtered water to the distribution system on January 26, 2017.

**Plans, Reports, and Other Deliverables Required by the Settlement Agreement Completed and Submitted in the Previous Month (January):**

- Taconic submitted the requested Town of Petersburg distribution system flush plan to NYSDEC and NYSDOH on January 6, 2017.
- On January 19, 2017, Taconic received comments from NYSDEC on the Operation and Maintenance (O&M) Manual for the new Town Public Water GAC System. Comments were reviewed in a teleconference with Taconic, NYSDEC, NYSDOH and RCDOH on January 26, 2017.

**Results of Sampling, Tests and Any Other Data Received or Generated by or on behalf of Respondent During the Previous Month (January):**

- Analytical results were received from TA during the month for PFCs for the mid-carbon and post-carbon quarterly samples collected from the POET systems and were submitted to NYSDEC under separate cover on January 13, 18 and 20, 2017.
- Analytical results were received from TA during the month for PFCs for the mid-carbon and post-carbon samples collected from the new POET systems and were submitted to NYSDEC and RCDOH (for clearance) under separate cover on January 13, 18 and 20, 2017.
- Analytical results were received from TA during the month for PFCs for the annual raw water samples collected as part of the POET system maintenance monitoring and were submitted to NYSDEC under separate cover on January 27, 2017.

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- Analytical results were received from TA during the month and are attached for PFCs in the surface water samples collected from two streams (i.e., Unnamed Streams 1 and 2) and three ponds (i.e., Unnamed Ponds 1, 2 and 3) at and near the Taconic facility on December 9, 2016.

**Activities Undertaken in Support of the Community Relations Plan During Previous Month (January):**

- Taconic received comments from NYSDEC on the CPP on December 22, 2016. The revised CPP was submitted to NYSDEC and NYSDOH on January 13, 2017, in advance of the January 21, 2017 due date, as per 6 NYCRR Part 375-1.6(d)(3).

**Actions, Plans and Data Scheduled for the Next Month (February):**

- Based on the teleconference on January 26, 2017, preparation of the revised O&M Manual will continue and is scheduled to be submitted after the Town's distribution system is flushed and cleared for use.
- Taconic received comments from NYSDEC on the revised CPP on January 27, 2017. Taconic began addressing the comments with NYSDEC.
- Analytical results are scheduled to be received from TA for PFCs for the mid-carbon and post-carbon quarterly samples collected from POET systems in January and February, 2017.
- Analytical results are scheduled to be received from TA for the pre- and post-carbon samples collected from POET system(s) installed in February 2017 and cleared by the RCDOH.
- Analytical results are scheduled to be received from TA for annual raw water samples collected in January 2017 as part of the POET system maintenance monitoring.
- WEL-DUN will continue quarterly maintenance monitoring of the POET systems in February 2017.
- WEL-DUN will continue annual sampling of the raw water as part of the POET system maintenance monitoring in February 2017.
- Installation of POET system(s) not yet completed at locations included in Exhibit C of the Settlement Agreement will continue in February 2017.
- Upon NYSDEC/NYSDOH approval, distribution flushing will be conducted before the end of February 2017.

**Activities in Support of the Community Relations Plan Anticipated for the Next Month:**

- None in February 2017.

**Delays Encountered or Anticipated and Mitigation Measures:**

- None in January 2017.

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**Proposed or Approved Modifications (Work Scope and/or Schedule):**

- None in January 2017.

**Percentage of Completion and Additional Information Relating to the Progress of Work:**

By the end of January 2017, the approximate percentage of completion for current work activities is presented in the following table.

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**Percentage of Completion Relating to the Progress of Work**

<b>Item</b>	<b>Percent Complete</b>
Sample the Taconic production wells for analysis of PFCs and TCL/TAL constituents (accelerated RI field task approved by NYSDEC)	100% (Completed on 9/1/2016)
Sample surface water at/near the Taconic facility for analysis of PFCs and TCL/TAL constituents (accelerated RI field task approved by NYSDEC)	100% (Completed on 12/9/2016)
Prepare/submit CPP	100% (Original plan submitted on 12/9/2016)
Prepare/submit revised CPP	100% (Submitted on 1/13/2017)
Prepare/submit revised CPP	99%
Prepare/submit RI/FS Work Plan and associated FSAP, QAPP and HASP	100% (Submitted on 12/20/2016)
Prepare/submit O&M Manual for the Town Public Water GAC System	100% (Submitted on 12/20/2016)
Prepare/submit revised O&M Manual for the Town Public Water GAC System	95% after the Town's distribution system is flushed and cleared for use.
Town Public Water GAC System Installation	100% (Electrical and piping installation completed on 12/21/2016)
Town Public Water GAC System Start-up	100% (Completed on 12/30/2016)
Town Public Water System Flushing Plan	100% (Submitted on 1/6/2017)
First Quarter Maintenance Monitoring of the POET Systems	26% (Plan to complete by March 31 or until homeowners return back multiple messages)
POET Installations - Exhibit C of the Settlement Agreement	90% (Plan to complete as soon as homeowners return back multiple messages.)

