Saint Gobain Performance Plastics
McCaffrey Street Facility
Hoosick Falls, NY

Site Sampling Results

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I. Data Summary Tables

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TABLE 1
Summary of Soil Sampling Results
SGPP Hoosick Falls

Location	USEPA Region 4 Residential Screening Levels [2]	MW-1		MW-2		
Field Sample ID		**SG1-MW01D-00.0**	**SG1-MW01D-02.0**	**SG1-MW02D-00.0**	**SG1-DS01-150805**	**SG1-MW02D-02.0**
Collection Depth (ft bgs)		**0 - 2**	**2 - 4**	**0 - 2**	**0 - 2**	**2 - 4**
Sampling Date		**8/10/2015**	**8/10/2015**	**8/5/2015**	**8/5/2015**	**8/5/2015**
Comments					**Field Duplicate**	
PFCS						
Perfluorobutane Sulfonate (PFBS)		U (0.014)	U (0.014)	U (0.014)	U (0.014)	U (0.014)
Perfluoroheptanoic Acid (PFHpA)		U (0.015)	U (0.015)	U (0.015)	U (0.015)	U (0.015)
Perfluorohexane Sulfonate (PFHxS)		U (0.015)	U (0.015)	U (0.015)	U (0.015)	U (0.015)
Perfluoro-n-Octanoic Acid (PFOA)	16000	1.0	2.4	1.3	1.5	0.35
Perfluorononanoic Acid (PFNA)		U (0.01)	U (0.01)	0.01	0.02	U (0.01)
Perfluorooctane Sulfonate (PFOS)	6000	U (0.015)	U (0.015)	0.028	0.035	U (0.015)

Notes:

1 All units in ug/kg (ppb).

2 USEPA Region 4. 2009. "Soil Screening Levels for Perfluorooctanoic Acid (PFOA) and Perluorooctyl Sulfonate (PFOS)."

Abbreviations:

U -- Not Detected

( ) -- Method Detection Limit

TABLE 1
Summary of Soil Sampling Results
SGPP Hoosick Falls

Location	USEPA Region 4 Residential Screening Levels [2]	MW-3		MW-4		MW-5	
Field Sample ID		**SG1-MW03S-00.0**	**SG1-MW03S-02.0**	**SG1-MW04S-00.0**	**SG1-MW04S-02.0**	**SG1-MW05S-00.0**	**SG1-MW05S-02.0**
Collection Depth (ft bgs)		**0 - 2**	**2 - 4**	**0 - 2**	**2 - 4**	**0 - 2**	**2 - 4**
Sampling Date		**8/13/2015**	**8/13/2015**	**8/5/2015**	**8/5/2015**	**8/11/2015**	**8/11/2015**
Comments							
PFCS							
Perfluorobutane Sulfonate (PFBS)		U (0.014)	U (0.014)	0.039	U (0.014)	U (0.14)	U (0.014)
Perfluoroheptanoic Acid (PFHpA)		0.11	U (0.015)	0.17	0.080	U (0.15)	0.038
Perfluorohexane Sulfonate (PFHxS)		U (0.015)	U (0.015)	0.15	U (0.015)	U (0.15)	U (0.015)
Perfluoro-n-Octanoic Acid (PFOA)	16000	2.5	0.67	4.1	1.8	1.4	1.2
Perfluorononanoic Acid (PFNA)		0.11	0.03	0.14	0.07	U (0.1)	0.06
Perfluorooctane Sulfonate (PFOS)	6000	0.19	0.018	0.63	0.28	0.25	0.099

Notes:

1 All units in ug/kg (ppb).

2 USEPA Region 4. 2009. "Soil Screening Levels for Perfluorooctanoic Acid (PFOA) and Perluorooctyl Sulfonate (PFOS)."

Abbreviations:

U -- Not Detected

( ) -- Method Detection Limit

TABLE 2
Summary of Groundwater Sampling Results
SGPP Hoosick Falls

Location	USEPA Drinking Water Provisional Health Advisory Levels (3)	NYSDOH Unspecified Organic Contaminant Criteria (4)	MW-1		MW-1S	
Field Sample ID			SG1-MW01-150903	SG1-MW01-151001	SG1-MW01S-150903	SG1-MW01S-151001
Sample Date			9/3/2015	10/1/2015	9/3/2015	10/1/2015
Comments						
PFCS						
Perfluorobutane Sulfonate (PFBS)		50000	U (8.5)	U (8.5)	U (8.5)	U (8.5)
Perfluoroheptanoic Acid (PFHpA)		50000	U (2.2)	U (2.2)	20 (2.2)	60 (2.2)
Perfluorohexane Sulfonate (PFHxS)		50000	U (2.9)	U (2.9)	U (2.9)	U (2.9)
Perfluoro-n-Octanoic Acid (PFOA)	400	50000	U (1.6)	U (1.6)	U (1.6)	60 (1.6)
Perfluorononanoic Acid (PFNA)		50000	U (2.3)	U (2.3)	U (2.3)	U (2.3)
Perfluorooctane Sulfonate (PFOS)	200	50000	U (2.1)	U (2.1)	U (2.1)	U (2.1)

Notes:

1 All concentrations are presented in ng/L.

2 Detected concentrations exceeding a comparison criterion are shown in **bold text**.

3 USEPA. Provisional Health Advisories for perfluorooctanoic Acid (PFOA) and Perfluorooctane Sulfonate (PFOS). 2009.

4 NYSDOH, 2011. Table 3 – Organic Chemicals, Maximum Contaminant Level Determination. Part 5, Subpart 5-1 Public Water Systems. November. https://www.health.ny.gov/regulations/nycrr/title_10/part_5/subpart_5-1_tables.htm

5 A split sample from MW-02 was submitted for laboratory analysis to Maxxam Analytics of Mississauga, Ontario, Canada. All other samples were submitted for laboratory analysis to Eurofins/Eaton Analytical of South Bend, IN.

Abbreviations:

U -- Not Detected.
J -- Estimated Concentration.
( ) -- Method Detection Limit.

TABLE 2
Summary of Groundwater Sampling Results
SGPP Hoosick Falls

Location	USEPA Drinking Water Provisional Health Advisory Levels (3)	NYSDOH Unspecified Organic Contaminant Criteria (4)	MW-2			MW-2S	
Field Sample ID			SG1-MW02-150902	SG1-MW02-150930		SG1-MW02S-150902	SG1-MW02S-151001
Sample Date			9/2/2015	9/30/2015		9/2/2015	10/1/2015
Comments					Split (5)		
PFCS							
Perfluorobutane Sulfonate (PFBS)		50000	U (8.5)	U (8.5)	U (4.7)	U (8.5)	U (8.5)
Perfluoroheptanoic Acid (PFHpA)		50000	340 (2.2)	310 (2.2)	390 J (5.4)	20 (2.2)	30 (2.2)
Perfluorohexane Sulfonate (PFHxS)		50000	U (2.9)	U (2.9)	U (5.4)	U (2.9)	U (2.9)
Perfluoro-n-Octanoic Acid (PFOA)	400	50000	**18000 (1.6)**	**17000 (1.6)**	**16000 J (180)**	**1100 (1.6)**	**750 (1.6)**
Perfluorononanoic Acid (PFNA)		50000	U (2.3)	U (2.3)	U (6.3)	U (2.3)	U (2.3)
Perfluorooctane Sulfonate (PFOS)	200	50000	U (2.1)	U (2.1)	U (3.7)	U (2.1)	U (2.1)

Notes:

1 All concentrations are presented in ng/L.

2 Detected concentrations exceeding a comparison criterion are shown in **bold text**.

3 USEPA. Provisional Health Advisories for perfluorooctanoic Acid (PFOA) and Perfluorooctane Sulfonate (PFOS). 2009.

4 NYSDOH, 2011. Table 3 – Organic Chemicals, Maximum Contaminant Level Determination. Part 5, Subpart 5-1 Public Water Systems. November. https://www.health.ny.gov/regulations/nycrr/title_10/part_5/subpart_5-1_tables.htm

5 A split sample from MW-02 was submitted for laboratory analysis to Maxxam Analytics of Mississauga, Ontario, Canada. All other samples were submitted for laboratory analysis to Eurofins/Eaton Analytical of South Bend, IN.

Abbreviations:

U -- Not Detected.
J -- Estimated Concentration.
( ) -- Method Detection Limit.

TABLE 2
Summary of Groundwater Sampling Results
SGPP Hoosick Falls

Location	USEPA Drinking Water Provisional Health Advisory Levels (3)	NYSDOH Unspecified Organic Contaminant Criteria (4)	MW-3			MW-4		
Field Sample ID			**SG1-MW03-150903**	**SG1-DS01-150903**	**SG1-MW03-151001**	**SG1-MW04-150903**	**SG1-MW04-151001**	**SG1-DS01-151001**
Sample Date			**9/3/2015**	**9/3/2015**	**10/1/2015**	**9/3/2015**	**10/1/2015**	**10/1/2015**
Comments				**Field Duplicate**				**Field Duplicate**
PFCS								
Perfluorobutane Sulfonate (PFBS)		50000	U (8.5)	U (8.5)	U (8.5)	U (8.5)	U (8.5)	U (8.5)
Perfluoroheptanoic Acid (PFHpA)		50000	130 (2.2)	130 (2.2)	120 (2.2)	40 (2.2)	40 (2.2)	40 (2.2)
Perfluorohexane Sulfonate (PFHxS)		50000	U (2.9)	U (2.9)	U (2.9)	U (2.9)	U (2.9)	U (2.9)
Perfluoro-n-Octanoic Acid (PFOA)	400	50000	**5300 (1.6)**	**4200 (1.6)**	**4300 (1.6)**	**1700 (1.6)**	**1400 (1.6)**	**1400 (1.6)**
Perfluorononanoic Acid (PFNA)		50000	U (2.3)	U (2.3)	U (2.3)	U (2.3)	U (2.3)	U (2.3)
Perfluorooctane Sulfonate (PFOS)	200	50000	U (2.1)	U (2.1)	U (2.1)	U (2.1)	U (2.1)	U (2.1)

Notes:

1 All concentrations are presented in ng/L.

2 Detected concentrations exceeding a comparison criterion are shown in **bold text**.

3 USEPA. Provisional Health Advisories for perfluorooctanoic Acid (PFOA) and Perfluorooctane Sulfonate (PFOS). 2009.

4 NYSDOH, 2011. Table 3 – Organic Chemicals, Maximum Contaminant Level Determination. Part 5, Subpart 5-1 Public Water Systems. November. https://www.health.ny.gov/regulations/nycrr/title_10/part_5/subpart_5-1_tables.htm

5 A split sample from MW-02 was submitted for laboratory analysis to Maxxam Analytics of Mississauga, Ontario, Canada. All other samples were submitted for laboratory analysis to Eurofins/Eaton Analytical of South Bend, IN.

Abbreviations:

U -- Not Detected.
J -- Estimated Concentration.
( ) -- Method Detection Limit.

TABLE 2
Summary of Groundwater Sampling Results
SGPP Hoosick Falls

Location	USEPA Drinking Water Provisional Health Advisory Levels (3)	NYSDOH Unspecified Organic Contaminant Criteria (4)	MW-5	
Field Sample ID			SG1-MW05-150903	SG1-MW05-151001
Sample Date			9/3/2015	10/1/2015
Comments				
PFCS				
Perfluorobutane Sulfonate (PFBS)		50000	U (8.5)	U (8.5)
Perfluoroheptanoic Acid (PFHpA)		50000	10 (2.2)	10 (2.2)
Perfluorohexane Sulfonate (PFHxS)		50000	U (2.9)	U (2.9)
Perfluoro-n-Octanoic Acid (PFOA)	400	50000	**580 (1.6)**	**570 (1.6)**
Perfluorononanoic Acid (PFNA)		50000	U (2.3)	U (2.3)
Perfluorooctane Sulfonate (PFOS)	200	50000	U (2.1)	U (2.1)

Notes:

1 All concentrations are presented in ng/L.

2 Detected concentrations exceeding a comparison criterion are shown in **bold text**.

3 USEPA. Provisional Health Advisories for perfluorooctanoic Acid (PFOA) and Perfluorooctane Sulfonate (PFOS). 2009.

4 NYSDOH, 2011. Table 3 – Organic Chemicals, Maximum Contaminant Level Determination. Part 5, Subpart 5-1 Public Water Systems. November. https://www.health.ny.gov/regulations/nycrr/title_10/part_5/subpart_5-1_tables.htm

5 A split sample from MW-02 was submitted for laboratory analysis to Maxxam Analytics of Mississauga, Ontario, Canada. All other samples were submitted for laboratory analysis to Eurofins/Eaton Analytical of South Bend, IN.

Abbreviations:

U -- Not Detected.
J -- Estimated Concentration.
( ) -- Method Detection Limit.

TABLE 3
Summary of Wastewater Sampling Results
SGPP Hoosick Falls

Location	USEPA Drinking Water Provisional Health Advisory Levels (3)	NYSDOH Unspecified Organic Contaminant Criteria (4)	Manhole #1	Sewage Ejector Pit	
Field Sample ID			SG1-NORTH MANHOLE-151027	SG1-SUMP PIT-151027	SG1-DS01-151027
Sample Date			10/27/2015	10/27/2015	10/27/2015
Comments					Field Duplicate
PFCS					
Perfluorobutane Sulfonate (PFBS)		50000	U (8.5)	U (8.5)	U (8.5)
Perfluoroheptanoic Acid (PFHpA)		50000	20 J (2.2)	10 (2.2)	10 (2.2)
Perfluorohexane Sulfonate (PFHxS)		50000	U (2.9)	U (2.9)	U (2.9)
Perfluoro-n-Octanoic Acid (PFOA)	400	50000	**1000 (1.6)**	**850 (1.6)**	**470 (1.6)**
Perfluorononanoic Acid (PFNA)		50000	U (2.3)	U (2.3)	U (2.3)
Perfluorooctane Sulfonate (PFOS)	200	50000	U (2.1)	U (2.1)	U (2.1)

Notes:

1 All concentrations are presented in ng/L.

2 Detected concentrations exceeding a comparison criterion are shown in **bold text**.

3 USEPA. Provisional Health Advisories for perfluorooctanoic Acid (PFOA) and Perfluorooctane Sulfonate (PFOS). 2009.

4 NYSDOH, 2011. Table 3 – Organic Chemicals, Maximum Contaminant Level Determination. Part 5, Subpart 5-1 Public Water Systems. November. https://www.health.ny.gov/regulations/nycrr/title_10/part_5/subpart_5-1_tables.htm

Abbreviations:

U -- Not Detected.

J -- Estimated Concentration.

( ) -- Method Detection Limit.

TABLE 4
Summary of QAQC Sampling Results
SGPP Hoosick Falls

Location	QAQC	QAQC	QAQC	QAQC	QAQC
Field Sample ID	**SG1-FB01-150729**	**SG1-RB01-150729**	**SG1-RB02-150729**	**SG1-RB03-150729**	**SG1-RB04-150729**
Sample Date	**7/29/2015**	**7/29/2015**	**7/29/2015**	**7/29/2015**	**7/29/2015**
Comments	**Field Blank**	**Rinsate Blank**	**Rinsate Blank**	**Rinsate Blank**	**Rinsate Blank**
PFCS					
Perfluorobutane Sulfonate (PFBS)	U (8.5)	U (8.5)	U (8.5)	U (8.5)	U (8.5)
Perfluoroheptanoic Acid (PFHpA)	U (2.2)	U (2.2)	340 (2.2)	U (2.2)	U (2.2)
Perfluorohexane Sulfonate (PFHxS)	U (2.9)	U (2.9)	U (2.9)	U (2.9)	U (2.9)
Perfluoro-n-Octanoic Acid (PFOA)	U (1.6)	U (1.6)	U (1.6)	U (1.6)	U (1.6)
Perfluorononanoic Acid (PFNA)	U (2.3)	U (2.3)	U (2.3)	U (2.3)	U (2.3)
Perfluorooctane Sulfonate (PFOS)	U (2.1)	U (2.1)	U (2.1)	U (2.1)	U (2.1)

Notes:

1 All concentrations are presented in ng/L.

Abbreviations:

U -- Not Detected.

( ) -- Method Detection Limit.

TABLE 4
Summary of QAQC Sampling Results
SGPP Hoosick Falls

Location	QAQC	QAQC	QAQC	QAQC	QAQC
Field Sample ID	**SG1-RB05-150729**	**SG1-RB06-150729**	**SG1-TB01-150729**	**SG1-FB01-150731**	**SG1-FB02-150731**
Sample Date	**7/29/2015**	**7/29/2015**	**7/29/2015**	**7/31/2015**	**7/31/2015**
Comments	**Rinsate Blank**	**Rinsate Blank**	**Trip Blank**	**Field Blank**	**Field Blank**
PFCS					
Perfluorobutane Sulfonate (PFBS)	U (8.5)	U (8.5)	U (8.5)	U (8.5)	U (8.5)
Perfluoroheptanoic Acid (PFHpA)	U (2.2)	U (2.2)	U (2.2)	U (2.2)	U (2.2)
Perfluorohexane Sulfonate (PFHxS)	U (2.9)	U (2.9)	U (2.9)	U (2.9)	U (2.9)
Perfluoro-n-Octanoic Acid (PFOA)	U (1.6)	U (1.6)	U (1.6)	U (1.6)	U (1.6)
Perfluorononanoic Acid (PFNA)	U (2.3)	U (2.3)	U (2.3)	U (2.3)	U (2.3)
Perfluorooctane Sulfonate (PFOS)	U (2.1)	U (2.1)	U (2.1)	U (2.1)	U (2.1)

Notes:

1 All concentrations are presented in ng/L.

Abbreviations:

U -- Not Detected.

( ) -- Method Detection Limit.

TABLE 4
Summary of QAQC Sampling Results
SGPP Hoosick Falls

Location	QAQC	QAQC	QAQC	QAQC	QAQC
Field Sample ID	**SG1-TB01-150731**	**SG1-RB01-150807**	**SG1-TB01-150807**	**SG1-FB01-150810**	**SG1-RB01-150810**
Sample Date	**7/31/2015**	**8/7/2015**	**8/7/2015**	**8/10/2015**	**8/10/2015**
Comments	**Trip Blank**	**Rinsate Blank**	**Trip Blank**	**Field Blank**	**Rinsate Blank**
PFCS					
Perfluorobutane Sulfonate (PFBS)	U (8.5)	U (8.5)	U (8.5)	U (8.5)	U (8.5)
Perfluoroheptanoic Acid (PFHpA)	U (2.2)	U (2.2)	U (2.2)	U (2.2)	U (2.2)
Perfluorohexane Sulfonate (PFHxS)	U (2.9)	U (2.9)	U (2.9)	U (2.9)	U (2.9)
Perfluoro-n-Octanoic Acid (PFOA)	U (1.6)	U (1.6)	U (1.6)	U (1.6)	U (1.6)
Perfluorononanoic Acid (PFNA)	U (2.3)	U (2.3)	U (2.3)	U (2.3)	U (2.3)
Perfluorooctane Sulfonate (PFOS)	U (2.1)	U (2.1)	U (2.1)	U (2.1)	U (2.1)

Notes:

1 All concentrations are presented in ng/L.

Abbreviations:

U -- Not Detected.

( ) -- Method Detection Limit.

TABLE 4
Summary of QAQC Sampling Results
SGPP Hoosick Falls

Location	QAQC	QAQC	QAQC	QAQC	QAQC
Field Sample ID	**SG1-RB02-150810**	**SG1-RB03-150810**	**SG1-RB01-150811**	**SG1-RB02-150811**	**SG1-RB03-150811**
Sample Date	**8/10/2015**	**8/10/2015**	**8/11/2015**	**8/11/2015**	**8/11/2015**
Comments	**Rinsate Blank**	**Rinsate Blank**	**Rinsate Blank**	**Rinsate Blank**	**Rinsate Blank**
PFCS					
Perfluorobutane Sulfonate (PFBS)	U (8.5)	U (8.5)	U (8.5)	U (8.5)	U (8.5)
Perfluoroheptanoic Acid (PFHpA)	U (2.2)	U (2.2)	U (2.2)	U (2.2)	U (2.2)
Perfluorohexane Sulfonate (PFHxS)	U (2.9)	U (2.9)	U (2.9)	U (2.9)	U (2.9)
Perfluoro-n-Octanoic Acid (PFOA)	U (1.6)	U (1.6)	U (1.6)	U (1.6)	U (1.6)
Perfluorononanoic Acid (PFNA)	U (2.3)	U (2.3)	U (2.3)	U (2.3)	U (2.3)
Perfluorooctane Sulfonate (PFOS)	U (2.1)	U (2.1)	U (2.1)	U (2.1)	U (2.1)

Notes:

1 All concentrations are presented in ng/L.

Abbreviations:

U -- Not Detected.

( ) -- Method Detection Limit.

TABLE 4
Summary of QAQC Sampling Results
SGPP Hoosick Falls

Location	QAQC	QAQC	QAQC	QAQC	QAQC
Field Sample ID	**SG1-RB01-150812**	**SG1-RB01-150813**	**SG1-RB02-150813**	**SG1-RB03-150813**	**SG1-FB01-150902**
Sample Date	**8/12/2015**	**8/13/2015**	**8/13/2015**	**8/13/2015**	**9/2/2015**
Comments	**Rinsate Blank**	**Rinsate Blank**	**Rinsate Blank**	**Rinsate Blank**	**Field Blank**
PFCS					
Perfluorobutane Sulfonate (PFBS)	U (8.5)	U (8.5)	U (8.5)	U (8.5)	U (8.5)
Perfluoroheptanoic Acid (PFHpA)	U (2.2)	U (2.2)	U (2.2)	U (2.2)	U (2.2)
Perfluorohexane Sulfonate (PFHxS)	U (2.9)	U (2.9)	U (2.9)	U (2.9)	U (2.9)
Perfluoro-n-Octanoic Acid (PFOA)	U (1.6)	U (1.6)	U (1.6)	U (1.6)	U (1.6)
Perfluorononanoic Acid (PFNA)	U (2.3)	U (2.3)	U (2.3)	U (2.3)	U (2.3)
Perfluorooctane Sulfonate (PFOS)	U (2.1)	U (2.1)	U (2.1)	U (2.1)	U (2.1)

Notes:

1 All concentrations are presented in ng/L.

Abbreviations:

U -- Not Detected.

( ) -- Method Detection Limit.

TABLE 4
Summary of QAQC Sampling Results
SGPP Hoosick Falls

Location	QAQC	QAQC	QAQC	QAQC	QAQC
Field Sample ID	**SG1-RB01-150902**	**SG1-RB02-150902**	**SG1-RB03-150902**	**SG1-RB04-150902**	**SG1-RB05-150902**
Sample Date	**9/2/2015**	**9/2/2015**	**9/2/2015**	**9/2/2015**	**9/2/2015**
Comments	**Rinsate Blank**	**Rinsate Blank**	**Rinsate Blank**	**Rinsate Blank**	**Rinsate Blank**
PFCS					
Perfluorobutane Sulfonate (PFBS)	U (8.5)	U (8.5)	U (8.5)	U (8.5)	U (8.5)
Perfluoroheptanoic Acid (PFHpA)	U (2.2)	U (2.2)	U (2.2)	U (2.2)	U (2.2)
Perfluorohexane Sulfonate (PFHxS)	U (2.9)	U (2.9)	U (2.9)	U (2.9)	U (2.9)
Perfluoro-n-Octanoic Acid (PFOA)	U (1.6)	U (1.6)	U (1.6)	U (1.6)	U (1.6)
Perfluorononanoic Acid (PFNA)	U (2.3)	U (2.3)	U (2.3)	U (2.3)	U (2.3)
Perfluorooctane Sulfonate (PFOS)	U (2.1)	U (2.1)	U (2.1)	U (2.1)	U (2.1)

Notes:

1 All concentrations are presented in ng/L.

Abbreviations:

U -- Not Detected.

( ) -- Method Detection Limit.

TABLE 4
Summary of QAQC Sampling Results
SGPP Hoosick Falls

Location	QAQC	QAQC	QAQC	QAQC	QAQC
Field Sample ID	**SG1-RB06-150902**	**SG1-TB01-150902**	**SG1-TB02-150903**	**SG1-RB01-150930**	**SG1-TB01-150930**
Sample Date	**9/2/2015**	**9/2/2015**	**9/3/2015**	**9/30/2015**	**9/30/2015**
Comments	**Rinsate Blank**	**Trip Blank**	**Trip Blank**	**Rinsate Blank**	**Trip Blank**
PFCS					
Perfluorobutane Sulfonate (PFBS)	U (8.5)	U (8.5)	U (8.5)	U (8.5)	U (4.7)
Perfluoroheptanoic Acid (PFHpA)	U (2.2)	U (2.2)	U (2.2)	U (2.2)	U (5.4)
Perfluorohexane Sulfonate (PFHxS)	U (2.9)	U (2.9)	U (2.9)	U (2.9)	U (5.4)
Perfluoro-n-Octanoic Acid (PFOA)	U (1.6)	U (1.6)	U (1.6)	U (1.6)	U (4.4)
Perfluorononanoic Acid (PFNA)	U (2.3)	U (2.3)	U (2.3)	U (2.3)	U (6.3)
Perfluorooctane Sulfonate (PFOS)	U (2.1)	U (2.1)	U (2.1)	U (2.1)	U (3.7)

Notes:

1 All concentrations are presented in ng/L.

Abbreviations:

U -- Not Detected.

( ) -- Method Detection Limit.

TABLE 4
Summary of QAQC Sampling Results
SGPP Hoosick Falls

Location	QAQC	QAQC	QAQC	QAQC	QAQC
Field Sample ID	**SG1-TB02-150930**	**SG1-FB01-151001**	**SG1-RB01-151001**	**SG1-TB03-151001**	**SG1-FB01-151027**
Sample Date	**9/30/2015**	**10/1/2015**	**10/1/2015**	**10/1/2015**	**10/27/2015**
Comments	**Trip Blank**	**Field Blank**	**Rinsate Blank**	**Trip Blank**	**Field Blank**
PFCS					
Perfluorobutane Sulfonate (PFBS)	U (8.5)	U (8.5)	U (8.5)	U (8.5)	U (8.5)
Perfluoroheptanoic Acid (PFHpA)	U (2.2)	U (2.2)	U (2.2)	U (2.2)	U (2.2)
Perfluorohexane Sulfonate (PFHxS)	U (2.9)	U (2.9)	U (2.9)	U (2.9)	U (2.9)
Perfluoro-n-Octanoic Acid (PFOA)	U (1.6)	U (1.6)	U (1.6)	U (1.6)	U (1.6)
Perfluorononanoic Acid (PFNA)	U (2.3)	U (2.3)	U (2.3)	U (2.3)	U (2.3)
Perfluorooctane Sulfonate (PFOS)	U (2.1)	U (2.1)	U (2.1)	U (2.1)	U (2.1)

Notes:

1 All concentrations are presented in ng/L.

Abbreviations:

U -- Not Detected.

( ) -- Method Detection Limit.

TABLE 4
Summary of QAQC Sampling Results
SGPP Hoosick Falls

Location	QAQC	QAQC	QAQC
Field Sample ID	**SG1-RB01-151027**	**SG1-RB02-151027**	**SG1-TP01-151027**
Sample Date	**10/27/2015**	**10/27/2015**	**10/27/2015**
Comments	**Rinsate Blank**	**Rinsate Blank**	**Trip Blank**
PFCS			
Perfluorobutane Sulfonate (PFBS)	U (8.5)	U (8.5)	U (8.5)
Perfluoroheptanoic Acid (PFHpA)	U (2.2)	U (2.2)	U (2.2)
Perfluorohexane Sulfonate (PFHxS)	U (2.9)	U (2.9)	U (2.9)
Perfluoro-n-Octanoic Acid (PFOA)	U (1.6)	U (1.6)	U (1.6)
Perfluorononanoic Acid (PFNA)	U (2.3)	U (2.3)	U (2.3)
Perfluorooctane Sulfonate (PFOS)	U (2.1)	U (2.1)	U (2.1)

Notes:

1 All concentrations are presented in ng/L.

Abbreviations:

U -- Not Detected.

( ) -- Method Detection Limit.

TABLE 5
Groundwater Elevation Data
SGPP Hoosick Falls

Well ID	Top of Casing Elevation (ft AMSL)	8/27/2015			9/2/2015		
		Depth to Water (feet below TOC)	Depth of Well (feet below TOC)	Water Elevation (ft AMSL)	Depth to Water (feet below TOC)	Depth of Well (feet below TOC)	Water Elevation (ft AMSL)
MW-1S*	455.01	5.57	14.73	449.44	10.44	14.73	444.57
MW-1	455.46	21.19	26.72	434.27	23.60	26.72	431.86
MW-2S*	460.21	13.63	19.03	446.58	13.10	19.03	447.11
MW-2	460.11	31.26	44.42	428.85	31.24	44.42	428.87
MW-3	436.33	12.13	18.51	424.2	12.46	18.51	423.87
MW-4	430.86	12.50	25.77	418.36	12.66	25.77	418.20
MW-5	433.50	11.72	21.42	421.78	12.02	21.42	421.48

Notes:

* = shallow monitoring well with perched groundwater

ft AMSL = feet above mean sea level

TOC = top of casing at monitoring well

II. Figures

Figure 1: Site Location Map

Figure 2: Site Plan

0 1/2 1

Scale in Miles

2000 0 2000 4000

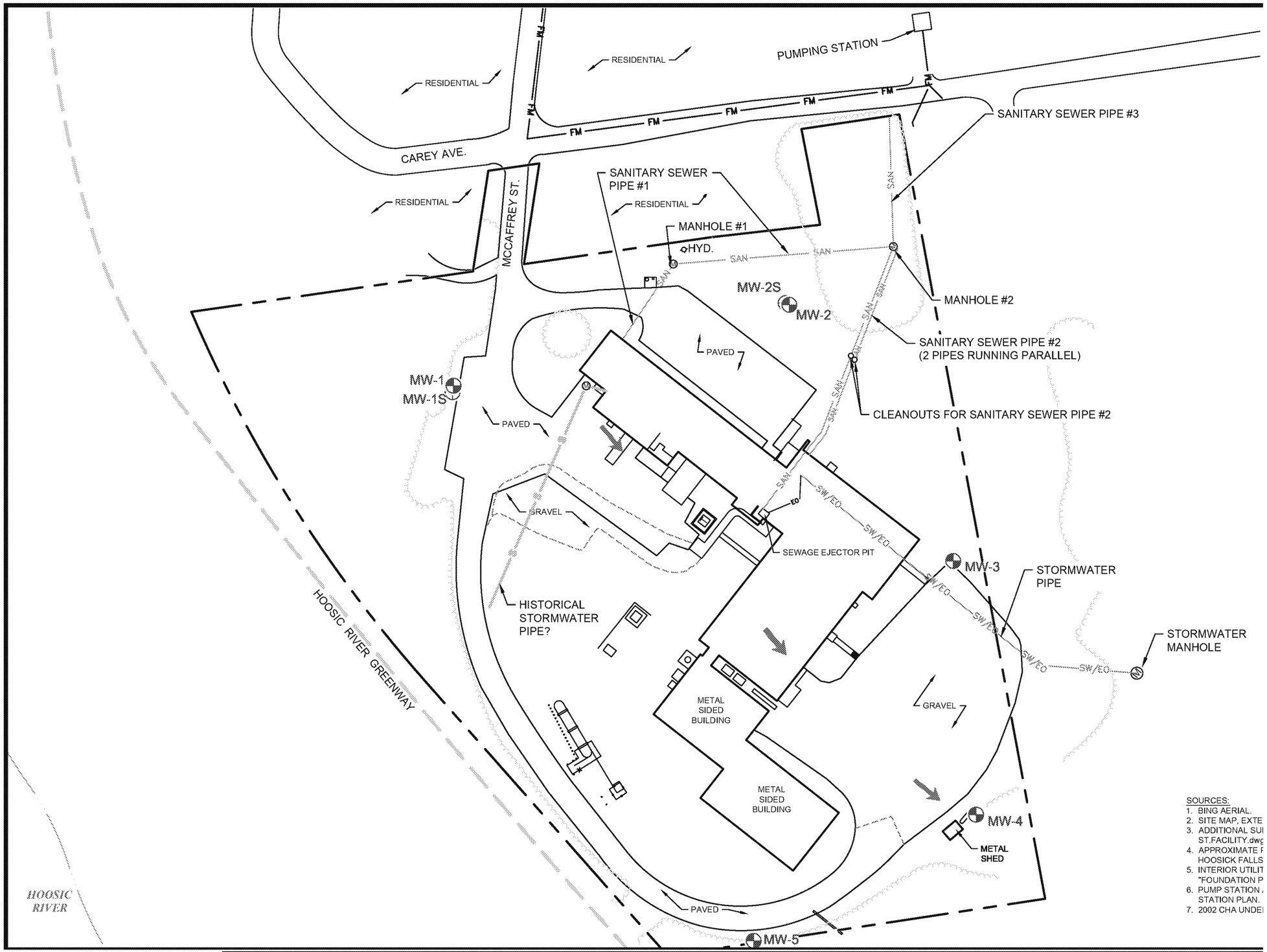
Scale in Feet

N

SOURCE:
USGS 7.5 MINUTE TOPOGRAPHIC QUADRANGLES:
2013 EAGLE BRIDGE, HOOSICK FALLS, GRAFTON, NY AND 2011 NORTH POWNAL, VT. MAP SCALE: 1:24,000. SITE LOCATION: N: 42.893771° W: 73.357085° WGS84.

		SITE LOCATION MAP SAINT GOBAIN PERFORMANCE PLASTICS McCAFFREY STREET PLANT HOOSICK FALLS, NY	FIGURE **1**
DRAFTED BY: KPM	DATE: 02/03/2016		PROJECT: 0237128B

KMAUGHAN 2/3/16 F:\0237128_SGPP_CLIENT_REVIEW_JAN 2016 < SLM_HOOSICK FALLS NY_0237128 >



SOURCES:
1. BING AERIAL.
2. SITE MAP, EXTE
3. ADDITIONAL SUI ST.FACILITY.dwg
4. APPROXIMATE F HOOSICK FALLS
5. INTERIOR UTILIT "FOUNDATION P
6. PUMP STATION , STATION PLAN.
7. 2002 CHA UNDEI

SITE PLAN

SAINT GOBAIN PERFORMANCE PLASTICS
McCAFFREY STREET PLANT
HOOSICK FALLS, NY

DRAFTED BY: KPM | DATE: 02/03/2016

KMAUGHAN 2/3/16 F:\0237128_SGPP_CLIENT_REVIEW_JAN 2016 < SITE PLAN_HOOSICK FALLS NY_0237128 >

III. Data Validation Reports

LEVEL II DATA VALIDATION REVIEW
Field Sampling Event
Saint Gobain Facility
14 McCaffrey Street
Hoosick Falls, New York

Laboratory Sample Delivery Groups (SDGs): 345165

Laboratory: Eurofins | Eaton Analytical, South Bend, Indiana

Reviewer: Wendy Stonestreet **Date Reviewed: September 17, 2015**

This data validation report has been prepared by Ramboll Environ US Corporation (Ramboll Environ) to assess the validity and usability of laboratory analytical data generated from samples collected during the field sampling event at the Saint Gobain Facility in Hoosick Falls, New York on July 29, 2015.

The analytical data were evaluated for quality assurance and quality control (QA/QC) based on the following documents:

- Field Sampling Plan, Saint Gobain Facility (July 2015);
- USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008); and
- DER-10/Technical Guidance for Site Investigation and Remediation (May 2010).

Analytical services for determination of selected perfluorinated alkyl acids (PFAAs) was provided by Eurofins | Eaton Analytical (Eurofins) of South Bend, Indiana.

This report summarizes the QA/QC evaluation of the data according to precision, accuracy, representativeness, completeness and comparability relative to the project data quality objectives. This report provides a quantitative and qualitative assessment of the data and identifies potential sources of error, uncertainty, and bias that may affect the overall usability of the data.

Eight (8) aqueous samples were submitted to the laboratory for PFAA analysis and are evaluated in this data validation report. The following table lists the samples identification and analysis associated with this SDG.

Field ID	Sample Type	Lab ID	Matrix	Analyses
				PFAAs
SG1-RB01-150729	RB	3289462	Aqueous	X
SG1-RB02-150729	RB	3289463	Aqueous	X
SG1-RB03-150729	RB	3289464	Aqueous	X
SG1-RB04-150729	RB	3289465	Aqueous	X
SG1-RB05-150729	RB	3289466	Aqueous	X
SG1-RB06-150729	RB	3289467	Aqueous	X
SG1-FB01-150729	SA	3289468	Aqueous	X
SG1-TB01-150729	TB	3289469	Aqueous	X

Sample Type: SA = Sample TB = Trip Blank FD = Field Duplicate RB = Rinsate Blank
MS =Matrix Spike MSD = Matrix Spike Duplicate
PFAAs = Perfluorinated alkyl acids by USEPA Method SW-846 537 by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS).

The following components of the laboratory report were evaluated as part of this Tier II Data Validation Review:

- Data Package Completeness,
- Sample Preservation and Holding Times,
- Blanks,
- Surrogate Compound Recoveries
- Laboratory Control Samples,
- Matrix Spike/Matrix Spike Duplicates,
- Laboratory and Field Precision,
- Overall Assessment of Data.

Based on the results of the Tier II Data Validation Review, the following conclusion was determined regarding data usability.

General Overall Assessment:

___X___ Data are usable without qualification.

_____ Data are usable with qualification (noted below).

_____ Some or all data are unusable for any purpose (detailed below).

More analysis of specific data quality topics and parameters are discussed below.

Case Narrative Comments: Any case narrative comments concerning data qualification are noted below.

1.0 Data Package Completeness

Q: *Were all items delivered as specified on the Chain of Custody (COC) and is the data package complete?*

A: Yes, the analysis was performed as requested on the chain-of-custody records. All sample ID's noted on the COC were revised by the laboratory per Rob Huening of Ramboll Environ on July 30, 2015. All samples were received by the laboratory and analyzed properly with appropriate corrective actions taken when appropriate. No data points were rejected. The data completeness measure for this data package is 100% and is acceptable.

2.0 Laboratory Case Narrative, Sample Preservation and Cooler Receipt Form

Q: *Were problems noted in the laboratory case narrative or cooler receipt form?*

A: Samples were received by the laboratory in good condition and at proper temperature. However, the laboratory case narrative did indicate the following notation regarding sample volume:

> *The laboratory noted that two samples were evaluated at an elevated reporting limit due to smaller sample volume analyzed.*

These elevated detection limits represent a small loss of sensitivity but do not affect overall usability of the data.

3.0 Technical Holding Times

Q: *Were samples extracted/analyzed within method specific holding time requirements?*

A: Yes. All samples were prepared and/or analyzed within the method specific required holding time.

4.0 Blank Contamination

Q: *Were any analytes detected in the associated laboratory or field blanks?*

A: No. All blanks results were reported as non-detect.

5.0 Surrogate Recoveries

Q: *Were surrogate recoveries within evaluation criteria?*

A: Yes. Surrogates are added to all samples prior to purging to evaluate the laboratory performance on individual samples. Two surrogates (SS-PFDA-13C2 and SS-PFHxA-13C2) were added to each sample. Percent recoveries (%R) for all surrogates in all samples were within the method acceptance limits of 70-130%. No analytical data were qualified based on the recoveries of the surrogate compounds.

6.0 Internal Standards

Q: *Were the internal standard areas within control limits and was the retention time criteria met?*

A: Yes. Internal standards indicate whether MS sensitivity and response were stable during each analysis. The laboratory reported that all criteria were within method requirements. No analytical data were qualified based on the results of internal standard recovery.

7.0 Fortified Blank Samples

Q: *Were fortified blank sample recoveries within evaluation criteria?*

A: Yes. Per the method, the laboratory ran a fortified blank (FB) at low, medium and high concentrations. All recoveries were within laboratory control limits and no analytical data were qualified based on the results of the fortified blanks.

8.0 Matrix Spike and Matrix Spike Duplicate (MS/MSD) Recoveries

Q: *Were MS/MSD samples reported as part of these SDGs?*

A: No. Matrix spike recoveries were not submitted for analysis and the accuracy evaluation was determined to be satisfactory based on the results of the FB samples.

9.0 Laboratory Duplicate Results

Q: *Were laboratory duplicate samples performed as part of this SDG?*

A: No. This is due to the small size of the sample batch. Since all samples were used for QC purposes, the lack of precision metrics does not affect usability.

10.0 Field Duplicate Results (Field Precision)

Q: *Were field duplicate samples collected as part of the evaluated SDGs?*

A: No

11.0 Detects and Calibration Range

Q: *For samples that were diluted and nondetect, were undiluted results also reported?*

A: Not Applicable. Samples were not diluted. However, two reporting limits were elevated due to reduced sample volume. While this non-conformance to established reporting limits does not affect the usability of the data, it does reduce the sensitivity of the instrument.

Q: *For samples that were not diluted and detected, were the results within calibration range?*

A: Yes

12.0 Additional Qualifications

Q: *Were additional qualifications applied?*

A: No

13.0 Overall Data Assessment

The data are usable for its intended purpose based on an evaluation of the QC parameters discussed in this report.

LEVEL II DATA VALIDATION REVIEW
Field Sampling Event
Saint Gobain Facility
14 McCaffrey Street
Hoosick Falls, New York

Laboratory Sample Delivery Groups (SDGs): 345317

Laboratory: Eurofins | Eaton Analytical, South Bend, Indiana

Reviewer: Wendy Stonestreet **Date Reviewed: September 18, 2015**

This data validation report has been prepared by Ramboll Environ US Corporation (Ramboll Environ) to assess the validity and usability of laboratory analytical data generated from samples collected during the field sampling event at the Saint Gobain Facility in Hoosick Falls, New York on July 31, 2015.

The analytical data were evaluated for quality assurance and quality control (QA/QC) based on the following documents:

- Field Sampling Plan, Saint Gobain Facility (July 2015);
- USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008); and
- DER-10/Technical Guidance for Site Investigation and Remediation (May 2010).

Analytical services for determination of selected perfluorinated alkyl acids (PFAAs) was provided by Eurofins | Eaton Analytical (Eurofins) of South Bend, Indiana.

This report summarizes the QA/QC evaluation of the data according to precision, accuracy, representativeness, completeness and comparability relative to the project data quality objectives. This report provides a quantitative and qualitative assessment of the data and identifies potential sources of error, uncertainty, and bias that may affect the overall usability of the data.

Three (3) aqueous samples were submitted to the laboratory for PFAA analysis and are evaluated in this data validation report. The following table lists the samples identification and analysis associated with this SDG.

Field ID	Sample Type	Lab ID	Matrix	Analyses
				PFAAs
SG1-FB01-150731	FB	3290665	Aqueous	X
SG1-FB02-150731	FB	3290666	Aqueous	X
SG1-TB01-150731	TB	3290667	Aqueous	X

Sample Type: SA = Sample TB = Trip Blank FB = Field Blank RB = Rinsate Blank
MS =Matrix Spike MSD = Matrix Spike Duplicate
PFAAs = Perfluorinated alkyl acids by USEPA Method SW-846 537 by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS).

The following components of the laboratory report were evaluated as part of this Tier II Data Validation Review:

- Data Package Completeness,
- Sample Preservation and Holding Times,
- Blanks,
- Surrogate Compound Recoveries
- Laboratory Control Samples,
- Matrix Spike/Matrix Spike Duplicates,
- Laboratory and Field Precision,
- Overall Assessment of Data.

Based on the results of the Tier II Data Validation Review, the following conclusion was determined regarding data usability.

General Overall Assessment:

___X___ Data are usable without qualification.

_____ Data are usable with qualification (noted below).

_____ Some or all data are unusable for any purpose (detailed below).

Case Narrative Comments: Any case narrative comments concerning data qualification are noted below.

1.0 Data Package Completeness

Q: *Were all items delivered as specified on the Chain of Custody (COC) and is the data package complete?*

A: Yes, the analysis was performed as requested on the chain-of-custody records. All samples were received by the laboratory and analyzed properly with appropriate corrective actions taken when applicable. No data points were rejected. The data completeness measure for this data package is 100% and is acceptable.

2.0 Laboratory Case Narrative, Sample Preservation and Cooler Receipt Form

Q: *Were problems noted in the laboratory case narrative or cooler receipt form?*

A: No. The laboratory did not note any problems in the laboratory case narrative or cooler receipt form.

3.0 Technical Holding Times

Q: Were samples extracted/analysed within method specific holding time requirements?

A: Yes. All samples were prepared and/or analyzed within the method specific required holding time.

4.0 Blank Contamination

Q: Were any analytes detected in the associated laboratory or field blanks?

A: No. All blanks results were reported as non-detect.

5.0 Surrogate Recoveries

Q: *Were surrogate recoveries within evaluation criteria?*

A: Yes. Surrogates are added to all samples prior to purging to evaluate the laboratory performance on individual samples. Two surrogates (SS-PFDA-13C2 and SS-PFHxA-13C2) were added to each sample. Percent recoveries (%R) for all surrogates in all samples were within the method acceptance limits of 70-130%.

No analytical data were qualified based on the recoveries of the surrogate compounds.

6.0 Internal Standards

Q: Were the internal standard areas within control limits and was the retention time criteria met?

A: Yes. Internal standards indicate whether MS sensitivity and response were stable during each analysis. The laboratory reported that all criteria were within method requirements.

No analytical data were qualified based on the results of internal standard recovery.

7.0 Fortified Blank Samples

Q: *Were fortified blank sample recoveries within evaluation criteria?*

A: Yes. Per the method, the laboratory ran a fortified blank (FB) at low, medium and high concentrations. All recoveries were within laboratory control limits and no analytical data were qualified based on the results of the fortified blanks.

8.0 Matrix Spike and Matrix Spike Duplicate (MS/MSD) Recoveries

Q: *Were MS/MSD samples reported as part of these SDGs?*

A: No. Matrix spike recoveries were not submitted for analysis and the accuracy evaluation was determined to be satisfactory based on the results of the FB samples.

9.0 Laboratory Duplicate Results

Q: Were laboratory duplicate samples performed as part of this SDG?

A: No. Since all samples were used for QC purposes, the lack of precision metrics does not affect usability.

10.0 Field Duplicate Results (Field Precision)

Q: *Were field duplicate samples collected as part of the evaluated SDGs?*

A: No. This is due to the small size of the sample batch.

11.0 Detects and Calibration Range

Q: For samples that were diluted and nondetect, were undiluted results also reported?

A: Not Applicable. Samples were not diluted.

Q: For samples that were not diluted and detected, were the results within calibration range?

A: Not Applicable. No detections were reported.

12.0 Additional Qualifications

Q: *Were additional qualifications applied?*

A: No

13.0 Overall Data Assessment

The data are usable for its intended purpose based on an evaluation of the QC parameters discussed in this report.

LEVEL II DATA VALIDATION REVIEW
Field Sampling Event
Saint Gobain Facility
14 McCaffrey Street
Hoosick Falls, New York

Laboratory Sample Delivery Groups (SDGs): 346703

Laboratory: Eurofins | Eaton Analytical, South Bend, Indiana

Reviewer: Wendy Stonestreet **Date Reviewed: September 18, 2015**

This data validation report has been prepared by Ramboll Environ US Corporation (Ramboll Environ) to assess the validity and usability of laboratory analytical data generated from samples collected during the field sampling event at the Saint Gobain Facility in Hoosick Falls, New York on August 7, 2015 and August 10th through August 13th, 2015.

The analytical data were evaluated for quality assurance and quality control (QA/QC) based on the following documents:

- Field Sampling Plan, Saint Gobain Facility (July 2015);
- USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008); and
- DER-10/Technical Guidance for Site Investigation and Remediation (May 2010).

Analytical services for determination of selected perfluorinated alkyl acids (PFAAs) was provided by Eurofins | Eaton Analytical (Eurofins) of South Bend, Indiana.

This report summarizes the QA/QC evaluation of the data according to precision, accuracy, representativeness, completeness and comparability relative to the project data quality objectives. This report provides a quantitative and qualitative assessment of the data and identifies potential sources of error, uncertainty, and bias that may affect the overall usability of the data.

Thirteen (13) aqueous samples were submitted to the laboratory for PFAA analysis and are evaluated in this data validation report. The following table lists the samples identification and analysis associated with this SDG.

Field ID	Sample Type	Lab ID	Matrix	Analyses
				PFAAs
SG1-TB01-150807	TB	3301316	Aqueous	X
SG1-RB01-150807	RB	3301317	Aqueous	X
SG1-FB01-150810	SA	3301318	Aqueous	X
SG1-RB01-150810	RB	3301319	Aqueous	X
SG1-RB02-150810	RB	3301320	Aqueous	X
SG1-RB03-150810	RB	3301321	Aqueous	X
SG1-RB01-150811	RB	3301322	Aqueous	X
SG1-RB02-150811	RB	3301323	Aqueous	X
SG1-RB03-150811	RB	3301324	Aqueous	X
SG1-RB01-150812	RB	3301325	Aqueous	X

SG1-RB01-150813	RB	3301326	Aqueous	X
SG1-RB02-150813	RB	3301327	Aqueous	X
SG1-RB03-150813	RB	3301328	Aqueous	X

Sample Type: SA = Sample TB = Trip Blank FB = Field Blank RB = Rinsate Blank
MS =Matrix Spike MSD = Matrix Spike Duplicate
PFAAs = Perfluorinated alkyl acids by USEPA Method SW-846 537 by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS).

The following components of the laboratory report were evaluated as part of this Tier II Data Validation Review:

- Data Package Completeness,
- Sample Preservation and Holding Times,
- Blanks,
- Surrogate Compound Recoveries
- Laboratory Control Samples,
- Matrix Spike/Matrix Spike Duplicates,
- Laboratory and Field Precision,
- Overall Assessment of Data.

Based on the results of the Tier II Data Validation Review, the following conclusion was determined regarding data usability.

General Overall Assessment:

___X___ Data are usable without qualification.

_____ Data are usable with qualification (noted below).

_____ Some or all data are unusable for any purpose (detailed below).

More analysis of specific data quality topics and parameters are discussed below.

Case Narrative Comments: Any case narrative comments concerning data qualification were noted below.

1.0 Data Package Completeness

Q: *Were all items delivered as specified on the Chain of Custody (COC) and is the data package complete?*

A: Yes, the analysis was performed as requested on the chain-of-custody records. All samples were received by the laboratory and analyzed properly with appropriate corrective actions taken when applicable. No data points were rejected. The data completeness measure for this data package is 100% and is acceptable.

2.0 Laboratory Case Narrative, Sample Preservation and Cooler Receipt Form

Q: *Were problems noted in the laboratory case narrative or cooler receipt form?*

A: No. The laboratory did not note any problems in the laboratory case narrative or cooler receipt form.

3.0 Technical Holding Times

Q: Were samples extracted/analyzed within method specific holding time requirements?

A: Yes. All samples were prepared and/or analyzed within the method specific required holding time.

4.0 Blank Contamination

Q: Were any analytes detected in the associated laboratory or field blanks?

A: No. All blanks results were reported as non-detect.

5.0 Surrogate Recoveries

Q: *Were surrogate recoveries within evaluation criteria?*

A: Yes. Surrogates are added to all samples prior to purging to evaluate the laboratory performance on individual samples. Two surrogates (SS-PFDA-13C2 and SS-PFHxA-13C2) were added to each sample. Percent recoveries (%R) for all surrogates in all samples were within the method acceptance limits of 70-130%.

No analytical data were qualified based on the recoveries of the surrogate compounds.

6.0 Internal Standards

Q: Were the internal standard areas within control limits and was the retention time criteria met?

A: Yes. Internal standards indicate whether MS sensitivity and response were stable during each analysis. The laboratory reported that all criteria were within method requirements.

No analytical data were qualified based on the results of internal standard recovery.

7.0 Fortified Blank Samples

Q: *Were fortified blank sample recoveries within evaluation criteria?*

A: Yes. Per the method, the laboratory ran a fortified blank (FB) at low, medium and high concentrations. All recoveries were within laboratory control limits and no analytical data were qualified based on the results of the fortified blanks.

8.0 Matrix Spike and Matrix Spike Duplicate (MS/MSD) Recoveries

Q:*Were MS/MSD samples reported as part of these SDGs?*

A: No. Matrix spike recoveries were not submitted for analysis and the accuracy evaluation was determined to be satisfactory based on the results of the FB samples.

9.0 Laboratory Duplicate Results

Q: *Were laboratory duplicate samples performed as part of this SDG?*

A: No. This is due to the small size of the sample batch. Since all samples were used for QC purposes, the lack of precision metrics does not affect usability.

10.0 Field Duplicate Results (Field Precision)

Q: *Were field duplicate samples collected as part of the evaluated SDGs?*

A: No

11.0 Detects and Calibration Range

Q: For samples that were diluted and nondetect, were undiluted results also reported?

A: Not Applicable. Samples were not diluted.

Q: For samples that were not diluted and detected, were the results within calibration range?

A: Not Applicable. No detections were reported.

12.0 Additional Qualifications

Q: *Were additional qualifications applied?*

A: No

13.0 Overall Data Assessment

The data are usable for its intended purpose based on an evaluation of the QC parameters discussed in this report.

LEVEL II DATA VALIDATION REVIEW
Field Sampling Event
Saint Gobain Facility
14 McCaffrey Street
Hoosick Falls, New York

Laboratory Sample Delivery Groups (SDGs): 348249

Laboratory: Eurofins | Eaton Analytical, South Bend, Indiana

Reviewer: Wendy Stonestreet **Date Reviewed: September 18, 2015**

This data validation report has been prepared by Ramboll Environ US Corporation (Ramboll Environ) to assess the validity and usability of laboratory analytical data generated from samples collected during the field sampling event at the Saint Gobain Facility in Hoosick Falls, New York on September 2 and September 3, 2015.

The analytical data were evaluated for quality assurance and quality control (QA/QC) based on the following documents:

- Field Sampling Plan, Saint Gobain Facility (July 2015);
- USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008); and
- DER-10/Technical Guidance for Site Investigation and Remediation (May 2010).

Analytical services for determination of selected perfluorinated alkyl acids (PFAAs) was provided by Eurofins | Eaton Analytical (Eurofins) of South Bend, Indiana.

This report summarizes the QA/QC evaluation of the data according to precision, accuracy, representativeness, completeness and comparability relative to the project data quality objectives. This report provides a quantitative and qualitative assessment of the data and identifies potential sources of error, uncertainty, and bias that may affect the overall usability of the data.

Seventeen (17) aqueous samples were submitted to the laboratory for PFAA analysis and are evaluated in this data validation report. The following table lists the samples identification and analysis associated with this SDG.

Field ID	Sample Type	Lab ID	Matrix	Analyses
				PFAAs
SG1-TB01-150902	TB	3315941	Aqueous	X
SG1-RB01-150902	SA	3315942	Aqueous	X
SG1-RB02-150902	SA	3315943	Aqueous	X
SG1-RB03-150902	SA	3315944	Aqueous	X
SG1-RB04-150902	SA	3315945	Aqueous	X
SG1-MW02-150902	SA	3315946	Aqueous	X
SG1-RB05-150902	SA	3315947	Aqueous	X
SG1-RB06-150902	SA	3315948	Aqueous	X
SG1-FB01-150902	SA	3315949	Aqueous	X
SG1-MW02S-150902	SA	3315950	Aqueous	X

SG1-MW01D-150903	SA	3315951	Aqueous	X
SG1-MW01S-150903	SA	3315952	Aqueous	X
SG1-MW05-150903	SA/MS/ MSD	3315953, 3315954, 3315955	Aqueous	X
SG1-TB01-150903	TB	3315956	Aqueous	X
SG1-MW04-150903	SA	3315957	Aqueous	X
SG1-DS01-150903	FD	3315958	Aqueous	X
SG1-MW03-150903	SA	3315959	Aqueous	X

Sample Type: SA = Sample TB = Trip Blank FD = Field Duplicate RB = Rinsate Blank
MS =Matrix Spike MSD = Matrix Spike Duplicate
PFAAs = Perfluorinated alkyl acids by USEPA Method SW-846 537 by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS).

The following components of the laboratory report were evaluated as part of this Tier II Data Validation Review:

- Data Package Completeness,
- Sample Preservation and Holding Times,
- Blanks,
- Surrogate Compound Recoveries
- Laboratory Control Samples,
- Matrix Spike/Matrix Spike Duplicates,
- Laboratory and Field Precision,
- Overall Assessment of Data.

Based on the results of the Tier II Data Validation Review, the following conclusion was determined regarding data usability.