# Client Sample Results

Client: O'Brien & Gere Inc of North America  
Project/Site: Preliminary RIFS (PFAS)

TestAmerica Job ID: 320-24282-1

**Client Sample ID: UP-1-120916**

**Date Collected: 12/09/16 15:15**

**Date Received: 12/12/16 09:40**

**Lab Sample ID: 320-24282-1**

**Matrix: Water**

## Method: 537 (modified) - Perfluorinated Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.0014	J	0.0019	0.00043	ug/L		12/16/16 10:49	12/28/16 19:51	1
Perfluoropentanoic acid (PFPeA)	0.0015	J	0.0019	0.00092	ug/L		12/16/16 10:49	12/28/16 19:51	1
Perfluorohexanoic acid (PFHxA)	0.0076		0.0019	0.00073	ug/L		12/16/16 10:49	12/28/16 19:51	1
Perfluoroheptanoic acid (PFHpA)	0.018		0.0019	0.00075	ug/L		12/16/16 10:49	12/28/16 19:51	1
Perfluorooctanoic acid (PFOA)	0.34		0.0019	0.00070	ug/L		12/16/16 10:49	12/28/16 19:51	1
Perfluorononanoic acid (PFNA)	0.0013	J	0.0019	0.00061	ug/L		12/16/16 10:49	12/28/16 19:51	1
Perfluorodecanoic acid (PFDA)	0.00052	J	0.0019	0.00041	ug/L		12/16/16 10:49	12/28/16 19:51	1
Perfluoroundecanoic acid (PFUnA)	0.0019	U	0.0019	0.00070	ug/L		12/16/16 10:49	12/28/16 19:51	1
Perfluorododecanoic acid (PFDoA)	0.0019	U	0.0019	0.00054	ug/L		12/16/16 10:49	12/28/16 19:51	1
Perfluorotridecanoic Acid (PFTriA)	0.0019	U	0.0019	0.00051	ug/L		12/16/16 10:49	12/28/16 19:51	1
Perfluorotetradecanoic acid (PFTeA)	0.00079	J B	0.0019	0.00019	ug/L		12/16/16 10:49	12/28/16 19:51	1
Perfluorobutanesulfonic acid (PFBS)	0.0019	U	0.0019	0.00086	ug/L		12/16/16 10:49	12/28/16 19:51	1
Perfluorohexanesulfonic acid (PFHxS)	0.0019	U	0.0019	0.00081	ug/L		12/16/16 10:49	12/28/16 19:51	1
Perfluoroheptanesulfonic Acid (PFHpS)	0.0019	U	0.0019	0.00066	ug/L		12/16/16 10:49	12/28/16 19:51	1
Perfluorodecanesulfonic acid (PFDS)	0.0019	U	0.0019	0.0011	ug/L		12/16/16 10:49	12/28/16 19:51	1
Perfluorooctanesulfonic acid (PFOS)	0.0019	U	0.0019	0.0012	ug/L		12/16/16 10:49	12/28/16 19:51	1
Perfluorooctane Sulfonamide (FOSA)	0.0019	U	0.0019	0.00059	ug/L		12/16/16 10:49	12/28/16 19:51	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C8 FOSA	0.9	*	25 - 150				12/16/16 10:49	12/28/16 19:51	1
13C4 PFBA	35		25 - 150				12/16/16 10:49	12/28/16 19:51	1
13C2 PFHxA	109		25 - 150				12/16/16 10:49	12/28/16 19:51	1
13C4 PFOA	95		25 - 150				12/16/16 10:49	12/28/16 19:51	1
13C5 PFNA	98		25 - 150				12/16/16 10:49	12/28/16 19:51	1
13C2 PFDA	84		25 - 150				12/16/16 10:49	12/28/16 19:51	1
13C2 PFUnA	74		25 - 150				12/16/16 10:49	12/28/16 19:51	1
13C2 PFDoA	71		25 - 150				12/16/16 10:49	12/28/16 19:51	1
18O2 PFHxS	123		25 - 150				12/16/16 10:49	12/28/16 19:51	1
13C4 PFOS	136		25 - 150				12/16/16 10:49	12/28/16 19:51	1
13C4-PFHpA	117		25 - 150				12/16/16 10:49	12/28/16 19:51	1
13C5 PFPeA	88		25 - 150				12/16/16 10:49	12/28/16 19:51	1