General Overall Assessment:

___X___ Data are usable without qualification.

_____ Data are usable with qualification (noted below).

_____ Some or all data are unusable for any purpose (detailed below).

More analysis of specific data quality topics and parameters are discussed below.

Case Narrative Comments: Any case narrative comments concerning data qualification were noted below.

1.0 Data Package Completeness

Q: *Were all items delivered as specified on the Chain of Custody (COC) and is the data package complete?*

A: Yes, the analysis was performed as requested on the chain-of-custody records. All samples were received by the laboratory and analyzed properly with appropriate corrective actions taken when appropriate. No data points were rejected. The data completeness measure for this data package is 100% and is acceptable.

2.0 Laboratory Case Narrative, Sample Preservation and Cooler Receipt Form

Q: *Were problems noted in the laboratory case narrative or cooler receipt form?*

A: Yes, a deviation from EPA Method 537 was noted on the chain of custody (cooler receipt form), as described below. Samples were received at the Eurofins, South Bend, Indiana laboratory in good condition. Two coolers were received at 1.4°C and 0.2°C which were below the proper temperature range 4°C ± 2°C. However, given that the temperature was taken using an Infrared thermometer, which has an error tolerance of +/-1.0 degrees Celsius, and the laboratory did not note any freezing of the samples, this non-conformance does not affect the usability of the data.

3.0 Technical Holding Times

Q: Were samples extracted/analyzed within method specific holding time requirements?

A: Yes. All samples were prepared and/or analyzed within the method specific required holding time.

4.0 Blank Contamination

Q: Were any analytes detected in the associated laboratory or field blanks?

A: No. All blanks results were reported as non-detect.

5.0 Surrogate Recoveries

Q: *Were surrogate recoveries within evaluation criteria?*

A: Yes. Surrogates are added to all samples prior to purging to evaluate the laboratory performance on individual samples. Two surrogates (SS-PFDA-13C2 and SS-PFHxA-13C2) were added to each sample. Percent recoveries (%R) for all surrogates in all samples were within the method acceptance limits of 70-130%.

No analytical data were qualified based on the recoveries of the surrogate compounds.

6.0 Internal Standards

Q: Were the internal standard areas within control limits and was the retention time criteria met?

A: Yes. Internal standards indicate whether MS sensitivity and response were stable during each analysis. The laboratory reported that all criteria were within method requirements.

No analytical data were qualified based on the results of internal standard recovery.

7.0 Fortified Blank Samples

Q: *Were fortified blank sample recoveries within evaluation criteria?*

A: Yes. Per the method, the laboratory ran a fortified blank (FB) at low, medium and high concentrations. All recoveries were within laboratory control limits and no analytical data were qualified based on the results of the fortified blanks.

8.0 Matrix Spike and Matrix Spike Duplicate (MS/MSD) Recoveries

Q: *Were MS/MSD samples reported as part of these SDGs?*

A: Yes. A matrix spike and matrix spike duplicate was submitted to the laboratory for analysis. All MS/MSD recoveries were reported within the laboratory acceptance limits of 50-150% indicating satisfactory analytical accuracy. In addition all MS/MSD relative percent differences (RPDs) were reported within laboratory acceptance limits indicating satisfactory analytical precision.

9.0 Laboratory Duplicate Results

Q: *Were laboratory duplicate samples performed as part of this SDG?*

A: Yes. All duplicate RPDs were within control limits.

10.0 Field Duplicate Results (Field Precision)

Q: *Were field duplicate samples collected as part of the evaluated SDGs?*

A: Yes, the evaluated relative percent differences (RPDs) between the reported results are indicated in the following table.

Analyte	SG1-MW03-150903 (ng/L)	SG1-DS01-150903 (ng/L)	RPD (%)
Perfluorooctanoic Acid (PFOA)	4200	5300	23.2%

ng/L = nanograms/Liter RPD = Relative Percent Difference

11.0 Detects and Calibration Range

Q: For samples that were diluted and nondetect, were undiluted results also reported?

A: Not Applicable. Samples were not diluted.

Q: For samples that were not diluted and detected, were the results within calibration range?

A: Yes

12.0 Additional Qualifications

Q: *Were additional qualifications applied?*

A: No

13.0 Overall Data Assessment

The data are usable for its intended purpose based on an evaluation of the QC parameters discussed in this report.

LEVEL II DATA VALIDATION REVIEW
Field Sampling Event
Saint Gobain Facility
14 McCaffrey Street
Hoosick Falls, New York

Laboratory Sample Delivery Groups (SDGs): 350056 (Eurofins) and B5J9607 (Maxxam)

Laboratory: Eurofins | Eaton Analytical, South Bend, Indiana and Maxxam Analytics, Mississauga, Ontario

Reviewer: Wendy Stonestreet **Date Reviewed: October 13, 2015**

This data validation report has been prepared by Ramboll Environ US Corporation (Ramboll Environ) to assess the validity and usability of laboratory analytical data generated from samples collected during the field sampling event at the Saint Gobain Facility in Hoosick Falls, New York on September 30, 2015.

The analytical data were evaluated for quality assurance and quality control (QA/QC) based on the following documents:

- Field Sampling Plan, Saint Gobain Facility (July 2015);
- USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008); and
- DER-10/Technical Guidance for Site Investigation and Remediation (May 2010).

Analytical services for determination of selected perfluorinated alkyl acids (PFAAs) was provided by Eurofins | Eaton Analytical (Eurofins) of South Bend, Indiana and split samples were sent to Maxxam Analytics (Maxxam) in Mississauga, Ontario.

This report summarizes the QA/QC evaluation of the data according to precision, accuracy, representativeness, completeness and comparability relative to the project data quality objectives. This report provides a quantitative and qualitative assessment of the data and identifies potential sources of error, uncertainty, and bias that may affect the overall usability of the data.

Three (3) aqueous samples were submitted to the Eurofins and Maxxam laboratories for PFAA analysis and evaluated in this data validation report. The following table lists the samples identification and analysis associated with this SDG.

Field ID	Sample Type	Lab ID Eurofins/Maxxam	Matrix	Analyses
				PFAAs
SG1-MW02-150930	SA	3332984 (Eurofins), BBX430 (Maxxam)	Aqueous	X
SG1-TB01-150930	TB	BBX431 (Maxxam)	Aqueous	X
SG1-TB02-150930	TB	3332985 (Eurofins)	Aqueous	X

Sample Type: SA = Sample TB = Trip Blank FD = Field Duplicate RB = Rinsate Blank
MS =Matrix Spike MSD = Matrix Spike Duplicate
PFAAs = Perfluorinated alkyl acids by USEPA Method SW-846 537 by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS).

The following components of the laboratory report were evaluated as part of this Tier II Data Validation Review:

- Data Package Completeness,
- Sample Preservation and Holding Times,
- Blanks,
- Surrogate Compound Recoveries
- Laboratory Control Samples,
- Matrix Spike/Matrix Spike Duplicates,
- Laboratory and Field Precision,
- Overall Assessment of Data.

Based on the results of the Tier II Data Validation Review, the following conclusion was determined regarding data usability.

General Overall Assessment:

_____ Data are usable without qualification.

___X__ Data are usable with qualification (noted below).

_____ Some or all data are unusable for any purpose (detailed below).

More analysis of specific data quality topics and parameters are discussed below.

Case Narrative Comments: Any case narrative comments concerning data qualification were noted below.

1.0 Data Package Completeness

Q: *Were all items delivered as specified on the Chain of Custody (COC) and is the data package complete?*

A: Yes, the analysis was performed as requested on the chain-of-custody records. All samples were received by the laboratory and analyzed properly with appropriate corrective actions taken when appropriate. No data points were rejected. The data completeness measure for this data package is 100% and is acceptable.

2.0 Laboratory Case Narrative, Sample Preservation and Cooler Receipt Form

Q: *Were problems noted in the laboratory case narrative or cooler receipt form?*

A: Yes, a deviation from EPA Method 537 was noted on the chain of custody (cooler receipt form) from Eurofins. Samples were received at the Eurofins, South Bend, Indiana laboratory in good condition. One cooler was received at 1.2°C which was below the proper temperature range 4°C ± 2°C. However, given that the temperature was taken using an Infrared thermometer, which has an error tolerance of +/-1.0 degrees Celsius, and the laboratory did not note any freezing of the samples, this non-conformance does not affect the usability of the data.

The Maxxam data package case narrative indicated that one sample required dilution. See Section 11.0 for further discussion and resultant data qualification. The samples were received at the Maxxam laboratory in Mississauga, Ontario in good condition and proper temperature range (4°C ± 2°C).

3.0 Technical Holding Times

Q: Were samples extracted/analyzed within method specific holding time requirements?

A: Yes. All samples were prepared and/or analyzed within the method specific required holding time.

4.0 Blank Contamination

Q: Were any analytes detected in the associated laboratory or field blanks?

A: No. All blanks results were reported as non-detect.

5.0 Surrogate Recoveries

Q: *Were surrogate recoveries within evaluation criteria?*

A: Yes. Surrogates are added to all samples prior to purging to evaluate the laboratory performance on individual samples. Two surrogates (SS-PFDA-13C2 and SS-PFHxA-13C2) were added to each Eurofins evaluated sample. Percent recoveries (%R) for all surrogates in all samples were within the method acceptance limits of 70-130%.

Two surrogates (13C4-Perfluorooctanesulfonate and 13C4-Perfluorooctanoic acid) were added to each Maxxam evaluated sample. The recovery of 13C4-Perfluorooctanoic acid was reported at 136% which was slightly above the method acceptance limits of 70-130% for sample SG1-MW02-150930 indicating possible high analytical bias. All other surrogate recoveries were reported within laboratory control limits.

Data qualification of sample results due to surrogate recovery is summarized in the table below.

SDG	Field ID	Parameter	Analyte	Qualification
B5J9607	SG1-MW02-150930	PFAAs	Perfluoroheptanoic Acid (PFHpA)	J
			Perfluorooctanoic Acid (PFOA)	J

6.0 Internal Standards

Q: Were the internal standard areas within control limits and was the retention time criteria met?

A: Yes. Internal standards indicate whether MS sensitivity and response were stable during each analysis. The laboratory reported that all criteria were within method requirements.

No analytical data were qualified based on the results of internal standard recovery.

7.0 Fortified Blank Samples

Q: *Were fortified blank sample recoveries within evaluation criteria?*

A: Yes. Per the method, the laboratory ran a fortified blank (FB) at low, medium and high concentrations. All recoveries were within laboratory control limits and no analytical data were qualified based on the results of the fortified blanks.

8.0 Matrix Spike and Matrix Spike Duplicate (MS/MSD) Recoveries

Q: *Were MS/MSD samples reported as part of these SDGs?*

A: No. Matrix spike recoveries were not submitted for analysis and the accuracy evaluation was determined to be satisfactory based on the results of the FB samples.

9.0 Laboratory Duplicate Results

Q: *Were laboratory duplicate samples performed as part of this SDG?*

A: Yes. All duplicate RPDs were within laboratory control limits.

10.0 Field Duplicate Results (Field Precision)

Q: *Were field duplicate samples collected as part of the evaluated SDGs?*

A: No, however the results evaluated in these data packages were duplicate split samples. The evaluated relative percent differences (RPDs) between each laboratory's reported results are indicated in the following table.

Sample ID	Analyte	Eurofins SDG: 350056 (ug/L)	Maxxam SDG: B5J9607 (ug/L)	RPD (%)
SG1-MW02-150930	Perfluoroheptanoic Acid (PFHpA)	0.31	0.39	22.9%
	Perfluorooctanoic Acid (PFOA)	17.0	16.0	6.0%

ug/L = micrograms/Liter RPD = Relative Percent Difference

11.0 Detects and Calibration Range

Q: For samples that were diluted and nondetect, were undiluted results also reported?

A: Not Applicable. Samples which required dilution had reported results.

Q: For samples that were not diluted and detected, were the results within calibration range?

A: Yes

12.0 Additional Qualifications

Q: *Were additional qualifications applied?*

A: No

13.0 Overall Data Assessment

The data are usable for its intended purpose based on an evaluation of the QC parameters discussed in this report. Some data are qualified as estimated due to the inability to meet all QC criteria. The table below summarizes the final qualifications for the analytical data.

SDG	Field ID	Parameter	Analyte	Qualification	Reason Code
B5J9607	SG1-MW02-150930	PFAAs	Perfluoroheptanoic Acid (PFHpA)	**J**	**1**
B5J9607	SG1-MW02-150930	PFAAs	Perfluorooctanoic Acid (PFOA)	**J**	**1**

Data Validation Qualifier Codes:

U = Non-detect. The compound was analyzed for, but not detected.

J = Estimated. The associated numerical value is an estimated quantity. The analyte was detected but the reported value may not be accurate or precise.

UJ = Estimated Non-detect. The analyte was not detected above the method detection limit. However, it is an estimated quantity due to poor accuracy or precision. This qualification is also used to flag possible false negative results in the case where low bias in the analytical system is indicated by low calibration response, surrogate or other spike recovery.

R = Rejected. The sample results are unusable due to the quality of the data generated.

Data Qualifier Reason Codes:

1 Samples were qualified as estimated due to possible high analytical bias.

LEVEL II DATA VALIDATION REVIEW
Field Sampling Event
Saint Gobain Facility
14 McCaffrey Street
Hoosick Falls, New York

Laboratory Sample Delivery Groups (SDGs): 350168

Laboratory: Eurofins | Eaton Analytical, South Bend, Indiana

Reviewer: Wendy Stonestreet **Date Reviewed: October 13, 2015**

This data validation report has been prepared by Ramboll Environ US Corporation (Ramboll Environ) to assess the validity and usability of laboratory analytical data generated from samples collected during the field sampling event at the Saint Gobain Facility in Hoosick Falls, New York on September 30, 2015 and October 1, 2015.

The analytical data were evaluated for quality assurance and quality control (QA/QC) based on the following documents:

- Field Sampling Plan, Saint Gobain Facility (July 2015);
- USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008); and
- DER-10/Technical Guidance for Site Investigation and Remediation (May 2010).

Analytical services for determination of selected perfluorinated alkyl acids (PFAAs) was provided by Eurofins | Eaton Analytical (Eurofins) of South Bend, Indiana.

This report summarizes the QA/QC evaluation of the data according to precision, accuracy, representativeness, completeness and comparability relative to the project data quality objectives. This report provides a quantitative and qualitative assessment of the data and identifies potential sources of error, uncertainty, and bias that may affect the overall usability of the data.

Eleven (11) aqueous samples were submitted to the laboratory for PFAA analysis and are evaluated in this data validation report. The following table lists the samples identification and analysis associated with this SDG.

Field ID	Sample Type	Lab ID	Matrix	Analyses
				PFAAs
SG1-TB03-151001	TB	3333953	Aqueous	X
SG1-MW02S-151001	SA	3333954	Aqueous	X
SG1-MW05-151001	SA, MS, MSD	3333955, 3333956, 3333957	Aqueous	X
SG1-MW03-151001	SA	3333958	Aqueous	X
SG1-MW04-151001	SA	3333959	Aqueous	X
SG1-DS01-151001	FD	3333960	Aqueous	X
SG1-MW01-151001	SA	3333961	Aqueous	X
SG1-MW01S-151001	SA	3333962	Aqueous	X
SG1-RB01-151001	RB	3333963	Aqueous	X

Field ID	Sample Type	Lab ID	Matrix	Analyses
				PFAAs
SG1-RB01-150930	RB	3333964	Aqueous	X
SG1-FB01-151001	FB	3333965	Aqueous	X

Sample Type: SA = Sample TB = Trip Blank FD = Field Duplicate RB = Rinsate Blank
MS =Matrix Spike MSD = Matrix Spike Duplicate
PFAAs = Perfluorinated alkyl acids by USEPA Method SW-846 537 by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS).

The following components of the laboratory report were evaluated as part of this Tier II Data Validation Review:

- Data Package Completeness,
- Sample Preservation and Holding Times,
- Blanks,
- Surrogate Compound Recoveries
- Laboratory Control Samples,
- Matrix Spike/Matrix Spike Duplicates,
- Laboratory and Field Precision,
- Overall Assessment of Data.

Based on the results of the Tier II Data Validation Review, the following conclusion was determined regarding data usability.

General Overall Assessment:

___X___ Data are usable without qualification.

_____ Data are usable with qualification (noted below).

_____ Some or all data are unusable for any purpose (detailed below).

More analysis of specific data quality topics and parameters are discussed below.

Case Narrative Comments: Any case narrative comments concerning data qualification were noted below.

1.0 Data Package Completeness

Q: *Were all items delivered as specified on the Chain of Custody (COC) and is the data package complete?*

A: Yes, the analysis was performed as requested on the chain-of-custody records. All samples were received by the laboratory and analyzed properly with appropriate corrective actions taken when appropriate. No data points were rejected. The data completeness measure for this data package is 100% and is acceptable.

2.0 Laboratory Case Narrative, Sample Preservation and Cooler Receipt Form

Q: *Were problems noted in the laboratory case narrative or cooler receipt form?*

A: Yes, a deviation from EPA Method 537 was noted on the chain of custody (cooler receipt form). One cooler was received at 1.0°C which was below the proper temperature range 4°C ± 2°C. However, given that the temperature was taken using an Infrared thermometer, which has an error tolerance of +/-1.0 degrees Celsius, and the laboratory did not note any freezing of the samples, this non-conformance does not affect the usability of the data.

3.0 Technical Holding Times

Q: Were samples extracted/analyzed within method specific holding time requirements?

A: Yes. All samples were prepared and/or analyzed within the method specific required holding time.

4.0 Blank Contamination

Q: Were any analytes detected in the associated laboratory or field blanks?

A: No. All blanks results were reported as non-detect.

5.0 Surrogate Recoveries

Q: *Were surrogate recoveries within evaluation criteria?*

A: Yes. Surrogates are added to all samples prior to purging to evaluate the laboratory performance on individual samples. Two surrogates (SS-PFDA-13C2 and SS-PFHxA-13C2) were added to each sample. Percent recoveries (%R) for all surrogates in all samples were within the method acceptance limits of 70-130%.

No analytical data were qualified based on the recoveries of the surrogate compounds.

6.0 Internal Standards

Q: Were the internal standard areas within control limits and was the retention time criteria met?

A: Yes. Internal standards indicate whether MS sensitivity and response were stable during each analysis. The laboratory reported that all criteria were within method requirements.

No analytical data were qualified based on the results of internal standard recovery.

7.0 Fortified Blank Samples

Q: *Were fortified blank sample recoveries within evaluation criteria?*

A: Yes. Per the method, the laboratory ran a fortified blank (FB) at low, medium and high concentrations. All recoveries were within laboratory control limits and no analytical data were qualified based on the results of the fortified blanks.

8.0 Matrix Spike and Matrix Spike Duplicate (MS/MSD) Recoveries

Q: *Were MS/MSD samples reported as part of these SDGs?*

A: Yes. Matrix spike recoveries were submitted for analysis and the accuracy evaluation was determined to be satisfactory based on reported recoveries. All relative percent differences (RPDs) evaluated from MS/MSD recoveries were reported within laboratory control limits indicating acceptable analytical precision.

9.0 Laboratory Duplicate Results

Q: *Were laboratory duplicate samples performed as part of this SDG?*

A: Yes. All duplicate RPDs were within laboratory control limits.

10.0 Field Duplicate Results (Field Precision)

Q: *Were field duplicate samples collected as part of the evaluated SDGs?*

A: Yes, the evaluated relative percent differences (RPDs) between the reported results are indicated in the following table.

Analyte	SG1-MW04-151001 (ng/L)	SG1-DS01-151001 (ng/L)	RPD (%)
Perfluorooctanoic Acid (PFOA)	1400	1400	0%

ng/L = nanograms/Liter RPD = Relative Percent Difference

11.0 Detects and Calibration Range

Q: For samples that were diluted and nondetect, were undiluted results also reported?

A: Not Applicable. Samples were not diluted.

Q: For samples that were not diluted and detected, were the results within calibration range?

A: Yes

12.0 Additional Qualifications

Q: *Were additional qualifications applied?*

A: No

13.0 Overall Data Assessment

The data are usable for its intended purpose based on an evaluation of the QC parameters discussed in this report.

LEVEL II DATA VALIDATION REVIEW
Field Sampling Event
Saint Gobain Facility
14 McCaffrey Street
Hoosick Falls, New York

Laboratory Sample Delivery Groups (SDGs): 351818

Laboratory: Eurofins | Eaton Analytical, South Bend, Indiana

Reviewer: Wendy Stonestreet **Date Reviewed: November 8, 2015**

This data validation report has been prepared by Ramboll Environ US Corporation (Ramboll Environ) to assess the validity and usability of laboratory analytical data generated from samples collected during the field sampling event at the Saint Gobain Facility in Hoosick Falls, New York on October 27, 2015.

The analytical data were evaluated for quality assurance and quality control (QA/QC) based on the following documents:

- USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008); and
- DER-10/Technical Guidance for Site Investigation and Remediation (May 2010).

Analytical services for determination of selected perfluorinated alkyl acids (PFAAs) were provided by Eurofins | Eaton Analytical (Eurofins) of South Bend, Indiana.

This report summarizes the QA/QC evaluation of the data according to precision, accuracy, representativeness, completeness and comparability relative to the project data quality objectives. This report provides a quantitative and qualitative assessment of the data and identifies potential sources of error, uncertainty, and bias that may affect the overall usability of the data.

Seven (7) aqueous samples were submitted to the laboratory for PFAA analysis and evaluated in this data validation report. The following table lists the samples identification and analysis associated with this SDG.

Field ID	Sample Type	Lab ID	Matrix	Analyses
				PFAAs
SG1-FB01-151027	FB	3348699	Aqueous	X
SG1-RB01-151027	RB	3348700	Aqueous	X
SG1-North Manhole-151027	SA	3348701	Aqueous	X
SG1-TB01-151027	TB	3348702	Aqueous	X
SG1-Sump Pit-151027	SA	3348703	Aqueous	X
SG1-DS01-151027	FD	3348704	Aqueous	X
SG1-RB02-151027	RB	3348705	Aqueous	X

Sample Type: SA = Sample TB = Trip Blank FD = Field Duplicate RB = Rinsate Blank FB = Field Blank
MS =Matrix Spike MSD = Matrix Spike Duplicate
PFAAs = Perfluorinated alkyl acids by USEPA Method SW-846 537 by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS).

The following components of the laboratory report were evaluated as part of this Tier II Data Validation

Review:

- Data Package Completeness,
- Sample Preservation and Holding Times,
- Blanks,
- Surrogate Compound Recoveries
- Laboratory Control Samples,
- Matrix Spike/Matrix Spike Duplicates,
- Laboratory and Field Precision,
- Overall Assessment of Data.

Based on the results of the Tier II Data Validation Review, the following conclusion was determined regarding data usability.

General Overall Assessment:

____ Data are usable without qualification.

___X__ Data are usable with qualification (noted below).

_____ Some or all data are unusable for any purpose (detailed below).

More analysis of specific data quality topics and parameters are discussed below.

Case Narrative Comments: Any case narrative comments concerning data qualification were noted below.

1.0 Data Package Completeness

Q: *Were all items delivered as specified on the Chain of Custody (COC) and is the data package complete?*

A: Yes, the analysis was performed as requested on the chain-of-custody records. All samples were received by the laboratory and analyzed properly with appropriate corrective actions taken when appropriate. No data points were rejected. The data completeness measure for this data package is 100% and is acceptable.

2.0 Laboratory Case Narrative, Sample Preservation and Cooler Receipt Form

Q: *Were problems noted in the laboratory case narrative or cooler receipt form?*

A: Yes. The laboratory indicated in the laboratory case narrative that the surrogate standard recovery was outside of the laboratory control limits for sample SG1-North Manhole-151027.

In addition, the laboratory indicated on the chain of custody (cooler receipt form) that sample SG1-North Manhole-151027 had a very poor sample matrix which may have been attributed to poor surrogate recovery in the sample. See Section 5.0 for further discussion and resultant data qualification.

Moreover, the laboratory indicated very poor sample matrix for samples SG1-Sump Pit-151027 and SG1-DS01-151027 chain of custody (cooler receipt form); however no additional quality control non-conformances were discussed in the laboratory report related to these samples. See Section 10.0 for further discussion and resultant data qualification.

Samples were received at the Eurofins, South Bend, Indiana laboratory in good condition and at proper temperature range 4°C ± 2°C (one cooler at 2.8 °C).

3.0 Technical Holding Times

Q: Were samples extracted/analysed within method specific holding time requirements?

A: Yes. All samples were prepared and/or analysed within the method specific required holding time.

4.0 Blank Contamination

Q: Were any analytes detected in the associated laboratory or field blanks?

A: No. All blanks results were reported as non-detect.

5.0 Surrogate Recoveries

Q: *Were surrogate recoveries within evaluation criteria?*

A: No. Surrogates are added to all samples prior to purging to evaluate the laboratory performance on individual samples. Two surrogates (SS-PFDA-13C2 and SS-PFHxA-13C2) were added to each sample. Percent recoveries (%R) for all surrogates in all samples were within the method acceptance limits of 70-130% with the exception of SS-PFHxA in sample SG1-North Manhole-151027 at 58%.

Data qualification of sample results due to surrogate recovery non-conformances are summarized in the table below due to possible low analytical bias.

Field ID	Parameter	Analyte	Qualification
SG1-North Manhole-151027	SW-846 537	Perfluorobutanesulfonic acid (PFBS)	U
SG1-North Manhole-151027	SW-846 537	Perfluoroheptanoic acid (PFHpA)	J
SG1-North Manhole-151027	SW-846 537	Perfluorohexanesulfonic acid (PFHxS)	U
SG1-North Manhole-151027	SW-846 537	Perfluorononanoic acid (PFNA)	U
SG1-North Manhole-151027	SW-846 537	Perfluorooctane sulfonate (PFOS)	U

6.0 Internal Standards

Q: Were the internal standard areas within control limits and was the retention time criteria met?

A: Yes. Internal standards indicate whether MS sensitivity and response were stable during each analysis. The laboratory reported that all criteria were within method requirements.

No analytical data were qualified based on the results of internal standard recovery.

7.0 Fortified Blank Samples

Q: *Were fortified blank sample recoveries within evaluation criteria?*

A: Yes. Per the method, the laboratory ran a fortified blank (FB) at low, medium and high concentrations. All recoveries were within laboratory control limits and no analytical data were qualified based on the results of the fortified blanks.

8.0 Matrix Spike and Matrix Spike Duplicate (MS/MSD) Recoveries

Q: *Were MS/MSD samples reported as part of these SDGs?*

A: No.

9.0 Laboratory Duplicate Results

Q: *Were laboratory duplicate samples performed as part of this SDG?*

A: No

10.0 Field Duplicate Results (Field Precision)

Q: *Were field duplicate samples collected as part of the evaluated SDGs?*

A: Yes the table below summarizes field duplicate pairs.

Field ID	Field Duplicate ID
SG1-Sump Pit-151027	SG1-DS01-151027

Q: Were field duplicates within evaluation criteria?

A: No. RPD values were less than the control limit of <30% for all compounds with concentrations greater than the reporting limit with the exception of the duplicate of PFOA at 57.6%. The following table summarizes sample and duplicate result concentrations and their relative percent difference.

Field ID	Duplicate ID	Analyte	Sample Result (ng/L)	Duplicate Result (ng/L)	RPD (%)
SG1-Sump Pit-151027	SG1-DS01-151027	Perfluoroheptanoic acid (PFHpA)	10	10	0
		Perfluoro-n-octanoic acid (PFOA)	850	470	**57.6**

ng/L = nanograms per Liter RPD = Relative Percent Difference % = Percent

The RPD for PFOA at 57.6% was above the acceptable control limit for aqueous samples of 30%. The laboratory noted in the sample acknowledgement form that the sample matrix was very poor. The laboratory indicated during a phone call on 11/11/2015 that the sample matrix was sludge which is a difficult matrix to evaluate for this method. Therefore the high RPD may be attributed to a non-homogenous sample matrix.

11.0 Detects and Calibration Range

Q: For samples that were diluted and nondetect, were undiluted results also reported?

A: Not Applicable, all samples results which were reported at dilution had detectable concentrations above the method reporting limit (MRL).

Q: For samples that were not diluted and detected, were the results within calibration range?

A: Yes

12.0 Additional Qualifications

Q: *Were additional qualifications applied?*

A: No

13.0 Overall Data Assessment

The data are usable for its intended purpose based on an evaluation of the QC parameters discussed in this report. Some data are qualified as estimated due to the inability to meet all QC criteria. The table below summarizes the final qualifications for the analytical data.

Field ID	Parameter	Analyte	Qualification	Reason Code
SG1-North Manhole-151027	SW-846 537	Perfluorobutanesulfonic acid (PFBS)	U	1
SG1-North Manhole-151027	SW-846 537	Perfluoroheptanoic acid (PFHpA)	J	1
SG1-North Manhole-151027	SW-846 537	Perfluorohexanesulfonic acid (PFHxS)	U	1
SG1-North Manhole-151027	SW-846 537	Perfluorononanoic acid (PFNA)	U	1
SG1-North Manhole-151027	SW-846 537	Perfluorooctane sulfonate (PFOS)	U	1

Data Validation Qualifier Codes:

U = Non-detect. The compound was analyzed for, but not detected.
J = Estimated. The associated numerical value is an estimated quantity. The analyte was detected but the reported value may not be accurate or precise.
UJ = Estimated Non-detect. The analyte was not detected above the method detection limit. However, it is an estimated quantity due to poor accuracy or precision. This qualification is also used to flag possible false negative results in the case where low bias in the analytical system is indicated by low calibration response, surrogate or other spike recovery.
R = Rejected. The sample results are unusable due to the quality of the data generated.

Data Qualifier Reason Codes:

1 Samples were qualified as estimated due to possible low analytical bias.

LEVEL II DATA VALIDATION REVIEW
Field Sampling Event
Saint Gobain Facility
14 McCaffrey Street
Hoosick Falls, New York

Laboratory Sample Delivery Groups (SDGs): B5F6982

Laboratory: Maxxam Analytics, Mississauga, Ontario

Reviewer: Wendy Stonestreet **Date Reviewed: September 17, 2015**

This data validation report has been prepared by Ramboll Environ US Corporation (Ramboll Environ) to assess the validity and usability of laboratory analytical data generated from samples collected during the field sampling event at the Saint Gobain Facility in Hoosick Falls, New York on August 5, August 6 and August 10, 2015.

The analytical data were evaluated for quality assurance and quality control (QA/QC) based on the following documents:

- Field Sampling Plan, Saint Gobain Facility (July 2015);
- USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review (June 2008); and
- DER-10/Technical Guidance for Site Investigation and Remediation (May 2010).

Analytical services for determination of selected perfluorinated alkyl acids (PFAAs) and TOC were provided by Maxxam Analytics (Maxxam) of Mississauga, Ontario.

This report summarizes the QA/QC evaluation of the data according to precision, accuracy, representativeness, completeness and comparability relative to the project data quality objectives. This report provides a quantitative and qualitative assessment of the data and identifies potential sources of error, uncertainty, and bias that may affect the overall usability of the data.

Twenty-three (23) solid samples were submitted to the laboratory for PFAA and TOC analysis and evaluated in this data validation report. The following table lists the samples identification and analysis associated with this SDG.

Field ID	Sample Type	Lab ID	Matrix	Analyses	
				PFAAs	TOC
SG1-MW04S-00.0	SA	ATN765	Solid	X	---
SG1-MW04S-02.0	SA	ATN766	Solid	X	---
SG1-MW04S-15.0	SA	ATN767	Solid	---	X
SG1-MW04S-21.0	SA	ATN768	Solid	---	X
SG1-MW04S-24.0	SA	ATN769	Solid	---	X
SG1-DS01-150805	FD	ATN770	Solid	X	---
SG1-MW02D-00.0	SA	ATN771	Solid	X	---
SG1-MW02D-02.0	SA, MS, MSD	ATN772	Solid	X	---
SG1-MW02D-42.0	SA	ATN773	Solid	---	X
SG1-MW02D-24.0	SA	ATN774	Solid	---	X

Field ID	Sample Type	Lab ID	Matrix	Analyses	
				PFAAs	TOC
SG1-MW01D-00.0	SA	AUP457	Solid	X	---
SG1-MW01D-02.0	SA	AUP458	Solid	X	---
SG1-MW01D-13.0	SA	AUP459	Solid	---	X
SG1-MW01S-06.0	SA	AUP460	Solid	---	X
SG1-MW05S-00.0	SA	AUP461	Solid	X	---
SG1-MW05S-02.0	SA	AUP462	Solid	X	---
SG1-MW05S-17.0	SA	AUP463	Solid	---	X
SG1-MW01D-12.0	SA	AUP464	Solid	---	X
SG1-MW01D-23.0	SA	AUP465	Solid	---	X
SG1-DS01-150812	FD	AUP466	Solid	---	X
SG1-MW03S-00.0	SA	AUP467	Solid	X	---
SG1-MW03S-02.0	SA	AUP468	Solid	X	---
SG1-MW03S-13.0	SA	AUP469	Solid	---	X

Sample Type: SA = Sample TB = Trip Blank FD = Field Duplicate RB = Rinsate Blank
MS =Matrix Spike MSD = Matrix Spike Duplicate
PFAAs = Perfluorinated alkyl acids by USEPA Method SW-846 537 Modified by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS).
TOC = Total Organic Carbon by Method LECO 203-601-224

The following components of the laboratory report were evaluated as part of this Tier II Data Validation Review:

- Data Package Completeness,
- Sample Preservation and Holding Times,
- Blanks,
- Surrogate Compound Recoveries
- Laboratory Control Samples,
- Matrix Spike/Matrix Spike Duplicates,
- Laboratory and Field Precision,
- Overall Assessment of Data.

Based on the results of the Tier II Data Validation Review, the following conclusion was determined regarding data usability.

General Overall Assessment:

___X___ Data are usable without qualification.

_____ Data are usable with qualification (noted below).

_____ Some or all data are unusable for any purpose (detailed below).

More analysis of specific data quality topics and parameters are discussed below.

Case Narrative Comments: Any case narrative comments concerning data qualification were noted below.

1.0 Data Package Completeness

Q: Were all items delivered as specified on the Chain of Custody (COC) and is the data package complete?

A: Yes, the analysis was performed as requested on the chain-of-custody records. All samples were received by the laboratory and analyzed properly with appropriate corrective actions taken when appropriate. No data points were rejected. The data completeness measure for this data package is 100% and is acceptable.

2.0 Laboratory Case Narrative, Sample Preservation and Cooler Receipt Form

Q: *Were problems noted in the laboratory case narrative or cooler receipt form?*

A: Yes, the laboratory case narrative indicated the following:

The laboratory noted that two samples evaluated for perfluorinated compounds at elevated detection limits due to matrix interferences. See Section 11.0 for further discussion and resultant data qualification.

3.0 Technical Holding Times

Q: Were samples extracted/analyzed within method specific holding time requirements?

A: Yes. All samples were prepared and/or analyzed within the method specific required holding time.

4.0 Blank Contamination

Q: Were any analytes detected in the associated laboratory or field blanks?

A: No. All blanks results were reported as non-detect.

5.0 Surrogate Recoveries

Q: *Were surrogate recoveries within evaluation criteria?*

A: Yes. Surrogates are added to all samples prior to purging to evaluate the laboratory performance on individual samples. Two surrogates (SS-PFDA-13C2 and SS-PFHxA-13C2) were added to each sample. Percent recoveries (%R) for all surrogates in all samples were within the method acceptance limits of 70-130%.

No analytical data were qualified based on the recoveries of the surrogate compounds.

6.0 Internal Standards

Q: Were the internal standard areas within control limits and was the retention time criteria met?

A: Yes. Internal standards indicate whether MS sensitivity and response were stable during each analysis. The laboratory reported that all criteria were within method requirements.

No analytical data were qualified based on the results of internal standard recovery.

7.0 Fortified Blank Samples

Q: *Were fortified blank sample recoveries within evaluation criteria?*

A: Yes. Per the method, the laboratory ran a fortified blank (FB) or spiked blank with each batch. All recoveries were within laboratory control limits and no analytical data were qualified based on the results of the fortified blanks.

8.0 Matrix Spike and Matrix Spike Duplicate (MS/MSD) Recoveries

Q: *Were MS/MSD samples reported as part of these SDGs?*

A: Yes. All Matrix Spike recoveries were reported within the laboratory control limits of 70-130% for perfluorinated compounds and 75-125% for TOC.

9.0 Laboratory Duplicate Results

Q: *Were laboratory duplicate samples performed as part of this SDG?*

A: Yes. All laboratory duplicate sample relative percent differences (RPDs) were reported within laboratory acceptance criteria of less than 30%.

10.0 Field Duplicate Results (Field Precision)

Q: *Were field duplicate samples collected as part of the evaluated SDGs?*

A: Yes, the evaluated relative percent differences (RPDs) between the reported results are indicated in the following tables.

Analyte	SG1-MW02D-00.0 (ug/kg)	SG1-DS01-150805 (ug/kg)	RPD (%)
Perfluoro-n-octanoic Acid (PFOA)	1.3	1.5	14.3%
Perfluorononanoic Acid (PFNA)	0.01	0.02	66.7%
Perfluorooctane Sulfonate (PFOS)	0.028	0.035	19.4%

Analyte	SG1-MW01D-23.0 (mg/kg)	SG1-DS01-150812 (mg/kg)	RPD (%)
Total Organic Carbon	4700	4300	8.9%

ug/kg = micrograms per kilogram mg/kg = milligrams per kilogram RPD = Relative Percent Difference

The RPD for PFNA at 66.7% was above the acceptable control limit for solid samples of 50%. <u>However, as the original and duplicate sample values are less than five times the reporting limit, the RPD is not statistically relevant and qualification of data is not required.</u>

11.0 Detects and Calibration Range

Q: For samples that were diluted and nondetect, were undiluted results also reported?

A: Not Applicable. Samples did not require dilution. However, two sample results SG1-MW04S-00.0 and SG1-MW05S-00.0 were reported at elevated detection limits due to matrix interferences. While this non-conformance to established reporting limits does not affect the usability of the data, it does reduce the sensitivity of the instrument.

Q: For samples that were not diluted and detected, were the results within calibration range?

A: Yes

12.0 Additional Qualifications

Q: *Were additional qualifications applied?*

A: No

13.0 Overall Data Assessment

The data are usable for its intended purpose based on an evaluation of the QC parameters discussed in this report.

IV. Laboratory Data Reports

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LABORATORY REPORT

If you have any questions concerning this report, please do not hesitate to call us at (800) 332-4345 or (574) 233-4777.

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STATE CERTIFICATION LIST

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Colorado Radiochemistry	IN035	New York*	11398
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Georgia	929	Oklahoma	D9508
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Illinois Microbiology	200001	Rhode Island	LAO00241
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Minnesota*	018-999-338	Wisconsin	999766900
Mississippi	IN035	Wyoming	IN035
Missouri	880		

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eurofins | Eaton Analytical

110 South Hill Street
South Bend, IN 46617
Tel: (574) 233-4777
Fax: (574) 233-8207
1 800 332 4345

Laboratory Report

Client: Ramboll Environ

Attn: Valerie Turner
3 Carlisle Road
Suite 210
Westford, MA 01886

Copies to: Rob Huening

Report: 345165
Priority: Immediate Verbal
Status: Final
PWS ID: Not Supplied

Sample Information

EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
3289462	SG1-RB01-150729	537	07/29/15 15:30	Client	07/30/15 09:00
3289463	SG1-RB02-150729	537	07/29/15 15:35	Client	07/30/15 09:00
3289464	SG1-RB03-150729	537	07/29/15 15:40	Client	07/30/15 09:00
3289465	SG1-RB04-150729	537	07/29/15 15:45	Client	07/30/15 09:00
3289466	SG1-RB05-150729	537	07/29/15 15:50	Client	07/30/15 09:00
3289467	SG1-RB06-150729	537	07/29/15 16:00	Client	07/30/15 09:00
3289468	SG1-FB01-150729	537	07/29/15 16:05	Client	07/30/15 09:00
3289469	SG1-TB01-150729	537	07/29/15 00:00	Client	07/30/15 09:00

Report Summary

Note: Method 537 results for sites SG1-RB02-150729 and SG1-RB03-150729 are based on a correction factor due to sample volume analyzed.

Detailed quantitative results are presented on the following pages. The results presented relate only to the samples provided for analysis.

We appreciate the opportunity to provide you with this analysis. If you have any questions concerning this report, please do not hesitate to call Jim Vernon at (574) 233-4777.

Note: This report may not be reproduced, except in full, without written approval from EEA.

08/11/2015

Authorized Signature | Title | Date

Client Name: Ramboll Environ
Report #: 345165

Client Name: Ramboll Environ

Report #: 345165

Sampling Point: SG1-RB01-150729

PWS ID: Not Supplied

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	90	< 90	ng/L	07/30/15 09:30	07/30/15 20:24	3289462
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	10	< 10	ng/L	07/30/15 09:30	07/30/15 20:24	3289462
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	30	< 30	ng/L	07/30/15 09:30	07/30/15 20:24	3289462
375-95-1	Perfluorononanoic acid (PFNA)	537	---	20	< 20	ng/L	07/30/15 09:30	07/30/15 20:24	3289462
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	40	< 40	ng/L	07/30/15 09:30	07/30/15 20:24	3289462
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	20	< 20	ng/L	07/30/15 09:30	07/30/15 20:24	3289462

Sampling Point: SG1-RB02-150729

PWS ID: Not Supplied

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	90	< 100	ng/L	07/30/15 09:30	07/30/15 20:55	3289463
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	10	**340**	ng/L	07/30/15 09:30	08/02/15 11:36	3289463
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	30	< 30	ng/L	07/30/15 09:30	07/30/15 20:55	3289463
375-95-1	Perfluorononanoic acid (PFNA)	537	---	20	< 20	ng/L	07/30/15 09:30	07/30/15 20:55	3289463
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	40	< 40	ng/L	07/30/15 09:30	07/30/15 20:55	3289463
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	20	< 20	ng/L	07/30/15 09:30	07/30/15 20:55	3289463

Sampling Point: SG1-RB03-150729

PWS ID: Not Supplied

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	90	< 110	ng/L	07/30/15 09:30	07/30/15 21:26	3289464
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	10	< 10	ng/L	07/30/15 09:30	07/30/15 21:26	3289464
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	30	< 40	ng/L	07/30/15 09:30	07/30/15 21:26	3289464
375-95-1	Perfluorononanoic acid (PFNA)	537	---	20	< 20	ng/L	07/30/15 09:30	07/30/15 21:26	3289464
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	40	< 50	ng/L	07/30/15 09:30	07/30/15 21:26	3289464
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	20	< 20	ng/L	07/30/15 09:30	07/30/15 21:26	3289464

Client Name: Ramboll Environ

Report #: 345165

Sampling Point: SG1-RB04-150729

PWS ID: Not Supplied

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	90	< 90	ng/L	07/30/15 09:30	07/30/15 21:57	3289465
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	10	< 10	ng/L	07/30/15 09:30	07/30/15 21:57	3289465
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	30	< 30	ng/L	07/30/15 09:30	07/30/15 21:57	3289465
375-95-1	Perfluorononanoic acid (PFNA)	537	---	20	< 20	ng/L	07/30/15 09:30	07/30/15 21:57	3289465
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	40	< 40	ng/L	07/30/15 09:30	07/30/15 21:57	3289465
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	20	< 20	ng/L	07/30/15 09:30	07/30/15 21:57	3289465

Sampling Point: SG1-RB05-150729

PWS ID: Not Supplied

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	90	< 90	ng/L	07/30/15 09:30	07/30/15 22:28	3289466
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	10	< 10	ng/L	07/30/15 09:30	07/30/15 22:28	3289466
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	30	< 30	ng/L	07/30/15 09:30	07/30/15 22:28	3289466
375-95-1	Perfluorononanoic acid (PFNA)	537	---	20	< 20	ng/L	07/30/15 09:30	07/30/15 22:28	3289466
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	40	< 40	ng/L	07/30/15 09:30	07/30/15 22:28	3289466
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	20	< 20	ng/L	07/30/15 09:30	07/30/15 22:28	3289466

Sampling Point: SG1-RB06-150729

PWS ID: Not Supplied

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	90	< 90	ng/L	07/30/15 09:30	07/30/15 22:59	3289467
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	10	< 10	ng/L	07/30/15 09:30	07/30/15 22:59	3289467
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	30	< 30	ng/L	07/30/15 09:30	07/30/15 22:59	3289467
375-95-1	Perfluorononanoic acid (PFNA)	537	---	20	< 20	ng/L	07/30/15 09:30	07/30/15 22:59	3289467
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	40	< 40	ng/L	07/30/15 09:30	07/30/15 22:59	3289467
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	20	< 20	ng/L	07/30/15 09:30	07/30/15 22:59	3289467

Client Name: Ramboll Environ

Report #: 345165

Sampling Point: SG1-FB01-150729

PWS ID: Not Supplied

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	90	< 90	ng/L	07/30/15 09:30	07/30/15 23:30	3289468
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	10	< 10	ng/L	07/30/15 09:30	07/30/15 23:30	3289468
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	30	< 30	ng/L	07/30/15 09:30	07/30/15 23:30	3289468
375-95-1	Perfluorononanoic acid (PFNA)	537	---	20	< 20	ng/L	07/30/15 09:30	07/30/15 23:30	3289468
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	40	< 40	ng/L	07/30/15 09:30	07/30/15 23:30	3289468
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	20	< 20	ng/L	07/30/15 09:30	07/30/15 23:30	3289468

Sampling Point: SG1-TB01-150729

PWS ID: Not Supplied

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	90	< 90	ng/L	07/30/15 09:30	07/31/15 00:00	3289469
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	10	< 10	ng/L	07/30/15 09:30	07/31/15 00:00	3289469
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	30	< 30	ng/L	07/30/15 09:30	07/31/15 00:00	3289469
375-95-1	Perfluorononanoic acid (PFNA)	537	---	20	< 20	ng/L	07/30/15 09:30	07/31/15 00:00	3289469
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	40	< 40	ng/L	07/30/15 09:30	07/31/15 00:00	3289469
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	20	< 20	ng/L	07/30/15 09:30	07/31/15 00:00	3289469

† EEA has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices.

Reg Limit Type:	MCL	SMCL	AL
Symbol:	*	^	!

Lab Definitions

Continuing Calibration Check Standard (CCC) / Continuing Calibration Verification (CCV) / Initial Calibration Verification Standard (ICV) / Initial Performance Check (IPC) - is a standard containing one or more of the target analytes that is prepared from the same standards used to calibrate the instrument. This standard is used to verify the calibration curve at the beginning of each analytical sequence, and may also be analyzed throughout and at the end of the sequence. The concentration of continuing standards may be varied, when prescribed by the reference method, so that the range of the calibration curve is verified on a regular basis.

Internal Standards (IS) - are pure compounds with properties similar to the analytes of interest, which are added to field samples or extracts, calibration standards, and quality control standards at a known concentration. They are used to measure the relative responses of the analytes of interest and surrogates in the sample, calibration standard or quality control standard.

Laboratory Duplicate (LD) - is a field sample aliquot taken from the same sample container in the laboratory and analyzed separately using identical procedures. Analysis of laboratory duplicates provides a measure of the precision of the laboratory procedures.

Laboratory Fortified Blank (LFB) / Laboratory Control Sample (LCS) - is an aliquot of reagent water to which known concentrations of the analytes of interest are added. The LFB is analyzed exactly the same as the field samples. LFBs are used to determine whether the method is in control.

Laboratory Method Blank (LMB) / Laboratory Reagent Blank (LRB) - is a sample of reagent water included in the sample batch analyzed in the same way as the associated field samples. The LMB is used to determine if method analytes or other background contamination have been introduced during the preparation or analytical procedure. The LMB is analyzed exactly the same as the field samples.

Laboratory Trip Blank (LTB) / Field Reagent Blank (FRB) - is a sample of laboratory reagent water placed in a sample container in the laboratory and treated as a field sample, including storage, preservation, and all analytical procedures. The FRB/LTB container follows the collection bottles to and from the collection site, but the FRB/LTB is not opened at any time during the trip. The FRB/LTB is primarily a travel blank used to verify that the samples were not contaminated during shipment.

Matrix Spike Duplicate Sample (MSD) / Laboratory Fortified Sample Matrix Duplicate (LFSMD) - is a sample aliquot taken from the same field sample source as the Matrix Spike Sample to which known quantities of the analytes of interest are added in the laboratory. The MSD is analyzed exactly the same as the field samples. Analysis of the MSD provides a measure of the precision of the laboratory procedures in a specific matrix.

Matrix Spike Sample (MS) / Laboratory Fortified Sample Matrix (LFSM) - is a sample aliquot taken from field sample source to which known quantities of the analytes of interest are added in the laboratory. The MS is analyzed exactly the same as the field samples. The purpose is to demonstrate recovery of the analytes from a sample matrix to determine if the specific matrix contributes bias to the analytical results.

Quality Control Standard (QCS) / Second Source Calibration Verification (SSCV) - is a solution containing known concentrations of the analytes of interest prepared from a source different from the source of the calibration standards. The solution is obtained from a second manufacturer or lot if the lot can be demonstrated by the manufacturer as prepared independently from other lots. The QCS sample is analyzed using the same procedures as field samples. The QCS is used as a check on the calibration standards used in the method on a routine basis.

Reporting Limit Check (RLC) / Initial Calibration Check Standard (ICCS) - is a procedural standard that is analyzed each day to evaluate instrument performance at or below the minimum reporting limit (MRL).

Surrogate Standard (SS) / Surrogate Analyte (SUR) - is a pure compound with properties similar to the analytes of interest, which is highly unlikely to be found in any field sample, that is added to the field samples, calibration standards, blanks and quality control standards before sample preparation. The SS is used to evaluate the efficiency of the sample preparation process.

eurofins | Eaton Analytical

110 S. Hill Street
South Bend, IN 46617
T: 1.800.332.4345
F: 1.574.233.8207

Order # 280821
Batch # 345165
7-30-2015 KD

www.eatonanalytical.com

Shaded area for EEA use only

CHAIN OF CUSTODY RECORD

345165

Page 1 of 1

REPORT TO:	SAMPLER (Signature)	PWS ID #	STATE (sample origin)	PROJECT NAME	PO#
Jason Wilkinson, Ramboll Environ Westford, MA	[signature]	–	MA	SG-Hoosick Falls	02-37 128B

BILL TO:	COMPLIANCE MONITORING Yes	No	POPULATION SERVED	SOURCE WATER
Same		X	–	–

	LAB Number	COLLECTION DATE	TIME	AM	PM	SAMPLING SITE	TEST NAME	SAMPLE REMARKS	CHLORINATED YES	NO	# OF CONTAINERS	MATRIX CODE	TURNAROUND TIME
1	32894462	7/29/15	1530		X	SGPP-EB01-20150729	PFCs by EPA 537 (6 PFCs only)	ALL Sample		X	1	W	IV
2	4463		1535			SGPP-EB02-20150729		Report only			1		
3	4464		1540			SGPP-EB03-20150729-LOW	Volume LD	PFBS			1		
4	4465		1545			SGPP-EB04-20150729		PFHpA			1		
5	4466		1550			SGPP-EB05-20150729		PFHxA			1		
6	4467		1600			SGPP-EB06-20150729		PFNA			2		
7	4468		1605		✓	SGPP-FB01-20150729		PFOS			1		
8	4469		—		–	SGPS-TB01-20150729		PFOA			1		
9													
10													
11						Immediate	Verbal						
12													
13													
14													

RELINQUISHED BY:(Signature)	DATE	TIME	RECEIVED BY:(Signature)	DATE	TIME
[signature] R Hwang Ramboll-Environ	7/29/15	1645 AM PM			AM PM
RELINQUISHED BY:(Signature)	DATE	TIME	RECEIVED BY:(Signature)	DATE	TIME
		AM PM			AM PM
RELINQUISHED BY:(Signature)	DATE	TIME	RECEIVED FOR LABORATORY BY:	DATE	TIME
		AM PM	K Dupree	7-30-15	0900 AM PM

LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIENT

LAB COMMENTS
See attached email for Revised site Descriptions SS 7-30-15 logbook has been updated SS 7-30-15

CONDITIONS UPON RECEIPT (check one): X Iced: Wet/Blue ___ Ambient 5.6 °C Upon Receipt ___ N/A

MATRIX CODES:

DW-DRINKING WATER
RW-REAGENT WATER
GW-GROUND WATER
EW-EXPOSURE WATER
SW-SURFACE WATER
PW-POOL WATER
WW-WASTE WATER

TURN-AROUND TIME (TAT) - SURCHARGES

SW = Standard Written: (15 working days) 0%
RV* = Rush Verbal: (5 working days) 50%
RW* = Rush Written: (5 working days) 75%
IV* = Immediate Verbal: (3 working days) 100%
IW* = Immediate Written: (3 working days) 125%
SP* = Weekend, Holiday CALL
STAT* = Less than 48 hours CALL

* Please call, expedited service not available for all testing

Samples received unannounced with less than 48 hours holding time remaining may be subject to additional charges.

06-LO-F0435 Issue 4.0 Effective Date: 2014-05-01

Sample analysis will be provided according to the standard EEA/Water Services Terms, which are available upon request. Any other terms proposed by Customer are deemed material alterations and are rejected unless expressly agree to in writing by EEA.

ED_001342_00000356-00068

Sheri Spurgeon

From: Nathan Trowbridge
Sent: Thursday, July 30, 2015 3:05 PM
To: Sheri Spurgeon
Subject: RE: Requested Revisions to COC #345165

345165

Nathan Trowbridge

Phone: +1 574 472 5528
Mobile: +1 574 302 2590

From: Sheri Spurgeon
Sent: Thursday, July 30, 2015 3:01 PM
To: Nathan Trowbridge
Cc: Kellie DePriest
Subject: RE: Requested Revisions to COC #345165

OK, if you can give me the batch numbers, I'll take care of it ☺

Sheri Spurgeon

Phone: +1 574 472 5505

From: Nathan Trowbridge
Sent: Thursday, July 30, 2015 3:01 PM
To: Sheri Spurgeon; Kellie DePriest
Subject: RE: Requested Revisions to COC #345165

Probably should rescan to include the email with the change request.

Thanks,

Nathan Trowbridge

Phone: +1 574 472 5528
Mobile: +1 574 302 2590

From: Sheri Spurgeon
Sent: Thursday, July 30, 2015 3:00 PM
To: Nathan Trowbridge; Kellie DePriest
Subject: RE: Requested Revisions to COC #345165

This can be done either in Logbook or HG since they are single site changes we can go ahead and do it in logbook to get it done ☺ do you have the batch #s?? I'll take care of it... do we need to rescan the cocs?

Sheri Spurgeon

Phone: +1 574 472 5505

From: Nathan Trowbridge
Sent: Thursday, July 30, 2015 2:23 PM
To: Sheri Spurgeon; Kellie DePriest
Subject: FW: Requested Revisions to COC #345165

Is this something that can be done in Receiving or should it wait for HG?

Thanks,

Nathan Trowbridge

Phone: +1 574 472 5528
Mobile: +1 574 302 2590

From: Rob Huening [mailto:rhuening@environcorp.com]
Sent: Thursday, July 30, 2015 2:21 PM
To: Nathan Trowbridge
Cc: Jason Wilkinson
Subject: Requested Revisions to COC #345165

Nathan,

As discussed we would like to make some revisions to the Sample ID's on the COC. (COC #345165 from order #280821) Our plan was to mark-up the original pdf of the chain but there is not enough room to clearly make changes. Therefore I have listed the changes in the table below. Could you please make the following changes to the sample ID's?

Original Sample ID	Requested Revised Sample ID
SGPP-EB01-20150729	SG1-RB01-150729
SGPP-EB02-20150729	SG1-RB02-150729
SGPP-EB03-20150729	SG1-RB03-150729
SGPP-EB04-20150729	SG1-RB04-150729
SGPP-EB05-20150729	SG1-RB05-150729
SGPP-EB06-20150729	SG1-RB06-150729
SGPP-FB01-20150729	SG1-FB01-150729
SGPP-TB01-20150729	SG1-TB01-150729

Please let me know if anything is unclear.