**Client Sample ID: UP-2-120916**

**Date Collected: 12/09/16 14:40**

**Date Received: 12/12/16 09:40**

**Lab Sample ID: 320-24282-2**

**Matrix: Water**

## Method: 537 (modified) - Perfluorinated Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.0019	U	0.0019	0.00043	ug/L		12/16/16 10:49	12/28/16 19:59	1
Perfluoropentanoic acid (PFPeA)	0.0019	U	0.0019	0.00092	ug/L		12/16/16 10:49	12/28/16 19:59	1
Perfluorohexanoic acid (PFHxA)	0.0025		0.0019	0.00073	ug/L		12/16/16 10:49	12/28/16 19:59	1
Perfluoroheptanoic acid (PFHpA)	0.0089		0.0019	0.00075	ug/L		12/16/16 10:49	12/28/16 19:59	1
Perfluorooctanoic acid (PFOA)	0.25		0.0019	0.00070	ug/L		12/16/16 10:49	12/28/16 19:59	1
Perfluorononanoic acid (PFNA)	0.0017	J	0.0019	0.00061	ug/L		12/16/16 10:49	12/28/16 19:59	1
Perfluorodecanoic acid (PFDA)	0.0019	U	0.0019	0.00041	ug/L		12/16/16 10:49	12/28/16 19:59	1
Perfluoroundecanoic acid (PFUnA)	0.0019	U	0.0019	0.00070	ug/L		12/16/16 10:49	12/28/16 19:59	1
Perfluorododecanoic acid (PFDoA)	0.0019	U	0.0019	0.00055	ug/L		12/16/16 10:49	12/28/16 19:59	1
Perfluorotridecanoic Acid (PFTriA)	0.0019	U	0.0019	0.00051	ug/L		12/16/16 10:49	12/28/16 19:59	1

TestAmerica Sacramento

# Client Sample Results

Client: O'Brien & Gere Inc of North America  
Project/Site: Preliminary RIFS (PFAS)

TestAmerica Job ID: 320-24282-1

**Client Sample ID: UP-2-120916**

**Lab Sample ID: 320-24282-2**

**Date Collected: 12/09/16 14:40**

**Matrix: Water**

**Date Received: 12/12/16 09:40**

## Method: 537 (modified) - Perfluorinated Hydrocarbons (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Perfluorotetradecanoic acid (PFTeA)</b>	<b>0.00087</b>	<b>J B F1</b>	0.0019	0.00019	ug/L		12/16/16 10:49	12/28/16 19:59	1
Perfluorobutanesulfonic acid (PFBS)	0.0019	U	0.0019	0.00086	ug/L		12/16/16 10:49	12/28/16 19:59	1
Perfluorohexanesulfonic acid (PFHxS)	0.0019	U	0.0019	0.00081	ug/L		12/16/16 10:49	12/28/16 19:59	1
Perfluoroheptanesulfonic Acid (PFHpS)	0.0019	U	0.0019	0.00067	ug/L		12/16/16 10:49	12/28/16 19:59	1
Perfluorodecanesulfonic acid (PFDS)	0.0019	U	0.0019	0.0011	ug/L		12/16/16 10:49	12/28/16 19:59	1
Perfluorooctanesulfonic acid (PFOS)	0.0019	U	0.0019	0.0012	ug/L		12/16/16 10:49	12/28/16 19:59	1
Perfluorooctane Sulfonamide (FOSA)	0.0019	U	0.0019	0.00060	ug/L		12/16/16 10:49	12/28/16 19:59	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<sup>13</sup> C8 FOSA	2	*	25 - 150				12/16/16 10:49	12/28/16 19:59	1
<sup>13</sup> C4 PFBA	38		25 - 150				12/16/16 10:49	12/28/16 19:59	1
<sup>13</sup> C2 PFHxA	100		25 - 150				12/16/16 10:49	12/28/16 19:59	1
<sup>13</sup> C4 PFOA	86		25 - 150				12/16/16 10:49	12/28/16 19:59	1
<sup>13</sup> C5 PFNA	74		25 - 150				12/16/16 10:49	12/28/16 19:59	1
<sup>13</sup> C2 PFDA	66		25 - 150				12/16/16 10:49	12/28/16 19:59	1
<sup>13</sup> C2 PFUnA	62		25 - 150				12/16/16 10:49	12/28/16 19:59	1
<sup>13</sup> C2 PFDoA	62		25 - 150				12/16/16 10:49	12/28/16 19:59	1
<sup>18</sup> O2 PFHxS	119		25 - 150				12/16/16 10:49	12/28/16 19:59	1
<sup>13</sup> C4 PFOS	132		25 - 150				12/16/16 10:49	12/28/16 19:59	1
<sup>13</sup> C4-PFHpA	105		25 - 150				12/16/16 10:49	12/28/16 19:59	1
<sup>13</sup> C5 PFPeA	90		25 - 150				12/16/16 10:49	12/28/16 19:59	1

**Client Sample ID: UP-3-120916**

**Lab Sample ID: 320-24282-3**

**Date Collected: 12/09/16 16:35**

**Matrix: Water**

**Date Received: 12/12/16 09:40**

## Method: 537 (modified) - Perfluorinated Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Perfluorobutanoic acid (PFBA)</b>	<b>0.017</b>		0.0019	0.00044	ug/L		12/16/16 10:49	12/28/16 20:21	1
<b>Perfluoropentanoic acid (PFPeA)</b>	<b>0.041</b>		0.0019	0.00094	ug/L		12/16/16 10:49	12/28/16 20:21	1
<b>Perfluorohexanoic acid (PFHxA)</b>	<b>0.097</b>		0.0019	0.00075	ug/L		12/16/16 10:49	12/28/16 20:21	1
<b>Perfluoroheptanoic acid (PFHpA)</b>	<b>0.12</b>		0.0019	0.00076	ug/L		12/16/16 10:49	12/28/16 20:21	1
<b>Perfluorononanoic acid (PFNA)</b>	<b>0.0095</b>		0.0019	0.00062	ug/L		12/16/16 10:49	12/28/16 20:21	1
<b>Perfluorodecanoic acid (PFDA)</b>	<b>0.0020</b>		0.0019	0.00042	ug/L		12/16/16 10:49	12/28/16 20:21	1
Perfluoroundecanoic acid (PFUnA)	0.0019	U	0.0019	0.00071	ug/L		12/16/16 10:49	12/28/16 20:21	1
Perfluorododecanoic acid (PFDoA)	0.0019	U	0.0019	0.00056	ug/L		12/16/16 10:49	12/28/16 20:21	1
Perfluorotridecanoic Acid (PFTriA)	0.0019	U	0.0019	0.00052	ug/L		12/16/16 10:49	12/28/16 20:21	1
<b>Perfluorotetradecanoic acid (PFTeA)</b>	<b>0.0017</b>	<b>J B</b>	0.0019	0.00019	ug/L		12/16/16 10:49	12/28/16 20:21	1
<b>Perfluorobutanesulfonic acid (PFBS)</b>	<b>0.0010</b>	<b>J</b>	0.0019	0.00087	ug/L		12/16/16 10:49	12/28/16 20:21	1
Perfluorohexanesulfonic acid (PFHxS)	0.0019	U	0.0019	0.00083	ug/L		12/16/16 10:49	12/28/16 20:21	1
Perfluoroheptanesulfonic Acid (PFHpS)	0.0019	U	0.0019	0.00068	ug/L		12/16/16 10:49	12/28/16 20:21	1
Perfluorodecanesulfonic acid (PFDS)	0.0019	U	0.0019	0.0011	ug/L		12/16/16 10:49	12/28/16 20:21	1
Perfluorooctanesulfonic acid (PFOS)	0.0019	U	0.0019	0.0012	ug/L		12/16/16 10:49	12/28/16 20:21	1
Perfluorooctane Sulfonamide (FOSA)	0.0019	U	0.0019	0.00061	ug/L		12/16/16 10:49	12/28/16 20:21	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<sup>13</sup> C8 FOSA	2	*	25 - 150				12/16/16 10:49	12/28/16 20:21	1

TestAmerica Sacramento

# Client Sample Results

Client: O'Brien & Gere Inc of North America  
Project/Site: Preliminary RIFS (PFAS)

TestAmerica Job ID: 320-24282-1

**Client Sample ID: UP-3-120916**

**Lab Sample ID: 320-24282-3**

**Date Collected: 12/09/16 16:35**

**Matrix: Water**

**Date Received: 12/12/16 09:40**

## Method: 537 (modified) - Perfluorinated Hydrocarbons (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<sup>13</sup> C4 PFBA	39		25 - 150	12/16/16 10:49	12/28/16 20:21	1
<sup>13</sup> C2 PFHxA	96		25 - 150	12/16/16 10:49	12/28/16 20:21	1
<sup>13</sup> C4 PFOA	43		25 - 150	12/16/16 10:49	12/28/16 20:21	1
<sup>13</sup> C5 PFNA	87		25 - 150	12/16/16 10:49	12/28/16 20:21	1
<sup>13</sup> C2 PFDA	75		25 - 150	12/16/16 10:49	12/28/16 20:21	1
<sup>13</sup> C2 PFUnA	53		25 - 150	12/16/16 10:49	12/28/16 20:21	1
<sup>13</sup> C2 PFDoA	42		25 - 150	12/16/16 10:49	12/28/16 20:21	1
<sup>18</sup> O2 PFHxS	121		25 - 150	12/16/16 10:49	12/28/16 20:21	1
<sup>13</sup> C4 PFOS	132		25 - 150	12/16/16 10:49	12/28/16 20:21	1
<sup>13</sup> C4-PFHpA	96		25 - 150	12/16/16 10:49	12/28/16 20:21	1
<sup>13</sup> C5 PFPeA	84		25 - 150	12/16/16 10:49	12/28/16 20:21	1