-Rob

Rob Huening

Associate

D 9784490309
M 8478946598
rhuening@environcorp.com

Ramboll Environ
3 Carlisle Road
Suite 210
Westford, MA 01886
USA
www.ramboll-environ.com

RAMBOLL ENVIRON

ED_001342_00000356-00071

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Eurofins Eaton Analytical
Run Log

Run ID: **205797** Method: **537**

Type	Sample Id	Sample Site	Matrix	Instrument ID	Analysis Date	Calibration File
CCL	3289657		OS	CY	07/30/2015 16:47	073015M537a.mdb
LRB	3290036		RW	CY	07/30/2015 18:20	073015M537a.mdb
FBL	3290037		RW	CY	07/30/2015 18:51	073015M537a.mdb
FBM	3290038		RW	CY	07/30/2015 19:22	073015M537a.mdb
FS	3289462	SG1-RB01-150729	DW	CY	07/30/2015 20:24	073015M537a.mdb
FS	3289463	SG1-RB02-150729	DW	CY	07/30/2015 20:55	073015M537a.mdb
FS	3289464	SG1-RB03-150729	DW	CY	07/30/2015 21:26	073015M537a.mdb
FS	3289465	SG1-RB04-150729	DW	CY	07/30/2015 21:57	073015M537a.mdb
FS	3289466	SG1-RB05-150729	DW	CY	07/30/2015 22:28	073015M537a.mdb
FS	3289467	SG1-RB06-150729	DW	CY	07/30/2015 22:59	073015M537a.mdb
FS	3289468	SG1-FB01-150729	DW	CY	07/30/2015 23:30	073015M537a.mdb
FS	3289469	SG1-TB01-150729	DW	CY	07/31/2015 00:00	073015M537a.mdb
CCM	3289658		OS	CY	07/31/2015 02:04	073015M537a.mdb

QC Summary Report

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID #
CCL	IS-PFOA-13C2	537	N/A	---		4315.61	4315.61	ng/L	100	70 - 140	---	---	1.0	07/27/2015 09:53	07/30/2015 16:47	3289657
CCL	IS-PFOS-13C4	537	N/A	---		5030.37	5030.37	ng/L	100	70 - 140	---	---	1.0	07/27/2015 09:53	07/30/2015 16:47	3289657
CCL	SS-PFDA-13C2	537	N/A	---		101.2420	100	ng/L	101	70 - 130	---	---	1.0	07/27/2015 09:53	07/30/2015 16:47	3289657
CCL	SS-PFHxA-13C2	537	N/A	---		50.9124	50.0	ng/L	102	70 - 130	---	---	1.0	07/27/2015 09:53	07/30/2015 16:47	3289657
CCL	Perfluorobutanesulfonic acid (PFBS)	537	90	---		93.8840	90.0	ng/L	104	50 - 150	---	---	1.0	07/27/2015 09:53	07/30/2015 16:47	3289657
CCL	Perfluoroheptanoic acid (PFHpA)	537	10	---		10.4889	10.0	ng/L	105	50 - 150	---	---	1.0	07/27/2015 09:53	07/30/2015 16:47	3289657
CCL	Perfluorohexanesulfonic acid (PFHxS)	537	30	---		30.6208	30.0	ng/L	102	50 - 150	---	---	1.0	07/27/2015 09:53	07/30/2015 16:47	3289657
CCL	Perfluorononanoic acid (PFNA)	537	20	---		21.0728	20.0	ng/L	105	50 - 150	---	---	1.0	07/27/2015 09:53	07/30/2015 16:47	3289657
CCL	Perfluorooctane sulfonate (PFOS)	537	40	---		41.0658	40.0	ng/L	103	50 - 150	---	---	1.0	07/27/2015 09:53	07/30/2015 16:47	3289657
CCL	Perfluorooctanoic acid (PFOA)	537	20	---		20.8768	20.0	ng/L	104	50 - 150	---	---	1.0	07/27/2015 09:53	07/30/2015 16:47	3289657
LRB	IS-PFOA-13C2	537	N/A	---		4349.45	4315.61	ng/L	101	70 - 140	---	---	1.0	07/30/2015 09:30	07/30/2015 18:20	3290036
LRB	IS-PFOS-13C4	537	N/A	---		5151.06	5030.37	ng/L	102	70 - 140	---	---	1.0	07/30/2015 09:30	07/30/2015 18:20	3290036
LRB	SS-PFDA-13C2	537	N/A	---		98.2499	100	ng/L	98	70 - 130	---	---	1.0	07/30/2015 09:30	07/30/2015 18:20	3290036
LRB	SS-PFHxA-13C2	537	N/A	---		48.7229	50.0	ng/L	97	70 - 130	---	---	1.0	07/30/2015 09:30	07/30/2015 18:20	3290036
LRB	Perfluorobutanesulfonic acid (PFBS)	537	90	---	<	90		ng/L	---	---	---	---	1.0	07/30/2015 09:30	07/30/2015 18:20	3290036
LRB	Perfluoroheptanoic acid (PFHpA)	537	10	---	<	10		ng/L	---	---	---	---	1.0	07/30/2015 09:30	07/30/2015 18:20	3290036
LRB	Perfluorohexanesulfonic acid (PFHxS)	537	30	---	<	30		ng/L	---	---	---	---	1.0	07/30/2015 09:30	07/30/2015 18:20	3290036
LRB	Perfluorononanoic acid (PFNA)	537	20	---	<	20		ng/L	---	---	---	---	1.0	07/30/2015 09:30	07/30/2015 18:20	3290036
LRB	Perfluorooctane sulfonate (PFOS)	537	40	---	<	40		ng/L	---	---	---	---	1.0	07/30/2015 09:30	07/30/2015 18:20	3290036
LRB	Perfluorooctanoic acid (PFOA)	537	20	---	<	20		ng/L	---	---	---	---	1.0	07/30/2015 09:30	07/30/2015 18:20	3290036
FBL	IS-PFOA-13C2	537	N/A	---		4427.14	4315.61	ng/L	103	70 - 140	---	---	1.0	07/30/2015 09:30	07/30/2015 18:51	3290037
FBL	IS-PFOS-13C4	537	N/A	---		5057.35	5030.37	ng/L	101	70 - 140	---	---	1.0	07/30/2015 09:30	07/30/2015 18:51	3290037
FBL	SS-PFDA-13C2	537	N/A	---		96.5667	100	ng/L	97	70 - 130	---	---	1.0	07/30/2015 09:30	07/30/2015 18:51	3290037
FBL	SS-PFHxA-13C2	537	N/A	---		47.7919	50.0	ng/L	96	70 - 130	---	---	1.0	07/30/2015 09:30	07/30/2015 18:51	3290037
FBL	Perfluorobutanesulfonic acid (PFBS)	537	90	---		93.4057	90.0	ng/L	104	50 - 150	---	---	1.0	07/30/2015 09:30	07/30/2015 18:51	3290037
FBL	Perfluoroheptanoic acid (PFHpA)	537	10	---		10.0561	10.0	ng/L	101	50 - 150	---	---	1.0	07/30/2015 09:30	07/30/2015 18:51	3290037
FBL	Perfluorohexanesulfonic acid (PFHxS)	537	30	---		30.2129	30.0	ng/L	101	50 - 150	---	---	1.0	07/30/2015 09:30	07/30/2015 18:51	3290037
FBL	Perfluorononanoic acid (PFNA)	537	20	---		20.2709	20.0	ng/L	101	50 - 150	---	---	1.0	07/30/2015 09:30	07/30/2015 18:51	3290037
FBL	Perfluorooctane sulfonate (PFOS)	537	40	---		39.7392	40.0	ng/L	99	50 - 150	---	---	1.0	07/30/2015 09:30	07/30/2015 18:51	3290037
FBL	Perfluorooctanoic acid (PFOA)	537	20	---		20.6095	20.0	ng/L	103	50 - 150	---	---	1.0	07/30/2015 09:30	07/30/2015 18:51	3290037
FBM	IS-PFOA-13C2	537	N/A	---		4428.44	4315.61	ng/L	103	70 - 140	---	---	1.0	07/30/2015 09:30	07/30/2015 19:22	3290038
FBM	IS-PFOS-13C4	537	N/A	---		5216.15	5030.37	ng/L	104	70 - 140	---	---	1.0	07/30/2015 09:30	07/30/2015 19:22	3290038
FBM	SS-PFDA-13C2	537	N/A	---		99.4112	100	ng/L	99	70 - 130	---	---	1.0	07/30/2015 09:30	07/30/2015 19:22	3290038
FBM	SS-PFHxA-13C2	537	N/A	---		49.2243	50.0	ng/L	98	70 - 130	---	---	1.0	07/30/2015 09:30	07/30/2015 19:22	3290038
FBM	Perfluorobutanesulfonic acid (PFBS)	537	90	---		675.6810	675	ng/L	100	70 - 130	---	---	1.0	07/30/2015 09:30	07/30/2015 19:22	3290038
FBM	Perfluoroheptanoic acid (PFHpA)	537	10	---		74.5057	75.0	ng/L	99	70 - 130	---	---	1.0	07/30/2015 09:30	07/30/2015 19:22	3290038
FBM	Perfluorohexanesulfonic acid (PFHxS)	537	30	---		219.7720	225	ng/L	98	70 - 130	---	---	1.0	07/30/2015 09:30	07/30/2015 19:22	3290038
FBM	Perfluorononanoic acid (PFNA)	537	20	---		148.7970	150	ng/L	99	70 - 130	---	---	1.0	07/30/2015 09:30	07/30/2015 19:22	3290038
FBM	Perfluorooctane sulfonate (PFOS)	537	40	---		289.1260	300	ng/L	96	70 - 130	---	---	1.0	07/30/2015 09:30	07/30/2015 19:22	3290038
FBM	Perfluorooctanoic acid (PFOA)	537	20	---		150.0380	150	ng/L	100	70 - 130	---	---	1.0	07/30/2015 09:30	07/30/2015 19:22	3290038

QC Summary Report (cont.)

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID #
FS	IS-PFOA-13C2	537	N/A	SG1-RB01-150729		4483.00	4315.61	ng/L	104	70 - 140	---	---	0.98	07/30/2015 09:30	07/30/2015 20:24	3289462
FS	IS-PFOS-13C4	537	N/A	SG1-RB01-150729		5361.69	5030.37	ng/L	107	70 - 140	---	---	0.98	07/30/2015 09:30	07/30/2015 20:24	3289462
FS	SS-PFDA-13C2	537	N/A	SG1-RB01-150729		107.1280	100	ng/L	109	70 - 130	---	---	0.98	07/30/2015 09:30	07/30/2015 20:24	3289462
FS	SS-PFHxA-13C2	537	N/A	SG1-RB01-150729		46.3924	50.0	ng/L	95	70 - 130	---	---	0.98	07/30/2015 09:30	07/30/2015 20:24	3289462
FS	Perfluorobutanesulfonic acid (PFBS)	537	90	SG1-RB01-150729	<	90		ng/L	---	---	---	---	0.98	07/30/2015 09:30	07/30/2015 20:24	3289462
FS	Perfluoroheptanoic acid (PFHpA)	537	10	SG1-RB01-150729	<	10		ng/L	---	---	---	---	0.98	07/30/2015 09:30	07/30/2015 20:24	3289462
FS	Perfluorohexanesulfonic acid (PFHxS)	537	30	SG1-RB01-150729	<	30		ng/L	---	---	---	---	0.98	07/30/2015 09:30	07/30/2015 20:24	3289462
FS	Perfluorononanoic acid (PFNA)	537	20	SG1-RB01-150729	<	20		ng/L	---	---	---	---	0.98	07/30/2015 09:30	07/30/2015 20:24	3289462
FS	Perfluorooctane sulfonate (PFOS)	537	40	SG1-RB01-150729	<	40		ng/L	---	---	---	---	0.98	07/30/2015 09:30	07/30/2015 20:24	3289462
FS	Perfluorooctanoic acid (PFOA)	537	20	SG1-RB01-150729	<	20		ng/L	---	---	---	---	0.98	07/30/2015 09:30	07/30/2015 20:24	3289462
FS	IS-PFOA-13C2	537	N/A	SG1-RB02-150729		4855.10	4315.61	ng/L	113	70 - 140	---	---	1.1	07/30/2015 09:30	07/30/2015 20:55	3289463
FS	IS-PFOS-13C4	537	N/A	SG1-RB02-150729		5238.05	5030.37	ng/L	104	70 - 140	---	---	1.1	07/30/2015 09:30	07/30/2015 20:55	3289463
FS	SS-PFDA-13C2	537	N/A	SG1-RB02-150729		128.9010	100	ng/L	117	70 - 130	---	---	1.1	07/30/2015 09:30	07/30/2015 20:55	3289463
FS	SS-PFHxA-13C2	537	N/A	SG1-RB02-150729		47.8621	50.0	ng/L	87	70 - 130	---	---	1.1	07/30/2015 09:30	07/30/2015 20:55	3289463
FS	Perfluorobutanesulfonic acid (PFBS)	537	90	SG1-RB02-150729	<	100		ng/L	---	---	---	---	1.1	07/30/2015 09:30	07/30/2015 20:55	3289463
FS	Perfluorohexanesulfonic acid (PFHxS)	537	30	SG1-RB02-150729	<	30		ng/L	---	---	---	---	1.1	07/30/2015 09:30	07/30/2015 20:55	3289463
FS	Perfluorononanoic acid (PFNA)	537	20	SG1-RB02-150729	<	20		ng/L	---	---	---	---	1.1	07/30/2015 09:30	07/30/2015 20:55	3289463
FS	Perfluorooctane sulfonate (PFOS)	537	40	SG1-RB02-150729	<	40		ng/L	---	---	---	---	1.1	07/30/2015 09:30	07/30/2015 20:55	3289463
FS	Perfluorooctanoic acid (PFOA)	537	20	SG1-RB02-150729	<	20		ng/L	---	---	---	---	1.1	07/30/2015 09:30	07/30/2015 20:55	3289463
FS	IS-PFOA-13C2	537	N/A	SG1-RB03-150729		3703.38	4315.61	ng/L	86	70 - 140	---	---	1.18	07/30/2015 09:30	07/30/2015 21:26	3289464
FS	IS-PFOS-13C4	537	N/A	SG1-RB03-150729		4385.60	5030.37	ng/L	87	70 - 140	---	---	1.18	07/30/2015 09:30	07/30/2015 21:26	3289464
FS	SS-PFDA-13C2	537	N/A	SG1-RB03-150729		131.2690	100	ng/L	111	70 - 130	---	---	1.18	07/30/2015 09:30	07/30/2015 21:26	3289464
FS	SS-PFHxA-13C2	537	N/A	SG1-RB03-150729		56.7593	50.0	ng/L	96	70 - 130	---	---	1.18	07/30/2015 09:30	07/30/2015 21:26	3289464
FS	Perfluorobutanesulfonic acid (PFBS)	537	90	SG1-RB03-150729	<	110		ng/L	---	---	---	---	1.18	07/30/2015 09:30	07/30/2015 21:26	3289464
FS	Perfluoroheptanoic acid (PFHpA)	537	10	SG1-RB03-150729	<	10		ng/L	---	---	---	---	1.18	07/30/2015 09:30	07/30/2015 21:26	3289464
FS	Perfluorohexanesulfonic acid (PFHxS)	537	30	SG1-RB03-150729	<	40		ng/L	---	---	---	---	1.18	07/30/2015 09:30	07/30/2015 21:26	3289464
FS	Perfluorononanoic acid (PFNA)	537	20	SG1-RB03-150729	<	20		ng/L	---	---	---	---	1.18	07/30/2015 09:30	07/30/2015 21:26	3289464
FS	Perfluorooctane sulfonate (PFOS)	537	40	SG1-RB03-150729	<	50		ng/L	---	---	---	---	1.18	07/30/2015 09:30	07/30/2015 21:26	3289464
FS	Perfluorooctanoic acid (PFOA)	537	20	SG1-RB03-150729	<	20		ng/L	---	---	---	---	1.18	07/30/2015 09:30	07/30/2015 21:26	3289464
FS	IS-PFOA-13C2	537	N/A	SG1-RB04-150729		3359.66	4315.61	ng/L	78	70 - 140	---	---	0.97	07/30/2015 09:30	07/30/2015 21:57	3289465
FS	IS-PFOS-13C4	537	N/A	SG1-RB04-150729		4011.00	5030.37	ng/L	80	70 - 140	---	---	0.97	07/30/2015 09:30	07/30/2015 21:57	3289465
FS	SS-PFDA-13C2	537	N/A	SG1-RB04-150729		90.9222	100	ng/L	94	70 - 130	---	---	0.97	07/30/2015 09:30	07/30/2015 21:57	3289465
FS	SS-PFHxA-13C2	537	N/A	SG1-RB04-150729		44.0784	50.0	ng/L	91	70 - 130	---	---	0.97	07/30/2015 09:30	07/30/2015 21:57	3289465
FS	Perfluorobutanesulfonic acid (PFBS)	537	90	SG1-RB04-150729	<	90		ng/L	---	---	---	---	0.97	07/30/2015 09:30	07/30/2015 21:57	3289465
FS	Perfluoroheptanoic acid (PFHpA)	537	10	SG1-RB04-150729	<	10		ng/L	---	---	---	---	0.97	07/30/2015 09:30	07/30/2015 21:57	3289465
FS	Perfluorohexanesulfonic acid (PFHxS)	537	30	SG1-RB04-150729	<	30		ng/L	---	---	---	---	0.97	07/30/2015 09:30	07/30/2015 21:57	3289465
FS	Perfluorononanoic acid (PFNA)	537	20	SG1-RB04-150729	<	20		ng/L	---	---	---	---	0.97	07/30/2015 09:30	07/30/2015 21:57	3289465
FS	Perfluorooctane sulfonate (PFOS)	537	40	SG1-RB04-150729	<	40		ng/L	---	---	---	---	0.97	07/30/2015 09:30	07/30/2015 21:57	3289465
FS	Perfluorooctanoic acid (PFOA)	537	20	SG1-RB04-150729	<	20		ng/L	---	---	---	---	0.97	07/30/2015 09:30	07/30/2015 21:57	3289465
FS	IS-PFOA-13C2	537	N/A	SG1-RB05-150729		3146.54	4315.61	ng/L	73	70 - 140	---	---	0.94	07/30/2015 09:30	07/30/2015 22:28	3289466
FS	IS-PFOS-13C4	537	N/A	SG1-RB05-150729		3936.51	5030.37	ng/L	78	70 - 140	---	---	0.94	07/30/2015 09:30	07/30/2015 22:28	3289466

QC Summary Report (cont.)

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID #
FS	SS-PFDA-13C2	537	N/A	SG1-RB05-150729		90.4774	100	ng/L	96	70 - 130	---	---	0.94	07/30/2015 09:30	07/30/2015 22:28	3289466
FS	SS-PFHxA-13C2	537	N/A	SG1-RB05-150729		42.9796	50.0	ng/L	91	70 - 130	---	---	0.94	07/30/2015 09:30	07/30/2015 22:28	3289466
FS	Perfluorobutanesulfonic acid (PFBS)	537	90	SG1-RB05-150729	<	90		ng/L	---	---	---	---	0.94	07/30/2015 09:30	07/30/2015 22:28	3289466
FS	Perfluoroheptanoic acid (PFHpA)	537	10	SG1-RB05-150729	<	10		ng/L	---	---	---	---	0.94	07/30/2015 09:30	07/30/2015 22:28	3289466
FS	Perfluorohexanesulfonic acid (PFHxS)	537	30	SG1-RB05-150729	<	30		ng/L	---	---	---	---	0.94	07/30/2015 09:30	07/30/2015 22:28	3289466
FS	Perfluorononanoic acid (PFNA)	537	20	SG1-RB05-150729	<	20		ng/L	---	---	---	---	0.94	07/30/2015 09:30	07/30/2015 22:28	3289466
FS	Perfluorooctane sulfonate (PFOS)	537	40	SG1-RB05-150729	<	40		ng/L	---	---	---	---	0.94	07/30/2015 09:30	07/30/2015 22:28	3289466
FS	Perfluorooctanoic acid (PFOA)	537	20	SG1-RB05-150729	<	20		ng/L	---	---	---	---	0.94	07/30/2015 09:30	07/30/2015 22:28	3289466
FS	IS-PFOA-13C2	537	N/A	SG1-RB06-150729		3172.60	4315.61	ng/L	74	70 - 140	---	---	0.97	07/30/2015 09:30	07/30/2015 22:59	3289467
FS	IS-PFOS-13C4	537	N/A	SG1-RB06-150729		3927.46	5030.37	ng/L	78	70 - 140	---	---	0.97	07/30/2015 09:30	07/30/2015 22:59	3289467
FS	SS-PFDA-13C2	537	N/A	SG1-RB06-150729		89.6939	100	ng/L	92	70 - 130	---	---	0.97	07/30/2015 09:30	07/30/2015 22:59	3289467
FS	SS-PFHxA-13C2	537	N/A	SG1-RB06-150729		46.9763	50.0	ng/L	97	70 - 130	---	---	0.97	07/30/2015 09:30	07/30/2015 22:59	3289467
FS	Perfluorobutanesulfonic acid (PFBS)	537	90	SG1-RB06-150729	<	90		ng/L	---	---	---	---	0.97	07/30/2015 09:30	07/30/2015 22:59	3289467
FS	Perfluoroheptanoic acid (PFHpA)	537	10	SG1-RB06-150729	<	10		ng/L	---	---	---	---	0.97	07/30/2015 09:30	07/30/2015 22:59	3289467
FS	Perfluorohexanesulfonic acid (PFHxS)	537	30	SG1-RB06-150729	<	30		ng/L	---	---	---	---	0.97	07/30/2015 09:30	07/30/2015 22:59	3289467
FS	Perfluorononanoic acid (PFNA)	537	20	SG1-RB06-150729	<	20		ng/L	---	---	---	---	0.97	07/30/2015 09:30	07/30/2015 22:59	3289467
FS	Perfluorooctane sulfonate (PFOS)	537	40	SG1-RB06-150729	<	40		ng/L	---	---	---	---	0.97	07/30/2015 09:30	07/30/2015 22:59	3289467
FS	Perfluorooctanoic acid (PFOA)	537	20	SG1-RB06-150729	<	20		ng/L	---	---	---	---	0.97	07/30/2015 09:30	07/30/2015 22:59	3289467
FS	IS-PFOA-13C2	537	N/A	SG1-FB01-150729		3149.98	4315.61	ng/L	73	70 - 140	---	---	1.0	07/30/2015 09:30	07/30/2015 23:30	3289468
FS	IS-PFOS-13C4	537	N/A	SG1-FB01-150729		3953.19	5030.37	ng/L	79	70 - 140	---	---	1.0	07/30/2015 09:30	07/30/2015 23:30	3289468
FS	SS-PFDA-13C2	537	N/A	SG1-FB01-150729		96.8721	100	ng/L	97	70 - 130	---	---	1.0	07/30/2015 09:30	07/30/2015 23:30	3289468
FS	SS-PFHxA-13C2	537	N/A	SG1-FB01-150729		46.6364	50.0	ng/L	93	70 - 130	---	---	1.0	07/30/2015 09:30	07/30/2015 23:30	3289468
FS	Perfluorobutanesulfonic acid (PFBS)	537	90	SG1-FB01-150729	<	90		ng/L	---	---	---	---	1.0	07/30/2015 09:30	07/30/2015 23:30	3289468
FS	Perfluoroheptanoic acid (PFHpA)	537	10	SG1-FB01-150729	<	10		ng/L	---	---	---	---	1.0	07/30/2015 09:30	07/30/2015 23:30	3289468
FS	Perfluorohexanesulfonic acid (PFHxS)	537	30	SG1-FB01-150729	<	30		ng/L	---	---	---	---	1.0	07/30/2015 09:30	07/30/2015 23:30	3289468
FS	Perfluorononanoic acid (PFNA)	537	20	SG1-FB01-150729	<	20		ng/L	---	---	---	---	1.0	07/30/2015 09:30	07/30/2015 23:30	3289468
FS	Perfluorooctane sulfonate (PFOS)	537	40	SG1-FB01-150729	<	40		ng/L	---	---	---	---	1.0	07/30/2015 09:30	07/30/2015 23:30	3289468
FS	Perfluorooctanoic acid (PFOA)	537	20	SG1-FB01-150729	<	20		ng/L	---	---	---	---	1.0	07/30/2015 09:30	07/30/2015 23:30	3289468
FS	IS-PFOA-13C2	537	N/A	SG1-TB01-150729		3339.67	4315.61	ng/L	77	70 - 140	---	---	0.96	07/30/2015 09:30	07/31/2015 00:00	3289469
FS	IS-PFOS-13C4	537	N/A	SG1-TB01-150729		4258.08	5030.37	ng/L	85	70 - 140	---	---	0.96	07/30/2015 09:30	07/31/2015 00:00	3289469
FS	SS-PFDA-13C2	537	N/A	SG1-TB01-150729		96.6316	100	ng/L	101	70 - 130	---	---	0.96	07/30/2015 09:30	07/31/2015 00:00	3289469
FS	SS-PFHxA-13C2	537	N/A	SG1-TB01-150729		45.9283	50.0	ng/L	96	70 - 130	---	---	0.96	07/30/2015 09:30	07/31/2015 00:00	3289469
FS	Perfluorobutanesulfonic acid (PFBS)	537	90	SG1-TB01-150729	<	90		ng/L	---	---	---	---	0.96	07/30/2015 09:30	07/31/2015 00:00	3289469
FS	Perfluoroheptanoic acid (PFHpA)	537	10	SG1-TB01-150729	<	10		ng/L	---	---	---	---	0.96	07/30/2015 09:30	07/31/2015 00:00	3289469
FS	Perfluorohexanesulfonic acid (PFHxS)	537	30	SG1-TB01-150729	<	30		ng/L	---	---	---	---	0.96	07/30/2015 09:30	07/31/2015 00:00	3289469
FS	Perfluorononanoic acid (PFNA)	537	20	SG1-TB01-150729	<	20		ng/L	---	---	---	---	0.96	07/30/2015 09:30	07/31/2015 00:00	3289469
FS	Perfluorooctane sulfonate (PFOS)	537	40	SG1-TB01-150729	<	40		ng/L	---	---	---	---	0.96	07/30/2015 09:30	07/31/2015 00:00	3289469
FS	Perfluorooctanoic acid (PFOA)	537	20	SG1-TB01-150729	<	20		ng/L	---	---	---	---	0.96	07/30/2015 09:30	07/31/2015 00:00	3289469
CCM	IS-PFOA-13C2	537	N/A	---		3261.81	3261.81	ng/L	100	70 - 140	---	---	1.0	07/27/2015 09:53	07/31/2015 02:04	3289658
CCM	IS-PFOS-13C4	537	N/A	---		4081.63	4081.63	ng/L	100	70 - 140	---	---	1.0	07/27/2015 09:53	07/31/2015 02:04	3289658
CCM	SS-PFDA-13C2	537	N/A	---		102.7790	100	ng/L	103	70 - 130	---	---	1.0	07/27/2015 09:53	07/31/2015 02:04	3289658

QC Summary Report (cont.)

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID #
CCM	SS-PFHxA-13C2	537	N/A	---		52.1822	50.0	ng/L	104	70 - 130	---	---	1.0	07/27/2015 09:53	07/31/2015 02:04	3289658
CCM	Perfluorobutanesulfonic acid (PFBS)	537	90	---		700.0260	675	ng/L	104	70 - 130	---	---	1.0	07/27/2015 09:53	07/31/2015 02:04	3289658
CCM	Perfluoroheptanoic acid (PFHpA)	537	10	---		78.1038	75.0	ng/L	104	70 - 130	---	---	1.0	07/27/2015 09:53	07/31/2015 02:04	3289658
CCM	Perfluorohexanesulfonic acid (PFHxS)	537	30	---		227.9070	225	ng/L	101	70 - 130	---	---	1.0	07/27/2015 09:53	07/31/2015 02:04	3289658
CCM	Perfluorononanoic acid (PFNA)	537	20	---		158.6200	150	ng/L	106	70 - 130	---	---	1.0	07/27/2015 09:53	07/31/2015 02:04	3289658
CCM	Perfluorooctane sulfonate (PFOS)	537	40	---		305.4140	300	ng/L	102	70 - 130	---	---	1.0	07/27/2015 09:53	07/31/2015 02:04	3289658
CCM	Perfluorooctanoic acid (PFOA)	537	20	---		156.9030	150	ng/L	105	70 - 130	---	---	1.0	07/27/2015 09:53	07/31/2015 02:04	3289658

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Run Log

Run ID: **205815** Method: **537**

Type	Sample Id	Sample Site	Matrix	Instrument ID	Analysis Date	Calibration File
CCL	3290766		OS	CY	08/02/2015 01:48	080115M537a.mdb
CCL	3290766		OS	CY	08/02/2015 01:48	080115M537a.mdb
LRB	3290770		RW	CY	08/02/2015 03:21	080115M537a.mdb
LRB	3290770		RW	CY	08/02/2015 03:21	080115M537a.mdb
FBL	3290771		RW	CY	08/02/2015 03:52	080115M537a.mdb
FBL	3290771		RW	CY	08/02/2015 03:52	080115M537a.mdb
FBH	3290772		RW	CY	08/02/2015 04:23	080115M537a.mdb
FBH	3290772		RW	CY	08/02/2015 04:23	080115M537a.mdb
FS	3289463	SG1-RB02-150729	DW	CY	08/02/2015 11:36	080115M537a.mdb
CCM	3290767		OS	CY	08/02/2015 12:07	080115M537a.mdb
CCM	3290767		OS	CY	08/02/2015 12:07	080115M537a.mdb

QC Summary Report

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID #
CCL	Perfluoroheptanoic acid (PFHpA)	537	10	---		11.1155	10.0	ng/L	111	50 - 150	---	---	1.0	08/01/2015 13:00	08/02/2015 01:48	3290766
CCL	IS-PFOA-13C2	537	N/A	---		5649.39	5649.39	ng/L	100	70 - 140	---	---	1.0	08/01/2015 13:00	08/02/2015 01:48	3290766
CCL	IS-PFOS-13C4	537	N/A	---		6452.10	6452.1	ng/L	100	70 - 140	---	---	1.0	08/01/2015 13:00	08/02/2015 01:48	3290766
CCL	SS-PFDA-13C2	537	N/A	---		100.0680	100	ng/L	100	70 - 130	---	---	1.0	08/01/2015 13:00	08/02/2015 01:48	3290766
CCL	SS-PFHxA-13C2	537	N/A	---		49.6788	50.0	ng/L	99	70 - 130	---	---	1.0	08/01/2015 13:00	08/02/2015 01:48	3290766
LRB	Perfluoroheptanoic acid (PFHpA)	537	10	---	<	10		ng/L	---	---	---	---	1.0	08/01/2015 09:00	08/02/2015 03:21	3290770
LRB	IS-PFOA-13C2	537	N/A	---		5845.46	5649.39	ng/L	103	70 - 140	---	---	1.0	08/01/2015 09:00	08/02/2015 03:21	3290770
LRB	IS-PFOS-13C4	537	N/A	---		6691.20	6452.1	ng/L	104	70 - 140	---	---	1.0	08/01/2015 09:00	08/02/2015 03:21	3290770
LRB	SS-PFDA-13C2	537	N/A	---		92.3315	100	ng/L	92	70 - 130	---	---	1.0	08/01/2015 09:00	08/02/2015 03:21	3290770
LRB	SS-PFHxA-13C2	537	N/A	---		44.5620	50.0	ng/L	89	70 - 130	---	---	1.0	08/01/2015 09:00	08/02/2015 03:21	3290770
FBL	Perfluoroheptanoic acid (PFHpA)	537	10	---		9.9279	10.0	ng/L	99	50 - 150	---	---	1.0	08/01/2015 09:00	08/02/2015 03:52	3290771
FBL	IS-PFOA-13C2	537	N/A	---		5835.35	5649.39	ng/L	103	70 - 140	---	---	1.0	08/01/2015 09:00	08/02/2015 03:52	3290771
FBL	IS-PFOS-13C4	537	N/A	---		6673.02	6452.1	ng/L	103	70 - 140	---	---	1.0	08/01/2015 09:00	08/02/2015 03:52	3290771
FBL	SS-PFDA-13C2	537	N/A	---		94.4827	100	ng/L	94	70 - 130	---	---	1.0	08/01/2015 09:00	08/02/2015 03:52	3290771
FBL	SS-PFHxA-13C2	537	N/A	---		45.0501	50.0	ng/L	90	70 - 130	---	---	1.0	08/01/2015 09:00	08/02/2015 03:52	3290771
FBH	Perfluoroheptanoic acid (PFHpA)	537	10	---		112.8280	125	ng/L	90	70 - 130	---	---	1.0	08/01/2015 09:00	08/02/2015 04:23	3290772
FBH	IS-PFOA-13C2	537	N/A	---		5615.35	5649.39	ng/L	99	70 - 140	---	---	1.0	08/01/2015 09:00	08/02/2015 04:23	3290772
FBH	IS-PFOS-13C4	537	N/A	---		6527.86	6452.1	ng/L	101	70 - 140	---	---	1.0	08/01/2015 09:00	08/02/2015 04:23	3290772
FBH	SS-PFDA-13C2	537	N/A	---		95.6187	100	ng/L	96	70 - 130	---	---	1.0	08/01/2015 09:00	08/02/2015 04:23	3290772
FBH	SS-PFHxA-13C2	537	N/A	---		46.9235	50.0	ng/L	94	70 - 130	---	---	1.0	08/01/2015 09:00	08/02/2015 04:23	3290772
FS	Perfluoroheptanoic acid (PFHpA)	537	10	SG1-RB02-150729		340		ng/L	---	---	---	---	11	07/30/2015 09:30	08/02/2015 11:36	3289463
CCM	Perfluoroheptanoic acid (PFHpA)	537	10	---		74.1616	75.0	ng/L	99	70 - 130	---	---	1.0	08/01/2015 13:00	08/02/2015 12:07	3290767
CCM	IS-PFOA-13C2	537	N/A	---		5395.91	5395.91	ng/L	100	70 - 140	---	---	1.0	08/01/2015 13:00	08/02/2015 12:07	3290767
CCM	IS-PFOS-13C4	537	N/A	---		6516.90	6516.9	ng/L	100	70 - 140	---	---	1.0	08/01/2015 13:00	08/02/2015 12:07	3290767
CCM	SS-PFDA-13C2	537	N/A	---		107.3480	100	ng/L	107	70 - 130	---	---	1.0	08/01/2015 13:00	08/02/2015 12:07	3290767
CCM	SS-PFHxA-13C2	537	N/A	---		50.7742	50.0	ng/L	102	70 - 130	---	---	1.0	08/01/2015 13:00	08/02/2015 12:07	3290767

Sample Type Key

Type (Abbr.)	Sample Type	Type (Abbr.)	Sample Type
CCL	Continuing Calibration Low		
CCM	Continuing Calibration Mid		
FS	Field Sample		
FBH	Fortified Blank High		
FBL	Fortified Blank Low		
FBM	Fortified Blank Mid		
LRB	Laboratory Reagent Blank		

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LABORATORY REPORT

If you have any questions concerning this report, please do not hesitate to call us at (800) 332-4345 or (574) 233-4777.

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STATE CERTIFICATION LIST

State	Certification	State	Certification
Alabama	40700	Montana	CERT0026
Alaska	IN00035	Nebraska	E87775
Arizona	AZ0432	Nevada	IN000352015-1
Arkansas	IN035	New Hampshire*	2124
California	2920	New Mexico	IN00035
Colorado	IN035	New Jersey*	IN598
Colorado Radiochemistry	IN035	New York*	11398
Connecticut	PH-0132	North Carolina	18700
Delaware	IN035	North Dakota	R-035
Florida (Primary AB)*	E87775	Ohio	87775
Georgia	929	Oklahoma	D9508
Hawaii	IN035	Oregon*	IN200001
Idaho	IN00035/E87775	Pennsylvania*	68-00466
Illinois*	200001	Puerto Rico	IN00035
Illinois Microbiology	200001	Rhode Island	LAO00241
Indiana Chemistry	C-71-01	South Carolina	95005
Indiana Microbiology	M-76-07	South Dakota	IN00035
Iowa	098	Tennessee	TN02973
Kansas*	E-10233	Texas*	T104704187-14-7
Kentucky	90056	Texas/TCEQ	TX207
Louisiana*	LA150003	Utah*	IN00035
Maine	IN00035	Vermont	VT-8775
Maryland	209	Virginia*	00127
Massachusetts	M-IN035	Washington	C837
Michigan	9926	West Virginia	9927 C
Minnesota*	018-999-338	Wisconsin	999766900
Mississippi	IN035	Wyoming	IN035
Missouri	880		

*NELAP/TNI Recognized Accreditation Bodies

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110 South Hill Street
South Bend, IN 46617
Tel: (574) 233-4777
Fax: (574) 233-8207
1 800 332 4345

Laboratory Report

Client: Ramboll Environ

Attn: Valerie Turner
3 Carlisle Road
Suite 210
Westford, MA 01886

Copies to: Rob Huening

Report: 345317
Priority: Weekend or Holiday
Status: Final
PWS ID: Not Supplied
Lab ELAP #: 11398

Sample Information

EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
3290665	SG1-FB01-150731	537	07/31/15 08:40	Client	08/01/15 08:45
3290666	SG1-FB02-150731	537	07/31/15 09:13	Client	08/01/15 08:45

Report Summary

Detailed quantitative results are presented on the following pages. The results presented relate only to the samples provided for analysis.

We appreciate the opportunity to provide you with this analysis. If you have any questions concerning this report, please do not hesitate to call Nathan Trowbridge at (574) 233-4777.

Note: This report may not be reproduced, except in full, without written approval from EEA.

C.S. Manager — 08/03/2015

Authorized Signature — Title — Date

Client Name: Ramboll Environ
Report #: 345317

Client Name: Ramboll Environ

Report #: 345317

Sampling Point: SG1-FB01-150731

PWS ID: Not Supplied

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	90	< 90	ng/L	08/01/15 09:00	08/02/15 06:58	3290665
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	10	< 10	ng/L	08/01/15 09:00	08/02/15 06:58	3290665
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	30	< 30	ng/L	08/01/15 09:00	08/02/15 06:58	3290665
375-95-1	Perfluorononanoic acid (PFNA)	537	---	20	< 20	ng/L	08/01/15 09:00	08/02/15 06:58	3290665
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	40	< 40	ng/L	08/01/15 09:00	08/02/15 06:58	3290665
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	20	< 20	ng/L	08/01/15 09:00	08/02/15 06:58	3290665

Sampling Point: SG1-FB02-150731

PWS ID: Not Supplied

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	90	< 90	ng/L	08/01/15 09:00	08/02/15 07:28	3290666
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	10	< 10	ng/L	08/01/15 09:00	08/02/15 07:28	3290666
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	30	< 30	ng/L	08/01/15 09:00	08/02/15 07:28	3290666
375-95-1	Perfluorononanoic acid (PFNA)	537	---	20	< 20	ng/L	08/01/15 09:00	08/02/15 07:28	3290666
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	40	< 40	ng/L	08/01/15 09:00	08/02/15 07:28	3290666
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	20	< 20	ng/L	08/01/15 09:00	08/02/15 07:28	3290666

† EEA has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices.

Reg Limit Type:	MCL	SMCL	AL
Symbol:	*	^	!

Lab Definitions

Continuing Calibration Check Standard (CCC) / Continuing Calibration Verification (CCV) / Initial Calibration Verification Standard (ICV) / Initial Performance Check (IPC) - is a standard containing one or more of the target analytes that is prepared from the same standards used to calibrate the instrument. This standard is used to verify the calibration curve at the beginning of each analytical sequence, and may also be analyzed throughout and at the end of the sequence. The concentration of continuing standards may be varied, when prescribed by the reference method, so that the range of the calibration curve is verified on a regular basis.

Internal Standards (IS) - are pure compounds with properties similar to the analytes of interest, which are added to field samples or extracts, calibration standards, and quality control standards at a known concentration. They are used to measure the relative responses of the analytes of interest and surrogates in the sample, calibration standard or quality control standard.

Laboratory Duplicate (LD) - is a field sample aliquot taken from the same sample container in the laboratory and analyzed separately using identical procedures. Analysis of laboratory duplicates provides a measure of the precision of the laboratory procedures.

Laboratory Fortified Blank (LFB) / Laboratory Control Sample (LCS) - is an aliquot of reagent water to which known concentrations of the analytes of interest are added. The LFB is analyzed exactly the same as the field samples. LFBs are used to determine whether the method is in control.

Laboratory Method Blank (LMB) / Laboratory Reagent Blank (LRB) - is a sample of reagent water included in the sample batch analyzed in the same way as the associated field samples. The LMB is used to determine if method analytes or other background contamination have been introduced during the preparation or analytical procedure. The LMB is analyzed exactly the same as the field samples.

Laboratory Trip Blank (LTB) / Field Reagent Blank (FRB) - is a sample of laboratory reagent water placed in a sample container in the laboratory and treated as a field sample, including storage, preservation, and all analytical procedures. The FRB/LTB container follows the collection bottles to and from the collection site, but the FRB/LTB is not opened at any time during the trip. The FRB/LTB is primarily a travel blank used to verify that the samples were not contaminated during shipment.

Matrix Spike Duplicate Sample (MSD) / Laboratory Fortified Sample Matrix Duplicate (LFSMD) - is a sample aliquot taken from the same field sample source as the Matrix Spike Sample to which known quantities of the analytes of interest are added in the laboratory. The MSD is analyzed exactly the same as the field samples. Analysis of the MSD provides a measure of the precision of the laboratory procedures in a specific matrix.

Matrix Spike Sample (MS) / Laboratory Fortified Sample Matrix (LFSM) - is a sample aliquot taken from field sample source to which known quantities of the analytes of interest are added in the laboratory. The MS is analyzed exactly the same as the field samples. The purpose is to demonstrate recovery of the analytes from a sample matrix to determine if the specific matrix contributes bias to the analytical results.

Quality Control Standard (QCS) / Second Source Calibration Verification (SSCV) - is a solution containing known concentrations of the analytes of interest prepared from a source different from the source of the calibration standards. The solution is obtained from a second manufacturer or lot if the lot can be demonstrated by the manufacturer as prepared independently from other lots. The QCS sample is analyzed using the same procedures as field samples. The QCS is used as a check on the calibration standards used in the method on a routine basis.

Reporting Limit Check (RLC) / Initial Calibration Check Standard (ICCS) - is a procedural standard that is analyzed each day to evaluate instrument performance at or below the minimum reporting limit (MRL).

Surrogate Standard (SS) / Surrogate Analyte (SUR) - is a pure compound with properties similar to the analytes of interest, which is highly unlikely to be found in any field sample, that is added to the field samples, calibration standards, blanks and quality control standards before sample preparation. The SS is used to evaluate the efficiency of the sample preparation process.

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Run Log

Run ID: **205815** Method: **537**

Type	Sample Id	Sample Site	Matrix	Instrument ID	Analysis Date	Calibration File
CCL	3290766		OS	CY	08/02/2015 01:48	080115M537a.mdb
LRB	3290770		RW	CY	08/02/2015 03:21	080115M537a.mdb
FBL	3290771		RW	CY	08/02/2015 03:52	080115M537a.mdb
FBH	3290772		RW	CY	08/02/2015 04:23	080115M537a.mdb
FTB	3290667	SG1-TB01-150731	RW	CY	08/02/2015 05:25	080115M537a.mdb
FS	3290665	SG1-FB01-150731	DW	CY	08/02/2015 06:58	080115M537a.mdb
FS	3290666	SG1-FB02-150731	DW	CY	08/02/2015 07:28	080115M537a.mdb
LFSML	3290773	SG1-FB02-150731	DW	CY	08/02/2015 07:59	080115M537a.mdb
LFSMDL	3290774	SG1-FB02-150731	DW	CY	08/02/2015 08:30	080115M537a.mdb
CCM	3290767		OS	CY	08/02/2015 12:07	080115M537a.mdb

QC Summary Report

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID #
CCL	IS-PFOA-13C2	537	N/A	---		5649.39	5649.39	ng/L	100	70 - 140	---	---	1.0	08/01/2015 13:00	08/02/2015 01:48	3290766
CCL	IS-PFOS-13C4	537	N/A	---		6452.10	6452.1	ng/L	100	70 - 140	---	---	1.0	08/01/2015 13:00	08/02/2015 01:48	3290766
CCL	SS-PFDA-13C2	537	N/A	---		100.0680	100	ng/L	100	70 - 130	---	---	1.0	08/01/2015 13:00	08/02/2015 01:48	3290766
CCL	SS-PFHxA-13C2	537	N/A	---		49.6788	50.0	ng/L	99	70 - 130	---	---	1.0	08/01/2015 13:00	08/02/2015 01:48	3290766
CCL	Perfluorobutanesulfonic acid (PFBS)	537	90	---		98.6508	90.0	ng/L	110	50 - 150	---	---	1.0	08/01/2015 13:00	08/02/2015 01:48	3290766
CCL	Perfluoroheptanoic acid (PFHpA)	537	10	---		11.1155	10.0	ng/L	111	50 - 150	---	---	1.0	08/01/2015 13:00	08/02/2015 01:48	3290766
CCL	Perfluorohexanesulfonic acid (PFHxS)	537	30	---		33.0395	30.0	ng/L	110	50 - 150	---	---	1.0	08/01/2015 13:00	08/02/2015 01:48	3290766
CCL	Perfluorononanoic acid (PFNA)	537	20	---		22.3134	20.0	ng/L	112	50 - 150	---	---	1.0	08/01/2015 13:00	08/02/2015 01:48	3290766
CCL	Perfluorooctane sulfonate (PFOS)	537	40	---		43.4649	40.0	ng/L	109	50 - 150	---	---	1.0	08/01/2015 13:00	08/02/2015 01:48	3290766
CCL	Perfluorooctanoic acid (PFOA)	537	20	---		21.6583	20.0	ng/L	108	50 - 150	---	---	1.0	08/01/2015 13:00	08/02/2015 01:48	3290766
LRB	IS-PFOA-13C2	537	N/A	---		5845.46	5649.39	ng/L	103	70 - 140	---	---	1.0	08/01/2015 09:00	08/02/2015 03:21	3290770
LRB	IS-PFOS-13C4	537	N/A	---		6691.20	6452.1	ng/L	104	70 - 140	---	---	1.0	08/01/2015 09:00	08/02/2015 03:21	3290770
LRB	SS-PFDA-13C2	537	N/A	---		92.3315	100	ng/L	92	70 - 130	---	---	1.0	08/01/2015 09:00	08/02/2015 03:21	3290770
LRB	SS-PFHxA-13C2	537	N/A	---		44.5620	50.0	ng/L	89	70 - 130	---	---	1.0	08/01/2015 09:00	08/02/2015 03:21	3290770
LRB	Perfluorobutanesulfonic acid (PFBS)	537	90	---	<	90		ng/L	---	---	---	---	1.0	08/01/2015 09:00	08/02/2015 03:21	3290770
LRB	Perfluoroheptanoic acid (PFHpA)	537	10	---	<	10		ng/L	---	---	---	---	1.0	08/01/2015 09:00	08/02/2015 03:21	3290770
LRB	Perfluorohexanesulfonic acid (PFHxS)	537	30	---	<	30		ng/L	---	---	---	---	1.0	08/01/2015 09:00	08/02/2015 03:21	3290770
LRB	Perfluorononanoic acid (PFNA)	537	20	---	<	20		ng/L	---	---	---	---	1.0	08/01/2015 09:00	08/02/2015 03:21	3290770
LRB	Perfluorooctane sulfonate (PFOS)	537	40	---	<	40		ng/L	---	---	---	---	1.0	08/01/2015 09:00	08/02/2015 03:21	3290770
LRB	Perfluorooctanoic acid (PFOA)	537	20	---	<	20		ng/L	---	---	---	---	1.0	08/01/2015 09:00	08/02/2015 03:21	3290770
FBL	IS-PFOA-13C2	537	N/A	---		5835.35	5649.39	ng/L	103	70 - 140	---	---	1.0	08/01/2015 09:00	08/02/2015 03:52	3290771
FBL	IS-PFOS-13C4	537	N/A	---		6673.02	6452.1	ng/L	103	70 - 140	---	---	1.0	08/01/2015 09:00	08/02/2015 03:52	3290771
FBL	SS-PFDA-13C2	537	N/A	---		94.4827	100	ng/L	94	70 - 130	---	---	1.0	08/01/2015 09:00	08/02/2015 03:52	3290771
FBL	SS-PFHxA-13C2	537	N/A	---		45.0501	50.0	ng/L	90	70 - 130	---	---	1.0	08/01/2015 09:00	08/02/2015 03:52	3290771
FBL	Perfluorobutanesulfonic acid (PFBS)	537	90	---		89.8462	90.0	ng/L	100	50 - 150	---	---	1.0	08/01/2015 09:00	08/02/2015 03:52	3290771
FBL	Perfluoroheptanoic acid (PFHpA)	537	10	---		9.9279	10.0	ng/L	99	50 - 150	---	---	1.0	08/01/2015 09:00	08/02/2015 03:52	3290771
FBL	Perfluorohexanesulfonic acid (PFHxS)	537	30	---		31.0229	30.0	ng/L	103	50 - 150	---	---	1.0	08/01/2015 09:00	08/02/2015 03:52	3290771
FBL	Perfluorononanoic acid (PFNA)	537	20	---		20.0196	20.0	ng/L	100	50 - 150	---	---	1.0	08/01/2015 09:00	08/02/2015 03:52	3290771
FBL	Perfluorooctane sulfonate (PFOS)	537	40	---		41.9104	40.0	ng/L	105	50 - 150	---	---	1.0	08/01/2015 09:00	08/02/2015 03:52	3290771
FBL	Perfluorooctanoic acid (PFOA)	537	20	---		20.1715	20.0	ng/L	101	50 - 150	---	---	1.0	08/01/2015 09:00	08/02/2015 03:52	3290771
FBH	IS-PFOA-13C2	537	N/A	---		5615.35	5649.39	ng/L	99	70 - 140	---	---	1.0	08/01/2015 09:00	08/02/2015 04:23	3290772
FBH	IS-PFOS-13C4	537	N/A	---		6527.86	6452.1	ng/L	101	70 - 140	---	---	1.0	08/01/2015 09:00	08/02/2015 04:23	3290772
FBH	SS-PFDA-13C2	537	N/A	---		95.6187	100	ng/L	96	70 - 130	---	---	1.0	08/01/2015 09:00	08/02/2015 04:23	3290772
FBH	SS-PFHxA-13C2	537	N/A	---		46.9235	50.0	ng/L	94	70 - 130	---	---	1.0	08/01/2015 09:00	08/02/2015 04:23	3290772
FBH	Perfluorobutanesulfonic acid (PFBS)	537	90	---		1039.3800	1125	ng/L	92	70 - 130	---	---	1.0	08/01/2015 09:00	08/02/2015 04:23	3290772
FBH	Perfluoroheptanoic acid (PFHpA)	537	10	---		112.8280	125	ng/L	90	70 - 130	---	---	1.0	08/01/2015 09:00	08/02/2015 04:23	3290772
FBH	Perfluorohexanesulfonic acid (PFHxS)	537	30	---		350.8900	375	ng/L	94	70 - 130	---	---	1.0	08/01/2015 09:00	08/02/2015 04:23	3290772
FBH	Perfluorononanoic acid (PFNA)	537	20	---		235.2200	250	ng/L	94	70 - 130	---	---	1.0	08/01/2015 09:00	08/02/2015 04:23	3290772
FBH	Perfluorooctane sulfonate (PFOS)	537	40	---		481.1070	500	ng/L	96	70 - 130	---	---	1.0	08/01/2015 09:00	08/02/2015 04:23	3290772
FBH	Perfluorooctanoic acid (PFOA)	537	20	---		232.1750	250	ng/L	93	70 - 130	---	---	1.0	08/01/2015 09:00	08/02/2015 04:23	3290772

QC Summary Report (cont.)

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID #
FTB	IS-PFOA-13C2	537	N/A	SG1-TB01-150731		6141.95	5649.39	ng/L	109	70 - 140	---	---	0.96	08/01/2015 09:00	08/02/2015 05:25	3290667
FTB	IS-PFOS-13C4	537	N/A	SG1-TB01-150731		7030.27	6452.1	ng/L	109	70 - 140	---	---	0.96	08/01/2015 09:00	08/02/2015 05:25	3290667
FTB	SS-PFDA-13C2	537	N/A	SG1-TB01-150731		92.4080	100	ng/L	96	70 - 130	---	---	0.96	08/01/2015 09:00	08/02/2015 05:25	3290667
FTB	SS-PFHxA-13C2	537	N/A	SG1-TB01-150731		44.1600	50.0	ng/L	92	70 - 130	---	---	0.96	08/01/2015 09:00	08/02/2015 05:25	3290667
FTB	Perfluorobutanesulfonic acid (PFBS)	537	90	SG1-TB01-150731	<	90		ng/L	---	---	---	---	0.96	08/01/2015 09:00	08/02/2015 05:25	3290667
FTB	Perfluoroheptanoic acid (PFHpA)	537	10	SG1-TB01-150731	<	10		ng/L	---	---	---	---	0.96	08/01/2015 09:00	08/02/2015 05:25	3290667
FTB	Perfluorohexanesulfonic acid (PFHxS)	537	30	SG1-TB01-150731	<	30		ng/L	---	---	---	---	0.96	08/01/2015 09:00	08/02/2015 05:25	3290667
FTB	Perfluorononanoic acid (PFNA)	537	20	SG1-TB01-150731	<	20		ng/L	---	---	---	---	0.96	08/01/2015 09:00	08/02/2015 05:25	3290667
FTB	Perfluorooctane sulfonate (PFOS)	537	40	SG1-TB01-150731	<	40		ng/L	---	---	---	---	0.96	08/01/2015 09:00	08/02/2015 05:25	3290667
FTB	Perfluorooctanoic acid (PFOA)	537	20	SG1-TB01-150731	<	20		ng/L	---	---	---	---	0.96	08/01/2015 09:00	08/02/2015 05:25	3290667
FS	IS-PFOA-13C2	537	N/A	SG1-FB01-150731		5971.47	5649.39	ng/L	106	70 - 140	---	---	0.98	08/01/2015 09:00	08/02/2015 06:58	3290665
FS	IS-PFOS-13C4	537	N/A	SG1-FB01-150731		6896.64	6452.1	ng/L	107	70 - 140	---	---	0.98	08/01/2015 09:00	08/02/2015 06:58	3290665
FS	SS-PFDA-13C2	537	N/A	SG1-FB01-150731		95.8449	100	ng/L	98	70 - 130	---	---	0.98	08/01/2015 09:00	08/02/2015 06:58	3290665
FS	SS-PFHxA-13C2	537	N/A	SG1-FB01-150731		48.2167	50.0	ng/L	98	70 - 130	---	---	0.98	08/01/2015 09:00	08/02/2015 06:58	3290665
FS	Perfluorobutanesulfonic acid (PFBS)	537	90	SG1-FB01-150731	<	90		ng/L	---	---	---	---	0.98	08/01/2015 09:00	08/02/2015 06:58	3290665
FS	Perfluoroheptanoic acid (PFHpA)	537	10	SG1-FB01-150731	<	10		ng/L	---	---	---	---	0.98	08/01/2015 09:00	08/02/2015 06:58	3290665
FS	Perfluorohexanesulfonic acid (PFHxS)	537	30	SG1-FB01-150731	<	30		ng/L	---	---	---	---	0.98	08/01/2015 09:00	08/02/2015 06:58	3290665
FS	Perfluorononanoic acid (PFNA)	537	20	SG1-FB01-150731	<	20		ng/L	---	---	---	---	0.98	08/01/2015 09:00	08/02/2015 06:58	3290665
FS	Perfluorooctane sulfonate (PFOS)	537	40	SG1-FB01-150731	<	40		ng/L	---	---	---	---	0.98	08/01/2015 09:00	08/02/2015 06:58	3290665
FS	Perfluorooctanoic acid (PFOA)	537	20	SG1-FB01-150731	<	20		ng/L	---	---	---	---	0.98	08/01/2015 09:00	08/02/2015 06:58	3290665
FS	IS-PFOA-13C2	537	N/A	SG1-FB02-150731		5830.62	5649.39	ng/L	103	70 - 140	---	---	0.94	08/01/2015 09:00	08/02/2015 07:28	3290666
FS	IS-PFOS-13C4	537	N/A	SG1-FB02-150731		6748.51	6452.1	ng/L	105	70 - 140	---	---	0.94	08/01/2015 09:00	08/02/2015 07:28	3290666
FS	SS-PFDA-13C2	537	N/A	SG1-FB02-150731		86.8260	100	ng/L	92	70 - 130	---	---	0.94	08/01/2015 09:00	08/02/2015 07:28	3290666
FS	SS-PFHxA-13C2	537	N/A	SG1-FB02-150731		43.8692	50.0	ng/L	93	70 - 130	---	---	0.94	08/01/2015 09:00	08/02/2015 07:28	3290666
FS	Perfluorobutanesulfonic acid (PFBS)	537	90	SG1-FB02-150731	<	90		ng/L	---	---	---	---	0.94	08/01/2015 09:00	08/02/2015 07:28	3290666
FS	Perfluoroheptanoic acid (PFHpA)	537	10	SG1-FB02-150731	<	10		ng/L	---	---	---	---	0.94	08/01/2015 09:00	08/02/2015 07:28	3290666
FS	Perfluorohexanesulfonic acid (PFHxS)	537	30	SG1-FB02-150731	<	30		ng/L	---	---	---	---	0.94	08/01/2015 09:00	08/02/2015 07:28	3290666
FS	Perfluorononanoic acid (PFNA)	537	20	SG1-FB02-150731	<	20		ng/L	---	---	---	---	0.94	08/01/2015 09:00	08/02/2015 07:28	3290666
FS	Perfluorooctane sulfonate (PFOS)	537	40	SG1-FB02-150731	<	40		ng/L	---	---	---	---	0.94	08/01/2015 09:00	08/02/2015 07:28	3290666
FS	Perfluorooctanoic acid (PFOA)	537	20	SG1-FB02-150731	<	20		ng/L	---	---	---	---	0.94	08/01/2015 09:00	08/02/2015 07:28	3290666
LFSML	IS-PFOA-13C2	537	N/A	SG1-FB02-150731		5980.60	5649.39	ng/L	106	70 - 140	---	---	1.0	08/01/2015 09:00	08/02/2015 07:59	3290773
LFSML	IS-PFOS-13C4	537	N/A	SG1-FB02-150731		7029.19	6452.1	ng/L	109	70 - 140	---	---	1.0	08/01/2015 09:00	08/02/2015 07:59	3290773
LFSML	SS-PFDA-13C2	537	N/A	SG1-FB02-150731		91.2824	100	ng/L	91	70 - 130	---	---	1.0	08/01/2015 09:00	08/02/2015 07:59	3290773
LFSML	SS-PFHxA-13C2	537	N/A	SG1-FB02-150731		42.3373	50.0	ng/L	85	70 - 130	---	---	1.0	08/01/2015 09:00	08/02/2015 07:59	3290773
LFSML	Perfluorobutanesulfonic acid (PFBS)	537	90	SG1-FB02-150731		91.9178	90.0	ng/L	102	50 - 150	---	---	1.0	08/01/2015 09:00	08/02/2015 07:59	3290773
LFSML	Perfluoroheptanoic acid (PFHpA)	537	10	SG1-FB02-150731		9.6946	10.0	ng/L	97	50 - 150	---	---	1.0	08/01/2015 09:00	08/02/2015 07:59	3290773
LFSML	Perfluorohexanesulfonic acid (PFHxS)	537	30	SG1-FB02-150731		30.8931	30.0	ng/L	103	50 - 150	---	---	1.0	08/01/2015 09:00	08/02/2015 07:59	3290773
LFSML	Perfluorononanoic acid (PFNA)	537	20	SG1-FB02-150731		20.6167	20.0	ng/L	103	50 - 150	---	---	1.0	08/01/2015 09:00	08/02/2015 07:59	3290773
LFSML	Perfluorooctane sulfonate (PFOS)	537	40	SG1-FB02-150731		41.0394	40.0	ng/L	103	50 - 150	---	---	1.0	08/01/2015 09:00	08/02/2015 07:59	3290773
LFSML	Perfluorooctanoic acid (PFOA)	537	20	SG1-FB02-150731		20.1454	20.0	ng/L	101	50 - 150	---	---	1.0	08/01/2015 09:00	08/02/2015 07:59	3290773
LFSMDL	IS-PFOA-13C2	537	N/A	SG1-FB02-150731		6273.78	5649.39	ng/L	111	70 - 140	---	---	1.0	08/01/2015 09:00	08/02/2015 08:30	3290774

QC Summary Report (cont.)