## Method: 537 (modified) - Perfluorinated Hydrocarbons - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanoic acid (PFOA)	3.9		0.038	0.014	ug/L	—	12/16/16 10:49	12/29/16 21:11	20
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<sup>13</sup> C4 PFOA	86		25 - 150				12/16/16 10:49	12/29/16 21:11	20

**Client Sample ID: US-1-120916**

**Lab Sample ID: 320-24282-4**

**Date Collected: 12/09/16 11:15**

**Matrix: Water**

**Date Received: 12/12/16 09:40**

## Method: 537 (modified) - Perfluorinated Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.0019	U	0.0019	0.00043	ug/L		12/16/16 10:49	12/28/16 20:29	1
Perfluoropentanoic acid (PFPeA)	0.0019	U	0.0019	0.00092	ug/L		12/16/16 10:49	12/28/16 20:29	1
Perfluorohexanoic acid (PFHxA)	0.0019	U	0.0019	0.00073	ug/L		12/16/16 10:49	12/28/16 20:29	1
Perfluoroheptanoic acid (PFHpA)	0.0019	U	0.0019	0.00075	ug/L		12/16/16 10:49	12/28/16 20:29	1
Perfluorooctanoic acid (PFOA)	0.011		0.0019	0.00070	ug/L		12/16/16 10:49	12/28/16 20:29	1
Perfluorononanoic acid (PFNA)	0.0019	U	0.0019	0.00061	ug/L		12/16/16 10:49	12/28/16 20:29	1
Perfluorodecanoic acid (PFDA)	0.0019	U	0.0019	0.00041	ug/L		12/16/16 10:49	12/28/16 20:29	1
Perfluoroundecanoic acid (PFUnA)	0.0019	U	0.0019	0.00070	ug/L		12/16/16 10:49	12/28/16 20:29	1
Perfluorododecanoic acid (PFDoA)	0.0019	U	0.0019	0.00054	ug/L		12/16/16 10:49	12/28/16 20:29	1
Perfluorotridecanoic Acid (PFTriA)	0.0019	U	0.0019	0.00051	ug/L		12/16/16 10:49	12/28/16 20:29	1
Perfluorotetradecanoic acid (PFTeA)	0.00070	J B	0.0019	0.00019	ug/L		12/16/16 10:49	12/28/16 20:29	1
Perfluorobutanesulfonic acid (PFBS)	0.0019	U	0.0019	0.00086	ug/L		12/16/16 10:49	12/28/16 20:29	1
Perfluorohexanesulfonic acid (PFHxS)	0.0019	U	0.0019	0.00081	ug/L		12/16/16 10:49	12/28/16 20:29	1
Perfluoroheptanesulfonic Acid (PFHpS)	0.0019	U	0.0019	0.00066	ug/L		12/16/16 10:49	12/28/16 20:29	1
Perfluorodecanesulfonic acid (PFDS)	0.0019	U	0.0019	0.0011	ug/L		12/16/16 10:49	12/28/16 20:29	1
Perfluorooctanesulfonic acid (PFOS)	0.0019	U	0.0019	0.0012	ug/L		12/16/16 10:49	12/28/16 20:29	1
Perfluorooctane Sulfonamide (FOSA)	0.0019	U	0.0019	0.00059	ug/L		12/16/16 10:49	12/28/16 20:29	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C8 FOSA	2	*	25 - 150				12/16/16 10:49	12/28/16 20:29	1
13C4 PFBA	39		25 - 150				12/16/16 10:49	12/28/16 20:29	1
13C2 PFHxA	105		25 - 150				12/16/16 10:49	12/28/16 20:29	1
13C4 PFOA	98		25 - 150				12/16/16 10:49	12/28/16 20:29	1
13C5 PFNA	77		25 - 150				12/16/16 10:49	12/28/16 20:29	1
13C2 PFDA	77		25 - 150				12/16/16 10:49	12/28/16 20:29	1

TestAmerica Sacramento

# Client Sample Results

Client: O'Brien & Gere Inc of North America  
Project/Site: Preliminary RIFS (PFAS)