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID #
LFSMDL	IS-PFOS-13C4	537	N/A	SG1-FB02-150731		7279.08	6452.1	ng/L	113	70 - 140	---	---	1.0	08/01/2015 09:00	08/02/2015 08:30	3290774
LFSMDL	SS-PFDA-13C2	537	N/A	SG1-FB02-150731		93.6744	100	ng/L	94	70 - 130	---	---	1.0	08/01/2015 09:00	08/02/2015 08:30	3290774
LFSMDL	SS-PFHxA-13C2	537	N/A	SG1-FB02-150731		45.6649	50.0	ng/L	91	70 - 130	---	---	1.0	08/01/2015 09:00	08/02/2015 08:30	3290774
LFSMDL	Perfluorobutanesulfonic acid (PFBS)	537	90	SG1-FB02-150731		92.0015	90.0	ng/L	102	50 - 150	0.1	---	1.0	08/01/2015 09:00	08/02/2015 08:30	3290774
LFSMDL	Perfluoroheptanoic acid (PFHpA)	537	10	SG1-FB02-150731		10.2661	10.0	ng/L	103	50 - 150	---	---	1.0	08/01/2015 09:00	08/02/2015 08:30	3290774
LFSMDL	Perfluorohexanesulfonic acid (PFHxS)	537	30	SG1-FB02-150731		30.1298	30.0	ng/L	100	50 - 150	2.5	---	1.0	08/01/2015 09:00	08/02/2015 08:30	3290774
LFSMDL	Perfluorononanoic acid (PFNA)	537	20	SG1-FB02-150731		20.3950	20.0	ng/L	102	50 - 150	1.1	---	1.0	08/01/2015 09:00	08/02/2015 08:30	3290774
LFSMDL	Perfluorooctane sulfonate (PFOS)	537	40	SG1-FB02-150731		41.1795	40.0	ng/L	103	50 - 150	0.3	---	1.0	08/01/2015 09:00	08/02/2015 08:30	3290774
LFSMDL	Perfluorooctanoic acid (PFOA)	537	20	SG1-FB02-150731		19.8882	20.0	ng/L	99	50 - 150	---	---	1.0	08/01/2015 09:00	08/02/2015 08:30	3290774
CCM	IS-PFOA-13C2	537	N/A	---		5395.91	5395.91	ng/L	100	70 - 140	---	---	1.0	08/01/2015 13:00	08/02/2015 12:07	3290767
CCM	IS-PFOS-13C4	537	N/A	---		6516.90	6516.9	ng/L	100	70 - 140	---	---	1.0	08/01/2015 13:00	08/02/2015 12:07	3290767
CCM	SS-PFDA-13C2	537	N/A	---		107.3480	100	ng/L	107	70 - 130	---	---	1.0	08/01/2015 13:00	08/02/2015 12:07	3290767
CCM	SS-PFHxA-13C2	537	N/A	---		50.7742	50.0	ng/L	102	70 - 130	---	---	1.0	08/01/2015 13:00	08/02/2015 12:07	3290767
CCM	Perfluorobutanesulfonic acid (PFBS)	537	90	---		672.7620	675	ng/L	100	70 - 130	---	---	1.0	08/01/2015 13:00	08/02/2015 12:07	3290767
CCM	Perfluoroheptanoic acid (PFHpA)	537	10	---		74.1616	75.0	ng/L	99	70 - 130	---	---	1.0	08/01/2015 13:00	08/02/2015 12:07	3290767
CCM	Perfluorohexanesulfonic acid (PFHxS)	537	30	---		220.4270	225	ng/L	98	70 - 130	---	---	1.0	08/01/2015 13:00	08/02/2015 12:07	3290767
CCM	Perfluorononanoic acid (PFNA)	537	20	---		151.8440	150	ng/L	101	70 - 130	---	---	1.0	08/01/2015 13:00	08/02/2015 12:07	3290767
CCM	Perfluorooctane sulfonate (PFOS)	537	40	---		304.2380	300	ng/L	101	70 - 130	---	---	1.0	08/01/2015 13:00	08/02/2015 12:07	3290767
CCM	Perfluorooctanoic acid (PFOA)	537	20	---		150.6320	150	ng/L	100	70 - 130	---	---	1.0	08/01/2015 13:00	08/02/2015 12:07	3290767

Sample Type Key

Type (Abbr.)	Sample Type	Type (Abbr.)	Sample Type
CCL	Continuing Calibration Low		
CCM	Continuing Calibration Mid		
FS	Field Sample		
FTB	Field Trip Blank		
FBH	Fortified Blank High		
FBL	Fortified Blank Low		
LFSMDL	LFSM Duplicate Low		
LFSML	LFSM Low		
LRB	Laboratory Reagent Blank		

281032

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110 S. Hill Street
South Bend, IN 46617
T: 1.800.332.4345
F: 1.574.233.8207

Order # ~~280858~~ CS 8-1-15

Batch # 345317

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Shaded area for EEA use only

CHAIN OF CUSTODY RECORD

Page 1 of 1

REPORT TO: Jason W. Kinsey
Ramboll Environ
3 Carlisle Road, Suite 210
Westford, MA 01886

SAMPLER (Signature): Kirk Moline

PWS ID #:

STATE (sample origin): NY

PROJECT NAME: SGPP Hoosick Falls

PO#:

BILL TO: Same as: "Report To"

COMPLIANCE MONITORING: Yes [ ] No [X]

POPULATION SERVED:

SOURCE WATER:

	LAB Number	COLLECTION DATE	TIME	AM	PM	SAMPLING SITE	TEST NAME	SAMPLE REMARKS	CHLORINATED YES	CHLORINATED NO	# OF CONTAINERS	MATRIX CODE	TURNAROUND TIME
1	3290665	7-31-15	0890	X		SG1 - FB01 - 150731	EPA Method 537*	Cl-A	X		3	DW	SP
2	666	7-31-15	0913	X		SG1 - FB02 - 150731	EPA Method 537*	↓		X	3	DW	SP
3	667	7-31-15	0824	X		SG1 - TB01 - 150731	EPA Method 537*	↓		X	1	RW	IV
4								SS					
5													
6						* EPA Method 537 for the	following PFCs: PFOA						
7							PFBS						
8							PFHpA						
9						RUSH	PFHxS						
10							PFNA						
11							PFOS						
12						No other PFC's should be reported.							
13													
14													

RELINQUISHED BY:(Signature)	DATE	TIME	RECEIVED BY:(Signature)	DATE	TIME
	7-31-15	1350 AM [X] PM			AM PM
RELINQUISHED BY:(Signature)	DATE	TIME AM PM	RECEIVED BY:(Signature)	DATE	TIME AM PM
RELINQUISHED BY:(Signature)	DATE	TIME AM PM	RECEIVED FOR LABORATORY BY:	DATE 8-1-15	TIME 0845 AM PM

LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIENT

LAB COMMENTS

CONDITIONS UPON RECEIPT (check one): X Iced/Wet/Blue ___ Ambient 5.8 °C Upon Receipt ___ N/A

MATRIX CODES:

DW-DRINKING WATER
RW-REAGENT WATER
GW-GROUND WATER
EW-EXPOSURE WATER
SW-SURFACE WATER
PW-POOL WATER
WW-WASTE WATER

TURN-AROUND TIME (TAT) - SURCHARGES

SW = Standard Written: (15 working days) 0%
RV* = Rush Verbal: (5 working days) 50%
RW* = Rush Written: (5 working days) 75%
IV* = Immediate Verbal: (3 working days) 100%
IW* = Immediate Written: (3 working days) 125%
SP* = Weekend, Holiday CALL
STAT* = Less than 48 hours CALL

* Please call, expedited service not available for all testing

Samples received unannounced with less than 48 hours holding time remaining may be subject to additional charges.

06-LO-F0435 Issue 4.0 Effective Date: 2014-05-01

Sample analysis will be provided according to the standard EEA/Water Services Terms, which are available upon request. Any other terms proposed by Customer are deemed material alterations and are rejected unless expressly agree to in writing by EEA.

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LABORATORY REPORT

If you have any questions concerning this report, please do not hesitate to call us at (800) 332-4345 or (574) 233-4777.

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STATE CERTIFICATION LIST

State	Certification	State	Certification
Alabama	40700	Montana	CERT0026
Alaska	IN00035	Nebraska	E87775
Arizona	AZ0432	Nevada	IN000352015-1
Arkansas	IN035	New Hampshire*	2124
California	2920	New Mexico	IN00035
Colorado	IN035	New Jersey*	IN598
Colorado Radiochemistry	IN035	New York*	11398
Connecticut	PH-0132	North Carolina	18700
Delaware	IN035	North Dakota	R-035
Florida (Primary AB)*	E87775	Ohio	87775
Georgia	929	Oklahoma	D9508
Hawaii	IN035	Oregon*	IN200001
Idaho	IN00035/E87775	Pennsylvania*	68-00466
Illinois*	200001	Puerto Rico	IN00035
Illinois Microbiology	200001	Rhode Island	LAO00241
Indiana Chemistry	C-71-01	South Carolina	95005
Indiana Microbiology	M-76-07	South Dakota	IN00035
Iowa	098	Tennessee	TN02973
Kansas*	E-10233	Texas*	T104704187-14-7
Kentucky	90056	Texas/TCEQ	TX207
Louisiana*	LA150003	Utah*	IN00035
Maine	IN00035	Vermont	VT-8775
Maryland	209	Virginia*	00127
Massachusetts	M-IN035	Washington	C837
Michigan	9926	West Virginia	9927 C
Minnesota*	018-999-338	Wisconsin	999766900
Mississippi	IN035	Wyoming	IN035
Missouri	880		

*NELAP/TNI Recognized Accreditation Bodies

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110 South Hill Street
South Bend, IN 46617
Tel: (574) 233-4777
Fax: (574) 233-8207
1 800 332 4345

Laboratory Report

Client: Ramboll Environ

Attn: Valerie Turner
3 Carlisle Road
Suite 210
Westford, MA 01886

Copies to: Rob Huening

Report: 346703
Priority: Standard Written
Status: Final
PWS ID: Not Supplied

Sample Information

EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
3301317	SG1-RB01-150807	537	08/07/15 09:35	Client	08/14/15 10:00
3301318	SG1-FB01-150810	537	08/10/15 09:35	Client	08/14/15 10:00
3301319	SG1-RB01-150810	537	08/10/15 12:10	Client	08/14/15 10:00
3301320	SG1-RB02-150810	537	08/10/15 12:30	Client	08/14/15 10:00
3301321	SG1-RB03-150810	537	08/10/15 16:05	Client	08/14/15 10:00
3301322	SG1-RB01-150811	537	08/11/15 07:55	Client	08/14/15 10:00
3301323	SG1-RB02-150811	537	08/11/15 08:00	Client	08/14/15 10:00
3301324	SG1-RB03-150811	537	08/11/15 11:30	Client	08/14/15 10:00
3301325	SG1-RB01-150812	537	08/12/15 10:20	Client	08/14/15 10:00
3301326	SG1-RB01-150813	537	08/13/15 08:10	Client	08/14/15 10:00
3301327	SG1-RB02-150813	537	08/13/15 11:00	Client	08/14/15 10:00
3301328	SG1-RB03-150813	537	08/13/15 16:10	Client	08/14/15 10:00

Report Summary

Detailed quantitative results are presented on the following pages. The results presented relate only to the samples provided for analysis.

We appreciate the opportunity to provide you with this analysis. If you have any questions concerning this report, please do not hesitate to call Nathan Trowbridge at (574) 233-4777.

Note: This report may not be reproduced, except in full, without written approval from EEA.

C.S. Manager — 08/24/2015

Authorized Signature — Title — Date

Client Name: Ramboll Environ
Report #: 346703

Sampling Point: SG1-RB01-150807 PWS ID: Not Supplied

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	90	< 90	ng/L	08/18/15 06:45	08/18/15 23:45	3301317
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	10	< 10	ng/L	08/18/15 06:45	08/18/15 23:45	3301317
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	30	< 30	ng/L	08/18/15 06:45	08/18/15 23:45	3301317
375-95-1	Perfluorononanoic acid (PFNA)	537	---	20	< 20	ng/L	08/18/15 06:45	08/18/15 23:45	3301317
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	40	< 40	ng/L	08/18/15 06:45	08/18/15 23:45	3301317
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	20	< 20	ng/L	08/18/15 06:45	08/18/15 23:45	3301317

Sampling Point: SG1-FB01-150810 PWS ID: Not Supplied

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	90	< 90	ng/L	08/18/15 06:45	08/19/15 00:16	3301318
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	10	< 10	ng/L	08/18/15 06:45	08/19/15 00:16	3301318
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	30	< 30	ng/L	08/18/15 06:45	08/19/15 00:16	3301318
375-95-1	Perfluorononanoic acid (PFNA)	537	---	20	< 20	ng/L	08/18/15 06:45	08/19/15 00:16	3301318
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	40	< 40	ng/L	08/18/15 06:45	08/19/15 00:16	3301318
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	20	< 20	ng/L	08/18/15 06:45	08/19/15 00:16	3301318

Sampling Point: SG1-RB01-150810 PWS ID: Not Supplied

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	90	< 90	ng/L	08/18/15 06:45	08/19/15 00:47	3301319
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	10	< 10	ng/L	08/18/15 06:45	08/19/15 00:47	3301319
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	30	< 30	ng/L	08/18/15 06:45	08/19/15 00:47	3301319
375-95-1	Perfluorononanoic acid (PFNA)	537	---	20	< 20	ng/L	08/18/15 06:45	08/19/15 00:47	3301319
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	40	< 40	ng/L	08/18/15 06:45	08/19/15 00:47	3301319
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	20	< 20	ng/L	08/18/15 06:45	08/19/15 00:47	3301319

Sampling Point: SG1-RB02-150810 PWS ID: Not Supplied

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	90	< 90	ng/L	08/18/15 06:45	08/19/15 02:19	3301320
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	10	< 10	ng/L	08/18/15 06:45	08/19/15 02:19	3301320
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	30	< 30	ng/L	08/18/15 06:45	08/19/15 02:19	3301320
375-95-1	Perfluorononanoic acid (PFNA)	537	---	20	< 20	ng/L	08/18/15 06:45	08/19/15 02:19	3301320
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	40	< 40	ng/L	08/18/15 06:45	08/19/15 02:19	3301320
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	20	< 20	ng/L	08/18/15 06:45	08/19/15 02:19	3301320

Sampling Point: SG1-RB03-150810 PWS ID: Not Supplied

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	90	< 90	ng/L	08/18/15 06:45	08/19/15 02:50	3301321
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	10	< 10	ng/L	08/18/15 06:45	08/19/15 02:50	3301321
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	30	< 30	ng/L	08/18/15 06:45	08/19/15 02:50	3301321
375-95-1	Perfluorononanoic acid (PFNA)	537	---	20	< 20	ng/L	08/18/15 06:45	08/19/15 02:50	3301321
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	40	< 40	ng/L	08/18/15 06:45	08/19/15 02:50	3301321
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	20	< 20	ng/L	08/18/15 06:45	08/19/15 02:50	3301321

Sampling Point: SG1-RB01-150811 PWS ID: Not Supplied

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	90	< 90	ng/L	08/18/15 06:45	08/19/15 03:21	3301322
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	10	< 10	ng/L	08/18/15 06:45	08/19/15 03:21	3301322
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	30	< 30	ng/L	08/18/15 06:45	08/19/15 03:21	3301322
375-95-1	Perfluorononanoic acid (PFNA)	537	---	20	< 20	ng/L	08/18/15 06:45	08/19/15 03:21	3301322
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	40	< 40	ng/L	08/18/15 06:45	08/19/15 03:21	3301322
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	20	< 20	ng/L	08/18/15 06:45	08/19/15 03:21	3301322

Sampling Point: SG1-RB02-150811 PWS ID: Not Supplied

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	90	< 90	ng/L	08/18/15 06:45	08/19/15 03:52	3301323
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	10	< 10	ng/L	08/18/15 06:45	08/19/15 03:52	3301323
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	30	< 30	ng/L	08/18/15 06:45	08/19/15 03:52	3301323
375-95-1	Perfluorononanoic acid (PFNA)	537	---	20	< 20	ng/L	08/18/15 06:45	08/19/15 03:52	3301323
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	40	< 40	ng/L	08/18/15 06:45	08/19/15 03:52	3301323
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	20	< 20	ng/L	08/18/15 06:45	08/19/15 03:52	3301323

Sampling Point: SG1-RB03-150811 PWS ID: Not Supplied

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	90	< 90	ng/L	08/18/15 06:45	08/19/15 04:23	3301324
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	10	< 10	ng/L	08/18/15 06:45	08/19/15 04:23	3301324
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	30	< 30	ng/L	08/18/15 06:45	08/19/15 04:23	3301324
375-95-1	Perfluorononanoic acid (PFNA)	537	---	20	< 20	ng/L	08/18/15 06:45	08/19/15 04:23	3301324
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	40	< 40	ng/L	08/18/15 06:45	08/19/15 04:23	3301324
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	20	< 20	ng/L	08/18/15 06:45	08/19/15 04:23	3301324

Sampling Point: SG1-RB01-150812 PWS ID: Not Supplied

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	90	< 90	ng/L	08/18/15 06:45	08/19/15 04:54	3301325
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	10	< 10	ng/L	08/18/15 06:45	08/19/15 04:54	3301325
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	30	< 30	ng/L	08/18/15 06:45	08/19/15 04:54	3301325
375-95-1	Perfluorononanoic acid (PFNA)	537	---	20	< 20	ng/L	08/18/15 06:45	08/19/15 04:54	3301325
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	40	< 40	ng/L	08/18/15 06:45	08/19/15 04:54	3301325
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	20	< 20	ng/L	08/18/15 06:45	08/19/15 04:54	3301325

Sampling Point: SG1-RB01-150813 PWS ID: Not Supplied

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	90	< 90	ng/L	08/18/15 06:45	08/19/15 05:25	3301326
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	10	< 10	ng/L	08/18/15 06:45	08/19/15 05:25	3301326
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	30	< 30	ng/L	08/18/15 06:45	08/19/15 05:25	3301326
375-95-1	Perfluorononanoic acid (PFNA)	537	---	20	< 20	ng/L	08/18/15 06:45	08/19/15 05:25	3301326
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	40	< 40	ng/L	08/18/15 06:45	08/19/15 05:25	3301326
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	20	< 20	ng/L	08/18/15 06:45	08/19/15 05:25	3301326

Sampling Point: SG1-RB02-150813 PWS ID: Not Supplied

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	90	< 90	ng/L	08/18/15 06:45	08/19/15 05:56	3301327
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	10	< 10	ng/L	08/18/15 06:45	08/19/15 05:56	3301327
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	30	< 30	ng/L	08/18/15 06:45	08/19/15 05:56	3301327
375-95-1	Perfluorononanoic acid (PFNA)	537	---	20	< 20	ng/L	08/18/15 06:45	08/19/15 05:56	3301327
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	40	< 40	ng/L	08/18/15 06:45	08/19/15 05:56	3301327
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	20	< 20	ng/L	08/18/15 06:45	08/19/15 05:56	3301327

Sampling Point: SG1-RB03-150813 PWS ID: Not Supplied

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	90	< 90	ng/L	08/18/15 06:45	08/19/15 06:27	3301328
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	10	< 10	ng/L	08/18/15 06:45	08/19/15 06:27	3301328
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	30	< 30	ng/L	08/18/15 06:45	08/19/15 06:27	3301328
375-95-1	Perfluorononanoic acid (PFNA)	537	---	20	< 20	ng/L	08/18/15 06:45	08/19/15 06:27	3301328
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	40	< 40	ng/L	08/18/15 06:45	08/19/15 06:27	3301328
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	20	< 20	ng/L	08/18/15 06:45	08/19/15 06:27	3301328

† EEA has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices.

Reg Limit Type:	MCL	SMCL	AL
Symbol:	*	^	!

Lab Definitions

Continuing Calibration Check Standard (CCC) / Continuing Calibration Verification (CCV) / Initial Calibration Verification Standard (ICV) / Initial Performance Check (IPC) - is a standard containing one or more of the target analytes that is prepared from the same standards used to calibrate the instrument. This standard is used to verify the calibration curve at the beginning of each analytical sequence, and may also be analyzed throughout and at the end of the sequence. The concentration of continuing standards may be varied, when prescribed by the reference method, so that the range of the calibration curve is verified on a regular basis.

Internal Standards (IS) - are pure compounds with properties similar to the analytes of interest, which are added to field samples or extracts, calibration standards, and quality control standards at a known concentration. They are used to measure the relative responses of the analytes of interest and surrogates in the sample, calibration standard or quality control standard.

Laboratory Duplicate (LD) - is a field sample aliquot taken from the same sample container in the laboratory and analyzed separately using identical procedures. Analysis of laboratory duplicates provides a measure of the precision of the laboratory procedures.

Laboratory Fortified Blank (LFB) / Laboratory Control Sample (LCS) - is an aliquot of reagent water to which known concentrations of the analytes of interest are added. The LFB is analyzed exactly the same as the field samples. LFBs are used to determine whether the method is in control.

Laboratory Method Blank (LMB) / Laboratory Reagent Blank (LRB) - is a sample of reagent water included in the sample batch analyzed in the same way as the associated field samples. The LMB is used to determine if method analytes or other background contamination have been introduced during the preparation or analytical procedure. The LMB is analyzed exactly the same as the field samples.

Laboratory Trip Blank (LTB) / Field Reagent Blank (FRB) - is a sample of laboratory reagent water placed in a sample container in the laboratory and treated as a field sample, including storage, preservation, and all analytical procedures. The FRB/LTB container follows the collection bottles to and from the collection site, but the FRB/LTB is not opened at any time during the trip. The FRB/LTB is primarily a travel blank used to verify that the samples were not contaminated during shipment.

Matrix Spike Duplicate Sample (MSD) / Laboratory Fortified Sample Matrix Duplicate (LFSMD) - is a sample aliquot taken from the same field sample source as the Matrix Spike Sample to which known quantities of the analytes of interest are added in the laboratory. The MSD is analyzed exactly the same as the field samples. Analysis of the MSD provides a measure of the precision of the laboratory procedures in a specific matrix.

Matrix Spike Sample (MS) / Laboratory Fortified Sample Matrix (LFSM) - is a sample aliquot taken from field sample source to which known quantities of the analytes of interest are added in the laboratory. The MS is analyzed exactly the same as the field samples. The purpose is to demonstrate recovery of the analytes from a sample matrix to determine if the specific matrix contributes bias to the analytical results.

Quality Control Standard (QCS) / Second Source Calibration Verification (SSCV) - is a solution containing known concentrations of the analytes of interest prepared from a source different from the source of the calibration standards. The solution is obtained from a second manufacturer or lot if the lot can be demonstrated by the manufacturer as prepared independently from other lots. The QCS sample is analyzed using the same procedures as field samples. The QCS is used as a check on the calibration standards used in the method on a routine basis.

Reporting Limit Check (RLC) / Initial Calibration Check Standard (ICCS) - is a procedural standard that is analyzed each day to evaluate instrument performance at or below the minimum reporting limit (MRL).

Surrogate Standard (SS) / Surrogate Analyte (SUR) - is a pure compound with properties similar to the analytes of interest, which is highly unlikely to be found in any field sample, that is added to the field samples, calibration standards, blanks and quality control standards before sample preparation. The SS is used to evaluate the efficiency of the sample preparation process.

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Eaton Analytical

110 S. Hill Street
South Bend, IN 46617
T: 1.800.332.4345
F: 1.574.233.8207

Order # 280808

Batch # 346703

www.eatonanalytical.com

CHAIN OF CUSTODY RECORD

Shaded area for EEA use only

REPORT TO: Jessa Nikolova
Kimball Environ
3 Carlisle Rd, Suite 210
Westford, MA 01886

SAMPLER (Signature): Jessa Nikolova

PWS ID #:

STATE (sample origin): NY

PROJECT NAME: SGAP Hoosick Falls

PO#:

BILL TO: Same As Report

COMPLIANCE MONITORING: Yes / No

POPULATION SERVED:

SOURCE WATER:

LAB Number	COLLECTION DATE	TIME	AM	PM	SAMPLING SITE	TEST NAME	SAMPLE REMARKS	CHLORINATED YES	CHLORINATED NO	# OF CONTAINERS	MATRIX CODE	TURNAROUND TIME
1 3301316	8/7/15	0930	X		SG1-FB01-150807	EPA Method 537*			X	1	DW	SW
2 317	8/7/15	0935	X		SG1-RB02-150807	EPA Method 537*			X	3	DW	SW
3 318	8/10/15	0935	X		SG1-FB02-150810	EPA Method 537*		X	X	3	DW	SW
4 319	8/10/15	1210		X	SG1-RB02-150810	EPA Method 537*			X	3	DW	SW
5 320	8/10/15	1230		X	SG1-RB02-150810	EPA Method 537*			X	3	DW	SW
6 321	8/10/15	1605		X	SG1-RB03-150810	EPA Method 537*			X	3	DW	SW
7 322	8/11/15	0935	X		SG1-RB02-150811	EPA Method 537*			X	3	DW	SW
8 323	8/11/15	0800	X		SG1-RB02-150811	EPA Method 537*			X	3	DW	SW
9 324	8/11/15	1130	X		SG1-RB03-150811	EPA Method 537*			X	3	DW	SW
10 325	8/12/15	1020	X		SG1-RB02-150812	EPA Method 537*			X	3	DW	SW
11					*EPA Method 537 for the following	PFCs: PFOA, PFBS,						
12						PFHpA, PFHxS,						
13						PFNA, PFOS						
14					No other PFCs should be reported.							

RELINQUISHED BY:(Signature)	DATE	TIME	RECEIVED BY:(Signature)	DATE	TIME
	8/13/15	1600 AM PM			AM PM
RELINQUISHED BY:(Signature)	DATE	TIME AM PM	RECEIVED BY:(Signature)	DATE	TIME AM PM
RELINQUISHED BY:(Signature)	DATE	TIME AM PM	RECEIVED FOR LABORATORY BY: Rhonda Day	DATE 8/14/15	TIME 1000 AM PM

LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIENT

LAB COMMENTS

CONDITIONS UPON RECEIPT (check one): ✓ Iced: Wet/Blue ___ Ambient 2.2 °C Upon Receipt ___ N/A

MATRIX CODES:

DW-DRINKING WATER
RW-REAGENT WATER
GW-GROUND WATER
EW-EXPOSURE WATER
SW-SURFACE WATER
PW-POOL WATER
WW-WASTE WATER

TURN-AROUND TIME (TAT) - SURCHARGES

SW = Standard Written: (15 working days)	0%	IV* = Immediate Verbal: (3 working days)	100%
RV* = Rush Verbal: (5 working days)	50%	IW* = Immediate Written: (3 working days)	125%
RW* = Rush Written: (5 working days)	75%	SP* = Weekend, Holiday	CALL
		STAT* = Less than 48 hours	CALL

* Please call, expedited service not available for all testing

Samples received unannounced with less than 48 hours holding time remaining may be subject to additional charges.

08-LO-F0435 Issue 4.0 Effective Date: 2014-05-01

Sample analysis will be provided according to the standard EEA/Water Services Terms, which are available upon request. Any other terms proposed by Customer are deemed material alterations and are rejected unless expressly agree to in writing by EEA.

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110 S. Hill Street
South Bend, IN 46617
T: 1.800.332.4345
F: 1.574.233.8207

Order # 280808

Batch # _____

www.eatonanalytical.com

CHAIN OF CUSTODY RECORD

Shaded area for EEA use only

REPORT TO:	SAMPLER (Signature)	PWS ID #	STATE (sample origin)	PROJECT NAME	PO#
Jason Wilkinson Randall Engineering 3 Carlisle Rd, Suite 210 Westfield, MA 01086	[signature]		NY	SGPP Hoosick Falls	

BILL TO:	COMPLIANCE MONITORING	Yes	No	POPULATION SERVED	SOURCE WATER
SAME AS REPORT					

	LAB Number	COLLECTION DATE	TIME	AM	PM	SAMPLING SITE	TEST NAME	SAMPLE REMARKS	CHLORINATED YES	CHLORINATED NO	# OF CONTAINERS	MATRIX CODE	TURNAROUND TIME
1	3301326	8/13/15	0910	X		SGL-RB01-150813	EPA Method 537*			X	3	DW	SW
2	327	8/13/15	1100	X		SGL-RB02-150813	EPA Method 537*			X	3	DW	SW
3	328	8/13/15	1610		X	SGL-RB03-150813	EPA Method 537*			X	3	DW	SW
4													
5													
6													
7													
8													
9													
10													
11						*EPA Method 537 for the following	PFCs: PFOA, PFBS, PFHpA						
12							~~PFHpA~~ PFHxS, PFNA,	PFOS					
13													
14						No other PFCs shall be reported							

RELINQUISHED BY:(Signature)	DATE	TIME	RECEIVED BY:(Signature)	DATE	TIME
[signature]	8/13/15	1650 AM PM			AM PM
RELINQUISHED BY:(Signature)	DATE	TIME AM PM	RECEIVED BY:(Signature)	DATE	TIME AM PM
RELINQUISHED BY:(Signature)	DATE	TIME AM PM	RECEIVED FOR LABORATORY BY: Rhonda Day	DATE 8/14/15	TIME 1000 AM PM

LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIENT

LAB COMMENTS

CONDITIONS UPON RECEIPT (check one): ✓ Ice: Wet/Blue ___ Ambient 2.2 °C Upon Receipt ___ N/A

MATRIX CODES:

DW-DRINKING WATER
RW-REAGENT WATER
GW-GROUND WATER
EW-EXPOSURE WATER
SW-SURFACE WATER
PW-POOL WATER
WW-WASTE WATER

TURN-AROUND TIME (TAT) - SURCHARGES

SW = Standard Written: (15 working days)	0%	IV* = Immediate Verbal: (3 working days)	100%
RV* = Rush Verbal: (5 working days)	50%	IW* = Immediate Written: (3 working days)	125%
RW* = Rush Written: (5 working days)	75%	SP* = Weekend, Holiday	CALL
		STAT* = Less than 48 hours	CALL

* Please call, expedited service not available for all testing

Samples received unannounced with less than 48 hours holding time remaining may be subject to additional charges.

06-LQ-F0435 Issue 4.0 Effective Date: 2014-05-01

Sample analysis will be provided according to the standard EEA/Water Services Terms, which are available upon request. Any other terms proposed by Customer are deemed material alterations and are rejected unless expressly agree to in writing by EEA.

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Run Log

Run ID: **206459** Method: **537**

Type	Sample Id	Sample Site	Matrix	Instrument ID	Analysis Date	Calibration File
CCL	3302235		OS	CY	08/18/2015 15:30	081815M537a.mdb
LRB	3302268		RW	CY	08/18/2015 17:03	081815M537a.mdb
FBL	3302269		RW	CY	08/18/2015 17:34	081815M537a.mdb
FTB	3301316	FTB-SG1-TB01-150807	RW	CY	08/18/2015 18:36	081815M537a.mdb
FS	3301317	SG1-RB01-150807	DW	CY	08/18/2015 23:45	081815M537a.mdb
FS	3301318	SG1-FB01-150810	DW	CY	08/19/2015 00:16	081815M537a.mdb
FS	3301319	SG1-RB01-150810	DW	CY	08/19/2015 00:47	081815M537a.mdb
CCM	3302236		OS	CY	08/19/2015 01:18	081815M537a.mdb
FS	3301320	SG1-RB02-150810	DW	CY	08/19/2015 02:19	081815M537a.mdb
FS	3301321	SG1-RB03-150810	DW	CY	08/19/2015 02:50	081815M537a.mdb
FS	3301322	SG1-RB01-150811	DW	CY	08/19/2015 03:21	081815M537a.mdb
FS	3301323	SG1-RB02-150811	DW	CY	08/19/2015 03:52	081815M537a.mdb
FS	3301324	SG1-RB03-150811	DW	CY	08/19/2015 04:23	081815M537a.mdb
FS	3301325	SG1-RB01-150812	DW	CY	08/19/2015 04:54	081815M537a.mdb
FS	3301326	SG1-RB01-150813	DW	CY	08/19/2015 05:25	081815M537a.mdb
FS	3301327	SG1-RB02-150813	DW	CY	08/19/2015 05:56	081815M537a.mdb
FS	3301328	SG1-RB03-150813	DW	CY	08/19/2015 06:27	081815M537a.mdb
CCH	3302237		OS	CY	08/19/2015 06:58	081815M537a.mdb

QC Summary Report

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID #
CCL	IS-PFOA-13C2	537	N/A	---		2794.38	2794.38	ng/L	100	70 - 140	---	---	1.0	08/17/2015 10:40	08/18/2015 15:30	3302235
CCL	IS-PFOS-13C4	537	N/A	---		4089.96	4089.96	ng/L	100	70 - 140	---	---	1.0	08/17/2015 10:40	08/18/2015 15:30	3302235
CCL	SS-PFDA-13C2	537	N/A	---		93.1916	100	ng/L	93	70 - 130	---	---	1.0	08/17/2015 10:40	08/18/2015 15:30	3302235
CCL	SS-PFHxA-13C2	537	N/A	---		49.2576	50.0	ng/L	99	70 - 130	---	---	1.0	08/17/2015 10:40	08/18/2015 15:30	3302235
CCL	Perfluorobutanesulfonic acid (PFBS)	537	90	---		93.4664	90.0	ng/L	104	50 - 150	---	---	1.0	08/17/2015 10:40	08/18/2015 15:30	3302235
CCL	Perfluoroheptanoic acid (PFHpA)	537	10	---		11.3430	10.0	ng/L	113	50 - 150	---	---	1.0	08/17/2015 10:40	08/18/2015 15:30	3302235
CCL	Perfluorohexanesulfonic acid (PFHxS)	537	30	---		29.6187	30.0	ng/L	99	50 - 150	---	---	1.0	08/17/2015 10:40	08/18/2015 15:30	3302235
CCL	Perfluorononanoic acid (PFNA)	537	20	---		21.3240	20.0	ng/L	107	50 - 150	---	---	1.0	08/17/2015 10:40	08/18/2015 15:30	3302235
CCL	Perfluorooctane sulfonate (PFOS)	537	40	---		41.5466	40.0	ng/L	104	50 - 150	---	---	1.0	08/17/2015 10:40	08/18/2015 15:30	3302235
CCL	Perfluorooctanoic acid (PFOA)	537	20	---		21.0560	20.0	ng/L	105	50 - 150	---	---	1.0	08/17/2015 10:40	08/18/2015 15:30	3302235
LRB	IS-PFOA-13C2	537	N/A	---		2985.30	2794.38	ng/L	107	70 - 140	---	---	1.0	08/18/2015 06:45	08/18/2015 17:03	3302268
LRB	IS-PFOS-13C4	537	N/A	---		4131.74	4089.96	ng/L	101	70 - 140	---	---	1.0	08/18/2015 06:45	08/18/2015 17:03	3302268
LRB	SS-PFDA-13C2	537	N/A	---		89.2434	100	ng/L	89	70 - 130	---	---	1.0	08/18/2015 06:45	08/18/2015 17:03	3302268
LRB	SS-PFHxA-13C2	537	N/A	---		44.9372	50.0	ng/L	90	70 - 130	---	---	1.0	08/18/2015 06:45	08/18/2015 17:03	3302268
LRB	Perfluorobutanesulfonic acid (PFBS)	537	90	---	<	90		ng/L	---	---	---	---	1.0	08/18/2015 06:45	08/18/2015 17:03	3302268
LRB	Perfluoroheptanoic acid (PFHpA)	537	10	---	<	10		ng/L	---	---	---	---	1.0	08/18/2015 06:45	08/18/2015 17:03	3302268
LRB	Perfluorohexanesulfonic acid (PFHxS)	537	30	---	<	30		ng/L	---	---	---	---	1.0	08/18/2015 06:45	08/18/2015 17:03	3302268
LRB	Perfluorononanoic acid (PFNA)	537	20	---	<	20		ng/L	---	---	---	---	1.0	08/18/2015 06:45	08/18/2015 17:03	3302268
LRB	Perfluorooctane sulfonate (PFOS)	537	40	---	<	40		ng/L	---	---	---	---	1.0	08/18/2015 06:45	08/18/2015 17:03	3302268
LRB	Perfluorooctanoic acid (PFOA)	537	20	---	<	20		ng/L	---	---	---	---	1.0	08/18/2015 06:45	08/18/2015 17:03	3302268
FBL	IS-PFOA-13C2	537	N/A	---		3057.40	2794.38	ng/L	109	70 - 140	---	---	1.0	08/18/2015 06:45	08/18/2015 17:34	3302269
FBL	IS-PFOS-13C4	537	N/A	---		4304.42	4089.96	ng/L	105	70 - 140	---	---	1.0	08/18/2015 06:45	08/18/2015 17:34	3302269
FBL	SS-PFDA-13C2	537	N/A	---		89.6341	100	ng/L	90	70 - 130	---	---	1.0	08/18/2015 06:45	08/18/2015 17:34	3302269
FBL	SS-PFHxA-13C2	537	N/A	---		47.0657	50.0	ng/L	94	70 - 130	---	---	1.0	08/18/2015 06:45	08/18/2015 17:34	3302269
FBL	Perfluorobutanesulfonic acid (PFBS)	537	90	---		92.8462	90.0	ng/L	103	50 - 150	---	---	1.0	08/18/2015 06:45	08/18/2015 17:34	3302269
FBL	Perfluoroheptanoic acid (PFHpA)	537	10	---		10.1934	10.0	ng/L	102	50 - 150	---	---	1.0	08/18/2015 06:45	08/18/2015 17:34	3302269
FBL	Perfluorohexanesulfonic acid (PFHxS)	537	30	---		30.7762	30.0	ng/L	103	50 - 150	---	---	1.0	08/18/2015 06:45	08/18/2015 17:34	3302269
FBL	Perfluorononanoic acid (PFNA)	537	20	---		20.2344	20.0	ng/L	101	50 - 150	---	---	1.0	08/18/2015 06:45	08/18/2015 17:34	3302269
FBL	Perfluorooctane sulfonate (PFOS)	537	40	---		40.9056	40.0	ng/L	102	50 - 150	---	---	1.0	08/18/2015 06:45	08/18/2015 17:34	3302269
FBL	Perfluorooctanoic acid (PFOA)	537	20	---		20.5419	20.0	ng/L	103	50 - 150	---	---	1.0	08/18/2015 06:45	08/18/2015 17:34	3302269
FTB	IS-PFOA-13C2	537	N/A	FTB-SG1-TB01-150807		3125.95	2794.38	ng/L	112	70 - 140	---	---	1.02	08/18/2015 06:45	08/18/2015 18:36	3301316
FTB	IS-PFOS-13C4	537	N/A	FTB-SG1-TB01-150807		4450.23	4089.96	ng/L	109	70 - 140	---	---	1.02	08/18/2015 06:45	08/18/2015 18:36	3301316
FTB	SS-PFDA-13C2	537	N/A	FTB-SG1-TB01-150807		95.0385	100	ng/L	93	70 - 130	---	---	1.02	08/18/2015 06:45	08/18/2015 18:36	3301316
FTB	SS-PFHxA-13C2	537	N/A	FTB-SG1-TB01-150807		48.4528	50.0	ng/L	95	70 - 130	---	---	1.02	08/18/2015 06:45	08/18/2015 18:36	3301316
FTB	Perfluorobutanesulfonic acid (PFBS)	537	90	FTB-SG1-TB01-150807	<	90		ng/L	---	---	---	---	1.02	08/18/2015 06:45	08/18/2015 18:36	3301316
FTB	Perfluoroheptanoic acid (PFHpA)	537	10	FTB-SG1-TB01-150807	<	10		ng/L	---	---	---	---	1.02	08/18/2015 06:45	08/18/2015 18:36	3301316
FTB	Perfluorohexanesulfonic acid (PFHxS)	537	30	FTB-SG1-TB01-150807	<	30		ng/L	---	---	---	---	1.02	08/18/2015 06:45	08/18/2015 18:36	3301316
FTB	Perfluorononanoic acid (PFNA)	537	20	FTB-SG1-TB01-150807	<	20		ng/L	---	---	---	---	1.02	08/18/2015 06:45	08/18/2015 18:36	3301316
FTB	Perfluorooctane sulfonate (PFOS)	537	40	FTB-SG1-TB01-150807	<	40		ng/L	---	---	---	---	1.02	08/18/2015 06:45	08/18/2015 18:36	3301316
FTB	Perfluorooctanoic acid (PFOA)	537	20	FTB-SG1-TB01-150807	<	20		ng/L	---	---	---	---	1.02	08/18/2015 06:45	08/18/2015 18:36	3301316

QC Summary Report (cont.)

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID #
FS	IS-PFOA-13C2	537	N/A	SG1-RB01-150807		3251.05	2794.38	ng/L	116	70 - 140	---	---	0.96	08/18/2015 06:45	08/18/2015 23:45	3301317
FS	IS-PFOS-13C4	537	N/A	SG1-RB01-150807		4536.96	4089.96	ng/L	111	70 - 140	---	---	0.96	08/18/2015 06:45	08/18/2015 23:45	3301317
FS	SS-PFDA-13C2	537	N/A	SG1-RB01-150807		86.0775	100	ng/L	90	70 - 130	---	---	0.96	08/18/2015 06:45	08/18/2015 23:45	3301317
FS	SS-PFHxA-13C2	537	N/A	SG1-RB01-150807		46.3623	50.0	ng/L	97	70 - 130	---	---	0.96	08/18/2015 06:45	08/18/2015 23:45	3301317
FS	Perfluorobutanesulfonic acid (PFBS)	537	90	SG1-RB01-150807	<	90		ng/L	---	---	---	---	0.96	08/18/2015 06:45	08/18/2015 23:45	3301317
FS	Perfluoroheptanoic acid (PFHpA)	537	10	SG1-RB01-150807	<	10		ng/L	---	---	---	---	0.96	08/18/2015 06:45	08/18/2015 23:45	3301317
FS	Perfluorohexanesulfonic acid (PFHxS)	537	30	SG1-RB01-150807	<	30		ng/L	---	---	---	---	0.96	08/18/2015 06:45	08/18/2015 23:45	3301317
FS	Perfluorononanoic acid (PFNA)	537	20	SG1-RB01-150807	<	20		ng/L	---	---	---	---	0.96	08/18/2015 06:45	08/18/2015 23:45	3301317
FS	Perfluorooctane sulfonate (PFOS)	537	40	SG1-RB01-150807	<	40		ng/L	---	---	---	---	0.96	08/18/2015 06:45	08/18/2015 23:45	3301317
FS	Perfluorooctanoic acid (PFOA)	537	20	SG1-RB01-150807	<	20		ng/L	---	---	---	---	0.96	08/18/2015 06:45	08/18/2015 23:45	3301317
FS	IS-PFOA-13C2	537	N/A	SG1-FB01-150810		3159.05	2794.38	ng/L	113	70 - 140	---	---	0.97	08/18/2015 06:45	08/19/2015 00:16	3301318
FS	IS-PFOS-13C4	537	N/A	SG1-FB01-150810		4485.56	4089.96	ng/L	110	70 - 140	---	---	0.97	08/18/2015 06:45	08/19/2015 00:16	3301318
FS	SS-PFDA-13C2	537	N/A	SG1-FB01-150810		88.4014	100	ng/L	91	70 - 130	---	---	0.97	08/18/2015 06:45	08/19/2015 00:16	3301318
FS	SS-PFHxA-13C2	537	N/A	SG1-FB01-150810		47.9550	50.0	ng/L	99	70 - 130	---	---	0.97	08/18/2015 06:45	08/19/2015 00:16	3301318
FS	Perfluorobutanesulfonic acid (PFBS)	537	90	SG1-FB01-150810	<	90		ng/L	---	---	---	---	0.97	08/18/2015 06:45	08/19/2015 00:16	3301318
FS	Perfluoroheptanoic acid (PFHpA)	537	10	SG1-FB01-150810	<	10		ng/L	---	---	---	---	0.97	08/18/2015 06:45	08/19/2015 00:16	3301318
FS	Perfluorohexanesulfonic acid (PFHxS)	537	30	SG1-FB01-150810	<	30		ng/L	---	---	---	---	0.97	08/18/2015 06:45	08/19/2015 00:16	3301318
FS	Perfluorononanoic acid (PFNA)	537	20	SG1-FB01-150810	<	20		ng/L	---	---	---	---	0.97	08/18/2015 06:45	08/19/2015 00:16	3301318
FS	Perfluorooctane sulfonate (PFOS)	537	40	SG1-FB01-150810	<	40		ng/L	---	---	---	---	0.97	08/18/2015 06:45	08/19/2015 00:16	3301318
FS	Perfluorooctanoic acid (PFOA)	537	20	SG1-FB01-150810	<	20		ng/L	---	---	---	---	0.97	08/18/2015 06:45	08/19/2015 00:16	3301318
FS	IS-PFOA-13C2	537	N/A	SG1-RB01-150810		3185.26	2794.38	ng/L	114	70 - 140	---	---	0.99	08/18/2015 06:45	08/19/2015 00:47	3301319
FS	IS-PFOS-13C4	537	N/A	SG1-RB01-150810		4402.67	4089.96	ng/L	108	70 - 140	---	---	0.99	08/18/2015 06:45	08/19/2015 00:47	3301319
FS	SS-PFDA-13C2	537	N/A	SG1-RB01-150810		88.5595	100	ng/L	89	70 - 130	---	---	0.99	08/18/2015 06:45	08/19/2015 00:47	3301319
FS	SS-PFHxA-13C2	537	N/A	SG1-RB01-150810		46.6574	50.0	ng/L	94	70 - 130	---	---	0.99	08/18/2015 06:45	08/19/2015 00:47	3301319
FS	Perfluorobutanesulfonic acid (PFBS)	537	90	SG1-RB01-150810	<	90		ng/L	---	---	---	---	0.99	08/18/2015 06:45	08/19/2015 00:47	3301319
FS	Perfluoroheptanoic acid (PFHpA)	537	10	SG1-RB01-150810	<	10		ng/L	---	---	---	---	0.99	08/18/2015 06:45	08/19/2015 00:47	3301319
FS	Perfluorohexanesulfonic acid (PFHxS)	537	30	SG1-RB01-150810	<	30		ng/L	---	---	---	---	0.99	08/18/2015 06:45	08/19/2015 00:47	3301319
FS	Perfluorononanoic acid (PFNA)	537	20	SG1-RB01-150810	<	20		ng/L	---	---	---	---	0.99	08/18/2015 06:45	08/19/2015 00:47	3301319
FS	Perfluorooctane sulfonate (PFOS)	537	40	SG1-RB01-150810	<	40		ng/L	---	---	---	---	0.99	08/18/2015 06:45	08/19/2015 00:47	3301319
FS	Perfluorooctanoic acid (PFOA)	537	20	SG1-RB01-150810	<	20		ng/L	---	---	---	---	0.99	08/18/2015 06:45	08/19/2015 00:47	3301319
CCM	IS-PFOA-13C2	537	N/A	---		3019.19	3019.19	ng/L	100	70 - 140	---	---	1.0	08/17/2015 10:40	08/19/2015 01:18	3302236
CCM	IS-PFOS-13C4	537	N/A	---		4119.97	4119.97	ng/L	100	70 - 140	---	---	1.0	08/17/2015 10:40	08/19/2015 01:18	3302236
CCM	SS-PFDA-13C2	537	N/A	---		101.2040	100	ng/L	101	70 - 130	---	---	1.0	08/17/2015 10:40	08/19/2015 01:18	3302236
CCM	SS-PFHxA-13C2	537	N/A	---		51.1846	50.0	ng/L	102	70 - 130	---	---	1.0	08/17/2015 10:40	08/19/2015 01:18	3302236
CCM	Perfluorobutanesulfonic acid (PFBS)	537	90	---		704.6730	675	ng/L	104	70 - 130	---	---	1.0	08/17/2015 10:40	08/19/2015 01:18	3302236
CCM	Perfluoroheptanoic acid (PFHpA)	537	10	---		75.9843	75.0	ng/L	101	70 - 130	---	---	1.0	08/17/2015 10:40	08/19/2015 01:18	3302236
CCM	Perfluorohexanesulfonic acid (PFHxS)	537	30	---		227.7280	225	ng/L	101	70 - 130	---	---	1.0	08/17/2015 10:40	08/19/2015 01:18	3302236
CCM	Perfluorononanoic acid (PFNA)	537	20	---		149.8760	150	ng/L	100	70 - 130	---	---	1.0	08/17/2015 10:40	08/19/2015 01:18	3302236
CCM	Perfluorooctane sulfonate (PFOS)	537	40	---		297.6560	300	ng/L	99	70 - 130	---	---	1.0	08/17/2015 10:40	08/19/2015 01:18	3302236
CCM	Perfluorooctanoic acid (PFOA)	537	20	---		150.8680	150	ng/L	101	70 - 130	---	---	1.0	08/17/2015 10:40	08/19/2015 01:18	3302236
FS	IS-PFOA-13C2	537	N/A	SG1-RB02-150810		3279.24	3019.19	ng/L	109	70 - 140	---	---	0.98	08/18/2015 06:45	08/19/2015 02:19	3301320

QC Summary Report (cont.)

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID #
FS	IS-PFOS-13C4	537	N/A	SG1-RB02-150810		4583.12	4119.97	ng/L	111	70 - 140	---	---	0.98	08/18/2015 06:45	08/19/2015 02:19	3301320
FS	SS-PFDA-13C2	537	N/A	SG1-RB02-150810		94.7991	100	ng/L	97	70 - 130	---	---	0.98	08/18/2015 06:45	08/19/2015 02:19	3301320
FS	SS-PFHxA-13C2	537	N/A	SG1-RB02-150810		49.7427	50.0	ng/L	102	70 - 130	---	---	0.98	08/18/2015 06:45	08/19/2015 02:19	3301320
FS	Perfluorobutanesulfonic acid (PFBS)	537	90	SG1-RB02-150810	<	90		ng/L	---	---	---	---	0.98	08/18/2015 06:45	08/19/2015 02:19	3301320
FS	Perfluoroheptanoic acid (PFHpA)	537	10	SG1-RB02-150810	<	10		ng/L	---	---	---	---	0.98	08/18/2015 06:45	08/19/2015 02:19	3301320
FS	Perfluorohexanesulfonic acid (PFHxS)	537	30	SG1-RB02-150810	<	30		ng/L	---	---	---	---	0.98	08/18/2015 06:45	08/19/2015 02:19	3301320
FS	Perfluorononanoic acid (PFNA)	537	20	SG1-RB02-150810	<	20		ng/L	---	---	---	---	0.98	08/18/2015 06:45	08/19/2015 02:19	3301320
FS	Perfluorooctane sulfonate (PFOS)	537	40	SG1-RB02-150810	<	40		ng/L	---	---	---	---	0.98	08/18/2015 06:45	08/19/2015 02:19	3301320
FS	Perfluorooctanoic acid (PFOA)	537	20	SG1-RB02-150810	<	20		ng/L	---	---	---	---	0.98	08/18/2015 06:45	08/19/2015 02:19	3301320
FS	IS-PFOA-13C2	537	N/A	SG1-RB03-150810		3216.36	3019.19	ng/L	107	70 - 140	---	---	0.99	08/18/2015 06:45	08/19/2015 02:50	3301321
FS	IS-PFOS-13C4	537	N/A	SG1-RB03-150810		4436.41	4119.97	ng/L	108	70 - 140	---	---	0.99	08/18/2015 06:45	08/19/2015 02:50	3301321
FS	SS-PFDA-13C2	537	N/A	SG1-RB03-150810		98.7243	100	ng/L	100	70 - 130	---	---	0.99	08/18/2015 06:45	08/19/2015 02:50	3301321
FS	SS-PFHxA-13C2	537	N/A	SG1-RB03-150810		49.4912	50.0	ng/L	100	70 - 130	---	---	0.99	08/18/2015 06:45	08/19/2015 02:50	3301321
FS	Perfluorobutanesulfonic acid (PFBS)	537	90	SG1-RB03-150810	<	90		ng/L	---	---	---	---	0.99	08/18/2015 06:45	08/19/2015 02:50	3301321
FS	Perfluoroheptanoic acid (PFHpA)	537	10	SG1-RB03-150810	<	10		ng/L	---	---	---	---	0.99	08/18/2015 06:45	08/19/2015 02:50	3301321
FS	Perfluorohexanesulfonic acid (PFHxS)	537	30	SG1-RB03-150810	<	30		ng/L	---	---	---	---	0.99	08/18/2015 06:45	08/19/2015 02:50	3301321
FS	Perfluorononanoic acid (PFNA)	537	20	SG1-RB03-150810	<	20		ng/L	---	---	---	---	0.99	08/18/2015 06:45	08/19/2015 02:50	3301321
FS	Perfluorooctane sulfonate (PFOS)	537	40	SG1-RB03-150810	<	40		ng/L	---	---	---	---	0.99	08/18/2015 06:45	08/19/2015 02:50	3301321
FS	Perfluorooctanoic acid (PFOA)	537	20	SG1-RB03-150810	<	20		ng/L	---	---	---	---	0.99	08/18/2015 06:45	08/19/2015 02:50	3301321
FS	IS-PFOA-13C2	537	N/A	SG1-RB01-150811		3266.17	3019.19	ng/L	108	70 - 140	---	---	1.02	08/18/2015 06:45	08/19/2015 03:21	3301322
FS	IS-PFOS-13C4	537	N/A	SG1-RB01-150811		4412.45	4119.97	ng/L	107	70 - 140	---	---	1.02	08/18/2015 06:45	08/19/2015 03:21	3301322
FS	SS-PFDA-13C2	537	N/A	SG1-RB01-150811		94.2269	100	ng/L	92	70 - 130	---	---	1.02	08/18/2015 06:45	08/19/2015 03:21	3301322
FS	SS-PFHxA-13C2	537	N/A	SG1-RB01-150811		51.1220	50.0	ng/L	100	70 - 130	---	---	1.02	08/18/2015 06:45	08/19/2015 03:21	3301322
FS	Perfluorobutanesulfonic acid (PFBS)	537	90	SG1-RB01-150811	<	90		ng/L	---	---	---	---	1.02	08/18/2015 06:45	08/19/2015 03:21	3301322
FS	Perfluoroheptanoic acid (PFHpA)	537	10	SG1-RB01-150811	<	10		ng/L	---	---	---	---	1.02	08/18/2015 06:45	08/19/2015 03:21	3301322
FS	Perfluorohexanesulfonic acid (PFHxS)	537	30	SG1-RB01-150811	<	30		ng/L	---	---	---	---	1.02	08/18/2015 06:45	08/19/2015 03:21	3301322
FS	Perfluorononanoic acid (PFNA)	537	20	SG1-RB01-150811	<	20		ng/L	---	---	---	---	1.02	08/18/2015 06:45	08/19/2015 03:21	3301322
FS	Perfluorooctane sulfonate (PFOS)	537	40	SG1-RB01-150811	<	40		ng/L	---	---	---	---	1.02	08/18/2015 06:45	08/19/2015 03:21	3301322
FS	Perfluorooctanoic acid (PFOA)	537	20	SG1-RB01-150811	<	20		ng/L	---	---	---	---	1.02	08/18/2015 06:45	08/19/2015 03:21	3301322
FS	IS-PFOA-13C2	537	N/A	SG1-RB02-150811		3453.18	3019.19	ng/L	114	70 - 140	---	---	1.02	08/18/2015 06:45	08/19/2015 03:52	3301323
FS	IS-PFOS-13C4	537	N/A	SG1-RB02-150811		4735.23	4119.97	ng/L	115	70 - 140	---	---	1.02	08/18/2015 06:45	08/19/2015 03:52	3301323
FS	SS-PFDA-13C2	537	N/A	SG1-RB02-150811		94.1744	100	ng/L	92	70 - 130	---	---	1.02	08/18/2015 06:45	08/19/2015 03:52	3301323
FS	SS-PFHxA-13C2	537	N/A	SG1-RB02-150811		48.1354	50.0	ng/L	94	70 - 130	---	---	1.02	08/18/2015 06:45	08/19/2015 03:52	3301323
FS	Perfluorobutanesulfonic acid (PFBS)	537	90	SG1-RB02-150811	<	90		ng/L	---	---	---	---	1.02	08/18/2015 06:45	08/19/2015 03:52	3301323
FS	Perfluoroheptanoic acid (PFHpA)	537	10	SG1-RB02-150811	<	10		ng/L	---	---	---	---	1.02	08/18/2015 06:45	08/19/2015 03:52	3301323
FS	Perfluorohexanesulfonic acid (PFHxS)	537	30	SG1-RB02-150811	<	30		ng/L	---	---	---	---	1.02	08/18/2015 06:45	08/19/2015 03:52	3301323
FS	Perfluorononanoic acid (PFNA)	537	20	SG1-RB02-150811	<	20		ng/L	---	---	---	---	1.02	08/18/2015 06:45	08/19/2015 03:52	3301323
FS	Perfluorooctane sulfonate (PFOS)	537	40	SG1-RB02-150811	<	40		ng/L	---	---	---	---	1.02	08/18/2015 06:45	08/19/2015 03:52	3301323
FS	Perfluorooctanoic acid (PFOA)	537	20	SG1-RB02-150811	<	20		ng/L	---	---	---	---	1.02	08/18/2015 06:45	08/19/2015 03:52	3301323
FS	IS-PFOA-13C2	537	N/A	SG1-RB03-150811		3323.45	3019.19	ng/L	110	70 - 140	---	---	0.96	08/18/2015 06:45	08/19/2015 04:23	3301324
FS	IS-PFOS-13C4	537	N/A	SG1-RB03-150811		4470.79	4119.97	ng/L	109	70 - 140	---	---	0.96	08/18/2015 06:45	08/19/2015 04:23	3301324

QC Summary Report (cont.)

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID #
FS	SS-PFDA-13C2	537	N/A	SG1-RB03-150811		88.4150	100	ng/L	92	70 - 130	---	---	0.96	08/18/2015 06:45	08/19/2015 04:23	3301324
FS	SS-PFHxA-13C2	537	N/A	SG1-RB03-150811		46.3135	50.0	ng/L	96	70 - 130	---	---	0.96	08/18/2015 06:45	08/19/2015 04:23	3301324
FS	Perfluorobutanesulfonic acid (PFBS)	537	90	SG1-RB03-150811	<	90		ng/L	---	---	---	---	0.96	08/18/2015 06:45	08/19/2015 04:23	3301324
FS	Perfluoroheptanoic acid (PFHpA)	537	10	SG1-RB03-150811	<	10		ng/L	---	---	---	---	0.96	08/18/2015 06:45	08/19/2015 04:23	3301324
FS	Perfluorohexanesulfonic acid (PFHxS)	537	30	SG1-RB03-150811	<	30		ng/L	---	---	---	---	0.96	08/18/2015 06:45	08/19/2015 04:23	3301324
FS	Perfluorononanoic acid (PFNA)	537	20	SG1-RB03-150811	<	20		ng/L	---	---	---	---	0.96	08/18/2015 06:45	08/19/2015 04:23	3301324
FS	Perfluorooctane sulfonate (PFOS)	537	40	SG1-RB03-150811	<	40		ng/L	---	---	---	---	0.96	08/18/2015 06:45	08/19/2015 04:23	3301324
FS	Perfluorooctanoic acid (PFOA)	537	20	SG1-RB03-150811	<	20		ng/L	---	---	---	---	0.96	08/18/2015 06:45	08/19/2015 04:23	3301324
FS	IS-PFOA-13C2	537	N/A	SG1-RB01-150812		3263.22	3019.19	ng/L	108	70 - 140	---	---	0.97	08/18/2015 06:45	08/19/2015 04:54	3301325
FS	IS-PFOS-13C4	537	N/A	SG1-RB01-150812		4592.10	4119.97	ng/L	111	70 - 140	---	---	0.97	08/18/2015 06:45	08/19/2015 04:54	3301325
FS	SS-PFDA-13C2	537	N/A	SG1-RB01-150812		91.8197	100	ng/L	95	70 - 130	---	---	0.97	08/18/2015 06:45	08/19/2015 04:54	3301325
FS	SS-PFHxA-13C2	537	N/A	SG1-RB01-150812		46.4646	50.0	ng/L	96	70 - 130	---	---	0.97	08/18/2015 06:45	08/19/2015 04:54	3301325
FS	Perfluorobutanesulfonic acid (PFBS)	537	90	SG1-RB01-150812	<	90		ng/L	---	---	---	---	0.97	08/18/2015 06:45	08/19/2015 04:54	3301325
FS	Perfluoroheptanoic acid (PFHpA)	537	10	SG1-RB01-150812	<	10		ng/L	---	---	---	---	0.97	08/18/2015 06:45	08/19/2015 04:54	3301325
FS	Perfluorohexanesulfonic acid (PFHxS)	537	30	SG1-RB01-150812	<	30		ng/L	---	---	---	---	0.97	08/18/2015 06:45	08/19/2015 04:54	3301325
FS	Perfluorononanoic acid (PFNA)	537	20	SG1-RB01-150812	<	20		ng/L	---	---	---	---	0.97	08/18/2015 06:45	08/19/2015 04:54	3301325
FS	Perfluorooctane sulfonate (PFOS)	537	40	SG1-RB01-150812	<	40		ng/L	---	---	---	---	0.97	08/18/2015 06:45	08/19/2015 04:54	3301325
FS	Perfluorooctanoic acid (PFOA)	537	20	SG1-RB01-150812	<	20		ng/L	---	---	---	---	0.97	08/18/2015 06:45	08/19/2015 04:54	3301325
FS	IS-PFOA-13C2	537	N/A	SG1-RB01-150813		3103.59	3019.19	ng/L	103	70 - 140	---	---	0.97	08/18/2015 06:45	08/19/2015 05:25	3301326
FS	IS-PFOS-13C4	537	N/A	SG1-RB01-150813		4397.68	4119.97	ng/L	107	70 - 140	---	---	0.97	08/18/2015 06:45	08/19/2015 05:25	3301326
FS	SS-PFDA-13C2	537	N/A	SG1-RB01-150813		91.1637	100	ng/L	94	70 - 130	---	---	0.97	08/18/2015 06:45	08/19/2015 05:25	3301326
FS	SS-PFHxA-13C2	537	N/A	SG1-RB01-150813		47.9029	50.0	ng/L	99	70 - 130	---	---	0.97	08/18/2015 06:45	08/19/2015 05:25	3301326
FS	Perfluorobutanesulfonic acid (PFBS)	537	90	SG1-RB01-150813	<	90		ng/L	---	---	---	---	0.97	08/18/2015 06:45	08/19/2015 05:25	3301326
FS	Perfluoroheptanoic acid (PFHpA)	537	10	SG1-RB01-150813	<	10		ng/L	---	---	---	---	0.97	08/18/2015 06:45	08/19/2015 05:25	3301326
FS	Perfluorohexanesulfonic acid (PFHxS)	537	30	SG1-RB01-150813	<	30		ng/L	---	---	---	---	0.97	08/18/2015 06:45	08/19/2015 05:25	3301326
FS	Perfluorononanoic acid (PFNA)	537	20	SG1-RB01-150813	<	20		ng/L	---	---	---	---	0.97	08/18/2015 06:45	08/19/2015 05:25	3301326
FS	Perfluorooctane sulfonate (PFOS)	537	40	SG1-RB01-150813	<	40		ng/L	---	---	---	---	0.97	08/18/2015 06:45	08/19/2015 05:25	3301326
FS	Perfluorooctanoic acid (PFOA)	537	20	SG1-RB01-150813	<	20		ng/L	---	---	---	---	0.97	08/18/2015 06:45	08/19/2015 05:25	3301326
FS	IS-PFOA-13C2	537	N/A	SG1-RB02-150813		3027.38	3019.19	ng/L	100	70 - 140	---	---	1.01	08/18/2015 06:45	08/19/2015 05:56	3301327
FS	IS-PFOS-13C4	537	N/A	SG1-RB02-150813		4319.07	4119.97	ng/L	105	70 - 140	---	---	1.01	08/18/2015 06:45	08/19/2015 05:56	3301327
FS	SS-PFDA-13C2	537	N/A	SG1-RB02-150813		95.7697	100	ng/L	95	70 - 130	---	---	1.01	08/18/2015 06:45	08/19/2015 05:56	3301327
FS	SS-PFHxA-13C2	537	N/A	SG1-RB02-150813		51.0353	50.0	ng/L	101	70 - 130	---	---	1.01	08/18/2015 06:45	08/19/2015 05:56	3301327
FS	Perfluorobutanesulfonic acid (PFBS)	537	90	SG1-RB02-150813	<	90		ng/L	---	---	---	---	1.01	08/18/2015 06:45	08/19/2015 05:56	3301327
FS	Perfluoroheptanoic acid (PFHpA)	537	10	SG1-RB02-150813	<	10		ng/L	---	---	---	---	1.01	08/18/2015 06:45	08/19/2015 05:56	3301327
FS	Perfluorohexanesulfonic acid (PFHxS)	537	30	SG1-RB02-150813	<	30		ng/L	---	---	---	---	1.01	08/18/2015 06:45	08/19/2015 05:56	3301327
FS	Perfluorononanoic acid (PFNA)	537	20	SG1-RB02-150813	<	20		ng/L	---	---	---	---	1.01	08/18/2015 06:45	08/19/2015 05:56	3301327
FS	Perfluorooctane sulfonate (PFOS)	537	40	SG1-RB02-150813	<	40		ng/L	---	---	---	---	1.01	08/18/2015 06:45	08/19/2015 05:56	3301327
FS	Perfluorooctanoic acid (PFOA)	537	20	SG1-RB02-150813	<	20		ng/L	---	---	---	---	1.01	08/18/2015 06:45	08/19/2015 05:56	3301327
FS	IS-PFOA-13C2	537	N/A	SG1-RB03-150813		3213.67	3019.19	ng/L	106	70 - 140	---	---	0.95	08/18/2015 06:45	08/19/2015 06:27	3301328
FS	IS-PFOS-13C4	537	N/A	SG1-RB03-150813		4472.90	4119.97	ng/L	109	70 - 140	---	---	0.95	08/18/2015 06:45	08/19/2015 06:27	3301328
FS	SS-PFDA-13C2	537	N/A	SG1-RB03-150813		80.3936	100	ng/L	85	70 - 130	---	---	0.95	08/18/2015 06:45	08/19/2015 06:27	3301328

QC Summary Report (cont.)

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID #
FS	SS-PFHxA-13C2	537	N/A	SG1-RB03-150813		38.6814	50.0	ng/L	81	70 - 130	---	---	0.95	08/18/2015 06:45	08/19/2015 06:27	3301328
FS	Perfluorobutanesulfonic acid (PFBS)	537	90	SG1-RB03-150813	<	90		ng/L	---	---	---	---	0.95	08/18/2015 06:45	08/19/2015 06:27	3301328
FS	Perfluoroheptanoic acid (PFHpA)	537	10	SG1-RB03-150813	<	10		ng/L	---	---	---	---	0.95	08/18/2015 06:45	08/19/2015 06:27	3301328
FS	Perfluorohexanesulfonic acid (PFHxS)	537	30	SG1-RB03-150813	<	30		ng/L	---	---	---	---	0.95	08/18/2015 06:45	08/19/2015 06:27	3301328
FS	Perfluorononanoic acid (PFNA)	537	20	SG1-RB03-150813	<	20		ng/L	---	---	---	---	0.95	08/18/2015 06:45	08/19/2015 06:27	3301328
FS	Perfluorooctane sulfonate (PFOS)	537	40	SG1-RB03-150813	<	40		ng/L	---	---	---	---	0.95	08/18/2015 06:45	08/19/2015 06:27	3301328
FS	Perfluorooctanoic acid (PFOA)	537	20	SG1-RB03-150813	<	20		ng/L	---	---	---	---	0.95	08/18/2015 06:45	08/19/2015 06:27	3301328
CCH	IS-PFOA-13C2	537	N/A	---		2831.18	2831.18	ng/L	100	70 - 140	---	---	1.0	08/17/2015 10:40	08/19/2015 06:58	3302237
CCH	IS-PFOS-13C4	537	N/A	---		3977.45	3977.45	ng/L	100	70 - 140	---	---	1.0	08/17/2015 10:40	08/19/2015 06:58	3302237
CCH	SS-PFDA-13C2	537	N/A	---		94.7125	100	ng/L	95	70 - 130	---	---	1.0	08/17/2015 10:40	08/19/2015 06:58	3302237
CCH	SS-PFHxA-13C2	537	N/A	---		50.8567	50.0	ng/L	102	70 - 130	---	---	1.0	08/17/2015 10:40	08/19/2015 06:58	3302237
CCH	Perfluorobutanesulfonic acid (PFBS)	537	90	---		1141.0100	1125	ng/L	101	70 - 130	---	---	1.0	08/17/2015 10:40	08/19/2015 06:58	3302237
CCH	Perfluoroheptanoic acid (PFHpA)	537	10	---		123.5540	125	ng/L	99	70 - 130	---	---	1.0	08/17/2015 10:40	08/19/2015 06:58	3302237
CCH	Perfluorohexanesulfonic acid (PFHxS)	537	30	---		368.9330	375	ng/L	98	70 - 130	---	---	1.0	08/17/2015 10:40	08/19/2015 06:58	3302237
CCH	Perfluorononanoic acid (PFNA)	537	20	---		248.8910	250	ng/L	100	70 - 130	---	---	1.0	08/17/2015 10:40	08/19/2015 06:58	3302237
CCH	Perfluorooctane sulfonate (PFOS)	537	40	---		483.9230	500	ng/L	97	70 - 130	---	---	1.0	08/17/2015 10:40	08/19/2015 06:58	3302237
CCH	Perfluorooctanoic acid (PFOA)	537	20	---		242.9730	250	ng/L	97	70 - 130	---	---	1.0	08/17/2015 10:40	08/19/2015 06:58	3302237

Sample Type Key

Type (Abbr.)	Sample Type	Type (Abbr.)	Sample Type
CCH	Continuing Calibration High		
CCL	Continuing Calibration Low		
CCM	Continuing Calibration Mid		
FS	Field Sample		
FTB	Field Trip Blank		
FBL	Fortified Blank Low		
LRB	Laboratory Reagent Blank		

Maxxam
A Bureau Veritas Group Company

Success Through Science

Your Project #: 02-37128B(RE) 15-5133 (CTM)
Site Location: SGPP HOOSICK FALLS
Your C.O.C. #: 524261-01-01, N/A

Attention:
Jason Wilkinson/ Kirk Moline
Ramboll Environ
3 Carlisle Rd.
Westford, MA
USA 01886

Report Date: 2015/09/10
Report #: R3656817
Version: 3R

CERTIFICATE OF ANALYSIS – REVISED REPORT

MAXXAM JOB #: B5F6982
Received: 2015/08/14, 14:25

Sample Matrix: Soil
Samples Received: 23

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Moisture	5	N/A	2015/08/17	CAM SOP-00445	Carter 2nd ed 51.2 m
Moisture	6	N/A	2015/08/18	CAM SOP-00445	Carter 2nd ed 51.2 m
PFOS and PFOA in soil	5	2015/08/26	2015/08/28	CAM SOP-00894	EPA537 m
PFOS and PFOA in soil	6	2015/08/27	2015/08/28	CAM SOP-00894	EPA537 m
Total Organic Carbon in Soil	5	N/A	2015/08/19	CAM SOP-00468	LECO 203-601-224
Total Organic Carbon in Soil	7	N/A	2015/08/21	CAM SOP-00468	LECO 203-601-224

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Melissa DiGrazia, Project Manager - ATUT
Email: MDiGrazia@maxxam.ca
Phone# (905) 817-5700

==========
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Total cover pages: 1

Maxxam Analytics International Corporation o/a Maxxam Analytics 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.maxxam.ca

Maxxam Job #: B5F6982
Report Date: 2015/09/10

Ramboll Environ
Client Project #: 02-37128B(RE) 15-5133 (CTM)
Site Location: SGPP HOOSICK FALLS
Sampler Initials: JD

RESULTS OF ANALYSES OF SOIL

Maxxam ID		ATN765		ATN766	ATN767			
Sampling Date		2015/08/05 08:25		2015/08/05 08:30	2015/08/05 12:30			
COC Number		524261-01-01		524261-01-01	524261-01-01			
	Units	**SG1-MW04S-00.0**	**RDL**	**SG1-MW04S-02.0**	**SG1-MW04S-15.0**	**RDL**	**MDL**	**QC Batch**
Moisture	%	22	1.0	25	N/A	1.0	0.50	4151642
Total Organic Carbon	mg/kg	N/A	N/A	N/A	1300	500	100	4152610
Perfluorobutane Sulfonate (PFBS)	ug/kg	0.039	1	<0.014	N/A	0.1	0.014	4167364
Perfluoroheptanoic Acid (PFHpA)	ug/kg	0.17	1	0.080	N/A	0.1	0.015	4167364
Perfluorohexane Sulfonate (PFHxS)	ug/kg	0.15	1	<0.015	N/A	0.1	0.015	4167364
Perfluoro-n-Octanoic Acid (PFOA)	ug/kg	4.1	1	1.8	N/A	0.1	0.023	4167364
Perfluorononanoic Acid (PFNA)	ug/kg	0.14	1	0.07	N/A	0.1	0.01	4167364
Perfluorooctane Sulfonate (PFOS)	ug/kg	0.63	1	0.28	N/A	0.1	0.015	4167364

N/A = Not Applicable
RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam ID		ATN768	ATN769	ATN770	ATN771			
Sampling Date		2015/08/05 12:35	2015/08/05 12:40	2015/08/05 14:45	2015/08/05 15:00			
COC Number		524261-01-01	524261-01-01	524261-01-01	524261-01-01			
	Units	**SG1-MW04S-21.0**	**SG1-MW04S-24.0**	**SG1-DS01-150805**	**SG1-MW02D-00.0**	**RDL**	**MDL**	**QC Batch**
Moisture	%	N/A	N/A	11	11	1.0	0.50	4151642
Total Organic Carbon	mg/kg	1900	2200	N/A	N/A	500	100	4152610
Perfluorobutane Sulfonate (PFBS)	ug/kg	N/A	N/A	<0.014	<0.014	0.1	0.014	4167364
Perfluoroheptanoic Acid (PFHpA)	ug/kg	N/A	N/A	<0.015	<0.015	0.1	0.015	4167364
Perfluorohexane Sulfonate (PFHxS)	ug/kg	N/A	N/A	<0.015	<0.015	0.1	0.015	4167364
Perfluoro-n-Octanoic Acid (PFOA)	ug/kg	N/A	N/A	1.5	1.3	0.1	0.023	4167364
Perfluorononanoic Acid (PFNA)	ug/kg	N/A	N/A	0.02	0.01	0.1	0.01	4167364
Perfluorooctane Sulfonate (PFOS)	ug/kg	N/A	N/A	0.035	0.028	0.1	0.015	4167364

N/A = Not Applicable
RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B5F6982
Report Date: 2015/09/10

Ramboll Environ
Client Project #: 02-37128B(RE) 15-5133 (CTM)
Site Location: SGPP HOOSICK FALLS
Sampler Initials: JD

RESULTS OF ANALYSES OF SOIL

Maxxam ID		ATN772	ATN772	ATN773	ATN774			
Sampling Date		2015/08/05 15:10	2015/08/05 15:10	2015/08/06 12:30	2015/08/06 12:55			
COC Number		524261-01-01	524261-01-01	524261-01-01	524261-01-01			
	Units	**SG1-MW02D-02.0**	**SG1-MW02D-02.0 Lab-Dup**	**SG1-MW02D-42.0**	**SG1-MW02D-24.0**	**RDL**	**MDL**	**QC Batch**
Moisture	%	11	N/A	N/A	N/A	1.0	0.50	4151642
Total Organic Carbon	mg/kg	N/A	N/A	<500	1100	500	100	4152610
Perfluorobutane Sulfonate (PFBS)	ug/kg	<0.014	<0.014	N/A	N/A	0.1	0.014	4167364
Perfluoroheptanoic Acid (PFHpA)	ug/kg	<0.015	<0.015	N/A	N/A	0.1	0.015	4167364
Perfluorohexane Sulfonate (PFHxS)	ug/kg	<0.015	<0.015	N/A	N/A	0.1	0.015	4167364
Perfluoro-n-Octanoic Acid (PFOA)	ug/kg	0.35	0.41	N/A	N/A	0.1	0.023	4167364
Perfluorononanoic Acid (PFNA)	ug/kg	<0.01	<0.01	N/A	N/A	0.1	0.01	4167364
Perfluorooctane Sulfonate (PFOS)	ug/kg	<0.015	<0.015	N/A	N/A	0.1	0.015	4167364

N/A = Not Applicable
RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam ID		AUP457	AUP458	AUP459	AUP459			
Sampling Date		2015/08/10 13:10	2015/08/10 13:15	2015/08/10 15:50	2015/08/10 15:50			
COC Number		N/A	N/A	N/A	N/A			
	Units	**SG1-MW01D-00.0**	**SG1-MW01D-02.0**	**SG1-MW01D-13.0**	**SG1-MW01D-13.0 Lab-Dup**	**RDL**	**MDL**	**QC Batch**
Moisture	%	11	9.6	N/A	N/A	1.0	0.50	4153056
Total Organic Carbon	mg/kg	N/A	N/A	2400	2500	500	100	4156837
Perfluorobutane Sulfonate (PFBS)	ug/kg	<0.014	<0.014	N/A	N/A	0.1	0.014	4167364
Perfluoroheptanoic Acid (PFHpA)	ug/kg	<0.015	<0.015	N/A	N/A	0.1	0.015	4167364
Perfluorohexane Sulfonate (PFHxS)	ug/kg	<0.015	<0.015	N/A	N/A	0.1	0.015	4167364
Perfluoro-n-Octanoic Acid (PFOA)	ug/kg	1.0	2.4	N/A	N/A	0.1	0.023	4167364
Perfluorononanoic Acid (PFNA)	ug/kg	<0.01	<0.01	N/A	N/A	0.1	0.01	4167364
Perfluorooctane Sulfonate (PFOS)	ug/kg	<0.015	<0.015	N/A	N/A	0.1	0.015	4167364

N/A = Not Applicable
RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B5F6982
Report Date: 2015/09/10

Ramboll Environ
Client Project #: 02-37128B(RE) 15-5133 (CTM)
Site Location: SGPP HOOSICK FALLS
Sampler Initials: JD

RESULTS OF ANALYSES OF SOIL

Maxxam ID		AUP460			AUP461			
Sampling Date		2015/08/11 09:30			2015/08/11 12:10			
COC Number		N/A			N/A			
	Units	**SG1-MW01S-06.0**	**RDL**	**MDL**	**SG1-MW05S-00.0**	**RDL**	**MDL**	**QC Batch**
Moisture	%	N/A	1.0	0.50	12	1.0	0.50	4153056
Total Organic Carbon	mg/kg	2000	500	100	N/A	500	100	4156837
Perfluorobutane Sulfonate (PFBS)	ug/kg	N/A	0.1	0.014	<0.14	1	0.14	4167364
Perfluoroheptanoic Acid (PFHpA)	ug/kg	N/A	0.1	0.015	<0.15	1	0.15	4167364
Perfluorohexane Sulfonate (PFHxS)	ug/kg	N/A	0.1	0.015	<0.15	1	0.15	4167364
Perfluoro-n-Octanoic Acid (PFOA)	ug/kg	N/A	0.1	0.023	1.4	1	0.23	4167364
Perfluorononanoic Acid (PFNA)	ug/kg	N/A	0.1	0.01	<0.1	1	0.1	4167364
Perfluorooctane Sulfonate (PFOS)	ug/kg	N/A	0.1	0.015	0.25	1	0.15	4167364

N/A = Not Applicable
RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam ID		AUP462	AUP463	AUP464	AUP465			
Sampling Date		2015/08/11 12:12	2015/08/11 13:00	2015/08/10 09:10	2015/08/12 12:00			
COC Number		N/A	N/A	N/A	N/A			
	Units	**SG1-MW05S-02.0**	**SG1-MW05S-17.0**	**SG1-MW02S-12.0**	**SG1-MW01D-23.0**	**RDL**	**MDL**	**QC Batch**
Moisture	%	15	N/A	N/A	N/A	1.0	0.50	4153056
Total Organic Carbon	mg/kg	N/A	1600	930	4700	500	100	4156837
Perfluorobutane Sulfonate (PFBS)	ug/kg	<0.014	N/A	N/A	N/A	0.1	0.014	4167364
Perfluoroheptanoic Acid (PFHpA)	ug/kg	0.038	N/A	N/A	N/A	0.1	0.015	4167364
Perfluorohexane Sulfonate (PFHxS)	ug/kg	<0.015	N/A	N/A	N/A	0.1	0.015	4167364
Perfluoro-n-Octanoic Acid (PFOA)	ug/kg	1.2	N/A	N/A	N/A	0.1	0.023	4167364
Perfluorononanoic Acid (PFNA)	ug/kg	0.06	N/A	N/A	N/A	0.1	0.01	4167364
Perfluorooctane Sulfonate (PFOS)	ug/kg	0.099	N/A	N/A	N/A	0.1	0.015	4167364

N/A = Not Applicable
RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B5F6982
Report Date: 2015/09/10

Ramboll Environ
Client Project #: 02-37128B(RE) 15-5133 (CTM)
Site Location: SGPP HOOSICK FALLS
Sampler Initials: JD

RESULTS OF ANALYSES OF SOIL

Maxxam ID		AUP466	AUP467	AUP468	AUP469			
Sampling Date		2015/08/12 13:00	2015/08/13 08:40	2015/08/13 08:42	2015/08/13 10:20			
COC Number		N/A	N/A	N/A	N/A			
	Units	**SG1-DS01-150812**	**SG1-MW03S-00.0**	**SG1-MW03S-02.0**	**SG1-MW03S-13.0**	**RDL**	**MDL**	**QC Batch**
Moisture	%	N/A	14	16	N/A	1.0	0.50	4153056
Total Organic Carbon	mg/kg	4300	N/A	N/A	1100	500	100	4156837
Perfluorobutane Sulfonate (PFBS)	ug/kg	N/A	<0.014	<0.014	N/A	0.1	0.014	4167364
Perfluoroheptanoic Acid (PFHpA)	ug/kg	N/A	0.11	<0.015	N/A	0.1	0.015	4167364
Perfluorohexane Sulfonate (PFHxS)	ug/kg	N/A	<0.015	<0.015	N/A	0.1	0.015	4167364
Perfluoro-n-Octanoic Acid (PFOA)	ug/kg	N/A	2.5	0.67	N/A	0.1	0.023	4167364
Perfluorononanoic Acid (PFNA)	ug/kg	N/A	0.11	0.03	N/A	0.1	0.01	4167364
Perfluorooctane Sulfonate (PFOS)	ug/kg	N/A	0.19	0.018	N/A	0.1	0.015	4167364

N/A = Not Applicable
RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam ID		AUP469			
Sampling Date		2015/08/13 10:20			
COC Number		N/A			
	Units	**SG1-MW03S-13.0 Lab-Dup**	**RDL**	**MDL**	**QC Batch**
Total Organic Carbon	mg/kg	1900	500	100	4156837

N/A = Not Applicable
RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam Analytics International Corporation o/a Maxxam Analytics 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.maxxam.ca

Maxxam Job #: B5F6982
Report Date: 2015/09/10

Ramboll Environ
Client Project #: 02-37128B(RE) 15-5133 (CTM)
Site Location: SGPP HOOSICK FALLS
Sampler Initials: JD

Test Summary

Maxxam ID ATN765 **Collected** 2015/08/05
Sample ID SG1-MW04S-00.0 **Shipped**
Matrix Soil **Received** 2015/08/14

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Moisture	BAL	4151642	N/A	2015/08/17	Shivani Desai
PFOS and PFOA in soil	LCMS	4167364	2015/08/26	2015/08/28	Colm McNamara

Maxxam ID ATN766 **Collected** 2015/08/05
Sample ID SG1-MW04S-02.0 **Shipped**
Matrix Soil **Received** 2015/08/14

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Moisture	BAL	4151642	N/A	2015/08/17	Shivani Desai
PFOS and PFOA in soil	LCMS	4167364	2015/08/26	2015/08/28	Colm McNamara

Maxxam ID ATN767 **Collected** 2015/08/05
Sample ID SG1-MW04S-15.0 **Shipped**
Matrix Soil **Received** 2015/08/14

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Total Organic Carbon in Soil	COMB	4152610	N/A	2015/08/19	Birenkumar Patel

Maxxam ID ATN768 **Collected** 2015/08/05
Sample ID SG1-MW04S-21.0 **Shipped**
Matrix Soil **Received** 2015/08/14

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Total Organic Carbon in Soil	COMB	4152610	N/A	2015/08/19	Birenkumar Patel

Maxxam ID ATN769 **Collected** 2015/08/05
Sample ID SG1-MW04S-24.0 **Shipped**
Matrix Soil **Received** 2015/08/14

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Total Organic Carbon in Soil	COMB	4152610	N/A	2015/08/19	Birenkumar Patel

Maxxam ID ATN770 **Collected** 2015/08/05
Sample ID SG1-DS01-150805 **Shipped**
Matrix Soil **Received** 2015/08/14

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Moisture	BAL	4151642	N/A	2015/08/17	Shivani Desai
PFOS and PFOA in soil	LCMS	4167364	2015/08/26	2015/08/28	Colm McNamara

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Maxxam Job #: B5F6982
Report Date: 2015/09/10

Ramboll Environ
Client Project #: 02-37128B(RE) 15-5133 (CTM)
Site Location: SGPP HOOSICK FALLS
Sampler Initials: JD

Test Summary

Maxxam ID ATN771 **Collected** 2015/08/05
Sample ID SG1-MW02D-00.0 **Shipped**
Matrix Soil **Received** 2015/08/14

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Moisture	BAL	4151642	N/A	2015/08/17	Shivani Desai
PFOS and PFOA in soil	LCMS	4167364	2015/08/26	2015/08/28	Colm McNamara

Maxxam ID ATN772 **Collected** 2015/08/05
Sample ID SG1-MW02D-02.0 **Shipped**
Matrix Soil **Received** 2015/08/14

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Moisture	BAL	4151642	N/A	2015/08/17	Shivani Desai
PFOS and PFOA in soil	LCMS	4167364	2015/08/26	2015/08/28	Colm McNamara

Maxxam ID ATN772 Dup **Collected** 2015/08/05
Sample ID SG1-MW02D-02.0 **Shipped**
Matrix Soil **Received** 2015/08/14

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
PFOS and PFOA in soil	LCMS	4167364	2015/08/27	2015/08/28	Colm McNamara

Maxxam ID ATN773 **Collected** 2015/08/06
Sample ID SG1-MW02D-42.0 **Shipped**
Matrix Soil **Received** 2015/08/14

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Total Organic Carbon in Soil	COMB	4152610	N/A	2015/08/19	Birenkumar Patel

Maxxam ID ATN774 **Collected** 2015/08/06
Sample ID SG1-MW02D-24.0 **Shipped**
Matrix Soil **Received** 2015/08/14

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Total Organic Carbon in Soil	COMB	4152610	N/A	2015/08/19	Birenkumar Patel

Maxxam ID AUP457 **Collected** 2015/08/10
Sample ID SG1-MW01D-00.0 **Shipped**
Matrix Soil **Received** 2015/08/14

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Moisture	BAL	4153056	N/A	2015/08/18	Valentina Kaftani
PFOS and PFOA in soil	LCMS	4167364	2015/08/27	2015/08/28	Colm McNamara

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Maxxam Job #: B5F6982
Report Date: 2015/09/10

Ramboll Environ
Client Project #: 02-37128B(RE) 15-5133 (CTM)
Site Location: SGPP HOOSICK FALLS
Sampler Initials: JD

Test Summary

Maxxam ID AUP458 **Collected** 2015/08/10
Sample ID SG1-MW01D-02.0 **Shipped**
Matrix Soil **Received** 2015/08/14

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Moisture	BAL	4153056	N/A	2015/08/18	Valentina Kaftani
PFOS and PFOA in soil	LCMS	4167364	2015/08/27	2015/08/28	Colm McNamara

Maxxam ID AUP459 **Collected** 2015/08/10
Sample ID SG1-MW01D-13.0 **Shipped**
Matrix Soil **Received** 2015/08/14

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Total Organic Carbon in Soil	COMB	4156837	N/A	2015/08/21	Birenkumar Patel

Maxxam ID AUP459 Dup **Collected** 2015/08/10
Sample ID SG1-MW01D-13.0 **Shipped**
Matrix Soil **Received** 2015/08/14

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Total Organic Carbon in Soil	COMB	4156837	N/A	2015/08/21	Birenkumar Patel

Maxxam ID AUP460 **Collected** 2015/08/11
Sample ID SG1-MW01S-06.0 **Shipped**
Matrix Soil **Received** 2015/08/14

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Total Organic Carbon in Soil	COMB	4156837	N/A	2015/08/21	Birenkumar Patel

Maxxam ID AUP461 **Collected** 2015/08/11
Sample ID SG1-MW05S-00.0 **Shipped**
Matrix Soil **Received** 2015/08/14

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Moisture	BAL	4153056	N/A	2015/08/18	Valentina Kaftani
PFOS and PFOA in soil	LCMS	4167364	2015/08/27	2015/08/28	Colm McNamara

Maxxam ID AUP462 **Collected** 2015/08/11
Sample ID SG1-MW05S-02.0 **Shipped**
Matrix Soil **Received** 2015/08/14

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Moisture	BAL	4153056	N/A	2015/08/18	Valentina Kaftani
PFOS and PFOA in soil	LCMS	4167364	2015/08/27	2015/08/28	Colm McNamara

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Maxxam Job #: B5F6982
Report Date: 2015/09/10

Ramboll Environ
Client Project #: 02-37128B(RE) 15-5133 (CTM)
Site Location: SGPP HOOSICK FALLS
Sampler Initials: JD

Test Summary

Maxxam ID AUP463 **Collected** 2015/08/11
Sample ID SG1-MW05S-17.0 **Shipped**
Matrix Soil **Received** 2015/08/14

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Total Organic Carbon in Soil	COMB	4156837	N/A	2015/08/21	Birenkumar Patel

Maxxam ID AUP464 **Collected** 2015/08/10
Sample ID SG1-MW02S-12.0 **Shipped**
Matrix Soil **Received** 2015/08/14

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Total Organic Carbon in Soil	COMB	4156837	N/A	2015/08/21	Birenkumar Patel

Maxxam ID AUP465 **Collected** 2015/08/12
Sample ID SG1-MW01D-23.0 **Shipped**
Matrix Soil **Received** 2015/08/14

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Total Organic Carbon in Soil	COMB	4156837	N/A	2015/08/21	Birenkumar Patel

Maxxam ID AUP466 **Collected** 2015/08/12
Sample ID SG1-DS01-150812 **Shipped**
Matrix Soil **Received** 2015/08/14

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Total Organic Carbon in Soil	COMB	4156837	N/A	2015/08/21	Birenkumar Patel

Maxxam ID AUP467 **Collected** 2015/08/13
Sample ID SG1-MW03S-00.0 **Shipped**
Matrix Soil **Received** 2015/08/14

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Moisture	BAL	4153056	N/A	2015/08/18	Valentina Kaftani
PFOS and PFOA in soil	LCMS	4167364	2015/08/27	2015/08/28	Colm McNamara

Maxxam ID AUP468 **Collected** 2015/08/13
Sample ID SG1-MW03S-02.0 **Shipped**
Matrix Soil **Received** 2015/08/14

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Moisture	BAL	4153056	N/A	2015/08/18	Valentina Kaftani
PFOS and PFOA in soil	LCMS	4167364	2015/08/27	2015/08/28	Colm McNamara

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Maxxam Job #: B5F6982
Report Date: 2015/09/10

Ramboll Environ
Client Project #: 02-37128B(RE) 15-5133 (CTM)
Site Location: SGPP HOOSICK FALLS
Sampler Initials: JD

Test Summary

Maxxam ID AUP469 **Collected** 2015/08/13
Sample ID SG1-MW03S-13.0 **Shipped**
Matrix Soil **Received** 2015/08/14

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Total Organic Carbon in Soil	COMB	4156837	N/A	2015/08/21	Birenkumar Patel

Maxxam ID AUP469 Dup **Collected** 2015/08/13
Sample ID SG1-MW03S-13.0 **Shipped**
Matrix Soil **Received** 2015/08/14

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Total Organic Carbon in Soil	COMB	4156837	N/A	2015/08/21	Birenkumar Patel

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Maxxam Job #: B5F6982
Report Date: 2015/09/10

Ramboll Environ
Client Project #: 02-37128B(RE) 15-5133 (CTM)
Site Location: SGPP HOOSICK FALLS
Sampler Initials: JD

GENERAL COMMENTS

Revision reflects change to APU466-01 sample ID
Revision reflects change to MDLs

Sample ATN765-01: Perfluorinated Compounds (PFCs): Elevated detection limits due to matrix interference(s).

Sample AUP461-01: Perfluorinated Compounds (PFCs): Elevated detection limits due to matrix interference(s).

Sample AUP469-01: Spike Expected value = 33000mg/kg
Spike recovery = 92.68% and 90.24%

Results relate only to the items tested.

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Ramboll Environ
Attention: Jason Wilkinson/ Kirk Moline
Client Project #: 02-37128B(RE) 15-5133 (CTM)
P.O. #:
Site Location: SGPP HOOSICK FALLS

Quality Assurance Report

Maxxam Job Number: GB5F6982

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits
4151642 BOP	RPD - Sample/Sample Dup	Moisture	2015/08/17	1.3		%	20
4152610 BIP	QC Standard	Total Organic Carbon	2015/08/19		101	%	75 - 125
	Method Blank	Total Organic Carbon	2015/08/19	<500		mg/kg	
4153056 NS3	RPD - Sample/Sample Dup	Moisture	2015/08/18	NC		%	20
4156837 BIP	Matrix Spike (AUP469)	Total Organic Carbon	2015/08/27		105	%	75 - 125
	Matrix Spike DUP (AUP469)	Total Organic Carbon	2015/08/27		96	%	75 - 125
	MS/MSD RPD	Total Organic Carbon	2015/08/27	8.4		%	35
	QC Standard	Total Organic Carbon	2015/08/21		99	%	75 - 125
	Method Blank	Total Organic Carbon	2015/08/21	<500		mg/kg	
	RPD - Sample/Sample Dup	Total Organic Carbon	2015/08/21	NC		%	35
	RPD - Sample/Sample Dup	Total Organic Carbon	2015/08/21	NC		%	35
4167364 CM5	Matrix Spike (ATN772)	Perfluorobutane Sulfonate (PFBS)	2015/08/28		92	%	70 - 130
	Matrix Spike DUP (ATN772)	Perfluorobutane Sulfonate (PFBS)	2015/08/28		97	%	70 - 130
	MS/MSD RPD	Perfluorobutane Sulfonate (PFBS)	2015/08/28	4.6		%	30
	Matrix Spike (ATN772)	Perfluoroheptanoic Acid (PFHpA)	2015/08/28		92	%	70 - 130
	Matrix Spike DUP (ATN772)	Perfluoroheptanoic Acid (PFHpA)	2015/08/28		95	%	70 - 130
	MS/MSD RPD	Perfluoroheptanoic Acid (PFHpA)	2015/08/28	3.9		%	30
	Matrix Spike (ATN772)	Perfluorohexane Sulfonate (PFHxS)	2015/08/28		97	%	70 - 130
	Matrix Spike DUP (ATN772)	Perfluorohexane Sulfonate (PFHxS)	2015/08/28		101	%	70 - 130
	MS/MSD RPD	Perfluorohexane Sulfonate (PFHxS)	2015/08/28	3.6		%	30
	Matrix Spike (ATN772)	Perfluoro-n-Octanoic Acid (PFOA)	2015/08/28		95	%	70 - 130
	Matrix Spike DUP (ATN772)	Perfluoro-n-Octanoic Acid (PFOA)	2015/08/28		95	%	70 - 130
	MS/MSD RPD	Perfluoro-n-Octanoic Acid (PFOA)	2015/08/28	0.42		%	30
	Matrix Spike (ATN772)	Perfluorononanoic Acid (PFNA)	2015/08/28		104	%	70 - 130
	Matrix Spike DUP (ATN772)	Perfluorononanoic Acid (PFNA)	2015/08/28		112	%	70 - 130
	MS/MSD RPD	Perfluorononanoic Acid (PFNA)	2015/08/28	7.8		%	30
	Matrix Spike (ATN772)	Perfluorooctane Sulfonate (PFOS)	2015/08/28		98	%	70 - 130
	Matrix Spike DUP (ATN772)	Perfluorooctane Sulfonate (PFOS)	2015/08/28		101	%	70 - 130
	MS/MSD RPD	Perfluorooctane Sulfonate (PFOS)	2015/08/28	2.8		%	30
	Spiked Blank	Perfluorobutane Sulfonate (PFBS)	2015/08/28		96	%	70 - 130
		Perfluoroheptanoic Acid (PFHpA)	2015/08/28		96	%	70 - 130
		Perfluorohexane Sulfonate (PFHxS)	2015/08/28		99	%	70 - 130
		Perfluoro-n-Octanoic Acid (PFOA)	2015/08/28		100	%	70 - 130

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Ramboll Environ
Attention: Jason Wilkinson/ Kirk Moline
Client Project #: 02-37128B(RE) 15-5133 (CTM)
P.O. #:
Site Location: SGPP HOOSICK FALLS

Quality Assurance Report (Continued)

Maxxam Job Number: GB5F6982

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits
4167364 CM5	Spiked Blank	Perfluorononanoic Acid (PFNA)	2015/08/28		103	%	70 - 130
		Perfluorooctane Sulfonate (PFOS)	2015/08/28		98	%	70 - 130
	Method Blank	Perfluorobutane Sulfonate (PFBS)	2015/08/28	<0.014, MDL=0.014		ug/kg	
		Perfluoroheptanoic Acid (PFHpA)	2015/08/28	<0.015, MDL=0.015		ug/kg	
		Perfluorohexane Sulfonate (PFHxS)	2015/08/28	<0.015, MDL=0.015		ug/kg	
		Perfluoro-n-Octanoic Acid (PFOA)	2015/08/28	<0.023, MDL=0.023		ug/kg	
		Perfluorononanoic Acid (PFNA)	2015/08/28	<0.01, MDL=0.01		ug/kg	
		Perfluorooctane Sulfonate (PFOS)	2015/08/28	<0.015, MDL=0.015		ug/kg	
	RPD - Sample/Sample Dup	Perfluorobutane Sulfonate (PFBS)	2015/08/28	NC		%	30
		Perfluoroheptanoic Acid (PFHpA)	2015/08/28	NC		%	30
		Perfluorohexane Sulfonate (PFHxS)	2015/08/28	NC		%	30
		Perfluoro-n-Octanoic Acid (PFOA)	2015/08/28	NC		%	30
		Perfluorononanoic Acid (PFNA)	2015/08/28	NC		%	30
		Perfluorooctane Sulfonate (PFOS)	2015/08/28	NC		%	30

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.
QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.
Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.
Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.
NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (one or both samples < 5x RDL).

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Validation Signature Page

Maxxam Job #: B5F6982

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Cristina Carriere

Cristina Carriere, Scientific Services

==========

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

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LABORATORY REPORT

If you have any questions concerning this report, please do not hesitate to call us at (800) 332-4345 or (574) 233-4777.

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Colorado	IN035	New Jersey*	IN598
Colorado Radiochemistry	IN035	New York*	11398
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Georgia	929	Oklahoma	D9508
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Mississippi	IN035	Wyoming	IN035
Missouri	880		

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110 South Hill Street
South Bend, IN 46617
Tel: (574) 233-4777
Fax: (574) 233-8207
1 800 332 4345

Laboratory Report

Client: Ramboll Environ

Attn: Jason Wilkinson
3 Carlisle Road
Suite 210
Westford, MA 01886

Copies to: Rob Huening,Valerie Turner

Report: 348249
Priority: Standard Written
Status: Final
PWS ID: Not Supplied
Lab ELAP #: 11398

Sample Information

EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
3315941	SG1-TB01-150902	537	09/02/15 12:15	Client	09/04/15 08:00
3315942	SG1-RB01-150902	537	09/02/15 12:20	Client	09/04/15 08:00
3315943	SG1-RB02-150902	537	09/02/15 12:25	Client	09/04/15 08:00
3315944	SG1-RB03-150902	537	09/02/15 12:35	Client	09/04/15 08:00
3315945	SG1-RB04-150902	537	09/02/15 12:45	Client	09/04/15 08:00
3315946	SG1-MW02D-150902	537	09/02/15 14:30	Client	09/04/15 08:00
3315947	SG1-RB05-150902	537	09/02/15 15:50	Client	09/04/15 08:00
3315948	SG1-RB06-150902	537	09/02/15 15:55	Client	09/04/15 08:00
3315949	SG1-FB01-150902	537	09/02/15 16:30	Client	09/04/15 08:00
3315950	SG1-MW02S-150902	537	09/02/15 17:05	Client	09/04/15 08:00
3315951	SG1-MW01D-150903	537	09/03/15 07:45	Client	09/04/15 08:00
3315952	SG1-MW01S-150903	537	09/03/15 08:00	Client	09/04/15 08:00
3315953	SG1-MW05S-150903	537	09/03/15 09:00	Client	09/04/15 08:00
3315956	SG1-TB02-150903	537	09/03/15 09:35	Client	09/04/15 08:00
3315957	SG1-MW04S-150903	537	09/03/15 11:00	Client	09/04/15 08:00
3315958	SG1-DS01-150903	537	09/03/15 13:00	Client	09/04/15 08:00
3315959	SG1-MW03S-150903	537	09/03/15 14:05	Client	09/04/15 08:00

Report Summary

Detailed quantitative results are presented on the following pages. The results presented relate only to the samples provided for analysis.

We appreciate the opportunity to provide you with this analysis. If you have any questions concerning this report, please do not hesitate to call Nathan Trowbridge at (574) 233-4777.

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C.S. Manager — 09/18/2015

Authorized Signature — Title — Date

Client Name: Ramboll Environ
Report #: 348249

Client Name: Ramboll Environ

Report #: 348249

Sampling Point: SG1-TB01-150902

PWS ID: Not Supplied

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	90	< 90	ng/L	09/09/15 07:30	09/11/15 02:55	3315941
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	10	< 10	ng/L	09/09/15 07:30	09/11/15 02:55	3315941
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	30	< 30	ng/L	09/09/15 07:30	09/11/15 02:55	3315941
375-95-1	Perfluorononanoic acid (PFNA)	537	---	20	< 20	ng/L	09/09/15 07:30	09/11/15 02:55	3315941
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	40	< 40	ng/L	09/09/15 07:30	09/11/15 02:55	3315941
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	20	< 20	ng/L	09/09/15 07:30	09/11/15 02:55	3315941

Sampling Point: SG1-RB01-150902

PWS ID: Not Supplied

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	90	< 90	ng/L	09/09/15 07:30	09/11/15 04:59	3315942
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	10	< 10	ng/L	09/09/15 07:30	09/11/15 04:59	3315942
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	30	< 30	ng/L	09/09/15 07:30	09/11/15 04:59	3315942
375-95-1	Perfluorononanoic acid (PFNA)	537	---	20	< 20	ng/L	09/09/15 07:30	09/11/15 04:59	3315942
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	40	< 40	ng/L	09/09/15 07:30	09/11/15 04:59	3315942
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	20	< 20	ng/L	09/09/15 07:30	09/11/15 04:59	3315942

Sampling Point: SG1-RB02-150902

PWS ID: Not Supplied

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	90	< 90	ng/L	09/09/15 07:30	09/11/15 05:30	3315943
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	10	< 10	ng/L	09/09/15 07:30	09/11/15 05:30	3315943
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	30	< 30	ng/L	09/09/15 07:30	09/11/15 05:30	3315943
375-95-1	Perfluorononanoic acid (PFNA)	537	---	20	< 20	ng/L	09/09/15 07:30	09/11/15 05:30	3315943
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	40	< 40	ng/L	09/09/15 07:30	09/11/15 05:30	3315943
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	20	< 20	ng/L	09/09/15 07:30	09/11/15 05:30	3315943

Client Name: Ramboll Environ

Report #: 348249

Sampling Point: SG1-RB03-150902

PWS ID: Not Supplied

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	90	< 90	ng/L	09/09/15 07:30	09/11/15 06:01	3315944
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	10	< 10	ng/L	09/09/15 07:30	09/11/15 06:01	3315944
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	30	< 30	ng/L	09/09/15 07:30	09/11/15 06:01	3315944
375-95-1	Perfluorononanoic acid (PFNA)	537	---	20	< 20	ng/L	09/09/15 07:30	09/11/15 06:01	3315944
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	40	< 40	ng/L	09/09/15 07:30	09/11/15 06:01	3315944
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	20	< 20	ng/L	09/09/15 07:30	09/11/15 06:01	3315944

Sampling Point: SG1-RB04-150902

PWS ID: Not Supplied

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	90	< 90	ng/L	09/09/15 07:30	09/11/15 06:31	3315945
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	10	< 10	ng/L	09/09/15 07:30	09/11/15 06:31	3315945
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	30	< 30	ng/L	09/09/15 07:30	09/11/15 06:31	3315945
375-95-1	Perfluorononanoic acid (PFNA)	537	---	20	< 20	ng/L	09/09/15 07:30	09/11/15 06:31	3315945
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	40	< 40	ng/L	09/09/15 07:30	09/11/15 06:31	3315945
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	20	< 20	ng/L	09/09/15 07:30	09/11/15 06:31	3315945

Sampling Point: SG1-MW02D-150902

PWS ID: Not Supplied

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	90	< 90	ng/L	09/09/15 07:30	09/11/15 07:02	3315946
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	10	**340**	ng/L	09/09/15 07:30	09/11/15 16:51	3315946
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	30	< 30	ng/L	09/09/15 07:30	09/11/15 07:02	3315946
375-95-1	Perfluorononanoic acid (PFNA)	537	---	20	< 20	ng/L	09/09/15 07:30	09/11/15 07:02	3315946
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	40	< 40	ng/L	09/09/15 07:30	09/11/15 07:02	3315946
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	20	**18000**	ng/L	09/09/15 07:30	09/11/15 18:24	3315946

Client Name: Ramboll Environ

Report #: 348249

Sampling Point: SG1-RB05-150902

PWS ID: Not Supplied

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	90	< 90	ng/L	09/09/15 07:30	09/11/15 07:33	3315947
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	10	< 10	ng/L	09/09/15 07:30	09/11/15 07:33	3315947
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	30	< 30	ng/L	09/09/15 07:30	09/11/15 07:33	3315947
375-95-1	Perfluorononanoic acid (PFNA)	537	---	20	< 20	ng/L	09/09/15 07:30	09/11/15 07:33	3315947
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	40	< 40	ng/L	09/09/15 07:30	09/11/15 07:33	3315947
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	20	< 20	ng/L	09/09/15 07:30	09/11/15 07:33	3315947

Sampling Point: SG1-RB06-150902

PWS ID: Not Supplied

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	90	< 90	ng/L	09/09/15 07:30	09/11/15 08:04	3315948
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	10	< 10	ng/L	09/09/15 07:30	09/11/15 08:04	3315948
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	30	< 30	ng/L	09/09/15 07:30	09/11/15 08:04	3315948
375-95-1	Perfluorononanoic acid (PFNA)	537	---	20	< 20	ng/L	09/09/15 07:30	09/11/15 08:04	3315948
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	40	< 40	ng/L	09/09/15 07:30	09/11/15 08:04	3315948
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	20	< 20	ng/L	09/09/15 07:30	09/11/15 08:04	3315948

Sampling Point: SG1-FB01-150902

PWS ID: Not Supplied

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	90	< 90	ng/L	09/09/15 07:30	09/11/15 08:35	3315949
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	10	< 10	ng/L	09/09/15 07:30	09/11/15 08:35	3315949
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	30	< 30	ng/L	09/09/15 07:30	09/11/15 08:35	3315949
375-95-1	Perfluorononanoic acid (PFNA)	537	---	20	< 20	ng/L	09/09/15 07:30	09/11/15 08:35	3315949
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	40	< 40	ng/L	09/09/15 07:30	09/11/15 08:35	3315949
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	20	< 20	ng/L	09/09/15 07:30	09/11/15 08:35	3315949

Client Name: Ramboll Environ Report #: 348249

Sampling Point: SG1-MW02S-150902 PWS ID: Not Supplied

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	90	< 90	ng/L	09/09/15 07:30	09/11/15 10:08	3315950
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	10	**20**	ng/L	09/09/15 07:30	09/11/15 10:08	3315950
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	30	< 30	ng/L	09/09/15 07:30	09/11/15 10:08	3315950
375-95-1	Perfluorononanoic acid (PFNA)	537	---	20	< 20	ng/L	09/09/15 07:30	09/11/15 10:08	3315950
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	40	< 40	ng/L	09/09/15 07:30	09/11/15 10:08	3315950
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	20	**1100**	ng/L	09/09/15 07:30	09/11/15 14:48	3315950

Sampling Point: SG1-MW01D-150903 PWS ID: Not Supplied

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	90	< 90	ng/L	09/09/15 07:30	09/11/15 10:39	3315951
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	10	< 10	ng/L	09/09/15 07:30	09/11/15 10:39	3315951
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	30	< 30	ng/L	09/09/15 07:30	09/11/15 10:39	3315951
375-95-1	Perfluorononanoic acid (PFNA)	537	---	20	< 20	ng/L	09/09/15 07:30	09/11/15 10:39	3315951
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	40	< 40	ng/L	09/09/15 07:30	09/11/15 10:39	3315951
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	20	< 20	ng/L	09/09/15 07:30	09/11/15 10:39	3315951

Sampling Point: SG1-MW01S-150903 PWS ID: Not Supplied

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	90	< 90	ng/L	09/09/15 07:30	09/11/15 11:10	3315952
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	10	**20**	ng/L	09/09/15 07:30	09/11/15 11:10	3315952
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	30	< 30	ng/L	09/09/15 07:30	09/11/15 11:10	3315952
375-95-1	Perfluorononanoic acid (PFNA)	537	---	20	< 20	ng/L	09/09/15 07:30	09/11/15 11:10	3315952
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	40	< 40	ng/L	09/09/15 07:30	09/11/15 11:10	3315952
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	20	< 20	ng/L	09/09/15 07:30	09/11/15 11:10	3315952

Client Name: Ramboll Environ

Report #: 348249

Sampling Point: SG1-MW05S-150903

PWS ID: Not Supplied

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	90	< 90	ng/L	09/09/15 07:30	09/11/15 11:41	3315953
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	10	**10**	ng/L	09/09/15 07:30	09/11/15 11:41	3315953
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	30	< 30	ng/L	09/09/15 07:30	09/11/15 11:41	3315953
375-95-1	Perfluorononanoic acid (PFNA)	537	---	20	< 20	ng/L	09/09/15 07:30	09/11/15 11:41	3315953
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	40	< 40	ng/L	09/09/15 07:30	09/11/15 11:41	3315953
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	20	**580**	ng/L	09/09/15 07:30	09/11/15 15:19	3315953

Sampling Point: SG1-TB02-150903

PWS ID: Not Supplied

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	90	< 90	ng/L	09/09/15 07:30	09/11/15 03:26	3315956
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	10	< 10	ng/L	09/09/15 07:30	09/11/15 03:26	3315956
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	30	< 30	ng/L	09/09/15 07:30	09/11/15 03:26	3315956
375-95-1	Perfluorononanoic acid (PFNA)	537	---	20	< 20	ng/L	09/09/15 07:30	09/11/15 03:26	3315956
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	40	< 40	ng/L	09/09/15 07:30	09/11/15 03:26	3315956
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	20	< 20	ng/L	09/09/15 07:30	09/11/15 03:26	3315956

Sampling Point: SG1-MW04S-150903

PWS ID: Not Supplied

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	90	< 90	ng/L	09/09/15 07:30	09/11/15 13:13	3315957
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	10	**40**	ng/L	09/09/15 07:30	09/11/15 13:13	3315957
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	30	< 30	ng/L	09/09/15 07:30	09/11/15 13:13	3315957
375-95-1	Perfluorononanoic acid (PFNA)	537	---	20	< 20	ng/L	09/09/15 07:30	09/11/15 13:13	3315957
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	40	< 40	ng/L	09/09/15 07:30	09/11/15 13:13	3315957
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	20	**1700**	ng/L	09/09/15 07:30	09/11/15 15:50	3315957

Client Name: Ramboll Environ

Report #: 348249

Sampling Point: SG1-DS01-150903

PWS ID: Not Supplied

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	90	< 90	ng/L	09/09/15 07:30	09/11/15 13:44	3315958
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	10	**130**	ng/L	09/09/15 07:30	09/11/15 13:44	3315958
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	30	< 30	ng/L	09/09/15 07:30	09/11/15 13:44	3315958
375-95-1	Perfluorononanoic acid (PFNA)	537	---	20	< 20	ng/L	09/09/15 07:30	09/11/15 13:44	3315958
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	40	< 40	ng/L	09/09/15 07:30	09/11/15 13:44	3315958
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	20	**4200**	ng/L	09/09/15 07:30	09/11/15 17:53	3315958

Sampling Point: SG1-MW03S-150903

PWS ID: Not Supplied

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	90	< 90	ng/L	09/09/15 07:30	09/11/15 14:15	3315959
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	10	**130**	ng/L	09/09/15 07:30	09/11/15 14:15	3315959
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	30	< 30	ng/L	09/09/15 07:30	09/11/15 14:15	3315959
375-95-1	Perfluorononanoic acid (PFNA)	537	---	20	< 20	ng/L	09/09/15 07:30	09/11/15 14:15	3315959
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	40	< 40	ng/L	09/09/15 07:30	09/11/15 14:15	3315959
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	20	**5300**	ng/L	09/09/15 07:30	09/11/15 17:22	3315959

† EEA has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices.