TestAmerica Job ID: 320-24282-1

**Client Sample ID: US-1-120916**

**Date Collected: 12/09/16 11:15**

**Date Received: 12/12/16 09:40**

**Lab Sample ID: 320-24282-4**

**Matrix: Water**

## Method: 537 (modified) - Perfluorinated Hydrocarbons (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<sup>13</sup> C2 PFUnA	88		25 - 150	12/16/16 10:49	12/28/16 20:29	1
<sup>13</sup> C2 PFDoA	93		25 - 150	12/16/16 10:49	12/28/16 20:29	1
<sup>18</sup> O2 PFHxS	123		25 - 150	12/16/16 10:49	12/28/16 20:29	1
<sup>13</sup> C4 PFOS	132		25 - 150	12/16/16 10:49	12/28/16 20:29	1
<sup>13</sup> C4-PFHpA	110		25 - 150	12/16/16 10:49	12/28/16 20:29	1
<sup>13</sup> C5 PFPeA	90		25 - 150	12/16/16 10:49	12/28/16 20:29	1

**Client Sample ID: US-2-120916**

**Date Collected: 12/09/16 10:05**

**Date Received: 12/12/16 09:40**

**Lab Sample ID: 320-24282-5**

**Matrix: Water**

## Method: 537 (modified) - Perfluorinated Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.0019	U	0.0019	0.00043	ug/L		12/16/16 10:49	12/28/16 20:36	1
Perfluoropentanoic acid (PFPeA)	0.0019	U	0.0019	0.00092	ug/L		12/16/16 10:49	12/28/16 20:36	1
Perfluorohexanoic acid (PFHxA)	0.0019	U	0.0019	0.00073	ug/L		12/16/16 10:49	12/28/16 20:36	1
Perfluoroheptanoic acid (PFHpA)	0.0019	U	0.0019	0.00075	ug/L		12/16/16 10:49	12/28/16 20:36	1
Perfluorooctanoic acid (PFOA)	0.0066		0.0019	0.00070	ug/L		12/16/16 10:49	12/28/16 20:36	1
Perfluorononanoic acid (PFNA)	0.0019	U	0.0019	0.00061	ug/L		12/16/16 10:49	12/28/16 20:36	1
Perfluorodecanoic acid (PFDA)	0.0019	U	0.0019	0.00041	ug/L		12/16/16 10:49	12/28/16 20:36	1
Perfluoroundecanoic acid (PFUnA)	0.0019	U	0.0019	0.00070	ug/L		12/16/16 10:49	12/28/16 20:36	1
Perfluorododecanoic acid (PFDoA)	0.0019	U	0.0019	0.00054	ug/L		12/16/16 10:49	12/28/16 20:36	1
Perfluorotridecanoic Acid (PFTriA)	0.0019	U	0.0019	0.00051	ug/L		12/16/16 10:49	12/28/16 20:36	1
Perfluorotetradecanoic acid (PFTeA)	0.00074	J B	0.0019	0.00019	ug/L		12/16/16 10:49	12/28/16 20:36	1
Perfluorobutanesulfonic acid (PFBS)	0.0019	U	0.0019	0.00086	ug/L		12/16/16 10:49	12/28/16 20:36	1
Perfluorohexanesulfonic acid (PFHxS)	0.0019	U	0.0019	0.00081	ug/L		12/16/16 10:49	12/28/16 20:36	1
Perfluoroheptanesulfonic Acid (PFHpS)	0.0019	U	0.0019	0.00066	ug/L		12/16/16 10:49	12/28/16 20:36	1
Perfluorodecanesulfonic acid (PFDS)	0.0019	U	0.0019	0.0011	ug/L		12/16/16 10:49	12/28/16 20:36	1
Perfluorooctanesulfonic acid (PFOS)	0.0019	U	0.0019	0.0012	ug/L		12/16/16 10:49	12/28/16 20:36	1
Perfluorooctane Sulfonamide (FOSA)	0.0019	U	0.0019	0.00059	ug/L		12/16/16 10:49	12/28/16 20:36	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C8 FOSA	2	*	25 - 150				12/16/16 10:49	12/28/16 20:36	1
13C4 PFBA	38		25 - 150				12/16/16 10:49	12/28/16 20:36	1
13C2 PFHxA	104		25 - 150				12/16/16 10:49	12/28/16 20:36	1
13C4 PFOA	101		25 - 150				12/16/16 10:49	12/28/16 20:36	1
13C5 PFNA	80		25 - 150				12/16/16 10:49	12/28/16 20:36	1
13C2 PFDA	74		25 - 150				12/16/16 10:49	12/28/16 20:36	1
13C2 PFUnA	77		25 - 150				12/16/16 10:49	12/28/16 20:36	1
13C2 PFDoA	82		25 - 150				12/16/16 10:49	12/28/16 20:36	1
18O2 PFHxS	126		25 - 150				12/16/16 10:49	12/28/16 20:36	1
13C4 PFOS	139		25 - 150				12/16/16 10:49	12/28/16 20:36	1
13C4-PFHpA	112		25 - 150				12/16/16 10:49	12/28/16 20:36	1
13C5 PFPeA	89		25 - 150				12/16/16 10:49	12/28/16 20:36	1