Reg Limit Type:	MCL	SMCL	AL
Symbol:	*	^	!

Lab Definitions

Continuing Calibration Check Standard (CCC) / Continuing Calibration Verification (CCV) / Initial Calibration Verification Standard (ICV) / Initial Performance Check (IPC) - is a standard containing one or more of the target analytes that is prepared from the same standards used to calibrate the instrument. This standard is used to verify the calibration curve at the beginning of each analytical sequence, and may also be analyzed throughout and at the end of the sequence. The concentration of continuing standards may be varied, when prescribed by the reference method, so that the range of the calibration curve is verified on a regular basis.

Internal Standards (IS) - are pure compounds with properties similar to the analytes of interest, which are added to field samples or extracts, calibration standards, and quality control standards at a known concentration. They are used to measure the relative responses of the analytes of interest and surrogates in the sample, calibration standard or quality control standard.

Laboratory Duplicate (LD) - is a field sample aliquot taken from the same sample container in the laboratory and analyzed separately using identical procedures. Analysis of laboratory duplicates provides a measure of the precision of the laboratory procedures.

Laboratory Fortified Blank (LFB) / Laboratory Control Sample (LCS) - is an aliquot of reagent water to which known concentrations of the analytes of interest are added. The LFB is analyzed exactly the same as the field samples. LFBs are used to determine whether the method is in control.

Laboratory Method Blank (LMB) / Laboratory Reagent Blank (LRB) - is a sample of reagent water included in the sample batch analyzed in the same way as the associated field samples. The LMB is used to determine if method analytes or other background contamination have been introduced during the preparation or analytical procedure. The LMB is analyzed exactly the same as the field samples.

Laboratory Trip Blank (LTB) / Field Reagent Blank (FRB) - is a sample of laboratory reagent water placed in a sample container in the laboratory and treated as a field sample, including storage, preservation, and all analytical procedures. The FRB/LTB container follows the collection bottles to and from the collection site, but the FRB/LTB is not opened at any time during the trip. The FRB/LTB is primarily a travel blank used to verify that the samples were not contaminated during shipment.

Matrix Spike Duplicate Sample (MSD) / Laboratory Fortified Sample Matrix Duplicate (LFSMD) - is a sample aliquot taken from the same field sample source as the Matrix Spike Sample to which known quantities of the analytes of interest are added in the laboratory. The MSD is analyzed exactly the same as the field samples. Analysis of the MSD provides a measure of the precision of the laboratory procedures in a specific matrix.

Matrix Spike Sample (MS) / Laboratory Fortified Sample Matrix (LFSM) - is a sample aliquot taken from field sample source to which known quantities of the analytes of interest are added in the laboratory. The MS is analyzed exactly the same as the field samples. The purpose is to demonstrate recovery of the analytes from a sample matrix to determine if the specific matrix contributes bias to the analytical results.

Quality Control Standard (QCS) / Second Source Calibration Verification (SSCV) - is a solution containing known concentrations of the analytes of interest prepared from a source different from the source of the calibration standards. The solution is obtained from a second manufacturer or lot if the lot can be demonstrated by the manufacturer as prepared independently from other lots. The QCS sample is analyzed using the same procedures as field samples. The QCS is used as a check on the calibration standards used in the method on a routine basis.

Reporting Limit Check (RLC) / Initial Calibration Check Standard (ICCS) - is a procedural standard that is analyzed each day to evaluate instrument performance at or below the minimum reporting limit (MRL).

Surrogate Standard (SS) / Surrogate Analyte (SUR) - is a pure compound with properties similar to the analytes of interest, which is highly unlikely to be found in any field sample, that is added to the field samples, calibration standards, blanks and quality control standards before sample preparation. The SS is used to evaluate the efficiency of the sample preparation process.

281343

eurofins | Eaton Analytical

110 S. Hill Street
South Bend, IN 46617
T: 1.800.332.4345
F: 1.574.233.8207

Order # 281343 9-4-15
Batch # 348249

www.eatonanalytical.com

CHAIN OF CUSTODY RECORD

Page 1 of 2

Shaded area for EEA use only

REPORT TO: Susan Hilkinson
Rambell Environ; Suite 210
3 Carlisle Road, Westford, MA 01886

SAMPLER (Signature): Franklin Dupont

PWS ID #:

STATE (sample origin): NY

PROJECT NAME: SGPP Hoosick Falls

PO#:

BILL TO: Same As Report

COMPLIANCE MONITORING: Yes [ ] No [X]

POPULATION SERVED:

SOURCE WATER:

	LAB Number	COLLECTION DATE	TIME	AM	PM	SAMPLING SITE	TEST NAME	SAMPLE REMARKS	CHLORINATED YES	CHLORINATED NO	# OF CONTAINERS	MATRIX CODE	TURNAROUND TIME
1	3315941	9/2/15	1215		X	SG1-TB01-150902	EPA Method 537* 01-A-15			X	1	RW	SW
2	942	9/2/15	1220		X	SG1-RB01-150902				X	3	DW	
3	943	9/2/15	1225		X	SG1-RB02-150902				X	3	DW	
4	944	9/2/15	1235		X	SG1-RB03-150902				X	3	DW	
5	945	9/2/15	1245		X	SG1-RB04-150902				X	3	DW	
6	946	9/2/15	1420		X	SG1-MW02D-150902				X	3	GW	
7	947	9/2/15	1530		X	SG1-RB05-150902				X	3	DW	
8	948	9/2/15	1555		X	SG1-RB06-150902				X	3	DW	
9	949	9/2/15	1630		X	SG1-FB01-150902				X	3	DW	
10	950	9/2/15	1705		X	SG1-MW02S-150902				X	3	GW	
11	951	9/3/15	0745	X		SG1-MW03D-150903				X	3	GW	
12	952	9/3/15	0800	X		SG1-MW03S-150903				X	3	GW	
13	953*5	9/3/15	0900	X		SG1-MW05S-150903		MS/MSD		X	9	GW	
14	956	9/3/15	0935	X		SG1-TB02-150903				X	1	RW	

RELINQUISHED BY:(Signature)	DATE	TIME	RECEIVED BY:(Signature)	DATE	TIME
	9/3/15	1630 AM PM			AM PM
RELINQUISHED BY:(Signature)	DATE	TIME AM PM	RECEIVED BY:(Signature)	DATE	TIME AM PM
RELINQUISHED BY:(Signature)	DATE	TIME AM PM	RECEIVED FOR LABORATORY BY:	DATE 9-4-15	TIME 0800 AM PM

LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIENT

LAB COMMENTS
*MS MW05S (3) 3315954
*MSD MW05S (3) 3315955

CONDITIONS UPON RECEIPT (check one): X Iced Wet/Blue ____ Ambient ____ °C Upon Receipt 1.4, 0.2 N/A

MATRIX CODES:

DW-DRINKING WATER
RW-REAGENT WATER
GW-GROUND WATER
EW-EXPOSURE WATER
SW-SURFACE WATER
PW-POOL WATER
WW-WASTE WATER

TURN-AROUND TIME (TAT) - SURCHARGES

SW = Standard Written: (15 working days) 0%
RV* = Rush Verbal: (5 working days) 50%
RW* = Rush Written: (5 working days) 75%
IV* = Immediate Verbal: (3 working days) 100%
IW* = Immediate Written: (3 working days) 125%
SP* = Weekend, Holiday CALL
STAT* = Less than 48 hours CALL

* Please call, expedited service not available for all testing

Samples received unannounced with less than 48 hours holding time remaining may be subject to additional charges.

06-LO-F0435 Issue 4.0 Effective Date: 2014-05-01

Sample analysis will be provided according to the standard EEA/Water Services Terms, which are available upon request. Any other terms proposed by Customer are deemed material alterations and are rejected unless expressly agree to in writing by EEA.

eurofins | Eaton Analytical

110 S. Hill Street
South Bend, IN 46617
T: 1.800.332.4345
F: 1.574.233.8207

Order # 280858

Batch # _____

www.eatonanalytical.com

Shaded area for EEA use only

CHAIN OF CUSTODY RECORD

REPORT TO: Jason Wilkinson
Ramboll Environ
3 Corporate Rd, Suite 210
Westford, MA 01886

SAMPLER (Signature): Jonathan Dupont

PWS ID #:

STATE (sample origin): NY

PROJECT NAME: SGPP Hoosick Falls

PO#:

BILL TO: SAME AS REPORT

COMPLIANCE MONITORING: Yes [ ] No [X]

POPULATION SERVED:

SOURCE WATER:

	LAB Number	COLLECTION DATE	TIME	AM	PM	SAMPLING SITE	TEST NAME	SAMPLE REMARKS	CHLORINATED YES	CHLORINATED NO	# OF CONTAINERS	MATRIX CODE	TURNAROUND TIME
1	3315957	9/3/15	1100	X		SG1 - MW045 - 150903	EPA Method 537*	CI-A 66		X	3	GW	SW
2	958	9/3/15	1300		X	SG1 - DS01 - 150903	↓	↓		X	3	GW	SW
3	959	9/3/15	1405		X	SG1 - MW03S - 150903	↓	↓		X	3	GW	SW
4													
5													
6													
7													
8													
9						*EPA Method 537 for the following PFCs: PFOA, PFBS, PFHpA,	PFHxS, PFNA, PFOS						
10													
11						No other PFCs should be reported.							
12													
13													
14													

RELINQUISHED BY:(Signature)	DATE	TIME	RECEIVED BY:(Signature)	DATE	TIME
	9/3/15	1640 AM PM			AM PM
RELINQUISHED BY:(Signature)	DATE	TIME AM PM	RECEIVED BY:(Signature)	DATE	TIME AM PM
RELINQUISHED BY:(Signature)	DATE	TIME AM PM	RECEIVED FOR LABORATORY BY:	DATE 9-4-15	TIME 0800 AM PM

LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIENT

LAB COMMENTS

CONDITIONS UPON RECEIPT (check one): X Iced: Wet/Blue ___ Ambient 1.4, 0.2 °C Upon Receipt ___ N/A

MATRIX CODES:

DW-DRINKING WATER
RW-REAGENT WATER
GW-GROUND WATER
EW-EXPOSURE WATER
SW-SURFACE WATER
PW-POOL WATER
WW-WASTE WATER

TURN-AROUND TIME (TAT) - SURCHARGES

SW = Standard Written: (15 working days) 0%
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RW* = Rush Written: (5 working days) 75%
IV* = Immediate Verbal: (3 working days) 100%
IW* = Immediate Written: (3 working days) 125%
SP* = Weekend, Holiday CALL
STAT* = Less than 48 hours CALL

* Please call, expedited service not available for all testing

Samples received unannounced with less than 48 hours holding time remaining may be subject to additional charges.

06-LO-F0435 Issue 4.0 Effective Date: 2014-05-01

Sample analysis will be provided according to the standard EEA/Water Services Terms, which are available upon request. Any other terms proposed by Customer are deemed material alterations and are rejected unless expressly agree to in writing by EEA.

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Eurofins Eaton Analytical
Run Log

Run ID: **207498** Method: **537**

Type	Sample Id	Sample Site	Matrix	Instrument ID	Analysis Date	Calibration File
CCL	3316483		OS	CY	09/10/2015 23:18	091015M537a.mdb
LRB	3316467		RW	CY	09/11/2015 00:51	091015M537a.mdb
FBL	3316469		RW	CY	09/11/2015 01:22	091015M537a.mdb
FTB	3315941	SG1-TB01-150902	RW	CY	09/11/2015 02:55	091015M537a.mdb
FTB	3315956	SG1-TB02-150903	RW	CY	09/11/2015 03:26	091015M537a.mdb
FS	3315942	SG1-RB01-150902	DW	CY	09/11/2015 04:59	091015M537a.mdb
FS	3315943	SG1-RB02-150902	DW	CY	09/11/2015 05:30	091015M537a.mdb
FS	3315944	SG1-RB03-150902	DW	CY	09/11/2015 06:01	091015M537a.mdb
FS	3315945	SG1-RB04-150902	DW	CY	09/11/2015 06:31	091015M537a.mdb
FS	3315946	SG1-MW02D-150902	GW	CY	09/11/2015 07:02	091015M537a.mdb
FS	3315947	SG1-RB05-150902	DW	CY	09/11/2015 07:33	091015M537a.mdb
FS	3315948	SG1-RB06-150902	DW	CY	09/11/2015 08:04	091015M537a.mdb
FS	3315949	SG1-FB01-150902	DW	CY	09/11/2015 08:35	091015M537a.mdb
CCM	3316484		OS	CY	09/11/2015 09:06	091015M537a.mdb
FS	3315950	SG1-MW02S-150902	GW	CY	09/11/2015 10:08	091015M537a.mdb
FS	3315951	SG1-MW01D-150903	GW	CY	09/11/2015 10:39	091015M537a.mdb
FS	3315952	SG1-MW01S-150903	GW	CY	09/11/2015 11:10	091015M537a.mdb
FS	3315953	SG1-MW05S-150903	GW	CY	09/11/2015 11:41	091015M537a.mdb
LFSML	3315954	SG1-MW05S-150903	GW	CY	09/11/2015 12:12	091015M537a.mdb
LFSMDL	3315955	SG1-MW05S-150903	GW	CY	09/11/2015 12:42	091015M537a.mdb
FS	3315957	SG1-MW04S-150903	GW	CY	09/11/2015 13:13	091015M537a.mdb
FS	3315958	SG1-DS01-150903	GW	CY	09/11/2015 13:44	091015M537a.mdb
FS	3315959	SG1-MW03S-150903	GW	CY	09/11/2015 14:15	091015M537a.mdb
FS	3315950	SG1-MW02S-150902	GW	CY	09/11/2015 14:48	091015M537a.mdb
FS	3315953	SG1-MW05S-150903	GW	CY	09/11/2015 15:19	091015M537a.mdb
FS	3315957	SG1-MW04S-150903	GW	CY	09/11/2015 15:50	091015M537a.mdb
CCH	3316485		OS	CY	09/11/2015 16:21	091015M537a.mdb
FS	3315946	SG1-MW02D-150902	GW	CY	09/11/2015 16:51	091015M537a.mdb
FS	3315959	SG1-MW03S-150903	GW	CY	09/11/2015 17:22	091015M537a.mdb
FS	3315958	SG1-DS01-150903	GW	CY	09/11/2015 17:53	091015M537a.mdb
FS	3315946	SG1-MW02D-150902	GW	CY	09/11/2015 18:24	091015M537a.mdb
CCM	3319308		OS	CY	09/11/2015 18:55	091015M537a.mdb
LRB	3319172		RW	CY	09/11/2015 19:26	091015M537a.mdb

QC Summary Report

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID #
CCL	IS-PFOA-13C2	537	N/A	---		6074.06	6074.06	ng/L	100	70 - 140	---	---	1.0	09/09/2015 09:56	09/10/2015 23:18	3316483
CCL	IS-PFOS-13C4	537	N/A	---		5143.50	5143.5	ng/L	100	70 - 140	---	---	1.0	09/09/2015 09:56	09/10/2015 23:18	3316483
CCL	SS-PFDA-13C2	537	N/A	---		98.8910	100	ng/L	99	70 - 130	---	---	1.0	09/09/2015 09:56	09/10/2015 23:18	3316483
CCL	SS-PFHxA-13C2	537	N/A	---		48.6467	50.0	ng/L	97	70 - 130	---	---	1.0	09/09/2015 09:56	09/10/2015 23:18	3316483
CCL	Perfluorobutanesulfonic acid (PFBS)	537	90	---		91.9076	90.0	ng/L	102	50 - 150	---	---	1.0	09/09/2015 09:56	09/10/2015 23:18	3316483
CCL	Perfluoroheptanoic acid (PFHpA)	537	10	---		10.8147	10.0	ng/L	108	50 - 150	---	---	1.0	09/09/2015 09:56	09/10/2015 23:18	3316483
CCL	Perfluorohexanesulfonic acid (PFHxS)	537	30	---		30.7755	30.0	ng/L	103	50 - 150	---	---	1.0	09/09/2015 09:56	09/10/2015 23:18	3316483
CCL	Perfluorononanoic acid (PFNA)	537	20	---		21.4759	20.0	ng/L	107	50 - 150	---	---	1.0	09/09/2015 09:56	09/10/2015 23:18	3316483
CCL	Perfluorooctane sulfonate (PFOS)	537	40	---		41.5940	40.0	ng/L	104	50 - 150	---	---	1.0	09/09/2015 09:56	09/10/2015 23:18	3316483
CCL	Perfluorooctanoic acid (PFOA)	537	20	---		21.2569	20.0	ng/L	106	50 - 150	---	---	1.0	09/09/2015 09:56	09/10/2015 23:18	3316483
LRB	IS-PFOA-13C2	537	N/A	---		6572.52	6074.06	ng/L	108	70 - 140	---	---	1.0	09/09/2015 07:30	09/11/2015 00:51	3316467
LRB	IS-PFOS-13C4	537	N/A	---		5361.38	5143.5	ng/L	104	70 - 140	---	---	1.0	09/09/2015 07:30	09/11/2015 00:51	3316467
LRB	SS-PFDA-13C2	537	N/A	---		93.0939	100	ng/L	93	70 - 130	---	---	1.0	09/09/2015 07:30	09/11/2015 00:51	3316467
LRB	SS-PFHxA-13C2	537	N/A	---		46.8308	50.0	ng/L	94	70 - 130	---	---	1.0	09/09/2015 07:30	09/11/2015 00:51	3316467
LRB	Perfluorobutanesulfonic acid (PFBS)	537	90	---	<	90		ng/L	---	---	---	---	1.0	09/09/2015 07:30	09/11/2015 00:51	3316467
LRB	Perfluoroheptanoic acid (PFHpA)	537	10	---	<	10		ng/L	---	---	---	---	1.0	09/09/2015 07:30	09/11/2015 00:51	3316467
LRB	Perfluorohexanesulfonic acid (PFHxS)	537	30	---	<	30		ng/L	---	---	---	---	1.0	09/09/2015 07:30	09/11/2015 00:51	3316467
LRB	Perfluorononanoic acid (PFNA)	537	20	---	<	20		ng/L	---	---	---	---	1.0	09/09/2015 07:30	09/11/2015 00:51	3316467
LRB	Perfluorooctane sulfonate (PFOS)	537	40	---	<	40		ng/L	---	---	---	---	1.0	09/09/2015 07:30	09/11/2015 00:51	3316467
LRB	Perfluorooctanoic acid (PFOA)	537	20	---	<	20		ng/L	---	---	---	---	1.0	09/09/2015 07:30	09/11/2015 00:51	3316467
FBL	IS-PFOA-13C2	537	N/A	---		6443.45	6074.06	ng/L	106	70 - 140	---	---	1.0	09/09/2015 07:30	09/11/2015 01:22	3316469
FBL	IS-PFOS-13C4	537	N/A	---		5352.31	5143.5	ng/L	104	70 - 140	---	---	1.0	09/09/2015 07:30	09/11/2015 01:22	3316469
FBL	SS-PFDA-13C2	537	N/A	---		94.6122	100	ng/L	95	70 - 130	---	---	1.0	09/09/2015 07:30	09/11/2015 01:22	3316469
FBL	SS-PFHxA-13C2	537	N/A	---		49.0702	50.0	ng/L	98	70 - 130	---	---	1.0	09/09/2015 07:30	09/11/2015 01:22	3316469
FBL	Perfluorobutanesulfonic acid (PFBS)	537	90	---		91.6035	90.0	ng/L	102	50 - 150	---	---	1.0	09/09/2015 07:30	09/11/2015 01:22	3316469
FBL	Perfluoroheptanoic acid (PFHpA)	537	10	---		10.0948	10.0	ng/L	101	50 - 150	---	---	1.0	09/09/2015 07:30	09/11/2015 01:22	3316469
FBL	Perfluorohexanesulfonic acid (PFHxS)	537	30	---		30.3694	30.0	ng/L	101	50 - 150	---	---	1.0	09/09/2015 07:30	09/11/2015 01:22	3316469
FBL	Perfluorononanoic acid (PFNA)	537	20	---		20.2056	20.0	ng/L	101	50 - 150	---	---	1.0	09/09/2015 07:30	09/11/2015 01:22	3316469
FBL	Perfluorooctane sulfonate (PFOS)	537	40	---		40.1695	40.0	ng/L	100	50 - 150	---	---	1.0	09/09/2015 07:30	09/11/2015 01:22	3316469
FBL	Perfluorooctanoic acid (PFOA)	537	20	---		20.4671	20.0	ng/L	102	50 - 150	---	---	1.0	09/09/2015 07:30	09/11/2015 01:22	3316469
FTB	IS-PFOA-13C2	537	N/A	SG1-TB01-150902		6539.83	6074.06	ng/L	108	70 - 140	---	---	1.0	09/09/2015 07:30	09/11/2015 02:55	3315941
FTB	IS-PFOS-13C4	537	N/A	SG1-TB01-150902		5467.52	5143.5	ng/L	106	70 - 140	---	---	1.0	09/09/2015 07:30	09/11/2015 02:55	3315941
FTB	SS-PFDA-13C2	537	N/A	SG1-TB01-150902		98.5646	100	ng/L	99	70 - 130	---	---	1.0	09/09/2015 07:30	09/11/2015 02:55	3315941
FTB	SS-PFHxA-13C2	537	N/A	SG1-TB01-150902		50.1422	50.0	ng/L	100	70 - 130	---	---	1.0	09/09/2015 07:30	09/11/2015 02:55	3315941
FTB	Perfluorobutanesulfonic acid (PFBS)	537	90	SG1-TB01-150902	<	90		ng/L	---	---	---	---	1.0	09/09/2015 07:30	09/11/2015 02:55	3315941
FTB	Perfluoroheptanoic acid (PFHpA)	537	10	SG1-TB01-150902	<	10		ng/L	---	---	---	---	1.0	09/09/2015 07:30	09/11/2015 02:55	3315941
FTB	Perfluorohexanesulfonic acid (PFHxS)	537	30	SG1-TB01-150902	<	30		ng/L	---	---	---	---	1.0	09/09/2015 07:30	09/11/2015 02:55	3315941
FTB	Perfluorononanoic acid (PFNA)	537	20	SG1-TB01-150902	<	20		ng/L	---	---	---	---	1.0	09/09/2015 07:30	09/11/2015 02:55	3315941
FTB	Perfluorooctane sulfonate (PFOS)	537	40	SG1-TB01-150902	<	40		ng/L	---	---	---	---	1.0	09/09/2015 07:30	09/11/2015 02:55	3315941
FTB	Perfluorooctanoic acid (PFOA)	537	20	SG1-TB01-150902	<	20		ng/L	---	---	---	---	1.0	09/09/2015 07:30	09/11/2015 02:55	3315941

QC Summary Report (cont.)

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID #
FTB	IS-PFOA-13C2	537	N/A	SG1-TB02-150903		6894.59	6074.06	ng/L	114	70 - 140	---	---	1.01	09/09/2015 07:30	09/11/2015 03:26	3315956
FTB	IS-PFOS-13C4	537	N/A	SG1-TB02-150903		5676.15	5143.5	ng/L	110	70 - 140	---	---	1.01	09/09/2015 07:30	09/11/2015 03:26	3315956
FTB	SS-PFDA-13C2	537	N/A	SG1-TB02-150903		95.2314	100	ng/L	94	70 - 130	---	---	1.01	09/09/2015 07:30	09/11/2015 03:26	3315956
FTB	SS-PFHxA-13C2	537	N/A	SG1-TB02-150903		48.8902	50.0	ng/L	97	70 - 130	---	---	1.01	09/09/2015 07:30	09/11/2015 03:26	3315956
FTB	Perfluorobutanesulfonic acid (PFBS)	537	90	SG1-TB02-150903	<	90		ng/L	---	---	---	---	1.01	09/09/2015 07:30	09/11/2015 03:26	3315956
FTB	Perfluoroheptanoic acid (PFHpA)	537	10	SG1-TB02-150903	<	10		ng/L	---	---	---	---	1.01	09/09/2015 07:30	09/11/2015 03:26	3315956
FTB	Perfluorohexanesulfonic acid (PFHxS)	537	30	SG1-TB02-150903	<	30		ng/L	---	---	---	---	1.01	09/09/2015 07:30	09/11/2015 03:26	3315956
FTB	Perfluorononanoic acid (PFNA)	537	20	SG1-TB02-150903	<	20		ng/L	---	---	---	---	1.01	09/09/2015 07:30	09/11/2015 03:26	3315956
FTB	Perfluorooctane sulfonate (PFOS)	537	40	SG1-TB02-150903	<	40		ng/L	---	---	---	---	1.01	09/09/2015 07:30	09/11/2015 03:26	3315956
FTB	Perfluorooctanoic acid (PFOA)	537	20	SG1-TB02-150903	<	20		ng/L	---	---	---	---	1.01	09/09/2015 07:30	09/11/2015 03:26	3315956
FS	IS-PFOA-13C2	537	N/A	SG1-RB01-150902		6565.10	6074.06	ng/L	108	70 - 140	---	---	0.95	09/09/2015 07:30	09/11/2015 04:59	3315942
FS	IS-PFOS-13C4	537	N/A	SG1-RB01-150902		5461.52	5143.5	ng/L	106	70 - 140	---	---	0.95	09/09/2015 07:30	09/11/2015 04:59	3315942
FS	SS-PFDA-13C2	537	N/A	SG1-RB01-150902		91.3494	100	ng/L	96	70 - 130	---	---	0.95	09/09/2015 07:30	09/11/2015 04:59	3315942
FS	SS-PFHxA-13C2	537	N/A	SG1-RB01-150902		47.8146	50.0	ng/L	101	70 - 130	---	---	0.95	09/09/2015 07:30	09/11/2015 04:59	3315942
FS	Perfluorobutanesulfonic acid (PFBS)	537	90	SG1-RB01-150902	<	90		ng/L	---	---	---	---	0.95	09/09/2015 07:30	09/11/2015 04:59	3315942
FS	Perfluoroheptanoic acid (PFHpA)	537	10	SG1-RB01-150902	<	10		ng/L	---	---	---	---	0.95	09/09/2015 07:30	09/11/2015 04:59	3315942
FS	Perfluorohexanesulfonic acid (PFHxS)	537	30	SG1-RB01-150902	<	30		ng/L	---	---	---	---	0.95	09/09/2015 07:30	09/11/2015 04:59	3315942
FS	Perfluorononanoic acid (PFNA)	537	20	SG1-RB01-150902	<	20		ng/L	---	---	---	---	0.95	09/09/2015 07:30	09/11/2015 04:59	3315942
FS	Perfluorooctane sulfonate (PFOS)	537	40	SG1-RB01-150902	<	40		ng/L	---	---	---	---	0.95	09/09/2015 07:30	09/11/2015 04:59	3315942
FS	Perfluorooctanoic acid (PFOA)	537	20	SG1-RB01-150902	<	20		ng/L	---	---	---	---	0.95	09/09/2015 07:30	09/11/2015 04:59	3315942
FS	IS-PFOA-13C2	537	N/A	SG1-RB02-150902		6753.77	6074.06	ng/L	111	70 - 140	---	---	0.93	09/09/2015 07:30	09/11/2015 05:30	3315943
FS	IS-PFOS-13C4	537	N/A	SG1-RB02-150902		5405.79	5143.5	ng/L	105	70 - 140	---	---	0.93	09/09/2015 07:30	09/11/2015 05:30	3315943
FS	SS-PFDA-13C2	537	N/A	SG1-RB02-150902		88.2756	100	ng/L	95	70 - 130	---	---	0.93	09/09/2015 07:30	09/11/2015 05:30	3315943
FS	SS-PFHxA-13C2	537	N/A	SG1-RB02-150902		45.3973	50.0	ng/L	98	70 - 130	---	---	0.93	09/09/2015 07:30	09/11/2015 05:30	3315943
FS	Perfluorobutanesulfonic acid (PFBS)	537	90	SG1-RB02-150902	<	90		ng/L	---	---	---	---	0.93	09/09/2015 07:30	09/11/2015 05:30	3315943
FS	Perfluoroheptanoic acid (PFHpA)	537	10	SG1-RB02-150902	<	10		ng/L	---	---	---	---	0.93	09/09/2015 07:30	09/11/2015 05:30	3315943
FS	Perfluorohexanesulfonic acid (PFHxS)	537	30	SG1-RB02-150902	<	30		ng/L	---	---	---	---	0.93	09/09/2015 07:30	09/11/2015 05:30	3315943
FS	Perfluorononanoic acid (PFNA)	537	20	SG1-RB02-150902	<	20		ng/L	---	---	---	---	0.93	09/09/2015 07:30	09/11/2015 05:30	3315943
FS	Perfluorooctane sulfonate (PFOS)	537	40	SG1-RB02-150902	<	40		ng/L	---	---	---	---	0.93	09/09/2015 07:30	09/11/2015 05:30	3315943
FS	Perfluorooctanoic acid (PFOA)	537	20	SG1-RB02-150902	<	20		ng/L	---	---	---	---	0.93	09/09/2015 07:30	09/11/2015 05:30	3315943
FS	IS-PFOA-13C2	537	N/A	SG1-RB03-150902		6658.59	6074.06	ng/L	110	70 - 140	---	---	0.97	09/09/2015 07:30	09/11/2015 06:01	3315944
FS	IS-PFOS-13C4	537	N/A	SG1-RB03-150902		5485.95	5143.5	ng/L	107	70 - 140	---	---	0.97	09/09/2015 07:30	09/11/2015 06:01	3315944
FS	SS-PFDA-13C2	537	N/A	SG1-RB03-150902		91.9972	100	ng/L	95	70 - 130	---	---	0.97	09/09/2015 07:30	09/11/2015 06:01	3315944
FS	SS-PFHxA-13C2	537	N/A	SG1-RB03-150902		47.3578	50.0	ng/L	98	70 - 130	---	---	0.97	09/09/2015 07:30	09/11/2015 06:01	3315944
FS	Perfluorobutanesulfonic acid (PFBS)	537	90	SG1-RB03-150902	<	90		ng/L	---	---	---	---	0.97	09/09/2015 07:30	09/11/2015 06:01	3315944
FS	Perfluoroheptanoic acid (PFHpA)	537	10	SG1-RB03-150902	<	10		ng/L	---	---	---	---	0.97	09/09/2015 07:30	09/11/2015 06:01	3315944
FS	Perfluorohexanesulfonic acid (PFHxS)	537	30	SG1-RB03-150902	<	30		ng/L	---	---	---	---	0.97	09/09/2015 07:30	09/11/2015 06:01	3315944
FS	Perfluorononanoic acid (PFNA)	537	20	SG1-RB03-150902	<	20		ng/L	---	---	---	---	0.97	09/09/2015 07:30	09/11/2015 06:01	3315944
FS	Perfluorooctane sulfonate (PFOS)	537	40	SG1-RB03-150902	<	40		ng/L	---	---	---	---	0.97	09/09/2015 07:30	09/11/2015 06:01	3315944
FS	Perfluorooctanoic acid (PFOA)	537	20	SG1-RB03-150902	<	20		ng/L	---	---	---	---	0.97	09/09/2015 07:30	09/11/2015 06:01	3315944
FS	IS-PFOA-13C2	537	N/A	SG1-RB04-150902		6850.70	6074.06	ng/L	113	70 - 140	---	---	1.0	09/09/2015 07:30	09/11/2015 06:31	3315945

QC Summary Report (cont.)

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID #
FS	IS-PFOS-13C4	537	N/A	SG1-RB04-150902		5528.20	5143.5	ng/L	107	70 - 140	---	---	1.0	09/09/2015 07:30	09/11/2015 06:31	3315945
FS	SS-PFDA-13C2	537	N/A	SG1-RB04-150902		92.7669	100	ng/L	93	70 - 130	---	---	1.0	09/09/2015 07:30	09/11/2015 06:31	3315945
FS	SS-PFHxA-13C2	537	N/A	SG1-RB04-150902		46.9083	50.0	ng/L	94	70 - 130	---	---	1.0	09/09/2015 07:30	09/11/2015 06:31	3315945
FS	Perfluorobutanesulfonic acid (PFBS)	537	90	SG1-RB04-150902	<	90		ng/L	---	---	---	---	1.0	09/09/2015 07:30	09/11/2015 06:31	3315945
FS	Perfluoroheptanoic acid (PFHpA)	537	10	SG1-RB04-150902	<	10		ng/L	---	---	---	---	1.0	09/09/2015 07:30	09/11/2015 06:31	3315945
FS	Perfluorohexanesulfonic acid (PFHxS)	537	30	SG1-RB04-150902	<	30		ng/L	---	---	---	---	1.0	09/09/2015 07:30	09/11/2015 06:31	3315945
FS	Perfluorononanoic acid (PFNA)	537	20	SG1-RB04-150902	<	20		ng/L	---	---	---	---	1.0	09/09/2015 07:30	09/11/2015 06:31	3315945
FS	Perfluorooctane sulfonate (PFOS)	537	40	SG1-RB04-150902	<	40		ng/L	---	---	---	---	1.0	09/09/2015 07:30	09/11/2015 06:31	3315945
FS	Perfluorooctanoic acid (PFOA)	537	20	SG1-RB04-150902	<	20		ng/L	---	---	---	---	1.0	09/09/2015 07:30	09/11/2015 06:31	3315945
FS	IS-PFOA-13C2	537	N/A	SG1-MW02D-150902		5633.08	6074.06	ng/L	93	70 - 140	---	---	0.97	09/09/2015 07:30	09/11/2015 07:02	3315946
FS	IS-PFOA-13C2	537	N/A	SG1-MW02D-150902		5633.08	6074.06	ng/L	93	70 - 140	---	---	9.7	09/09/2015 07:30	09/11/2015 07:02	3315946
FS	IS-PFOA-13C2	537	N/A	SG1-MW02D-150902		5633.08	6074.06	ng/L	93	70 - 140	---	---	97	09/09/2015 07:30	09/11/2015 07:02	3315946
FS	IS-PFOS-13C4	537	N/A	SG1-MW02D-150902		5458.87	5143.5	ng/L	103	70 - 140	---	---	0.97	09/09/2015 07:30	09/11/2015 07:02	3315946
FS	IS-PFOS-13C4	537	N/A	SG1-MW02D-150902		5458.87	5143.5	ng/L	103	70 - 140	---	---	9.7	09/09/2015 07:30	09/11/2015 07:02	3315946
FS	IS-PFOS-13C4	537	N/A	SG1-MW02D-150902		5458.87	5143.5	ng/L	103	70 - 140	---	---	97	09/09/2015 07:30	09/11/2015 07:02	3315946
FS	SS-PFDA-13C2	537	N/A	SG1-MW02D-150902		117.0110	100	ng/L	121	70 - 130	---	---	0.97	09/09/2015 07:30	09/11/2015 07:02	3315946
FS	SS-PFHxA-13C2	537	N/A	SG1-MW02D-150902		59.6464	50.0	ng/L	123	70 - 130	---	---	0.97	09/09/2015 07:30	09/11/2015 07:02	3315946
FS	Perfluorobutanesulfonic acid (PFBS)	537	90	SG1-MW02D-150902	<	90		ng/L	---	---	---	---	0.97	09/09/2015 07:30	09/11/2015 07:02	3315946
FS	Perfluorohexanesulfonic acid (PFHxS)	537	30	SG1-MW02D-150902	<	30		ng/L	---	---	---	---	0.97	09/09/2015 07:30	09/11/2015 07:02	3315946
FS	Perfluorononanoic acid (PFNA)	537	20	SG1-MW02D-150902	<	20		ng/L	---	---	---	---	0.97	09/09/2015 07:30	09/11/2015 07:02	3315946
FS	Perfluorooctane sulfonate (PFOS)	537	40	SG1-MW02D-150902	<	40		ng/L	---	---	---	---	0.97	09/09/2015 07:30	09/11/2015 07:02	3315946
FS	IS-PFOA-13C2	537	N/A	SG1-RB05-150902		7059.70	6074.06	ng/L	116	70 - 140	---	---	0.99	09/09/2015 07:30	09/11/2015 07:33	3315947
FS	IS-PFOS-13C4	537	N/A	SG1-RB05-150902		5733.44	5143.5	ng/L	111	70 - 140	---	---	0.99	09/09/2015 07:30	09/11/2015 07:33	3315947
FS	SS-PFDA-13C2	537	N/A	SG1-RB05-150902		96.1442	100	ng/L	97	70 - 130	---	---	0.99	09/09/2015 07:30	09/11/2015 07:33	3315947
FS	SS-PFHxA-13C2	537	N/A	SG1-RB05-150902		54.7729	50.0	ng/L	111	70 - 130	---	---	0.99	09/09/2015 07:30	09/11/2015 07:33	3315947
FS	Perfluorobutanesulfonic acid (PFBS)	537	90	SG1-RB05-150902	<	90		ng/L	---	---	---	---	0.99	09/09/2015 07:30	09/11/2015 07:33	3315947
FS	Perfluoroheptanoic acid (PFHpA)	537	10	SG1-RB05-150902	<	10		ng/L	---	---	---	---	0.99	09/09/2015 07:30	09/11/2015 07:33	3315947
FS	Perfluorohexanesulfonic acid (PFHxS)	537	30	SG1-RB05-150902	<	30		ng/L	---	---	---	---	0.99	09/09/2015 07:30	09/11/2015 07:33	3315947
FS	Perfluorononanoic acid (PFNA)	537	20	SG1-RB05-150902	<	20		ng/L	---	---	---	---	0.99	09/09/2015 07:30	09/11/2015 07:33	3315947
FS	Perfluorooctane sulfonate (PFOS)	537	40	SG1-RB05-150902	<	40		ng/L	---	---	---	---	0.99	09/09/2015 07:30	09/11/2015 07:33	3315947
FS	Perfluorooctanoic acid (PFOA)	537	20	SG1-RB05-150902	<	20		ng/L	---	---	---	---	0.99	09/09/2015 07:30	09/11/2015 07:33	3315947
FS	IS-PFOA-13C2	537	N/A	SG1-RB06-150902		6671.56	6074.06	ng/L	110	70 - 140	---	---	0.99	09/09/2015 07:30	09/11/2015 08:04	3315948
FS	IS-PFOS-13C4	537	N/A	SG1-RB06-150902		5459.51	5143.5	ng/L	106	70 - 140	---	---	0.99	09/09/2015 07:30	09/11/2015 08:04	3315948
FS	SS-PFDA-13C2	537	N/A	SG1-RB06-150902		97.6654	100	ng/L	99	70 - 130	---	---	0.99	09/09/2015 07:30	09/11/2015 08:04	3315948
FS	SS-PFHxA-13C2	537	N/A	SG1-RB06-150902		51.3371	50.0	ng/L	104	70 - 130	---	---	0.99	09/09/2015 07:30	09/11/2015 08:04	3315948
FS	Perfluorobutanesulfonic acid (PFBS)	537	90	SG1-RB06-150902	<	90		ng/L	---	---	---	---	0.99	09/09/2015 07:30	09/11/2015 08:04	3315948
FS	Perfluoroheptanoic acid (PFHpA)	537	10	SG1-RB06-150902	<	10		ng/L	---	---	---	---	0.99	09/09/2015 07:30	09/11/2015 08:04	3315948
FS	Perfluorohexanesulfonic acid (PFHxS)	537	30	SG1-RB06-150902	<	30		ng/L	---	---	---	---	0.99	09/09/2015 07:30	09/11/2015 08:04	3315948
FS	Perfluorononanoic acid (PFNA)	537	20	SG1-RB06-150902	<	20		ng/L	---	---	---	---	0.99	09/09/2015 07:30	09/11/2015 08:04	3315948
FS	Perfluorooctane sulfonate (PFOS)	537	40	SG1-RB06-150902	<	40		ng/L	---	---	---	---	0.99	09/09/2015 07:30	09/11/2015 08:04	3315948
FS	Perfluorooctanoic acid (PFOA)	537	20	SG1-RB06-150902	<	20		ng/L	---	---	---	---	0.99	09/09/2015 07:30	09/11/2015 08:04	3315948

QC Summary Report (cont.)

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID #
FS	IS-PFOA-13C2	537	N/A	SG1-FB01-150902		6819.73	6074.06	ng/L	112	70 - 140	---	---	0.98	09/09/2015 07:30	09/11/2015 08:35	3315949
FS	IS-PFOS-13C4	537	N/A	SG1-FB01-150902		5671.17	5143.5	ng/L	110	70 - 140	---	---	0.98	09/09/2015 07:30	09/11/2015 08:35	3315949
FS	SS-PFDA-13C2	537	N/A	SG1-FB01-150902		87.2380	100	ng/L	89	70 - 130	---	---	0.98	09/09/2015 07:30	09/11/2015 08:35	3315949
FS	SS-PFHxA-13C2	537	N/A	SG1-FB01-150902		47.3226	50.0	ng/L	97	70 - 130	---	---	0.98	09/09/2015 07:30	09/11/2015 08:35	3315949
FS	Perfluorobutanesulfonic acid (PFBS)	537	90	SG1-FB01-150902	<	90		ng/L	---	---	---	---	0.98	09/09/2015 07:30	09/11/2015 08:35	3315949
FS	Perfluoroheptanoic acid (PFHpA)	537	10	SG1-FB01-150902	<	10		ng/L	---	---	---	---	0.98	09/09/2015 07:30	09/11/2015 08:35	3315949
FS	Perfluorohexanesulfonic acid (PFHxS)	537	30	SG1-FB01-150902	<	30		ng/L	---	---	---	---	0.98	09/09/2015 07:30	09/11/2015 08:35	3315949
FS	Perfluorononanoic acid (PFNA)	537	20	SG1-FB01-150902	<	20		ng/L	---	---	---	---	0.98	09/09/2015 07:30	09/11/2015 08:35	3315949
FS	Perfluorooctane sulfonate (PFOS)	537	40	SG1-FB01-150902	<	40		ng/L	---	---	---	---	0.98	09/09/2015 07:30	09/11/2015 08:35	3315949
FS	Perfluorooctanoic acid (PFOA)	537	20	SG1-FB01-150902	<	20		ng/L	---	---	---	---	0.98	09/09/2015 07:30	09/11/2015 08:35	3315949
CCM	IS-PFOA-13C2	537	N/A	---		6500.01	6500.01	ng/L	100	70 - 140	---	---	1.0	09/09/2015 09:56	09/11/2015 09:06	3316484
CCM	IS-PFOS-13C4	537	N/A	---		5385.51	5385.51	ng/L	100	70 - 140	---	---	1.0	09/09/2015 09:56	09/11/2015 09:06	3316484
CCM	SS-PFDA-13C2	537	N/A	---		98.0876	100	ng/L	98	70 - 130	---	---	1.0	09/09/2015 09:56	09/11/2015 09:06	3316484
CCM	SS-PFHxA-13C2	537	N/A	---		52.3620	50.0	ng/L	105	70 - 130	---	---	1.0	09/09/2015 09:56	09/11/2015 09:06	3316484
CCM	Perfluorobutanesulfonic acid (PFBS)	537	90	---		712.1910	675	ng/L	106	70 - 130	---	---	1.0	09/09/2015 09:56	09/11/2015 09:06	3316484
CCM	Perfluoroheptanoic acid (PFHpA)	537	10	---		78.7955	75.0	ng/L	105	70 - 130	---	---	1.0	09/09/2015 09:56	09/11/2015 09:06	3316484
CCM	Perfluorohexanesulfonic acid (PFHxS)	537	30	---		229.6540	225	ng/L	102	70 - 130	---	---	1.0	09/09/2015 09:56	09/11/2015 09:06	3316484
CCM	Perfluorononanoic acid (PFNA)	537	20	---		154.0200	150	ng/L	103	70 - 130	---	---	1.0	09/09/2015 09:56	09/11/2015 09:06	3316484
CCM	Perfluorooctane sulfonate (PFOS)	537	40	---		300.1330	300	ng/L	100	70 - 130	---	---	1.0	09/09/2015 09:56	09/11/2015 09:06	3316484
CCM	Perfluorooctanoic acid (PFOA)	537	20	---		152.1490	150	ng/L	101	70 - 130	---	---	1.0	09/09/2015 09:56	09/11/2015 09:06	3316484
FS	IS-PFOA-13C2	537	N/A	SG1-MW02S-150902		6585.15	6500.01	ng/L	101	70 - 140	---	---	1.01	09/09/2015 07:30	09/11/2015 10:08	3315950
FS	IS-PFOA-13C2	537	N/A	SG1-MW02S-150902		6585.15	6500.01	ng/L	101	70 - 140	---	---	10.1	09/09/2015 07:30	09/11/2015 10:08	3315950
FS	IS-PFOS-13C4	537	N/A	SG1-MW02S-150902		5611.14	5385.51	ng/L	104	70 - 140	---	---	1.01	09/09/2015 07:30	09/11/2015 10:08	3315950
FS	IS-PFOS-13C4	537	N/A	SG1-MW02S-150902		5611.14	5385.51	ng/L	104	70 - 140	---	---	10.1	09/09/2015 07:30	09/11/2015 10:08	3315950
FS	SS-PFDA-13C2	537	N/A	SG1-MW02S-150902		99.8089	100	ng/L	99	70 - 130	---	---	1.01	09/09/2015 07:30	09/11/2015 10:08	3315950
FS	SS-PFHxA-13C2	537	N/A	SG1-MW02S-150902		53.2177	50.0	ng/L	105	70 - 130	---	---	1.01	09/09/2015 07:30	09/11/2015 10:08	3315950
FS	Perfluorobutanesulfonic acid (PFBS)	537	90	SG1-MW02S-150902	<	90		ng/L	---	---	---	---	1.01	09/09/2015 07:30	09/11/2015 10:08	3315950
FS	Perfluoroheptanoic acid (PFHpA)	537	10	SG1-MW02S-150902		20		ng/L	---	---	---	---	1.01	09/09/2015 07:30	09/11/2015 10:08	3315950
FS	Perfluorohexanesulfonic acid (PFHxS)	537	30	SG1-MW02S-150902	<	30		ng/L	---	---	---	---	1.01	09/09/2015 07:30	09/11/2015 10:08	3315950
FS	Perfluorononanoic acid (PFNA)	537	20	SG1-MW02S-150902	<	20		ng/L	---	---	---	---	1.01	09/09/2015 07:30	09/11/2015 10:08	3315950
FS	Perfluorooctane sulfonate (PFOS)	537	40	SG1-MW02S-150902	<	40		ng/L	---	---	---	---	1.01	09/09/2015 07:30	09/11/2015 10:08	3315950
FS	IS-PFOA-13C2	537	N/A	SG1-MW01D-150903		7390.33	6500.01	ng/L	114	70 - 140	---	---	1.03	09/09/2015 07:30	09/11/2015 10:39	3315951
FS	IS-PFOS-13C4	537	N/A	SG1-MW01D-150903		5931.02	5385.51	ng/L	110	70 - 140	---	---	1.03	09/09/2015 07:30	09/11/2015 10:39	3315951
FS	SS-PFDA-13C2	537	N/A	SG1-MW01D-150903		89.8131	100	ng/L	87	70 - 130	---	---	1.03	09/09/2015 07:30	09/11/2015 10:39	3315951
FS	SS-PFHxA-13C2	537	N/A	SG1-MW01D-150903		48.2862	50.0	ng/L	94	70 - 130	---	---	1.03	09/09/2015 07:30	09/11/2015 10:39	3315951
FS	Perfluorobutanesulfonic acid (PFBS)	537	90	SG1-MW01D-150903	<	90		ng/L	---	---	---	---	1.03	09/09/2015 07:30	09/11/2015 10:39	3315951
FS	Perfluoroheptanoic acid (PFHpA)	537	10	SG1-MW01D-150903	<	10		ng/L	---	---	---	---	1.03	09/09/2015 07:30	09/11/2015 10:39	3315951
FS	Perfluorohexanesulfonic acid (PFHxS)	537	30	SG1-MW01D-150903	<	30		ng/L	---	---	---	---	1.03	09/09/2015 07:30	09/11/2015 10:39	3315951
FS	Perfluorononanoic acid (PFNA)	537	20	SG1-MW01D-150903	<	20		ng/L	---	---	---	---	1.03	09/09/2015 07:30	09/11/2015 10:39	3315951
FS	Perfluorooctane sulfonate (PFOS)	537	40	SG1-MW01D-150903	<	40		ng/L	---	---	---	---	1.03	09/09/2015 07:30	09/11/2015 10:39	3315951
FS	Perfluorooctanoic acid (PFOA)	537	20	SG1-MW01D-150903	<	20		ng/L	---	---	---	---	1.03	09/09/2015 07:30	09/11/2015 10:39	3315951

QC Summary Report (cont.)

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID #
FS	IS-PFOA-13C2	537	N/A	SG1-MW01S-150903		6757.22	6500.01	ng/L	104	70 - 140	---	---	1.03	09/09/2015 07:30	09/11/2015 11:10	3315952
FS	IS-PFOS-13C4	537	N/A	SG1-MW01S-150903		5488.58	5385.51	ng/L	102	70 - 140	---	---	1.03	09/09/2015 07:30	09/11/2015 11:10	3315952
FS	SS-PFDA-13C2	537	N/A	SG1-MW01S-150903		99.6958	100	ng/L	97	70 - 130	---	---	1.03	09/09/2015 07:30	09/11/2015 11:10	3315952
FS	SS-PFHxA-13C2	537	N/A	SG1-MW01S-150903		53.4706	50.0	ng/L	104	70 - 130	---	---	1.03	09/09/2015 07:30	09/11/2015 11:10	3315952
FS	Perfluorobutanesulfonic acid (PFBS)	537	90	SG1-MW01S-150903	<	90		ng/L	---	---	---	---	1.03	09/09/2015 07:30	09/11/2015 11:10	3315952
FS	Perfluoroheptanoic acid (PFHpA)	537	10	SG1-MW01S-150903		20		ng/L	---	---	---	---	1.03	09/09/2015 07:30	09/11/2015 11:10	3315952
FS	Perfluorohexanesulfonic acid (PFHxS)	537	30	SG1-MW01S-150903	<	30		ng/L	---	---	---	---	1.03	09/09/2015 07:30	09/11/2015 11:10	3315952
FS	Perfluorononanoic acid (PFNA)	537	20	SG1-MW01S-150903	<	20		ng/L	---	---	---	---	1.03	09/09/2015 07:30	09/11/2015 11:10	3315952
FS	Perfluorooctane sulfonate (PFOS)	537	40	SG1-MW01S-150903	<	40		ng/L	---	---	---	---	1.03	09/09/2015 07:30	09/11/2015 11:10	3315952
FS	Perfluorooctanoic acid (PFOA)	537	20	SG1-MW01S-150903	<	20		ng/L	---	---	---	---	1.03	09/09/2015 07:30	09/11/2015 11:10	3315952
FS	IS-PFOA-13C2	537	N/A	SG1-MW05S-150903		6685.73	6500.01	ng/L	103	70 - 140	---	---	1.02	09/09/2015 07:30	09/11/2015 11:41	3315953
FS	IS-PFOA-13C2	537	N/A	SG1-MW05S-150903		6685.73	6500.01	ng/L	103	70 - 140	---	---	10.2	09/09/2015 07:30	09/11/2015 11:41	3315953
FS	IS-PFOS-13C4	537	N/A	SG1-MW05S-150903		5784.61	5385.51	ng/L	107	70 - 140	---	---	1.02	09/09/2015 07:30	09/11/2015 11:41	3315953
FS	IS-PFOS-13C4	537	N/A	SG1-MW05S-150903		5784.61	5385.51	ng/L	107	70 - 140	---	---	10.2	09/09/2015 07:30	09/11/2015 11:41	3315953
FS	SS-PFDA-13C2	537	N/A	SG1-MW05S-150903		98.3674	100	ng/L	96	70 - 130	---	---	1.02	09/09/2015 07:30	09/11/2015 11:41	3315953
FS	SS-PFHxA-13C2	537	N/A	SG1-MW05S-150903		52.2571	50.0	ng/L	102	70 - 130	---	---	1.02	09/09/2015 07:30	09/11/2015 11:41	3315953
FS	Perfluorobutanesulfonic acid (PFBS)	537	90	SG1-MW05S-150903	<	90		ng/L	---	---	---	---	1.02	09/09/2015 07:30	09/11/2015 11:41	3315953
FS	Perfluoroheptanoic acid (PFHpA)	537	10	SG1-MW05S-150903		10		ng/L	---	---	---	---	1.02	09/09/2015 07:30	09/11/2015 11:41	3315953
FS	Perfluorohexanesulfonic acid (PFHxS)	537	30	SG1-MW05S-150903	<	30		ng/L	---	---	---	---	1.02	09/09/2015 07:30	09/11/2015 11:41	3315953
FS	Perfluorononanoic acid (PFNA)	537	20	SG1-MW05S-150903	<	20		ng/L	---	---	---	---	1.02	09/09/2015 07:30	09/11/2015 11:41	3315953
FS	Perfluorooctane sulfonate (PFOS)	537	40	SG1-MW05S-150903	<	40		ng/L	---	---	---	---	1.02	09/09/2015 07:30	09/11/2015 11:41	3315953
LFSML	IS-PFOA-13C2	537	N/A	SG1-MW05S-150903		6309.11	6500.01	ng/L	97	70 - 140	---	---	1.0	09/09/2015 07:30	09/11/2015 12:12	3315954
LFSML	IS-PFOS-13C4	537	N/A	SG1-MW05S-150903		5449.82	5385.51	ng/L	101	70 - 140	---	---	1.0	09/09/2015 07:30	09/11/2015 12:12	3315954
LFSML	SS-PFDA-13C2	537	N/A	SG1-MW05S-150903		98.5926	100	ng/L	99	70 - 130	---	---	1.0	09/09/2015 07:30	09/11/2015 12:12	3315954
LFSML	SS-PFHxA-13C2	537	N/A	SG1-MW05S-150903		51.2521	50.0	ng/L	103	70 - 130	---	---	1.0	09/09/2015 07:30	09/11/2015 12:12	3315954
LFSML	Perfluorobutanesulfonic acid (PFBS)	537	90	SG1-MW05S-150903		97.2873	90.0	ng/L	108	50 - 150	---	---	1.0	09/09/2015 07:30	09/11/2015 12:12	3315954
LFSML	Perfluoroheptanoic acid (PFHpA)	537	10	SG1-MW05S-150903		24.6431	23.6966	ng/L	109	50 - 150	---	---	1.0	09/09/2015 07:30	09/11/2015 12:12	3315954
LFSML	Perfluorohexanesulfonic acid (PFHxS)	537	30	SG1-MW05S-150903		31.3810	30.0	ng/L	105	50 - 150	---	---	1.0	09/09/2015 07:30	09/11/2015 12:12	3315954
LFSML	Perfluorononanoic acid (PFNA)	537	20	SG1-MW05S-150903		21.9155	20.0	ng/L	110	50 - 150	---	---	1.0	09/09/2015 07:30	09/11/2015 12:12	3315954
LFSML	Perfluorooctane sulfonate (PFOS)	537	40	SG1-MW05S-150903		40.2077	40.0	ng/L	101	50 - 150	---	---	1.0	09/09/2015 07:30	09/11/2015 12:12	3315954
LFSMDL	IS-PFOA-13C2	537	N/A	SG1-MW05S-150903		6316.68	6500.01	ng/L	97	70 - 140	---	---	1.0	09/09/2015 07:30	09/11/2015 12:42	3315955
LFSMDL	IS-PFOS-13C4	537	N/A	SG1-MW05S-150903		5416.79	5385.51	ng/L	101	70 - 140	---	---	1.0	09/09/2015 07:30	09/11/2015 12:42	3315955
LFSMDL	SS-PFDA-13C2	537	N/A	SG1-MW05S-150903		97.6221	100	ng/L	98	70 - 130	---	---	1.0	09/09/2015 07:30	09/11/2015 12:42	3315955
LFSMDL	SS-PFHxA-13C2	537	N/A	SG1-MW05S-150903		49.9284	50.0	ng/L	100	70 - 130	---	---	1.0	09/09/2015 07:30	09/11/2015 12:42	3315955
LFSMDL	Perfluorobutanesulfonic acid (PFBS)	537	90	SG1-MW05S-150903		99.6473	90.0	ng/L	111	50 - 150	2.4	---	1.0	09/09/2015 07:30	09/11/2015 12:42	3315955
LFSMDL	Perfluoroheptanoic acid (PFHpA)	537	10	SG1-MW05S-150903		24.4612	23.6966	ng/L	108	50 - 150	0.7	---	1.0	09/09/2015 07:30	09/11/2015 12:42	3315955
LFSMDL	Perfluorohexanesulfonic acid (PFHxS)	537	30	SG1-MW05S-150903		32.0943	30.0	ng/L	107	50 - 150	2.2	---	1.0	09/09/2015 07:30	09/11/2015 12:42	3315955
LFSMDL	Perfluorononanoic acid (PFNA)	537	20	SG1-MW05S-150903		22.0522	20.0	ng/L	110	50 - 150	0.6	---	1.0	09/09/2015 07:30	09/11/2015 12:42	3315955
LFSMDL	Perfluorooctane sulfonate (PFOS)	537	40	SG1-MW05S-150903		41.6968	40.0	ng/L	104	50 - 150	3.6	---	1.0	09/09/2015 07:30	09/11/2015 12:42	3315955
FS	IS-PFOA-13C2	537	N/A	SG1-MW04S-150903		6170.11	6500.01	ng/L	95	70 - 140	---	---	1.0	09/09/2015 07:30	09/11/2015 13:13	3315957
FS	IS-PFOA-13C2	537	N/A	SG1-MW04S-150903		6170.11	6500.01	ng/L	95	70 - 140	---	---	10	09/09/2015 07:30	09/11/2015 13:13	3315957

QC Summary Report (cont.)

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID #
FS	IS-PFOS-13C4	537	N/A	SG1-MW04S-150903		5592.37	5385.51	ng/L	104	70 - 140	---	---	1.0	09/09/2015 07:30	09/11/2015 13:13	3315957
FS	IS-PFOS-13C4	537	N/A	SG1-MW04S-150903		5592.37	5385.51	ng/L	104	70 - 140	---	---	10	09/09/2015 07:30	09/11/2015 13:13	3315957
FS	SS-PFDA-13C2	537	N/A	SG1-MW04S-150903		102.6140	100	ng/L	103	70 - 130	---	---	1.0	09/09/2015 07:30	09/11/2015 13:13	3315957
FS	SS-PFHxA-13C2	537	N/A	SG1-MW04S-150903		54.1138	50.0	ng/L	108	70 - 130	---	---	1.0	09/09/2015 07:30	09/11/2015 13:13	3315957
FS	Perfluorobutanesulfonic acid (PFBS)	537	90	SG1-MW04S-150903	<	90		ng/L	---	---	---	---	1.0	09/09/2015 07:30	09/11/2015 13:13	3315957
FS	Perfluoroheptanoic acid (PFHpA)	537	10	SG1-MW04S-150903		40		ng/L	---	---	---	---	1.0	09/09/2015 07:30	09/11/2015 13:13	3315957
FS	Perfluorohexanesulfonic acid (PFHxS)	537	30	SG1-MW04S-150903	<	30		ng/L	---	---	---	---	1.0	09/09/2015 07:30	09/11/2015 13:13	3315957
FS	Perfluorononanoic acid (PFNA)	537	20	SG1-MW04S-150903	<	20		ng/L	---	---	---	---	1.0	09/09/2015 07:30	09/11/2015 13:13	3315957
FS	Perfluorooctane sulfonate (PFOS)	537	40	SG1-MW04S-150903	<	40		ng/L	---	---	---	---	1.0	09/09/2015 07:30	09/11/2015 13:13	3315957
FS	IS-PFOA-13C2	537	N/A	SG1-DS01-150903		5842.25	6252.25	ng/L	90	70 - 140	---	---	0.99	09/09/2015 07:30	09/11/2015 13:44	3315958
FS	IS-PFOA-13C2	537	N/A	SG1-DS01-150903		5842.25	6252.25	ng/L	90	70 - 140	---	---	19.8	09/09/2015 07:30	09/11/2015 13:44	3315958
FS	IS-PFOS-13C4	537	N/A	SG1-DS01-150903		5382.74	5283.19	ng/L	100	70 - 140	---	---	0.99	09/09/2015 07:30	09/11/2015 13:44	3315958
FS	IS-PFOS-13C4	537	N/A	SG1-DS01-150903		5382.74	5283.19	ng/L	100	70 - 140	---	---	19.8	09/09/2015 07:30	09/11/2015 13:44	3315958
FS	SS-PFDA-13C2	537	N/A	SG1-DS01-150903		105.3310	100	ng/L	106	70 - 130	---	---	0.99	09/09/2015 07:30	09/11/2015 13:44	3315958
FS	SS-PFHxA-13C2	537	N/A	SG1-DS01-150903		54.6863	50.0	ng/L	110	70 - 130	---	---	0.99	09/09/2015 07:30	09/11/2015 13:44	3315958
FS	Perfluorobutanesulfonic acid (PFBS)	537	90	SG1-DS01-150903	<	90		ng/L	---	---	---	---	0.99	09/09/2015 07:30	09/11/2015 13:44	3315958
FS	Perfluoroheptanoic acid (PFHpA)	537	10	SG1-DS01-150903		130		ng/L	---	---	---	---	0.99	09/09/2015 07:30	09/11/2015 13:44	3315958
FS	Perfluorohexanesulfonic acid (PFHxS)	537	30	SG1-DS01-150903	<	30		ng/L	---	---	---	---	0.99	09/09/2015 07:30	09/11/2015 13:44	3315958
FS	Perfluorononanoic acid (PFNA)	537	20	SG1-DS01-150903	<	20		ng/L	---	---	---	---	0.99	09/09/2015 07:30	09/11/2015 13:44	3315958
FS	Perfluorooctane sulfonate (PFOS)	537	40	SG1-DS01-150903	<	40		ng/L	---	---	---	---	0.99	09/09/2015 07:30	09/11/2015 13:44	3315958
FS	IS-PFOA-13C2	537	N/A	SG1-MW03S-150903		5673.23	6252.25	ng/L	87	70 - 140	---	---	0.97	09/09/2015 07:30	09/11/2015 14:15	3315959
FS	IS-PFOA-13C2	537	N/A	SG1-MW03S-150903		5673.23	6252.25	ng/L	87	70 - 140	---	---	48.5	09/09/2015 07:30	09/11/2015 14:15	3315959
FS	IS-PFOS-13C4	537	N/A	SG1-MW03S-150903		5549.39	5283.19	ng/L	103	70 - 140	---	---	0.97	09/09/2015 07:30	09/11/2015 14:15	3315959
FS	IS-PFOS-13C4	537	N/A	SG1-MW03S-150903		5549.39	5283.19	ng/L	103	70 - 140	---	---	48.5	09/09/2015 07:30	09/11/2015 14:15	3315959
FS	SS-PFDA-13C2	537	N/A	SG1-MW03S-150903		109.3540	100	ng/L	113	70 - 130	---	---	0.97	09/09/2015 07:30	09/11/2015 14:15	3315959
FS	SS-PFHxA-13C2	537	N/A	SG1-MW03S-150903		56.5407	50.0	ng/L	117	70 - 130	---	---	0.97	09/09/2015 07:30	09/11/2015 14:15	3315959
FS	Perfluorobutanesulfonic acid (PFBS)	537	90	SG1-MW03S-150903	<	90		ng/L	---	---	---	---	0.97	09/09/2015 07:30	09/11/2015 14:15	3315959
FS	Perfluoroheptanoic acid (PFHpA)	537	10	SG1-MW03S-150903		130		ng/L	---	---	---	---	0.97	09/09/2015 07:30	09/11/2015 14:15	3315959
FS	Perfluorohexanesulfonic acid (PFHxS)	537	30	SG1-MW03S-150903	<	30		ng/L	---	---	---	---	0.97	09/09/2015 07:30	09/11/2015 14:15	3315959
FS	Perfluorononanoic acid (PFNA)	537	20	SG1-MW03S-150903	<	20		ng/L	---	---	---	---	0.97	09/09/2015 07:30	09/11/2015 14:15	3315959
FS	Perfluorooctane sulfonate (PFOS)	537	40	SG1-MW03S-150903	<	40		ng/L	---	---	---	---	0.97	09/09/2015 07:30	09/11/2015 14:15	3315959
FS	Perfluorooctanoic acid (PFOA)	537	20	SG1-MW02S-150902		1100		ng/L	---	---	---	---	10.1	09/09/2015 07:30	09/11/2015 14:48	3315950
FS	Perfluorooctanoic acid (PFOA)	537	20	SG1-MW05S-150903		580		ng/L	---	---	---	---	10.2	09/09/2015 07:30	09/11/2015 15:19	3315953
FS	Perfluorooctanoic acid (PFOA)	537	20	SG1-MW04S-150903		1700		ng/L	---	---	---	---	10	09/09/2015 07:30	09/11/2015 15:50	3315957
CCH	IS-PFOA-13C2	537	N/A	---		6252.25	6252.25	ng/L	100	70 - 140	---	---	1.0	09/09/2015 09:56	09/11/2015 16:21	3316485
CCH	IS-PFOS-13C4	537	N/A	---		5283.19	5283.19	ng/L	100	70 - 140	---	---	1.0	09/09/2015 09:56	09/11/2015 16:21	3316485
CCH	SS-PFDA-13C2	537	N/A	---		102.1540	100	ng/L	102	70 - 130	---	---	1.0	09/09/2015 09:56	09/11/2015 16:21	3316485
CCH	SS-PFHxA-13C2	537	N/A	---		53.1639	50.0	ng/L	106	70 - 130	---	---	1.0	09/09/2015 09:56	09/11/2015 16:21	3316485
CCH	Perfluorobutanesulfonic acid (PFBS)	537	90	---		1154.6400	1125	ng/L	103	70 - 130	---	---	1.0	09/09/2015 09:56	09/11/2015 16:21	3316485
CCH	Perfluoroheptanoic acid (PFHpA)	537	10	---		129.0860	125	ng/L	103	70 - 130	---	---	1.0	09/09/2015 09:56	09/11/2015 16:21	3316485
CCH	Perfluorohexanesulfonic acid (PFHxS)	537	30	---		372.9960	375	ng/L	99	70 - 130	---	---	1.0	09/09/2015 09:56	09/11/2015 16:21	3316485

QC Summary Report (cont.)

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID #
CCH	Perfluorononanoic acid (PFNA)	537	20	---		254.8410	250	ng/L	102	70 - 130	---	---	1.0	09/09/2015 09:56	09/11/2015 16:21	3316485
CCH	Perfluorooctane sulfonate (PFOS)	537	40	---		498.1890	500	ng/L	100	70 - 130	---	---	1.0	09/09/2015 09:56	09/11/2015 16:21	3316485
CCH	Perfluorooctanoic acid (PFOA)	537	20	---		251.3240	250	ng/L	101	70 - 130	---	---	1.0	09/09/2015 09:56	09/11/2015 16:21	3316485
FS	Perfluoroheptanoic acid (PFHpA)	537	10	SG1-MW02D-150902		340		ng/L	---	---	---	---	9.7	09/09/2015 07:30	09/11/2015 16:51	3315946
FS	Perfluorooctanoic acid (PFOA)	537	20	SG1-MW03S-150903		5300		ng/L	---	---	---	---	48.5	09/09/2015 07:30	09/11/2015 17:22	3315959
FS	Perfluorooctanoic acid (PFOA)	537	20	SG1-DS01-150903		4200		ng/L	---	---	---	---	19.8	09/09/2015 07:30	09/11/2015 17:53	3315958
FS	Perfluorooctanoic acid (PFOA)	537	20	SG1-MW02D-150902		18000		ng/L	---	---	---	---	97	09/09/2015 07:30	09/11/2015 18:24	3315946
CCM	IS-PFOA-13C2	537	N/A	---		6659.52	6659.52	ng/L	100	70 - 140	---	---	1.0	09/09/2015 09:56	09/11/2015 18:55	3319308
CCM	IS-PFOS-13C4	537	N/A	---		5559.78	5559.78	ng/L	100	70 - 140	---	---	1.0	09/09/2015 09:56	09/11/2015 18:55	3319308
CCM	SS-PFDA-13C2	537	N/A	---		99.4288	100	ng/L	99	70 - 130	---	---	1.0	09/09/2015 09:56	09/11/2015 18:55	3319308
CCM	SS-PFHxA-13C2	537	N/A	---		52.0463	50.0	ng/L	104	70 - 130	---	---	1.0	09/09/2015 09:56	09/11/2015 18:55	3319308
CCM	Perfluorobutanesulfonic acid (PFBS)	537	90	---		712.9780	675	ng/L	106	70 - 130	---	---	1.0	09/09/2015 09:56	09/11/2015 18:55	3319308
CCM	Perfluoroheptanoic acid (PFHpA)	537	10	---		78.9467	75.0	ng/L	105	70 - 130	---	---	1.0	09/09/2015 09:56	09/11/2015 18:55	3319308
CCM	Perfluorohexanesulfonic acid (PFHxS)	537	30	---		227.4080	225	ng/L	101	70 - 130	---	---	1.0	09/09/2015 09:56	09/11/2015 18:55	3319308
CCM	Perfluorononanoic acid (PFNA)	537	20	---		154.3280	150	ng/L	103	70 - 130	---	---	1.0	09/09/2015 09:56	09/11/2015 18:55	3319308
CCM	Perfluorooctane sulfonate (PFOS)	537	40	---		304.7700	300	ng/L	102	70 - 130	---	---	1.0	09/09/2015 09:56	09/11/2015 18:55	3319308
CCM	Perfluorooctanoic acid (PFOA)	537	20	---		151.0350	150	ng/L	101	70 - 130	---	---	1.0	09/09/2015 09:56	09/11/2015 18:55	3319308
LRB	IS-PFOA-13C2	537	N/A	---		6374.36	6659.52	ng/L	96	70 - 140	---	---	1.0	09/11/2015 09:00	09/11/2015 19:26	3319172
LRB	IS-PFOS-13C4	537	N/A	---		5215.01	5559.78	ng/L	94	70 - 140	---	---	1.0	09/11/2015 09:00	09/11/2015 19:26	3319172
LRB	SS-PFDA-13C2	537	N/A	---		90.3777	100	ng/L	90	70 - 130	---	---	1.0	09/11/2015 09:00	09/11/2015 19:26	3319172
LRB	SS-PFHxA-13C2	537	N/A	---		46.9784	50.0	ng/L	94	70 - 130	---	---	1.0	09/11/2015 09:00	09/11/2015 19:26	3319172
LRB	Perfluorobutanesulfonic acid (PFBS)	537	90	---	<	90		ng/L	---	---	---	---	1.0	09/11/2015 09:00	09/11/2015 19:26	3319172
LRB	Perfluoroheptanoic acid (PFHpA)	537	10	---	<	10		ng/L	---	---	---	---	1.0	09/11/2015 09:00	09/11/2015 19:26	3319172
LRB	Perfluorohexanesulfonic acid (PFHxS)	537	30	---	<	30		ng/L	---	---	---	---	1.0	09/11/2015 09:00	09/11/2015 19:26	3319172
LRB	Perfluorononanoic acid (PFNA)	537	20	---	<	20		ng/L	---	---	---	---	1.0	09/11/2015 09:00	09/11/2015 19:26	3319172
LRB	Perfluorooctane sulfonate (PFOS)	537	40	---	<	40		ng/L	---	---	---	---	1.0	09/11/2015 09:00	09/11/2015 19:26	3319172
LRB	Perfluorooctanoic acid (PFOA)	537	20	---	<	20		ng/L	---	---	---	---	1.0	09/11/2015 09:00	09/11/2015 19:26	3319172

Sample Type Key

Type (Abbr.)	Sample Type	Type (Abbr.)	Sample Type
CCH	CCH		
CCL	CCL		
CCM	CCM		
FBL	FBL		
FS	FS		
FTB	FTB		
LFSMDL	LFSMDL		
LFSML	LFSML		
LRB	LRB		

Maxxam

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CHAIN OF CUSTODY RECORD

Page 1 of 1

INVOICE TO:	REPORT TO:		PROJECT INFORMATION:	Laboratory Use Only:	
Company Name: #23980 Ramboll Environ	Company Name: Ramboll Environ	(Y Mel Burnside)	Quotation #:	Maxxam Job #:	Bottle Order #:
Attention: ~~Kirk Malone~~ Jason Wilkinson	Attention: Jason Wilkinson	Kirk Malone	P.O. #: 02-331298 (RE) 15-5722 (CM)		5922021
Address: 3 Carlisle Rd.	Address: 3 Carlisle Rd	10 Gurney Drive	Project: SGI Rock Hill	CDC #:	Project Manager:
Westford, MA 01886	Westford MA 01886	Albany NY 12202	Project Name:		
Tel: (978) 449-0390 x Fax:	Tel: 978-997-8350 Fax:		Site #:	C452451-01-01	Melissa DiGrazia
Email: rhuening@environcorp.com	Email: rhuening@environ.com / kmalone@ramboll.com		Quoted by: Jonathan Dysart (CM)		

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE MAXXAM DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011): ☐ Table 1 ☐ Res/Park ☐ Medium/Fine ☐ Table 2 ☐ Ind/Comm ☐ Coarse ☐ Table 3 ☐ Agri/Other ☐ For RSC ☐ Table ___

Other Regulations: ☐ CCME ☐ Sanitary Sewer Bylaw ☐ Reg 558 ☐ Storm Sewer Bylaw ☐ MISA Municipality: ☐ PWQO ☐ Other

Special Instructions

Include Criteria on Certificate of Analysis (Y/N)? ___

Turnaround Time (TAT) Required

Please provide advance notice for rush projects

Regular (Standard) TAT: ☒
(will be applied if Rush TAT is not specified)
Standard TAT = 5-7 working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Ozone/Phenols are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission): ☐
Date Required: ___ Time Required: ___
Rush Confirmation Number: ___ (call lab for #)

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle): Metals / Hg / Cr VI	EPA 6020A (Soil) Sb, As, Ba, Be, Cd, Cr, Co, Cu, Pb, Mo, Ni, Se, Ag, Tl, Sn, V, Zn	Phenols, PHCs F1-F4, PAHs, PCBs, VOCs, PFAS		TPC							# of Bottles	Comments
1		SG1-~~MW01D~~ MW01S-00.0	8/6/15	0825	Soil		X										1	
2		SG1-~~MW01D~~ MW01S-02.0	8/5/15	0859	Soil		X										1	
3		SG1-MW01S-15.0	8/5/15	1230	Soil					X							1	
4		SG1-MW01S-21.0	8/5/15	1255	Soil					X							1	
5		SG1-MW01S-24.0	8/5/15	1240	Soil					X							1	
6		SG1-DS01-150805	8/5/15	1445	Soil		X										1	
7		SG1-MW02D-00.0	8/5/15	1500	Soil		X										1	
8		SG1-MW02D-02.0	8/5/15	1510	Soil		X										3	ms/msd collected
9		SG1-MW02D-12.0	8/6/15	1230	Soil					X							1	
10		SG1-MW02D-24.0	8/6/15	1255	Soil					X							1	

7-Aug-15 14:25
Melissa DiGrazia
B5F6982
FW ENV-572

International Solid Sample
Heat Treat Required
High Risk Material
Controlled Storage and Disposal

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only: Time Sensitive	Temperature (°C) on Receipt	Custody Seal	Yes	No
[signature]	15/08/06	1530	[signature]	2015/08/06	16:25			4.3 / 4.4 / 4.4	Present	✓	
			ASHIMA SUNUWAR						Intact		✓

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

SAMPLES MUST BE KEPT COOL (< 10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM

White: Maxxam Yellow: Client

4.5 / 4.5 / 4.4 only used only one side of [illegible]

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LABORATORY REPORT

If you have any questions concerning this report, please do not hesitate to call us at (800) 332-4345 or (574) 233-4777.

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STATE CERTIFICATION LIST

State	Certification	State	Certification
Alabama	40700	Montana	CERT0026
Alaska	IN00035	Nebraska	E87775
Arizona	AZ0432	Nevada	IN000352015-1
Arkansas	IN035	New Hampshire*	2124
California	2920	New Mexico	IN00035
Colorado	IN035	New Jersey*	IN598
Colorado Radiochemistry	IN035	New York*	11398
Connecticut	PH-0132	North Carolina	18700
Delaware	IN035	North Dakota	R-035
Florida (Primary AB)*	E87775	Ohio	87775
Georgia	929	Oklahoma	D9508
Hawaii	IN035	Oregon*	IN200001
Idaho	IN00035/E87775	Pennsylvania*	68-00466
Illinois*	200001	Puerto Rico	IN00035
Illinois Microbiology	200001	Rhode Island	LAO00241
Indiana Chemistry	C-71-01	South Carolina	95005
Indiana Microbiology	M-76-07	South Dakota	IN00035
Iowa	098	Tennessee	TN02973
Kansas*	E-10233	Texas*	T104704187-14-7
Kentucky	90056	Texas/TCEQ	TX207
Louisiana*	LA150003	Utah*	IN00035
Maine	IN00035	Vermont	VT-8775
Maryland	209	Virginia*	00127
Massachusetts	M-IN035	Washington	C837
Michigan	9926	West Virginia	9927 C
Minnesota*	018-999-338	Wisconsin	999766900
Mississippi	IN035	Wyoming	IN035
Missouri	880		

*NELAP/TNI Recognized Accreditation Bodies

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LABORATORY CASE NARRATIVE

Client: Ramboll Environ

Report #: 350056CN

All method QC was within acceptance limits.

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	C.S. Manager	10/07/2015
Authorized Signature	Title	Date

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110 South Hill Street
South Bend, IN 46617
Tel: (574) 233-4777
Fax: (574) 233-8207
1 800 332 4345

Laboratory Report

Client:	Ramboll Environ	Report:	350056
Attn:	Jason Wilkinson 3 Carlisle Road Suite 210 Westford, MA 01886	Priority:	Rush Written
		Status:	Final
		PWS ID:	Not Supplied
		Lab ELAP #:	11398
Copies to:	None		

Sample Information

EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
3332984	SG1-MW02-150930	537	09/30/15 13:10	Client	10/01/15 09:15
3332985	SG1-TB02-150930	537	09/30/15 14:45	Client	10/01/15 09:15

Report Summary

Note: See attached page for additional comments.

Detailed quantitative results are presented on the following pages. The results presented relate only to the samples provided for analysis.

We appreciate the opportunity to provide you with this analysis. If you have any questions concerning this report, please do not hesitate to call Nathan Trowbridge at (574) 233-4777.

Note: This report may not be reproduced, except in full, without written approval from EEA.

C.S. Manager — 10/07/2015

Authorized Signature — Title — Date

Client Name: Ramboll Environ
Report #: 350056

Client Name: Ramboll Environ

Report #: 350056

Sampling Point: SG1-MW02-150930

PWS ID: Not Supplied

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	90	< 90	ng/L	10/02/15 07:35	10/03/15 07:57	3332984
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	10	**310**	ng/L	10/02/15 07:35	10/03/15 14:11	3332984
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	30	< 30	ng/L	10/02/15 07:35	10/03/15 07:57	3332984
375-95-1	Perfluorononanoic acid (PFNA)	537	---	20	< 20	ng/L	10/02/15 07:35	10/03/15 07:57	3332984
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	40	< 40	ng/L	10/02/15 07:35	10/03/15 07:57	3332984
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	20	**17000**	ng/L	10/02/15 07:35	10/03/15 13:40	3332984

Sampling Point: SG1-TB02-150930

PWS ID: Not Supplied

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	90	< 90	ng/L	10/02/15 07:35	10/03/15 01:46	3332985
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	10	< 10	ng/L	10/02/15 07:35	10/03/15 01:46	3332985
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	30	< 30	ng/L	10/02/15 07:35	10/03/15 01:46	3332985
375-95-1	Perfluorononanoic acid (PFNA)	537	---	20	< 20	ng/L	10/02/15 07:35	10/03/15 01:46	3332985
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	40	< 40	ng/L	10/02/15 07:35	10/03/15 01:46	3332985
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	20	< 20	ng/L	10/02/15 07:35	10/03/15 01:46	3332985

† EEA has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices.

Reg Limit Type:	MCL	SMCL	AL
Symbol:	*	^	!

Lab Definitions

Continuing Calibration Check Standard (CCC) / Continuing Calibration Verification (CCV) / Initial Calibration Verification Standard (ICV) / Initial Performance Check (IPC) - is a standard containing one or more of the target analytes that is prepared from the same standards used to calibrate the instrument. This standard is used to verify the calibration curve at the beginning of each analytical sequence, and may also be analyzed throughout and at the end of the sequence. The concentration of continuing standards may be varied, when prescribed by the reference method, so that the range of the calibration curve is verified on a regular basis. CCL, CCM, and CCH are the CCC standards at low, mid, and high concentration levels, respectively.

Internal Standards (IS) - are pure compounds with properties similar to the analytes of interest, which are added to field samples or extracts, calibration standards, and quality control standards at a known concentration. They are used to measure the relative responses of the analytes of interest and surrogates in the sample, calibration standard or quality control standard.

Laboratory Duplicate (LD) - is a field sample aliquot taken from the same sample container in the laboratory and analyzed separately using identical procedures. Analysis of laboratory duplicates provides a measure of the precision of the laboratory procedures.

Laboratory Fortified Blank (LFB) / Laboratory Control Sample (LCS) - is an aliquot of reagent water to which known concentrations of the analytes of interest are added. The LFB is analyzed exactly the same as the field samples. LFBs are used to determine whether the method is in control. FBL, FBM, and FBH are the LFB samples at low, mid, and high concentration levels, respectively.

Laboratory Method Blank (LMB) / Laboratory Reagent Blank (LRB) - is a sample of reagent water included in the sample batch analyzed in the same way as the associated field samples. The LMB is used to determine if method analytes or other background contamination have been introduced during the preparation or analytical procedure. The LMB is analyzed exactly the same as the field samples.

Laboratory Trip Blank (LTB) / Field Reagent Blank (FRB) - is a sample of laboratory reagent water placed in a sample container in the laboratory and treated as a field sample, including storage, preservation, and all analytical procedures. The FRB/LTB container follows the collection bottles to and from the collection site, but the FRB/LTB is not opened at any time during the trip. The FRB/LTB is primarily a travel blank used to verify that the samples were not contaminated during shipment.

Matrix Spike Duplicate Sample (MSD) / Laboratory Fortified Sample Matrix Duplicate (LFSMD) - is a sample al6iquot taken from the same field sample source as the Matrix Spike Sample to which known quantities of the analytes of interest are added in the laboratory. The MSD is analyzed exactly the same as the field samples. Analysis of the MSD provides a measure of the precision of the laboratory procedures in a specific matrix. SDL, SDM, and SDH / LFSMDL, LFSMDM, and LFSMDH are the MSD or LFSMD at low, mid, and high concentration levels, respectively.

Matrix Spike Sample (MS) / Laboratory Fortified Sample Matrix (LFSM) - is a sample aliquot taken from field sample source to which known quantities of the analytes of interest are added in the laboratory. The MS is analyzed exactly the same as the field samples. The purpose is to demonstrate recovery of the analytes from a sample matrix to determine if the specific matrix contributes bias to the analytical results. MSL, MSM, and MSH / LFSML, LFSMM, and LFSMH are the MS or LFSM at low, mid, and high concentration levels, respectively.

Quality Control Standard (QCS) / Second Source Calibration Verification (SSCV) - is a solution containing known concentrations of the analytes of interest prepared from a source different from the source of the calibration standards. The solution is obtained from a second manufacturer or lot if the lot can be demonstrated by the manufacturer as prepared independently from other lots. The QCS sample is analyzed using the same procedures as field samples. The QCS is used as a check on the calibration standards used in the method on a routine basis.

Reporting Limit Check (RLC) / Initial Calibration Check Standard (ICCS) - is a procedural standard that is analyzed each day to evaluate instrument performance at or below the minimum reporting limit (MRL).

Surrogate Standard (SS) / Surrogate Analyte (SUR) - is a pure compound with properties similar to the analytes of interest, which is highly unlikely to be found in any field sample, that is added to the field samples, calibration standards, blanks and quality control standards before sample preparation. The SS is used to evaluate the efficiency of the sample preparation process.

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South Bend, IN 46617
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F: 1.574.233.8207

Order # 284272
Batch # 350056

www.eatonanalytical.com

Shaded area for EEA use only

CHAIN OF CUSTODY RECORD

Page 1 of 1

REPORT TO: Ramboll Environ – 3 Carlisle Rd #210 Westford, MA

BILL TO: same.

SAMPLER (Signature): [signature]

COMPLIANCE MONITORING: Yes / No

PWS ID #:

POPULATION SERVED:

STATE (sample origin): NY

SOURCE WATER:

PROJECT NAME: SGPP – Hoosick Falls

PO#:

	LAB Number	COLLECTION DATE	TIME	AM	PM	SAMPLING SITE	TEST NAME	SAMPLE REMARKS	CHLORINATED YES	CHLORINATED NO	# OF CONTAINERS	MATRIX CODE	TURNAROUND TIME
1	3332984	9/30/15	1320		✓	SGI-MW020-150930	PFCs by EPA 537*	01-A		X	3	GW	SW
2	3332985	9/30/15	1445		✓	SGI-TB02-150930	PFCs by EPA 537*	✓ SS		X	1	–	SW
3													
4													
5						only received 2 bottles	for FS @ 1045						
6													
7													
8													
9													
10						EPA Method for the following	PFCs: PFOA, PFOS, PFHxA, PFHxS, PFNA, PFOS						
11													
12													
13													
14													

RUSH WRITTEN

RELINQUISHED BY:(Signature)	DATE	TIME	RECEIVED BY:(Signature)	DATE	TIME
[signature]	9/30/15	1845 AM/PM			AM PM
RELINQUISHED BY:(Signature)	DATE	TIME AM PM	RECEIVED BY:(Signature)	DATE	TIME AM PM
RELINQUISHED BY:(Signature)	DATE	TIME AM PM	RECEIVED FOR LABORATORY BY: [signature]	DATE 10/1/15	TIME 0915 AM PM

LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIENT

LAB COMMENTS: RW per client to QUIT. 10-1-15 JZ

CONDITIONS UPON RECEIPT (check one): X Iced: Wet/Blue ____ Ambient 1.2 °C Upon Receipt ____ N/A

MATRIX CODES:

DW-DRINKING WATER
RW-REAGENT WATER
GW-GROUND WATER
EW-EXPOSURE WATER
SW-SURFACE WATER
PW-POOL WATER
WW-WASTE WATER

TURN-AROUND TIME (TAT) - SURCHARGES

SW = Standard Written: (15 working days) 0%
RV* = Rush Verbal: (5 working days) 50%
RW* = Rush Written: (5 working days) 75%
IV* = Immediate Verbal: (3 working days) 100%
IW* = Immediate Written: (3 working days) 125%
SP* = Weekend, Holiday CALL
STAT* = Less than 48 hours CALL

* Please call, expedited service not available for all testing

Samples received unannounced with less than 48 hours holding time remaining may be subject to additional charges.

06-LO-F0435 Issue 4.0 Effective Date: 2014-05-01

Sample analysis will be provided according to the standard EEA/Water Services Terms, which are available upon request. Any other terms proposed by Customer are deemed material alterations and are rejected unless expressly agree to in writing by EEA.

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Run Log

Run ID: **208267** Method: **537**

Type	Sample Id	Sample Site	Matrix	Instrument ID	Analysis Date	Calibration File
CCL	3333366		OS	CY	10/02/2015 22:09	100215M537a.mdb
LRB	3333324		RW	CY	10/02/2015 23:42	100215M537a.mdb
FBL	3333325		RW	CY	10/03/2015 00:13	100215M537a.mdb
FBM	3333326		RW	CY	10/03/2015 00:44	100215M537a.mdb
FTB	3332985	SG1-TB02-150930	RW	CY	10/03/2015 01:46	100215M537a.mdb
FS	3332984	SG1-MW02-150930	GW	CY	10/03/2015 07:57	100215M537a.mdb
CCM	3333367		OS	CY	10/03/2015 08:28	100215M537a.mdb
FS	3332984	SG1-MW02-150930	GW	CY	10/03/2015 14:11	100215M537a.mdb
CCH	3333368		OS	CY	10/03/2015 14:42	100215M537a.mdb

QC Summary Report

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID #
CCL	IS-PFOA-13C2	537	N/A	---		11656.40	11656.4	ng/L	100	70 - 140	---	---	1.0	09/30/2015 09:59	10/02/2015 22:09	3333366
CCL	IS-PFOS-13C4	537	N/A	---		6524.74	6524.74	ng/L	100	70 - 140	---	---	1.0	09/30/2015 09:59	10/02/2015 22:09	3333366
CCL	SS-PFDA-13C2	537	N/A	---		95.8643	100	ng/L	96	70 - 130	---	---	1.0	09/30/2015 09:59	10/02/2015 22:09	3333366
CCL	SS-PFHxA-13C2	537	N/A	---		49.6333	50.0	ng/L	99	70 - 130	---	---	1.0	09/30/2015 09:59	10/02/2015 22:09	3333366
CCL	Perfluorobutanesulfonic acid (PFBS)	537	90	---		90.1888	90.0	ng/L	100	50 - 150	---	---	1.0	09/30/2015 09:59	10/02/2015 22:09	3333366
CCL	Perfluoroheptanoic acid (PFHpA)	537	10	---		9.9364	10.0	ng/L	99	50 - 150	---	---	1.0	09/30/2015 09:59	10/02/2015 22:09	3333366
CCL	Perfluorohexanesulfonic acid (PFHxS)	537	30	---		30.3116	30.0	ng/L	101	50 - 150	---	---	1.0	09/30/2015 09:59	10/02/2015 22:09	3333366
CCL	Perfluorononanoic acid (PFNA)	537	20	---		19.9372	20.0	ng/L	100	50 - 150	---	---	1.0	09/30/2015 09:59	10/02/2015 22:09	3333366
CCL	Perfluorooctane sulfonate (PFOS)	537	40	---		41.1147	40.0	ng/L	103	50 - 150	---	---	1.0	09/30/2015 09:59	10/02/2015 22:09	3333366
CCL	Perfluorooctanoic acid (PFOA)	537	20	---		20.2689	20.0	ng/L	101	50 - 150	---	---	1.0	09/30/2015 09:59	10/02/2015 22:09	3333366
LRB	IS-PFOA-13C2	537	N/A	---		11266.50	11656.4	ng/L	97	70 - 140	---	---	1.0	10/02/2015 07:35	10/02/2015 23:42	3333324
LRB	IS-PFOS-13C4	537	N/A	---		6359.43	6524.74	ng/L	97	70 - 140	---	---	1.0	10/02/2015 07:35	10/02/2015 23:42	3333324
LRB	SS-PFDA-13C2	537	N/A	---		94.2210	100	ng/L	94	70 - 130	---	---	1.0	10/02/2015 07:35	10/02/2015 23:42	3333324
LRB	SS-PFHxA-13C2	537	N/A	---		48.0828	50.0	ng/L	96	70 - 130	---	---	1.0	10/02/2015 07:35	10/02/2015 23:42	3333324
LRB	Perfluorobutanesulfonic acid (PFBS)	537	90	---	<	90		ng/L	---	---	---	---	1.0	10/02/2015 07:35	10/02/2015 23:42	3333324
LRB	Perfluoroheptanoic acid (PFHpA)	537	10	---	<	10		ng/L	---	---	---	---	1.0	10/02/2015 07:35	10/02/2015 23:42	3333324
LRB	Perfluorohexanesulfonic acid (PFHxS)	537	30	---	<	30		ng/L	---	---	---	---	1.0	10/02/2015 07:35	10/02/2015 23:42	3333324
LRB	Perfluorononanoic acid (PFNA)	537	20	---	<	20		ng/L	---	---	---	---	1.0	10/02/2015 07:35	10/02/2015 23:42	3333324
LRB	Perfluorooctane sulfonate (PFOS)	537	40	---	<	40		ng/L	---	---	---	---	1.0	10/02/2015 07:35	10/02/2015 23:42	3333324
LRB	Perfluorooctanoic acid (PFOA)	537	20	---	<	20		ng/L	---	---	---	---	1.0	10/02/2015 07:35	10/02/2015 23:42	3333324
FBL	IS-PFOA-13C2	537	N/A	---		11536.40	11656.4	ng/L	99	70 - 140	---	---	1.0	10/02/2015 07:35	10/03/2015 00:13	3333325
FBL	IS-PFOS-13C4	537	N/A	---		6414.15	6524.74	ng/L	98	70 - 140	---	---	1.0	10/02/2015 07:35	10/03/2015 00:13	3333325
FBL	SS-PFDA-13C2	537	N/A	---		95.1900	100	ng/L	95	70 - 130	---	---	1.0	10/02/2015 07:35	10/03/2015 00:13	3333325
FBL	SS-PFHxA-13C2	537	N/A	---		48.6870	50.0	ng/L	97	70 - 130	---	---	1.0	10/02/2015 07:35	10/03/2015 00:13	3333325
FBL	Perfluorobutanesulfonic acid (PFBS)	537	90	---		92.8062	90.0	ng/L	103	50 - 150	---	---	1.0	10/02/2015 07:35	10/03/2015 00:13	3333325
FBL	Perfluoroheptanoic acid (PFHpA)	537	10	---		10.0059	10.0	ng/L	100	50 - 150	---	---	1.0	10/02/2015 07:35	10/03/2015 00:13	3333325
FBL	Perfluorohexanesulfonic acid (PFHxS)	537	30	---		31.0605	30.0	ng/L	104	50 - 150	---	---	1.0	10/02/2015 07:35	10/03/2015 00:13	3333325
FBL	Perfluorononanoic acid (PFNA)	537	20	---		19.9685	20.0	ng/L	100	50 - 150	---	---	1.0	10/02/2015 07:35	10/03/2015 00:13	3333325
FBL	Perfluorooctane sulfonate (PFOS)	537	40	---		40.0339	40.0	ng/L	100	50 - 150	---	---	1.0	10/02/2015 07:35	10/03/2015 00:13	3333325
FBL	Perfluorooctanoic acid (PFOA)	537	20	---		20.2946	20.0	ng/L	101	50 - 150	---	---	1.0	10/02/2015 07:35	10/03/2015 00:13	3333325
FBM	IS-PFOA-13C2	537	N/A	---		11291.20	11656.4	ng/L	97	70 - 140	---	---	1.0	10/02/2015 07:35	10/03/2015 00:44	3333326
FBM	IS-PFOS-13C4	537	N/A	---		6290.25	6524.74	ng/L	96	70 - 140	---	---	1.0	10/02/2015 07:35	10/03/2015 00:44	3333326
FBM	SS-PFDA-13C2	537	N/A	---		94.8387	100	ng/L	95	70 - 130	---	---	1.0	10/02/2015 07:35	10/03/2015 00:44	3333326
FBM	SS-PFHxA-13C2	537	N/A	---		47.4344	50.0	ng/L	95	70 - 130	---	---	1.0	10/02/2015 07:35	10/03/2015 00:44	3333326
FBM	Perfluorobutanesulfonic acid (PFBS)	537	90	---		656.3290	675	ng/L	97	70 - 130	---	---	1.0	10/02/2015 07:35	10/03/2015 00:44	3333326
FBM	Perfluoroheptanoic acid (PFHpA)	537	10	---		69.6195	75.0	ng/L	93	70 - 130	---	---	1.0	10/02/2015 07:35	10/03/2015 00:44	3333326
FBM	Perfluorohexanesulfonic acid (PFHxS)	537	30	---		217.5950	225	ng/L	97	70 - 130	---	---	1.0	10/02/2015 07:35	10/03/2015 00:44	3333326
FBM	Perfluorononanoic acid (PFNA)	537	20	---		136.0930	150	ng/L	91	70 - 130	---	---	1.0	10/02/2015 07:35	10/03/2015 00:44	3333326
FBM	Perfluorooctane sulfonate (PFOS)	537	40	---		284.2780	300	ng/L	95	70 - 130	---	---	1.0	10/02/2015 07:35	10/03/2015 00:44	3333326
FBM	Perfluorooctanoic acid (PFOA)	537	20	---		141.0900	150	ng/L	94	70 - 130	---	---	1.0	10/02/2015 07:35	10/03/2015 00:44	3333326

QC Summary Report (cont.)

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID #
FTB	IS-PFOA-13C2	537	N/A	SG1-TB02-150930		11692.50	11656.4	ng/L	100	70 - 140	---	---	0.95	10/02/2015 07:35	10/03/2015 01:46	3332985
FTB	IS-PFOS-13C4	537	N/A	SG1-TB02-150930		6642.37	6524.74	ng/L	102	70 - 140	---	---	0.95	10/02/2015 07:35	10/03/2015 01:46	3332985
FTB	SS-PFDA-13C2	537	N/A	SG1-TB02-150930		88.5974	100	ng/L	93	70 - 130	---	---	0.95	10/02/2015 07:35	10/03/2015 01:46	3332985
FTB	SS-PFHxA-13C2	537	N/A	SG1-TB02-150930		43.8917	50.0	ng/L	92	70 - 130	---	---	0.95	10/02/2015 07:35	10/03/2015 01:46	3332985
FTB	Perfluorobutanesulfonic acid (PFBS)	537	90	SG1-TB02-150930	<	90		ng/L	---	---	---	---	0.95	10/02/2015 07:35	10/03/2015 01:46	3332985
FTB	Perfluoroheptanoic acid (PFHpA)	537	10	SG1-TB02-150930	<	10		ng/L	---	---	---	---	0.95	10/02/2015 07:35	10/03/2015 01:46	3332985
FTB	Perfluorohexanesulfonic acid (PFHxS)	537	30	SG1-TB02-150930	<	30		ng/L	---	---	---	---	0.95	10/02/2015 07:35	10/03/2015 01:46	3332985
FTB	Perfluorononanoic acid (PFNA)	537	20	SG1-TB02-150930	<	20		ng/L	---	---	---	---	0.95	10/02/2015 07:35	10/03/2015 01:46	3332985
FTB	Perfluorooctane sulfonate (PFOS)	537	40	SG1-TB02-150930	<	40		ng/L	---	---	---	---	0.95	10/02/2015 07:35	10/03/2015 01:46	3332985
FTB	Perfluorooctanoic acid (PFOA)	537	20	SG1-TB02-150930	<	20		ng/L	---	---	---	---	0.95	10/02/2015 07:35	10/03/2015 01:46	3332985
FS	IS-PFOA-13C2	537	N/A	SG1-MW02-150930		8358.16	10013.5	ng/L	72	70 - 140	---	---	0.93	10/02/2015 07:35	10/03/2015 07:57	3332984
FS	IS-PFOA-13C2	537	N/A	SG1-MW02-150930		8358.16	10013.5	ng/L	72	70 - 140	---	---	9.3	10/02/2015 07:35	10/03/2015 07:57	3332984
FS	IS-PFOA-13C2	537	N/A	SG1-MW02-150930		8358.16	10013.5	ng/L	72	70 - 140	---	---	93	10/02/2015 07:35	10/03/2015 07:57	3332984
FS	IS-PFOS-13C4	537	N/A	SG1-MW02-150930		5422.67	5667.41	ng/L	90	70 - 140	---	---	0.93	10/02/2015 07:35	10/03/2015 07:57	3332984
FS	IS-PFOS-13C4	537	N/A	SG1-MW02-150930		5422.67	5667.41	ng/L	90	70 - 140	---	---	9.3	10/02/2015 07:35	10/03/2015 07:57	3332984
FS	IS-PFOS-13C4	537	N/A	SG1-MW02-150930		5422.67	5667.41	ng/L	90	70 - 140	---	---	93	10/02/2015 07:35	10/03/2015 07:57	3332984
FS	SS-PFDA-13C2	537	N/A	SG1-MW02-150930		109.5460	100	ng/L	118	70 - 130	---	---	0.93	10/02/2015 07:35	10/03/2015 07:57	3332984
FS	SS-PFHxA-13C2	537	N/A	SG1-MW02-150930		55.6631	50.0	ng/L	120	70 - 130	---	---	0.93	10/02/2015 07:35	10/03/2015 07:57	3332984
FS	Perfluorobutanesulfonic acid (PFBS)	537	90	SG1-MW02-150930	<	90		ng/L	---	---	---	---	0.93	10/02/2015 07:35	10/03/2015 07:57	3332984
FS	Perfluorohexanesulfonic acid (PFHxS)	537	30	SG1-MW02-150930	<	30		ng/L	---	---	---	---	0.93	10/02/2015 07:35	10/03/2015 07:57	3332984
FS	Perfluorononanoic acid (PFNA)	537	20	SG1-MW02-150930	<	20		ng/L	---	---	---	---	0.93	10/02/2015 07:35	10/03/2015 07:57	3332984
FS	Perfluorooctane sulfonate (PFOS)	537	40	SG1-MW02-150930	<	40		ng/L	---	---	---	---	0.93	10/02/2015 07:35	10/03/2015 07:57	3332984
CCM	IS-PFOA-13C2	537	N/A	---		10013.50	10013.5	ng/L	100	70 - 140	---	---	1.0	09/30/2015 09:59	10/03/2015 08:28	3333367
CCM	IS-PFOS-13C4	537	N/A	---		5667.41	5667.41	ng/L	100	70 - 140	---	---	1.0	09/30/2015 09:59	10/03/2015 08:28	3333367
CCM	SS-PFDA-13C2	537	N/A	---		95.4073	100	ng/L	95	70 - 130	---	---	1.0	09/30/2015 09:59	10/03/2015 08:28	3333367
CCM	SS-PFHxA-13C2	537	N/A	---		48.6385	50.0	ng/L	97	70 - 130	---	---	1.0	09/30/2015 09:59	10/03/2015 08:28	3333367
CCM	Perfluorobutanesulfonic acid (PFBS)	537	90	---		674.2860	675	ng/L	100	70 - 130	---	---	1.0	09/30/2015 09:59	10/03/2015 08:28	3333367
CCM	Perfluoroheptanoic acid (PFHpA)	537	10	---		74.0983	75.0	ng/L	99	70 - 130	---	---	1.0	09/30/2015 09:59	10/03/2015 08:28	3333367
CCM	Perfluorohexanesulfonic acid (PFHxS)	537	30	---		219.9190	225	ng/L	98	70 - 130	---	---	1.0	09/30/2015 09:59	10/03/2015 08:28	3333367
CCM	Perfluorononanoic acid (PFNA)	537	20	---		147.4430	150	ng/L	98	70 - 130	---	---	1.0	09/30/2015 09:59	10/03/2015 08:28	3333367
CCM	Perfluorooctane sulfonate (PFOS)	537	40	---		296.6470	300	ng/L	99	70 - 130	---	---	1.0	09/30/2015 09:59	10/03/2015 08:28	3333367
CCM	Perfluorooctanoic acid (PFOA)	537	20	---		150.0280	150	ng/L	100	70 - 130	---	---	1.0	09/30/2015 09:59	10/03/2015 08:28	3333367
FS	Perfluorooctanoic acid (PFOA)	537	20	SG1-MW02-150930		17000		ng/L	---	---	---	---	93	10/02/2015 07:35	10/03/2015 13:40	3332984
FS	Perfluoroheptanoic acid (PFHpA)	537	10	SG1-MW02-150930		310		ng/L	---	---	---	---	9.3	10/02/2015 07:35	10/03/2015 14:11	3332984
CCH	IS-PFOA-13C2	537	N/A	---		9318.57	9318.57	ng/L	100	70 - 140	---	---	1.0	09/30/2015 09:59	10/03/2015 14:42	3333368
CCH	IS-PFOS-13C4	537	N/A	---		5241.66	5241.66	ng/L	100	70 - 140	---	---	1.0	09/30/2015 09:59	10/03/2015 14:42	3333368
CCH	SS-PFDA-13C2	537	N/A	---		99.5422	100	ng/L	100	70 - 130	---	---	1.0	09/30/2015 09:59	10/03/2015 14:42	3333368
CCH	SS-PFHxA-13C2	537	N/A	---		49.7790	50.0	ng/L	100	70 - 130	---	---	1.0	09/30/2015 09:59	10/03/2015 14:42	3333368
CCH	Perfluorobutanesulfonic acid (PFBS)	537	90	---		1127.6800	1125	ng/L	100	70 - 130	---	---	1.0	09/30/2015 09:59	10/03/2015 14:42	3333368
CCH	Perfluoroheptanoic acid (PFHpA)	537	10	---		124.7560	125	ng/L	100	70 - 130	---	---	1.0	09/30/2015 09:59	10/03/2015 14:42	3333368
CCH	Perfluorohexanesulfonic acid (PFHxS)	537	30	---		380.9470	375	ng/L	102	70 - 130	---	---	1.0	09/30/2015 09:59	10/03/2015 14:42	3333368

QC Summary Report (cont.)

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID #
CCH	Perfluorononanoic acid (PFNA)	537	20	---		248.5970	250	ng/L	99	70 - 130	---	---	1.0	09/30/2015 09:59	10/03/2015 14:42	3333368
CCH	Perfluorooctane sulfonate (PFOS)	537	40	---		515.9240	500	ng/L	103	70 - 130	---	---	1.0	09/30/2015 09:59	10/03/2015 14:42	3333368
CCH	Perfluorooctanoic acid (PFOA)	537	20	---		252.2000	250	ng/L	101	70 - 130	---	---	1.0	09/30/2015 09:59	10/03/2015 14:42	3333368

Sample Type Key

Type (Abbr.)	Sample Type	Type (Abbr.)	Sample Type
CCH	Continuing Calibration High		
CCL	Continuing Calibration Low		
CCM	Continuing Calibration Mid		
FS	Field Sample		
FTB	Field Trip Blank		
FBL	Fortified Blank Low		
FBM	Fortified Blank Mid		
LRB	Laboratory Reagent Blank		

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LABORATORY REPORT

If you have any questions concerning this report, please do not hesitate to call us at (800) 332-4345 or (574) 233-4777.

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STATE CERTIFICATION LIST

State	Certification	State	Certification
Alabama	40700	Montana	CERT0026
Alaska	IN00035	Nebraska	E87775
Arizona	AZ0432	Nevada	IN000352015-1
Arkansas	IN035	New Hampshire*	2124
California	2920	New Mexico	IN00035
Colorado	IN035	New Jersey*	IN598
Colorado Radiochemistry	IN035	New York*	11398
Connecticut	PH-0132	North Carolina	18700
Delaware	IN035	North Dakota	R-035
Florida (Primary AB)*	E87775	Ohio	87775
Georgia	929	Oklahoma	D9508
Hawaii	IN035	Oregon*	IN200001
Idaho	IN00035/E87775	Pennsylvania*	68-00466
Illinois*	200001	Puerto Rico	IN00035
Illinois Microbiology	200001	Rhode Island	LAO00241
Indiana Chemistry	C-71-01	South Carolina	95005
Indiana Microbiology	M-76-07	South Dakota	IN00035
Iowa	098	Tennessee	TN02973
Kansas*	E-10233	Texas*	T104704187-14-7
Kentucky	90056	Texas/TCEQ	TX207
Louisiana*	LA150003	Utah*	IN00035
Maine	IN00035	Vermont	VT-8775
Maryland	209	Virginia*	00127
Massachusetts	M-IN035	Washington	C837
Michigan	9926	West Virginia	9927 C
Minnesota*	018-999-338	Wisconsin	999766900
Mississippi	IN035	Wyoming	IN035
Missouri	880		

*NELAP/TNI Recognized Accreditation Bodies

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LABORATORY CASE NARRATIVE

Client: Ramboll Environ

Report #: 350168CN

All method QC was within acceptance limits.

Note: There were no reportable LFSMM or LFSMDM results in the Perfluorooctanoic acid (PFOA) analysis for site SG1-MW05-151001 due to spiking level.

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Authorized Signature	Title	Date
	C.S. Manager	10/07/2015

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110 South Hill Street
South Bend, IN 46617
Tel: (574) 233-4777
Fax: (574) 233-8207
1 800 332 4345

Laboratory Report

Client: Ramboll Environ

Attn: Jason Wilkinson
3 Carlisle Road
Suite 210
Westford, MA 01886

Copies to: None

Report: 350168
Priority: Rush Written
Status: Final
PWS ID: Not Supplied
Lab ELAP #: 11398

Sample Information

EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
3333953	SG1-TB03-151001	537	10/01/15 07:30	Client	10/02/15 09:15
3333954	SG1-MW02S-151001	537	10/01/15 08:00	Client	10/02/15 09:15
3333955	SG1-MW05-151001	537	10/01/15 09:00	Client	10/02/15 09:15
3333958	SG1-MW03-151001	537	10/01/15 10:20	Client	10/02/15 09:15
3333959	SG1-MW04-151001	537	10/01/15 09:30	Client	10/02/15 09:15
3333960	SG1-DS01-151001	537	10/01/15 00:00	Client	10/02/15 09:15
3333961	SG1-MW01-151001	537	10/01/15 08:05	Client	10/02/15 09:15
3333962	SG1-MW01S-151001	537	10/01/15 08:30	Client	10/02/15 09:15
3333963	SG1-RB01-151001	537	10/01/15 10:45	Client	10/02/15 09:15
3333964	SG1-RB01-150930	537	09/30/15 11:30	Client	10/02/15 09:15
3333965	SG1-FB01-151001	537	10/01/15 11:50	Client	10/02/15 09:15

Report Summary

Note: See attached page for additional comments.