TestAmerica Sacramento



# Client Sample Results

Client: O'Brien & Gere Inc of North America  
Project/Site: Preliminary RIFS (PFAS)

TestAmerica Job ID: 320-24282-1

**Client Sample ID: X-1-120916** (blind dup of UP-1)

**Lab Sample ID: 320-24282-6**

**Date Collected: 12/09/16 00:00**

**Matrix: Water**

**Date Received: 12/12/16 09:40**

## Method: 537 (modified) - Perfluorinated Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.0014	J	0.0019	0.00044	ug/L		12/16/16 10:49	12/28/16 20:44	1
Perfluoropentanoic acid (PFPeA)	0.0015	J	0.0019	0.00095	ug/L		12/16/16 10:49	12/28/16 20:44	1
Perfluorohexanoic acid (PFHxA)	0.0076		0.0019	0.00075	ug/L		12/16/16 10:49	12/28/16 20:44	1
Perfluoroheptanoic acid (PFHpA)	0.018		0.0019	0.00077	ug/L		12/16/16 10:49	12/28/16 20:44	1
Perfluorooctanoic acid (PFOA)	0.34		0.0019	0.00072	ug/L		12/16/16 10:49	12/28/16 20:44	1
Perfluorononanoic acid (PFNA)	0.0014	J	0.0019	0.00063	ug/L		12/16/16 10:49	12/28/16 20:44	1
Perfluorodecanoic acid (PFDA)	0.0019	U	0.0019	0.00042	ug/L		12/16/16 10:49	12/28/16 20:44	1
Perfluoroundecanoic acid (PFUnA)	0.0019	U	0.0019	0.00072	ug/L		12/16/16 10:49	12/28/16 20:44	1
Perfluorododecanoic acid (PFDoA)	0.0019	U	0.0019	0.00056	ug/L		12/16/16 10:49	12/28/16 20:44	1
Perfluorotridecanoic Acid (PFTriA)	0.0019	U	0.0019	0.00053	ug/L		12/16/16 10:49	12/28/16 20:44	1
Perfluorotetradecanoic acid (PFTeA)	0.00083	J B	0.0019	0.00019	ug/L		12/16/16 10:49	12/28/16 20:44	1
Perfluorobutanesulfonic acid (PFBS)	0.0019	U	0.0019	0.00088	ug/L		12/16/16 10:49	12/28/16 20:44	1
Perfluorohexanesulfonic acid (PFHxS)	0.0019	U	0.0019	0.00083	ug/L		12/16/16 10:49	12/28/16 20:44	1
Perfluoroheptanesulfonic Acid (PFHpS)	0.0019	U	0.0019	0.00068	ug/L		12/16/16 10:49	12/28/16 20:44	1
Perfluorodecanesulfonic acid (PFDS)	0.0019	U	0.0019	0.0012	ug/L		12/16/16 10:49	12/28/16 20:44	1
Perfluorooctanesulfonic acid (PFOS)	0.0023		0.0019	0.0012	ug/L		12/16/16 10:49	12/28/16 20:44	1
Perfluorooctane Sulfonamide (FOSA)	0.0019	U	0.0019	0.00061	ug/L		12/16/16 10:49	12/28/16 20:44	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C8 FOSA	9	*	25 - 150				12/16/16 10:49	12/28/16 20:44	1
13C4 PFBA	33		25 - 150				12/16/16 10:49	12/28/16 20:44	1
13C2 PFHxA	104		25 - 150				12/16/16 10:49	12/28/16 20:44	1
13C4 PFOA	90		25 - 150				12/16/16 10:49	12/28/16 20:44	1
13C5 PFNA	86		25 - 150				12/16/16 10:49	12/28/16 20:44	1
13C2 PFDA	77		25 - 150				12/16/16 10:49	12/28/16 20:44	1
13C2 PFUnA	73		25 - 150				12/16/16 10:49	12/28/16 20:44	1
13C2 PFDoA	76		25 - 150				12/16/16 10:49	12/28/16 20:44	1
18O2 PFHxS	119		25 - 150				12/16/16 10:49	12/28/16 20:44	1
13C4 PFOS	128		25 - 150				12/16/16 10:49	12/28/16 20:44	1
13C4-PFHpA	109		25 - 150				12/16/16 10:49	12/28/16 20:44	1
13C5 PFPeA	83		25 - 150				12/16/16 10:49	12/28/16 20:44	1

**Client Sample ID: FRB-120916**

**Lab Sample ID: 320-24282-7**

**Date Collected: 12/09/16 15:00**

**Matrix: Water**

**Date Received: 12/12/16 09:40**

## Method: 537 (modified) - Perfluorinated Hydrocarbons

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	0.0018	U	0.0018	0.00041	ug/L		12/16/16 10:49	12/28/16 21:06	1
Perfluoropentanoic acid (PFPeA)	0.0018	U	0.0018	0.00089	ug/L		12/16/16 10:49	12/28/16 21:06	1
Perfluorohexanoic acid (PFHxA)	0.0018	U	0.0018	0.00071	ug/L		12/16/16 10:49	12/28/16 21:06	1
Perfluoroheptanoic acid (PFHpA)	0.0018	U	0.0018	0.00072	ug/L		12/16/16 10:49	12/28/16 21:06	1
Perfluorooctanoic acid (PFOA)	0.0018	U	0.0018	0.00068	ug/L		12/16/16 10:49	12/28/16 21:06	1
Perfluorononanoic acid (PFNA)	0.0018	U	0.0018	0.00059	ug/L		12/16/16 10:49	12/28/16 21:06	1
Perfluorodecanoic acid (PFDA)	0.0018	U	0.0018	0.00040	ug/L		12/16/16 10:49	12/28/16 21:06	1
Perfluoroundecanoic acid (PFUnA)	0.0018	U	0.0018	0.00068	ug/L		12/16/16 10:49	12/28/16 21:06	1
Perfluorododecanoic acid (PFDoA)	0.0018	U	0.0018	0.00053	ug/L		12/16/16 10:49	12/28/16 21:06	1
Perfluorotridecanoic Acid (PFTriA)	0.0018	U	0.0018	0.00050	ug/L		12/16/16 10:49	12/28/16 21:06	1

TestAmerica Sacramento

# Client Sample Results

Client: O'Brien & Gere Inc of North America  
Project/Site: Preliminary RIFS (PFAS)

TestAmerica Job ID: 320-24282-1

**Client Sample ID: FRB-120916**

**Lab Sample ID: 320-24282-7**

**Date Collected: 12/09/16 15:00**

**Matrix: Water**

**Date Received: 12/12/16 09:40**

## Method: 537 (modified) - Perfluorinated Hydrocarbons (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorotetradecanoic acid (PFTeA)	0.00060	J B	0.0018	0.00018	ug/L		12/16/16 10:49	12/28/16 21:06	1
Perfluorobutanesulfonic acid (PFBS)	0.0018	U	0.0018	0.00083	ug/L		12/16/16 10:49	12/28/16 21:06	1
Perfluorohexanesulfonic acid (PFHxS)	0.0018	U	0.0018	0.00079	ug/L		12/16/16 10:49	12/28/16 21:06	1
Perfluoroheptanesulfonic Acid (PFHpS)	0.0018	U	0.0018	0.00064	ug/L		12/16/16 10:49	12/28/16 21:06	1
Perfluorodecanesulfonic acid (PFDS)	0.0018	U	0.0018	0.0011	ug/L		12/16/16 10:49	12/28/16 21:06	1
Perfluorooctanesulfonic acid (PFOS)	0.0018	U	0.0018	0.0012	ug/L		12/16/16 10:49	12/28/16 21:06	1
Perfluorooctane Sulfonamide (FOSA)	0.0018	U	0.0018	0.00058	ug/L		12/16/16 10:49	12/28/16 21:06	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C8 FOSA	19	*	25 - 150				12/16/16 10:49	12/28/16 21:06	1
13C4 PFBA	134		25 - 150				12/16/16 10:49	12/28/16 21:06	1
13C2 PFHxA	137		25 - 150				12/16/16 10:49	12/28/16 21:06	1
13C4 PFOA	142		25 - 150				12/16/16 10:49	12/28/16 21:06	1
13C5 PFNA	137		25 - 150				12/16/16 10:49	12/28/16 21:06	1
13C2 PFDA	136		25 - 150				12/16/16 10:49	12/28/16 21:06	1
13C2 PFUnA	137		25 - 150				12/16/16 10:49	12/28/16 21:06	1
13C2 PFDoA	123		25 - 150				12/16/16 10:49	12/28/16 21:06	1
18O2 PFHxS	131		25 - 150				12/16/16 10:49	12/28/16 21:06	1
13C4 PFOS	135		25 - 150				12/16/16 10:49	12/28/16 21:06	1
13C4-PFHpA	133		25 - 150				12/16/16 10:49	12/28/16 21:06	1
13C5 PFPeA	147		25 - 150				12/16/16 10:49	12/28/16 21:06	1