Detailed quantitative results are presented on the following pages. The results presented relate only to the samples provided for analysis.

We appreciate the opportunity to provide you with this analysis. If you have any questions concerning this report, please do not hesitate to call Nathan Trowbridge at (574) 233-4777.

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C.S. Manager — 10/07/2015

Authorized Signature — Title — Date

Client Name: Ramboll Environ
Report #: 350168

Sampling Point: SG1-TB03-151001 PWS ID: Not Supplied

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	90	< 90	ng/L	10/05/15 07:25	10/06/15 00:31	3333953
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	10	< 10	ng/L	10/05/15 07:25	10/06/15 00:31	3333953
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	30	< 30	ng/L	10/05/15 07:25	10/06/15 00:31	3333953
375-95-1	Perfluorononanoic acid (PFNA)	537	---	20	< 20	ng/L	10/05/15 07:25	10/06/15 00:31	3333953
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	40	< 40	ng/L	10/05/15 07:25	10/06/15 00:31	3333953
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	20	< 20	ng/L	10/05/15 07:25	10/06/15 00:31	3333953

Sampling Point: SG1-MW02S-151001 PWS ID: Not Supplied

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	90	< 90	ng/L	10/05/15 07:25	10/06/15 04:38	3333954
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	10	**30**	ng/L	10/05/15 07:25	10/06/15 04:38	3333954
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	30	< 30	ng/L	10/05/15 07:25	10/06/15 04:38	3333954
375-95-1	Perfluorononanoic acid (PFNA)	537	---	20	< 20	ng/L	10/05/15 07:25	10/06/15 04:38	3333954
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	40	< 40	ng/L	10/05/15 07:25	10/06/15 04:38	3333954
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	20	**750**	ng/L	10/05/15 07:25	10/06/15 12:23	3333954

Sampling Point: SG1-MW05-151001 PWS ID: Not Supplied

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	90	< 90	ng/L	10/05/15 07:25	10/06/15 05:40	3333955
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	10	**10**	ng/L	10/05/15 07:25	10/06/15 05:40	3333955
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	30	< 30	ng/L	10/05/15 07:25	10/06/15 05:40	3333955
375-95-1	Perfluorononanoic acid (PFNA)	537	---	20	< 20	ng/L	10/05/15 07:25	10/06/15 05:40	3333955
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	40	< 40	ng/L	10/05/15 07:25	10/06/15 05:40	3333955
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	20	**570**	ng/L	10/05/15 07:25	10/06/15 12:54	3333955

Client Name: Ramboll Environ Report #: 350168

Sampling Point: SG1-MW03-151001 PWS ID: Not Supplied

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	90	< 90	ng/L	10/05/15 07:25	10/06/15 05:09	3333958
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	10	**120**	ng/L	10/05/15 07:25	10/06/15 05:09	3333958
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	30	< 30	ng/L	10/05/15 07:25	10/06/15 05:09	3333958
375-95-1	Perfluorononanoic acid (PFNA)	537	---	20	< 20	ng/L	10/05/15 07:25	10/06/15 05:09	3333958
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	40	< 40	ng/L	10/05/15 07:25	10/06/15 05:09	3333958
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	20	**4300**	ng/L	10/05/15 07:25	10/06/15 11:52	3333958

Sampling Point: SG1-MW04-151001 PWS ID: Not Supplied

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	90	< 90	ng/L	10/05/15 07:25	10/06/15 08:15	3333959
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	10	**40**	ng/L	10/05/15 07:25	10/06/15 08:15	3333959
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	30	< 30	ng/L	10/05/15 07:25	10/06/15 08:15	3333959
375-95-1	Perfluorononanoic acid (PFNA)	537	---	20	< 20	ng/L	10/05/15 07:25	10/06/15 08:15	3333959
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	40	< 40	ng/L	10/05/15 07:25	10/06/15 08:15	3333959
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	20	**1400**	ng/L	10/05/15 07:25	10/06/15 13:55	3333959

Sampling Point: SG1-DS01-151001 PWS ID: Not Supplied

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	90	< 90	ng/L	10/05/15 07:25	10/06/15 08:46	3333960
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	10	**40**	ng/L	10/05/15 07:25	10/06/15 08:46	3333960
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	30	< 30	ng/L	10/05/15 07:25	10/06/15 08:46	3333960
375-95-1	Perfluorononanoic acid (PFNA)	537	---	20	< 20	ng/L	10/05/15 07:25	10/06/15 08:46	3333960
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	40	< 40	ng/L	10/05/15 07:25	10/06/15 08:46	3333960
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	20	**1400**	ng/L	10/05/15 07:25	10/06/15 14:26	3333960

Sampling Point: SG1-MW01-151001 PWS ID: Not Supplied

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	90	< 90	ng/L	10/05/15 07:25	10/06/15 09:17	3333961
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	10	< 10	ng/L	10/05/15 07:25	10/06/15 09:17	3333961
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	30	< 30	ng/L	10/05/15 07:25	10/06/15 09:17	3333961
375-95-1	Perfluorononanoic acid (PFNA)	537	---	20	< 20	ng/L	10/05/15 07:25	10/06/15 09:17	3333961
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	40	< 40	ng/L	10/05/15 07:25	10/06/15 09:17	3333961
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	20	< 20	ng/L	10/05/15 07:25	10/06/15 09:17	3333961

Sampling Point: SG1-MW01S-151001 PWS ID: Not Supplied

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	90	< 90	ng/L	10/05/15 07:25	10/06/15 09:48	3333962
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	10	**60**	ng/L	10/05/15 07:25	10/06/15 09:48	3333962
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	30	< 30	ng/L	10/05/15 07:25	10/06/15 09:48	3333962
375-95-1	Perfluorononanoic acid (PFNA)	537	---	20	< 20	ng/L	10/05/15 07:25	10/06/15 09:48	3333962
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	40	< 40	ng/L	10/05/15 07:25	10/06/15 09:48	3333962
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	20	**60**	ng/L	10/05/15 07:25	10/06/15 09:48	3333962

Sampling Point: SG1-RB01-151001 PWS ID: Not Supplied

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	90	< 90	ng/L	10/05/15 07:25	10/06/15 10:19	3333963
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	10	< 10	ng/L	10/05/15 07:25	10/06/15 10:19	3333963
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	30	< 30	ng/L	10/05/15 07:25	10/06/15 10:19	3333963
375-95-1	Perfluorononanoic acid (PFNA)	537	---	20	< 20	ng/L	10/05/15 07:25	10/06/15 10:19	3333963
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	40	< 40	ng/L	10/05/15 07:25	10/06/15 10:19	3333963
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	20	< 20	ng/L	10/05/15 07:25	10/06/15 10:19	3333963

Sampling Point: SG1-RB01-150930 PWS ID: Not Supplied

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	90	< 90	ng/L	10/05/15 07:25	10/06/15 10:50	3333964
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	10	< 10	ng/L	10/05/15 07:25	10/06/15 10:50	3333964
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	30	< 30	ng/L	10/05/15 07:25	10/06/15 10:50	3333964
375-95-1	Perfluorononanoic acid (PFNA)	537	---	20	< 20	ng/L	10/05/15 07:25	10/06/15 10:50	3333964
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	40	< 40	ng/L	10/05/15 07:25	10/06/15 10:50	3333964
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	20	< 20	ng/L	10/05/15 07:25	10/06/15 10:50	3333964

Sampling Point: SG1-FB01-151001 PWS ID: Not Supplied

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	90	< 90	ng/L	10/05/15 07:25	10/06/15 11:21	3333965
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	10	< 10	ng/L	10/05/15 07:25	10/06/15 11:21	3333965
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	30	< 30	ng/L	10/05/15 07:25	10/06/15 11:21	3333965
375-95-1	Perfluorononanoic acid (PFNA)	537	---	20	< 20	ng/L	10/05/15 07:25	10/06/15 11:21	3333965
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	40	< 40	ng/L	10/05/15 07:25	10/06/15 11:21	3333965
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	20	< 20	ng/L	10/05/15 07:25	10/06/15 11:21	3333965

† EEA has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices.

Reg Limit Type:	MCL	SMCL	AL
Symbol:	*	^	!

Lab Definitions

Continuing Calibration Check Standard (CCC) / Continuing Calibration Verification (CCV) / Initial Calibration Verification Standard (ICV) / Initial Performance Check (IPC) - is a standard containing one or more of the target analytes that is prepared from the same standards used to calibrate the instrument. This standard is used to verify the calibration curve at the beginning of each analytical sequence, and may also be analyzed throughout and at the end of the sequence. The concentration of continuing standards may be varied, when prescribed by the reference method, so that the range of the calibration curve is verified on a regular basis. CCL, CCM, and CCH are the CCC standards at low, mid, and high concentration levels, respectively.

Internal Standards (IS) - are pure compounds with properties similar to the analytes of interest, which are added to field samples or extracts, calibration standards, and quality control standards at a known concentration. They are used to measure the relative responses of the analytes of interest and surrogates in the sample, calibration standard or quality control standard.

Laboratory Duplicate (LD) - is a field sample aliquot taken from the same sample container in the laboratory and analyzed separately using identical procedures. Analysis of laboratory duplicates provides a measure of the precision of the laboratory procedures.

Laboratory Fortified Blank (LFB) / Laboratory Control Sample (LCS) - is an aliquot of reagent water to which known concentrations of the analytes of interest are added. The LFB is analyzed exactly the same as the field samples. LFBs are used to determine whether the method is in control. FBL, FBM, and FBH are the LFB samples at low, mid, and high concentration levels, respectively.

Laboratory Method Blank (LMB) / Laboratory Reagent Blank (LRB) - is a sample of reagent water included in the sample batch analyzed in the same way as the associated field samples. The LMB is used to determine if method analytes or other background contamination have been introduced during the preparation or analytical procedure. The LMB is analyzed exactly the same as the field samples.

Laboratory Trip Blank (LTB) / Field Reagent Blank (FRB) - is a sample of laboratory reagent water placed in a sample container in the laboratory and treated as a field sample, including storage, preservation, and all analytical procedures. The FRB/LTB container follows the collection bottles to and from the collection site, but the FRB/LTB is not opened at any time during the trip. The FRB/LTB is primarily a travel blank used to verify that the samples were not contaminated during shipment.

Matrix Spike Duplicate Sample (MSD) / Laboratory Fortified Sample Matrix Duplicate (LFSMD) - is a sample al6iquot taken from the same field sample source as the Matrix Spike Sample to which known quantities of the analytes of interest are added in the laboratory. The MSD is analyzed exactly the same as the field samples. Analysis of the MSD provides a measure of the precision of the laboratory procedures in a specific matrix. SDL, SDM, and SDH / LFSMDL, LFSMDM, and LFSMDH are the MSD or LFSMD at low, mid, and high concentration levels, respectively.

Matrix Spike Sample (MS) / Laboratory Fortified Sample Matrix (LFSM) - is a sample aliquot taken from field sample source to which known quantities of the analytes of interest are added in the laboratory. The MS is analyzed exactly the same as the field samples. The purpose is to demonstrate recovery of the analytes from a sample matrix to determine if the specific matrix contributes bias to the analytical results. MSL, MSM, and MSH / LFSML, LFSMM, and LFSMH are the MS or LFSM at low, mid, and high concentration levels, respectively.

Quality Control Standard (QCS) / Second Source Calibration Verification (SSCV) - is a solution containing known concentrations of the analytes of interest prepared from a source different from the source of the calibration standards. The solution is obtained from a second manufacturer or lot if the lot can be demonstrated by the manufacturer as prepared independently from other lots. The QCS sample is analyzed using the same procedures as field samples. The QCS is used as a check on the calibration standards used in the method on a routine basis.

Reporting Limit Check (RLC) / Initial Calibration Check Standard (ICCS) - is a procedural standard that is analyzed each day to evaluate instrument performance at or below the minimum reporting limit (MRL).

Surrogate Standard (SS) / Surrogate Analyte (SUR) - is a pure compound with properties similar to the analytes of interest, which is highly unlikely to be found in any field sample, that is added to the field samples, calibration standards, blanks and quality control standards before sample preparation. The SS is used to evaluate the efficiency of the sample preparation process.

RUSH WRITTEN

eurofins | Eaton Analytical

110 S. Hill Street
South Bend, IN 46617
T: 1.800.332.4345
F: 1.574.233.8207

Order # 284272
Batch # 350168

www.eatonanalytical.com

Shaded area for EEA use only

CHAIN OF CUSTODY RECORD

Page 1 of 1

REPORT TO:	SAMPLER (Signature)	PWS ID #	STATE (sample origin)	PROJECT NAME	PO#
Rimbal Environ 3 Garrison Rd #210 Westford, MA	Van T		NY	SGPP-Hoosick Falls	
BILL TO: Same.	COMPLIANCE MONITORING: Yes / No	POPULATION SERVED	SOURCE WATER		

	LAB Number	COLLECTION DATE	TIME	AM	PM	SAMPLING SITE	TEST NAME	SAMPLE REMARKS	CHLORINATED YES	CHLORINATED NO	# OF CONTAINERS	MATRIX CODE	TURNAROUND TIME
1	3333, 953	10-1-15	0730	X		SG1-TG03-151001	PFC, EPA Method 537 (PFOA,	CL-A		X	1	GW	SW
2	954		0800	X		SG1-MW02S-151001	PFBS, PFHxA, PFHxS, PFNA,			X	3		
3	955 S		0900	X		SG1-MW05-151001	PFOS)	MS/MSD		X	9		
4	958		1020	X		SG1-MW03-151001	SG1-MW04-151001 per client RP 10.7.15			X	3		
5	959		0930	X		SG1-MW04-151001	Bottles Show MW04S SS 10-2-15			X	3		
6	960		—			SG1-DS01-151001	SG1-MW01-151001 per client RP 10.7.15			X	3		
7	961		0805	X		SG1-MW01-151001	Bottles Show MW01D SS 10-2-15			X	3		
8	962		0930	X		SG1-MW01S-151001				X	3		
9	963		1045	X		SG1-RB01-151001	✓ @			X	3		
10	964	9-30-15	1130	X		SG1-RB01-150930	✓ @			X	3		
11	965	~~10-1-15~~	1150	X		SG1-FB01-151001	✓ @			X	3		
12	956 MS	10-1-15	0900			~~SG1-MW06-151001~~							
13	957 MSD												
14													

RELINQUISHED BY:(Signature)	DATE	TIME	RECEIVED BY:(Signature)	DATE	TIME
	10/1/15	1400 AM PM			AM PM
RELINQUISHED BY:(Signature)	DATE	TIME	RECEIVED BY:(Signature)	DATE	TIME
		AM PM			AM PM
RELINQUISHED BY:(Signature)	DATE	TIME	RECEIVED FOR LABORATORY BY:	DATE	TIME
		AM PM		10-2-15	0845 AM PM

LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIENT

LAB COMMENTS
*Use bottles for Sample sites. LPT 10/2/15

Cross Offs on COC by Client

CONDITIONS UPON RECEIPT (check one): X Iced: Wet/Blue ___ Ambient 1 °C Upon Receipt ___ N/A

MATRIX CODES:

DW-DRINKING WATER
RW-REAGENT WATER
GW-GROUND WATER
EW-EXPOSURE WATER
SW-SURFACE WATER
PW-POOL WATER
WW-WASTE WATER

TURN-AROUND TIME (TAT) - SURCHARGES

SW = Standard Written: (15 working days) 0%
RV* = Rush Verbal: (5 working days) 50%
RW* = Rush Written: (5 working days) 75%
IV* = Immediate Verbal: (3 working days) 100%
IW* = Immediate Written: (3 working days) 125%
SP* = Weekend, Holiday CALL
STAT* = Less than 48 hours CALL

* Please call, expedited service not available for all testing

Samples received unannounced with less than 48 hours holding time remaining may be subject to additional charges.

06-LO-F0435 Issue 4.0 Effective Date: 2014-05-01

Sample analysis will be provided according to the standard EEA/Water Services Terms, which are available upon request. Any other terms proposed by Customer are deemed material alterations and are rejected unless expressly agree to in writing by EEA.

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Eurofins Eaton Analytical
Run Log
Run ID: **208351** Method: **537**

Type	Sample Id	Sample Site	Matrix	Instrument ID	Analysis Date	Calibration File
CCL	3334078		OS	CY	10/05/2015 20:24	100515M537a.mdb
LRB	3334062		RW	CY	10/05/2015 21:56	100515M537a.mdb
FBL	3334063		RW	CY	10/05/2015 22:27	100515M537a.mdb
FBH	3334064		RW	CY	10/05/2015 22:58	100515M537a.mdb
FTB	3333953	SG1-TB03-151001	RW	CY	10/06/2015 00:31	100515M537a.mdb
FS	3333954	SG1-MW02S-151001	GW	CY	10/06/2015 04:38	100515M537a.mdb
FS	3333958	SG1-MW03-151001	GW	CY	10/06/2015 05:09	100515M537a.mdb
FS	3333955	SG1-MW05-151001	GW	CY	10/06/2015 05:40	100515M537a.mdb
LFSMM	3333956	SG1-MW05-151001	GW	CY	10/06/2015 06:11	100515M537a.mdb
LFSMDM	3333957	SG1-MW05-151001	GW	CY	10/06/2015 06:42	100515M537a.mdb
CCM	3334079		OS	CY	10/06/2015 07:13	100515M537a.mdb
FS	3333959	SG1-MW04-151001	GW	CY	10/06/2015 08:15	100515M537a.mdb
FS	3333960	SG1-DS01-151001	GW	CY	10/06/2015 08:46	100515M537a.mdb
FS	3333961	SG1-MW01-151001	GW	CY	10/06/2015 09:17	100515M537a.mdb
FS	3333962	SG1-MW01S-151001	GW	CY	10/06/2015 09:48	100515M537a.mdb
FS	3333963	SG1-RB01-151001	GW	CY	10/06/2015 10:19	100515M537a.mdb
FS	3333964	SG1-RB01-150930	GW	CY	10/06/2015 10:50	100515M537a.mdb
FS	3333965	SG1-FB01-151001	GW	CY	10/06/2015 11:21	100515M537a.mdb
FS	3333958	SG1-MW03-151001	GW	CY	10/06/2015 11:52	100515M537a.mdb
FS	3333954	SG1-MW02S-151001	GW	CY	10/06/2015 12:23	100515M537a.mdb
FS	3333955	SG1-MW05-151001	GW	CY	10/06/2015 12:54	100515M537a.mdb
CCH	3334080		OS	CY	10/06/2015 13:24	100515M537a.mdb
FS	3333959	SG1-MW04-151001	GW	CY	10/06/2015 13:55	100515M537a.mdb
FS	3333960	SG1-DS01-151001	GW	CY	10/06/2015 14:26	100515M537a.mdb
CCM	3335056		OS	CY	10/06/2015 14:57	100515M537a.mdb

QC Summary Report

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID #
CCL	IS-PFOA-13C2	537	N/A	---		11800.40	11800.4	ng/L	100	70 - 140	---	---	1.0	09/30/2015 09:59	10/05/2015 20:24	3334078
CCL	IS-PFOS-13C4	537	N/A	---		6324.13	6324.13	ng/L	100	70 - 140	---	---	1.0	09/30/2015 09:59	10/05/2015 20:24	3334078
CCL	SS-PFDA-13C2	537	N/A	---		96.6529	100	ng/L	97	70 - 130	---	---	1.0	09/30/2015 09:59	10/05/2015 20:24	3334078
CCL	SS-PFHxA-13C2	537	N/A	---		49.4984	50.0	ng/L	99	70 - 130	---	---	1.0	09/30/2015 09:59	10/05/2015 20:24	3334078
CCL	Perfluorobutanesulfonic acid (PFBS)	537	90	---		91.4673	90.0	ng/L	102	50 - 150	---	---	1.0	09/30/2015 09:59	10/05/2015 20:24	3334078
CCL	Perfluoroheptanoic acid (PFHpA)	537	10	---		9.8147	10.0	ng/L	98	50 - 150	---	---	1.0	09/30/2015 09:59	10/05/2015 20:24	3334078
CCL	Perfluorohexanesulfonic acid (PFHxS)	537	30	---		31.0623	30.0	ng/L	104	50 - 150	---	---	1.0	09/30/2015 09:59	10/05/2015 20:24	3334078
CCL	Perfluorononanoic acid (PFNA)	537	20	---		20.0750	20.0	ng/L	100	50 - 150	---	---	1.0	09/30/2015 09:59	10/05/2015 20:24	3334078
CCL	Perfluorooctane sulfonate (PFOS)	537	40	---		40.1864	40.0	ng/L	100	50 - 150	---	---	1.0	09/30/2015 09:59	10/05/2015 20:24	3334078
CCL	Perfluorooctanoic acid (PFOA)	537	20	---		19.8868	20.0	ng/L	99	50 - 150	---	---	1.0	09/30/2015 09:59	10/05/2015 20:24	3334078
LRB	IS-PFOA-13C2	537	N/A	---		11788.90	11800.4	ng/L	100	70 - 140	---	---	1.0	10/05/2015 07:25	10/05/2015 21:56	3334062
LRB	IS-PFOS-13C4	537	N/A	---		6572.86	6324.13	ng/L	104	70 - 140	---	---	1.0	10/05/2015 07:25	10/05/2015 21:56	3334062
LRB	SS-PFDA-13C2	537	N/A	---		94.9724	100	ng/L	95	70 - 130	---	---	1.0	10/05/2015 07:25	10/05/2015 21:56	3334062
LRB	SS-PFHxA-13C2	537	N/A	---		46.2050	50.0	ng/L	92	70 - 130	---	---	1.0	10/05/2015 07:25	10/05/2015 21:56	3334062
LRB	Perfluorobutanesulfonic acid (PFBS)	537	90	---	<	90		ng/L	---	---	---	---	1.0	10/05/2015 07:25	10/05/2015 21:56	3334062
LRB	Perfluoroheptanoic acid (PFHpA)	537	10	---	<	10		ng/L	---	---	---	---	1.0	10/05/2015 07:25	10/05/2015 21:56	3334062
LRB	Perfluorohexanesulfonic acid (PFHxS)	537	30	---	<	30		ng/L	---	---	---	---	1.0	10/05/2015 07:25	10/05/2015 21:56	3334062
LRB	Perfluorononanoic acid (PFNA)	537	20	---	<	20		ng/L	---	---	---	---	1.0	10/05/2015 07:25	10/05/2015 21:56	3334062
LRB	Perfluorooctane sulfonate (PFOS)	537	40	---	<	40		ng/L	---	---	---	---	1.0	10/05/2015 07:25	10/05/2015 21:56	3334062
LRB	Perfluorooctanoic acid (PFOA)	537	20	---	<	20		ng/L	---	---	---	---	1.0	10/05/2015 07:25	10/05/2015 21:56	3334062
FBL	IS-PFOA-13C2	537	N/A	---		12010.60	11800.4	ng/L	102	70 - 140	---	---	1.0	10/05/2015 07:25	10/05/2015 22:27	3334063
FBL	IS-PFOS-13C4	537	N/A	---		6528.02	6324.13	ng/L	103	70 - 140	---	---	1.0	10/05/2015 07:25	10/05/2015 22:27	3334063
FBL	SS-PFDA-13C2	537	N/A	---		94.3781	100	ng/L	94	70 - 130	---	---	1.0	10/05/2015 07:25	10/05/2015 22:27	3334063
FBL	SS-PFHxA-13C2	537	N/A	---		46.9166	50.0	ng/L	94	70 - 130	---	---	1.0	10/05/2015 07:25	10/05/2015 22:27	3334063
FBL	Perfluorobutanesulfonic acid (PFBS)	537	90	---		90.5719	90.0	ng/L	101	50 - 150	---	---	1.0	10/05/2015 07:25	10/05/2015 22:27	3334063
FBL	Perfluoroheptanoic acid (PFHpA)	537	10	---		9.5630	10.0	ng/L	96	50 - 150	---	---	1.0	10/05/2015 07:25	10/05/2015 22:27	3334063
FBL	Perfluorohexanesulfonic acid (PFHxS)	537	30	---		30.0285	30.0	ng/L	100	50 - 150	---	---	1.0	10/05/2015 07:25	10/05/2015 22:27	3334063
FBL	Perfluorononanoic acid (PFNA)	537	20	---		20.0097	20.0	ng/L	100	50 - 150	---	---	1.0	10/05/2015 07:25	10/05/2015 22:27	3334063
FBL	Perfluorooctane sulfonate (PFOS)	537	40	---		39.9255	40.0	ng/L	100	50 - 150	---	---	1.0	10/05/2015 07:25	10/05/2015 22:27	3334063
FBL	Perfluorooctanoic acid (PFOA)	537	20	---		20.2444	20.0	ng/L	101	50 - 150	---	---	1.0	10/05/2015 07:25	10/05/2015 22:27	3334063
FBH	IS-PFOA-13C2	537	N/A	---		11135.80	11800.4	ng/L	94	70 - 140	---	---	1.0	10/05/2015 07:25	10/05/2015 22:58	3334064
FBH	IS-PFOS-13C4	537	N/A	---		6101.50	6324.13	ng/L	96	70 - 140	---	---	1.0	10/05/2015 07:25	10/05/2015 22:58	3334064
FBH	SS-PFDA-13C2	537	N/A	---		97.9034	100	ng/L	98	70 - 130	---	---	1.0	10/05/2015 07:25	10/05/2015 22:58	3334064
FBH	SS-PFHxA-13C2	537	N/A	---		47.8429	50.0	ng/L	96	70 - 130	---	---	1.0	10/05/2015 07:25	10/05/2015 22:58	3334064
FBH	Perfluorobutanesulfonic acid (PFBS)	537	90	---		1073.8000	1125	ng/L	95	70 - 130	---	---	1.0	10/05/2015 07:25	10/05/2015 22:58	3334064
FBH	Perfluoroheptanoic acid (PFHpA)	537	10	---		115.5070	125	ng/L	92	70 - 130	---	---	1.0	10/05/2015 07:25	10/05/2015 22:58	3334064
FBH	Perfluorohexanesulfonic acid (PFHxS)	537	30	---		363.3290	375	ng/L	97	70 - 130	---	---	1.0	10/05/2015 07:25	10/05/2015 22:58	3334064
FBH	Perfluorononanoic acid (PFNA)	537	20	---		230.7970	250	ng/L	92	70 - 130	---	---	1.0	10/05/2015 07:25	10/05/2015 22:58	3334064
FBH	Perfluorooctane sulfonate (PFOS)	537	40	---		473.6320	500	ng/L	95	70 - 130	---	---	1.0	10/05/2015 07:25	10/05/2015 22:58	3334064
FBH	Perfluorooctanoic acid (PFOA)	537	20	---		235.8990	250	ng/L	94	70 - 130	---	---	1.0	10/05/2015 07:25	10/05/2015 22:58	3334064

QC Summary Report (cont.)

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID #
FTB	IS-PFOA-13C2	537	N/A	SG1-TB03-151001		11652.60	11800.4	ng/L	99	70 - 140	---	---	0.98	10/05/2015 07:25	10/06/2015 00:31	3333953
FTB	IS-PFOS-13C4	537	N/A	SG1-TB03-151001		6566.74	6324.13	ng/L	104	70 - 140	---	---	0.98	10/05/2015 07:25	10/06/2015 00:31	3333953
FTB	SS-PFDA-13C2	537	N/A	SG1-TB03-151001		94.2624	100	ng/L	96	70 - 130	---	---	0.98	10/05/2015 07:25	10/06/2015 00:31	3333953
FTB	SS-PFHxA-13C2	537	N/A	SG1-TB03-151001		46.6573	50.0	ng/L	95	70 - 130	---	---	0.98	10/05/2015 07:25	10/06/2015 00:31	3333953
FTB	Perfluorobutanesulfonic acid (PFBS)	537	90	SG1-TB03-151001	<	90		ng/L	---	---	---	---	0.98	10/05/2015 07:25	10/06/2015 00:31	3333953
FTB	Perfluoroheptanoic acid (PFHpA)	537	10	SG1-TB03-151001	<	10		ng/L	---	---	---	---	0.98	10/05/2015 07:25	10/06/2015 00:31	3333953
FTB	Perfluorohexanesulfonic acid (PFHxS)	537	30	SG1-TB03-151001	<	30		ng/L	---	---	---	---	0.98	10/05/2015 07:25	10/06/2015 00:31	3333953
FTB	Perfluorononanoic acid (PFNA)	537	20	SG1-TB03-151001	<	20		ng/L	---	---	---	---	0.98	10/05/2015 07:25	10/06/2015 00:31	3333953
FTB	Perfluorooctane sulfonate (PFOS)	537	40	SG1-TB03-151001	<	40		ng/L	---	---	---	---	0.98	10/05/2015 07:25	10/06/2015 00:31	3333953
FTB	Perfluorooctanoic acid (PFOA)	537	20	SG1-TB03-151001	<	20		ng/L	---	---	---	---	0.98	10/05/2015 07:25	10/06/2015 00:31	3333953
FS	IS-PFOA-13C2	537	N/A	SG1-MW02S-151001		10658.00	10537.5	ng/L	90	70 - 140	---	---	0.95	10/05/2015 07:25	10/06/2015 04:38	3333954
FS	IS-PFOA-13C2	537	N/A	SG1-MW02S-151001		10658.00	10537.5	ng/L	90	70 - 140	---	---	9.5	10/05/2015 07:25	10/06/2015 04:38	3333954
FS	IS-PFOS-13C4	537	N/A	SG1-MW02S-151001		6269.66	5827.03	ng/L	99	70 - 140	---	---	0.95	10/05/2015 07:25	10/06/2015 04:38	3333954
FS	IS-PFOS-13C4	537	N/A	SG1-MW02S-151001		6269.66	5827.03	ng/L	99	70 - 140	---	---	9.5	10/05/2015 07:25	10/06/2015 04:38	3333954
FS	SS-PFDA-13C2	537	N/A	SG1-MW02S-151001		96.0232	100	ng/L	101	70 - 130	---	---	0.95	10/05/2015 07:25	10/06/2015 04:38	3333954
FS	SS-PFHxA-13C2	537	N/A	SG1-MW02S-151001		49.4648	50.0	ng/L	104	70 - 130	---	---	0.95	10/05/2015 07:25	10/06/2015 04:38	3333954
FS	Perfluorobutanesulfonic acid (PFBS)	537	90	SG1-MW02S-151001	<	90		ng/L	---	---	---	---	0.95	10/05/2015 07:25	10/06/2015 04:38	3333954
FS	Perfluoroheptanoic acid (PFHpA)	537	10	SG1-MW02S-151001		30		ng/L	---	---	---	---	0.95	10/05/2015 07:25	10/06/2015 04:38	3333954
FS	Perfluorohexanesulfonic acid (PFHxS)	537	30	SG1-MW02S-151001	<	30		ng/L	---	---	---	---	0.95	10/05/2015 07:25	10/06/2015 04:38	3333954
FS	Perfluorononanoic acid (PFNA)	537	20	SG1-MW02S-151001	<	20		ng/L	---	---	---	---	0.95	10/05/2015 07:25	10/06/2015 04:38	3333954
FS	Perfluorooctane sulfonate (PFOS)	537	40	SG1-MW02S-151001	<	40		ng/L	---	---	---	---	0.95	10/05/2015 07:25	10/06/2015 04:38	3333954
FS	IS-PFOA-13C2	537	N/A	SG1-MW03-151001		10069.10	10537.5	ng/L	85	70 - 140	---	---	0.98	10/05/2015 07:25	10/06/2015 05:09	3333958
FS	IS-PFOA-13C2	537	N/A	SG1-MW03-151001		10069.10	10537.5	ng/L	85	70 - 140	---	---	19.6	10/05/2015 07:25	10/06/2015 05:09	3333958
FS	IS-PFOS-13C4	537	N/A	SG1-MW03-151001		6232.74	5827.03	ng/L	102	70 - 140	---	---	0.98	10/05/2015 07:25	10/06/2015 05:09	3333958
FS	IS-PFOS-13C4	537	N/A	SG1-MW03-151001		6232.74	5827.03	ng/L	102	70 - 140	---	---	19.6	10/05/2015 07:25	10/06/2015 05:09	3333958
FS	SS-PFDA-13C2	537	N/A	SG1-MW03-151001		107.5650	100	ng/L	110	70 - 130	---	---	0.98	10/05/2015 07:25	10/06/2015 05:09	3333958
FS	SS-PFHxA-13C2	537	N/A	SG1-MW03-151001		54.2950	50.0	ng/L	111	70 - 130	---	---	0.98	10/05/2015 07:25	10/06/2015 05:09	3333958
FS	Perfluorobutanesulfonic acid (PFBS)	537	90	SG1-MW03-151001	<	90		ng/L	---	---	---	---	0.98	10/05/2015 07:25	10/06/2015 05:09	3333958
FS	Perfluoroheptanoic acid (PFHpA)	537	10	SG1-MW03-151001		120		ng/L	---	---	---	---	0.98	10/05/2015 07:25	10/06/2015 05:09	3333958
FS	Perfluorohexanesulfonic acid (PFHxS)	537	30	SG1-MW03-151001	<	30		ng/L	---	---	---	---	0.98	10/05/2015 07:25	10/06/2015 05:09	3333958
FS	Perfluorononanoic acid (PFNA)	537	20	SG1-MW03-151001	<	20		ng/L	---	---	---	---	0.98	10/05/2015 07:25	10/06/2015 05:09	3333958
FS	Perfluorooctane sulfonate (PFOS)	537	40	SG1-MW03-151001	<	40		ng/L	---	---	---	---	0.98	10/05/2015 07:25	10/06/2015 05:09	3333958
FS	IS-PFOA-13C2	537	N/A	SG1-MW05-151001		10833.60	10537.5	ng/L	92	70 - 140	---	---	0.94	10/05/2015 07:25	10/06/2015 05:40	3333955
FS	IS-PFOA-13C2	537	N/A	SG1-MW05-151001		10833.60	10537.5	ng/L	92	70 - 140	---	---	9.4	10/05/2015 07:25	10/06/2015 05:40	3333955
FS	IS-PFOS-13C4	537	N/A	SG1-MW05-151001		6258.43	5827.03	ng/L	100	70 - 140	---	---	0.94	10/05/2015 07:25	10/06/2015 05:40	3333955
FS	IS-PFOS-13C4	537	N/A	SG1-MW05-151001		6258.43	5827.03	ng/L	100	70 - 140	---	---	9.4	10/05/2015 07:25	10/06/2015 05:40	3333955
FS	SS-PFDA-13C2	537	N/A	SG1-MW05-151001		95.6626	100	ng/L	102	70 - 130	---	---	0.94	10/05/2015 07:25	10/06/2015 05:40	3333955
FS	SS-PFHxA-13C2	537	N/A	SG1-MW05-151001		47.0676	50.0	ng/L	100	70 - 130	---	---	0.94	10/05/2015 07:25	10/06/2015 05:40	3333955
FS	Perfluorobutanesulfonic acid (PFBS)	537	90	SG1-MW05-151001	<	90		ng/L	---	---	---	---	0.94	10/05/2015 07:25	10/06/2015 05:40	3333955
FS	Perfluoroheptanoic acid (PFHpA)	537	10	SG1-MW05-151001		10		ng/L	---	---	---	---	0.94	10/05/2015 07:25	10/06/2015 05:40	3333955
FS	Perfluorohexanesulfonic acid (PFHxS)	537	30	SG1-MW05-151001	<	30		ng/L	---	---	---	---	0.94	10/05/2015 07:25	10/06/2015 05:40	3333955

QC Summary Report (cont.)

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID #
FS	Perfluorononanoic acid (PFNA)	537	20	SG1-MW05-151001	<	20		ng/L	---	---	---	---	0.94	10/05/2015 07:25	10/06/2015 05:40	3333955
FS	Perfluorooctane sulfonate (PFOS)	537	40	SG1-MW05-151001	<	40		ng/L	---	---	---	---	0.94	10/05/2015 07:25	10/06/2015 05:40	3333955
LFSMM	IS-PFOA-13C2	537	N/A	SG1-MW05-151001		10613.70	11800.4	ng/L	90	70 - 140	---	---	1.0	10/05/2015 07:25	10/06/2015 06:11	3333956
LFSMM	IS-PFOS-13C4	537	N/A	SG1-MW05-151001		6046.24	6324.13	ng/L	96	70 - 140	---	---	1.0	10/05/2015 07:25	10/06/2015 06:11	3333956
LFSMM	SS-PFDA-13C2	537	N/A	SG1-MW05-151001		99.5265	100	ng/L	100	70 - 130	---	---	1.0	10/05/2015 07:25	10/06/2015 06:11	3333956
LFSMM	SS-PFHxA-13C2	537	N/A	SG1-MW05-151001		50.3942	50.0	ng/L	101	70 - 130	---	---	1.0	10/05/2015 07:25	10/06/2015 06:11	3333956
LFSMM	Perfluorobutanesulfonic acid (PFBS)	537	90	SG1-MW05-151001		634.0240	675	ng/L	94	70 - 130	---	---	1.0	10/05/2015 07:25	10/06/2015 06:11	3333956
LFSMM	Perfluoroheptanoic acid (PFHpA)	537	10	SG1-MW05-151001		85.0425	87.8667	ng/L	96	70 - 130	---	---	1.0	10/05/2015 07:25	10/06/2015 06:11	3333956
LFSMM	Perfluorohexanesulfonic acid (PFHxS)	537	30	SG1-MW05-151001		208.5660	225	ng/L	93	70 - 130	---	---	1.0	10/05/2015 07:25	10/06/2015 06:11	3333956
LFSMM	Perfluorononanoic acid (PFNA)	537	20	SG1-MW05-151001		146.5260	150	ng/L	98	70 - 130	---	---	1.0	10/05/2015 07:25	10/06/2015 06:11	3333956
LFSMM	Perfluorooctane sulfonate (PFOS)	537	40	SG1-MW05-151001		274.0950	300	ng/L	91	70 - 130	---	---	1.0	10/05/2015 07:25	10/06/2015 06:11	3333956
LFSMDM	IS-PFOA-13C2	537	N/A	SG1-MW05-151001		10513.10	11800.4	ng/L	89	70 - 140	---	---	1.0	10/05/2015 07:25	10/06/2015 06:42	3333957
LFSMDM	IS-PFOS-13C4	537	N/A	SG1-MW05-151001		6069.87	6324.13	ng/L	96	70 - 140	---	---	1.0	10/05/2015 07:25	10/06/2015 06:42	3333957
LFSMDM	SS-PFDA-13C2	537	N/A	SG1-MW05-151001		103.2360	100	ng/L	103	70 - 130	---	---	1.0	10/05/2015 07:25	10/06/2015 06:42	3333957
LFSMDM	SS-PFHxA-13C2	537	N/A	SG1-MW05-151001		51.0069	50.0	ng/L	102	70 - 130	---	---	1.0	10/05/2015 07:25	10/06/2015 06:42	3333957
LFSMDM	Perfluorobutanesulfonic acid (PFBS)	537	90	SG1-MW05-151001		667.6460	675	ng/L	99	70 - 130	5.2	---	1.0	10/05/2015 07:25	10/06/2015 06:42	3333957
LFSMDM	Perfluoroheptanoic acid (PFHpA)	537	10	SG1-MW05-151001		89.3227	87.8667	ng/L	102	70 - 130	4.9	---	1.0	10/05/2015 07:25	10/06/2015 06:42	3333957
LFSMDM	Perfluorohexanesulfonic acid (PFHxS)	537	30	SG1-MW05-151001		220.3660	225	ng/L	98	70 - 130	5.5	---	1.0	10/05/2015 07:25	10/06/2015 06:42	3333957
LFSMDM	Perfluorononanoic acid (PFNA)	537	20	SG1-MW05-151001		154.4270	150	ng/L	103	70 - 130	5.3	---	1.0	10/05/2015 07:25	10/06/2015 06:42	3333957
LFSMDM	Perfluorooctane sulfonate (PFOS)	537	40	SG1-MW05-151001		290.4310	300	ng/L	97	70 - 130	5.8	---	1.0	10/05/2015 07:25	10/06/2015 06:42	3333957
CCM	IS-PFOA-13C2	537	N/A	---		10537.50	10537.5	ng/L	100	70 - 140	---	---	1.0	09/30/2015 09:59	10/06/2015 07:13	3334079
CCM	IS-PFOS-13C4	537	N/A	---		5827.03	5827.03	ng/L	100	70 - 140	---	---	1.0	09/30/2015 09:59	10/06/2015 07:13	3334079
CCM	SS-PFDA-13C2	537	N/A	---		101.7620	100	ng/L	102	70 - 130	---	---	1.0	09/30/2015 09:59	10/06/2015 07:13	3334079
CCM	SS-PFHxA-13C2	537	N/A	---		48.6432	50.0	ng/L	97	70 - 130	---	---	1.0	09/30/2015 09:59	10/06/2015 07:13	3334079
CCM	Perfluorobutanesulfonic acid (PFBS)	537	90	---		671.9200	675	ng/L	100	70 - 130	---	---	1.0	09/30/2015 09:59	10/06/2015 07:13	3334079
CCM	Perfluoroheptanoic acid (PFHpA)	537	10	---		74.8401	75.0	ng/L	100	70 - 130	---	---	1.0	09/30/2015 09:59	10/06/2015 07:13	3334079
CCM	Perfluorohexanesulfonic acid (PFHxS)	537	30	---		218.7260	225	ng/L	97	70 - 130	---	---	1.0	09/30/2015 09:59	10/06/2015 07:13	3334079
CCM	Perfluorononanoic acid (PFNA)	537	20	---		148.8750	150	ng/L	99	70 - 130	---	---	1.0	09/30/2015 09:59	10/06/2015 07:13	3334079
CCM	Perfluorooctane sulfonate (PFOS)	537	40	---		292.7440	300	ng/L	98	70 - 130	---	---	1.0	09/30/2015 09:59	10/06/2015 07:13	3334079
CCM	Perfluorooctanoic acid (PFOA)	537	20	---		145.8350	150	ng/L	97	70 - 130	---	---	1.0	09/30/2015 09:59	10/06/2015 07:13	3334079
FS	IS-PFOA-13C2	537	N/A	SG1-MW04-151001		10413.40	10537.5	ng/L	99	70 - 140	---	---	0.97	10/05/2015 07:25	10/06/2015 08:15	3333959
FS	IS-PFOA-13C2	537	N/A	SG1-MW04-151001		10413.40	10537.5	ng/L	99	70 - 140	---	---	9.7	10/05/2015 07:25	10/06/2015 08:15	3333959
FS	IS-PFOS-13C4	537	N/A	SG1-MW04-151001		6224.98	5921.9	ng/L	107	70 - 140	---	---	0.97	10/05/2015 07:25	10/06/2015 08:15	3333959
FS	IS-PFOS-13C4	537	N/A	SG1-MW04-151001		6224.98	5921.9	ng/L	107	70 - 140	---	---	9.7	10/05/2015 07:25	10/06/2015 08:15	3333959
FS	SS-PFDA-13C2	537	N/A	SG1-MW04-151001		99.1457	100	ng/L	102	70 - 130	---	---	0.97	10/05/2015 07:25	10/06/2015 08:15	3333959
FS	SS-PFHxA-13C2	537	N/A	SG1-MW04-151001		49.9328	50.0	ng/L	103	70 - 130	---	---	0.97	10/05/2015 07:25	10/06/2015 08:15	3333959
FS	Perfluorobutanesulfonic acid (PFBS)	537	90	SG1-MW04-151001	<	90		ng/L	---	---	---	---	0.97	10/05/2015 07:25	10/06/2015 08:15	3333959
FS	Perfluoroheptanoic acid (PFHpA)	537	10	SG1-MW04-151001		40		ng/L	---	---	---	---	0.97	10/05/2015 07:25	10/06/2015 08:15	3333959
FS	Perfluorohexanesulfonic acid (PFHxS)	537	30	SG1-MW04-151001	<	30		ng/L	---	---	---	---	0.97	10/05/2015 07:25	10/06/2015 08:15	3333959
FS	Perfluorononanoic acid (PFNA)	537	20	SG1-MW04-151001	<	20		ng/L	---	---	---	---	0.97	10/05/2015 07:25	10/06/2015 08:15	3333959
FS	Perfluorooctane sulfonate (PFOS)	537	40	SG1-MW04-151001	<	40		ng/L	---	---	---	---	0.97	10/05/2015 07:25	10/06/2015 08:15	3333959

QC Summary Report (cont.)

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID #
FS	IS-PFOA-13C2	537	N/A	SG1-DS01-151001		10597.90	10537.5	ng/L	101	70 - 140	---	---	0.98	10/05/2015 07:25	10/06/2015 08:46	3333960
FS	IS-PFOA-13C2	537	N/A	SG1-DS01-151001		10597.90	10537.5	ng/L	101	70 - 140	---	---	9.8	10/05/2015 07:25	10/06/2015 08:46	3333960
FS	IS-PFOS-13C4	537	N/A	SG1-DS01-151001		6409.52	5921.9	ng/L	108	70 - 140	---	---	0.98	10/05/2015 07:25	10/06/2015 08:46	3333960
FS	IS-PFOS-13C4	537	N/A	SG1-DS01-151001		6409.52	5921.9	ng/L	108	70 - 140	---	---	9.8	10/05/2015 07:25	10/06/2015 08:46	3333960
FS	SS-PFDA-13C2	537	N/A	SG1-DS01-151001		100.5800	100	ng/L	103	70 - 130	---	---	0.98	10/05/2015 07:25	10/06/2015 08:46	3333960
FS	SS-PFHxA-13C2	537	N/A	SG1-DS01-151001		51.4256	50.0	ng/L	105	70 - 130	---	---	0.98	10/05/2015 07:25	10/06/2015 08:46	3333960
FS	Perfluorobutanesulfonic acid (PFBS)	537	90	SG1-DS01-151001	<	90		ng/L	---	---	---	---	0.98	10/05/2015 07:25	10/06/2015 08:46	3333960
FS	Perfluoroheptanoic acid (PFHpA)	537	10	SG1-DS01-151001		40		ng/L	---	---	---	---	0.98	10/05/2015 07:25	10/06/2015 08:46	3333960
FS	Perfluorohexanesulfonic acid (PFHxS)	537	30	SG1-DS01-151001	<	30		ng/L	---	---	---	---	0.98	10/05/2015 07:25	10/06/2015 08:46	3333960
FS	Perfluorononanoic acid (PFNA)	537	20	SG1-DS01-151001	<	20		ng/L	---	---	---	---	0.98	10/05/2015 07:25	10/06/2015 08:46	3333960
FS	Perfluorooctane sulfonate (PFOS)	537	40	SG1-DS01-151001	<	40		ng/L	---	---	---	---	0.98	10/05/2015 07:25	10/06/2015 08:46	3333960
FS	IS-PFOA-13C2	537	N/A	SG1-MW01-151001		12100.70	10537.5	ng/L	115	70 - 140	---	---	1.02	10/05/2015 07:25	10/06/2015 09:17	3333961
FS	IS-PFOS-13C4	537	N/A	SG1-MW01-151001		6528.03	5827.03	ng/L	112	70 - 140	---	---	1.02	10/05/2015 07:25	10/06/2015 09:17	3333961
FS	SS-PFDA-13C2	537	N/A	SG1-MW01-151001		97.1533	100	ng/L	95	70 - 130	---	---	1.02	10/05/2015 07:25	10/06/2015 09:17	3333961
FS	SS-PFHxA-13C2	537	N/A	SG1-MW01-151001		50.5522	50.0	ng/L	99	70 - 130	---	---	1.02	10/05/2015 07:25	10/06/2015 09:17	3333961
FS	Perfluorobutanesulfonic acid (PFBS)	537	90	SG1-MW01-151001	<	90		ng/L	---	---	---	---	1.02	10/05/2015 07:25	10/06/2015 09:17	3333961
FS	Perfluoroheptanoic acid (PFHpA)	537	10	SG1-MW01-151001	<	10		ng/L	---	---	---	---	1.02	10/05/2015 07:25	10/06/2015 09:17	3333961
FS	Perfluorohexanesulfonic acid (PFHxS)	537	30	SG1-MW01-151001	<	30		ng/L	---	---	---	---	1.02	10/05/2015 07:25	10/06/2015 09:17	3333961
FS	Perfluorononanoic acid (PFNA)	537	20	SG1-MW01-151001	<	20		ng/L	---	---	---	---	1.02	10/05/2015 07:25	10/06/2015 09:17	3333961
FS	Perfluorooctane sulfonate (PFOS)	537	40	SG1-MW01-151001	<	40		ng/L	---	---	---	---	1.02	10/05/2015 07:25	10/06/2015 09:17	3333961
FS	Perfluorooctanoic acid (PFOA)	537	20	SG1-MW01-151001	<	20		ng/L	---	---	---	---	1.02	10/05/2015 07:25	10/06/2015 09:17	3333961
FS	IS-PFOA-13C2	537	N/A	SG1-MW01S-151001		11341.90	10537.5	ng/L	108	70 - 140	---	---	1.01	10/05/2015 07:25	10/06/2015 09:48	3333962
FS	IS-PFOS-13C4	537	N/A	SG1-MW01S-151001		6551.94	5827.03	ng/L	112	70 - 140	---	---	1.01	10/05/2015 07:25	10/06/2015 09:48	3333962
FS	SS-PFDA-13C2	537	N/A	SG1-MW01S-151001		97.7437	100	ng/L	97	70 - 130	---	---	1.01	10/05/2015 07:25	10/06/2015 09:48	3333962
FS	SS-PFHxA-13C2	537	N/A	SG1-MW01S-151001		48.8399	50.0	ng/L	97	70 - 130	---	---	1.01	10/05/2015 07:25	10/06/2015 09:48	3333962
FS	Perfluorobutanesulfonic acid (PFBS)	537	90	SG1-MW01S-151001	<	90		ng/L	---	---	---	---	1.01	10/05/2015 07:25	10/06/2015 09:48	3333962
FS	Perfluoroheptanoic acid (PFHpA)	537	10	SG1-MW01S-151001		60		ng/L	---	---	---	---	1.01	10/05/2015 07:25	10/06/2015 09:48	3333962
FS	Perfluorohexanesulfonic acid (PFHxS)	537	30	SG1-MW01S-151001	<	30		ng/L	---	---	---	---	1.01	10/05/2015 07:25	10/06/2015 09:48	3333962
FS	Perfluorononanoic acid (PFNA)	537	20	SG1-MW01S-151001	<	20		ng/L	---	---	---	---	1.01	10/05/2015 07:25	10/06/2015 09:48	3333962
FS	Perfluorooctane sulfonate (PFOS)	537	40	SG1-MW01S-151001	<	40		ng/L	---	---	---	---	1.01	10/05/2015 07:25	10/06/2015 09:48	3333962
FS	Perfluorooctanoic acid (PFOA)	537	20	SG1-MW01S-151001		60		ng/L	---	---	---	---	1.01	10/05/2015 07:25	10/06/2015 09:48	3333962
FS	IS-PFOA-13C2	537	N/A	SG1-RB01-151001		11227.70	10537.5	ng/L	107	70 - 140	---	---	0.98	10/05/2015 07:25	10/06/2015 10:19	3333963
FS	IS-PFOS-13C4	537	N/A	SG1-RB01-151001		6255.64	5827.03	ng/L	107	70 - 140	---	---	0.98	10/05/2015 07:25	10/06/2015 10:19	3333963
FS	SS-PFDA-13C2	537	N/A	SG1-RB01-151001		93.3658	100	ng/L	95	70 - 130	---	---	0.98	10/05/2015 07:25	10/06/2015 10:19	3333963
FS	SS-PFHxA-13C2	537	N/A	SG1-RB01-151001		46.1663	50.0	ng/L	94	70 - 130	---	---	0.98	10/05/2015 07:25	10/06/2015 10:19	3333963
FS	Perfluorobutanesulfonic acid (PFBS)	537	90	SG1-RB01-151001	<	90		ng/L	---	---	---	---	0.98	10/05/2015 07:25	10/06/2015 10:19	3333963
FS	Perfluoroheptanoic acid (PFHpA)	537	10	SG1-RB01-151001	<	10		ng/L	---	---	---	---	0.98	10/05/2015 07:25	10/06/2015 10:19	3333963
FS	Perfluorohexanesulfonic acid (PFHxS)	537	30	SG1-RB01-151001	<	30		ng/L	---	---	---	---	0.98	10/05/2015 07:25	10/06/2015 10:19	3333963
FS	Perfluorononanoic acid (PFNA)	537	20	SG1-RB01-151001	<	20		ng/L	---	---	---	---	0.98	10/05/2015 07:25	10/06/2015 10:19	3333963
FS	Perfluorooctane sulfonate (PFOS)	537	40	SG1-RB01-151001	<	40		ng/L	---	---	---	---	0.98	10/05/2015 07:25	10/06/2015 10:19	3333963
FS	Perfluorooctanoic acid (PFOA)	537	20	SG1-RB01-151001	<	20		ng/L	---	---	---	---	0.98	10/05/2015 07:25	10/06/2015 10:19	3333963

QC Summary Report (cont.)

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID #
FS	IS-PFOA-13C2	537	N/A	SG1-RB01-150930		11166.40	10537.5	ng/L	106	70 - 140	---	---	0.95	10/05/2015 07:25	10/06/2015 10:50	3333964
FS	IS-PFOS-13C4	537	N/A	SG1-RB01-150930		6192.94	5827.03	ng/L	106	70 - 140	---	---	0.95	10/05/2015 07:25	10/06/2015 10:50	3333964
FS	SS-PFDA-13C2	537	N/A	SG1-RB01-150930		92.0670	100	ng/L	97	70 - 130	---	---	0.95	10/05/2015 07:25	10/06/2015 10:50	3333964
FS	SS-PFHxA-13C2	537	N/A	SG1-RB01-150930		44.0563	50.0	ng/L	93	70 - 130	---	---	0.95	10/05/2015 07:25	10/06/2015 10:50	3333964
FS	Perfluorobutanesulfonic acid (PFBS)	537	90	SG1-RB01-150930	<	90		ng/L	---	---	---	---	0.95	10/05/2015 07:25	10/06/2015 10:50	3333964
FS	Perfluoroheptanoic acid (PFHpA)	537	10	SG1-RB01-150930	<	10		ng/L	---	---	---	---	0.95	10/05/2015 07:25	10/06/2015 10:50	3333964
FS	Perfluorohexanesulfonic acid (PFHxS)	537	30	SG1-RB01-150930	<	30		ng/L	---	---	---	---	0.95	10/05/2015 07:25	10/06/2015 10:50	3333964
FS	Perfluorononanoic acid (PFNA)	537	20	SG1-RB01-150930	<	20		ng/L	---	---	---	---	0.95	10/05/2015 07:25	10/06/2015 10:50	3333964
FS	Perfluorooctane sulfonate (PFOS)	537	40	SG1-RB01-150930	<	40		ng/L	---	---	---	---	0.95	10/05/2015 07:25	10/06/2015 10:50	3333964
FS	Perfluorooctanoic acid (PFOA)	537	20	SG1-RB01-150930	<	20		ng/L	---	---	---	---	0.95	10/05/2015 07:25	10/06/2015 10:50	3333964
FS	IS-PFOA-13C2	537	N/A	SG1-FB01-151001		11040.50	10537.5	ng/L	105	70 - 140	---	---	0.91	10/05/2015 07:25	10/06/2015 11:21	3333965
FS	IS-PFOS-13C4	537	N/A	SG1-FB01-151001		6109.93	5827.03	ng/L	105	70 - 140	---	---	0.91	10/05/2015 07:25	10/06/2015 11:21	3333965
FS	SS-PFDA-13C2	537	N/A	SG1-FB01-151001		86.8713	100	ng/L	95	70 - 130	---	---	0.91	10/05/2015 07:25	10/06/2015 11:21	3333965
FS	SS-PFHxA-13C2	537	N/A	SG1-FB01-151001		42.9741	50.0	ng/L	94	70 - 130	---	---	0.91	10/05/2015 07:25	10/06/2015 11:21	3333965
FS	Perfluorobutanesulfonic acid (PFBS)	537	90	SG1-FB01-151001	<	90		ng/L	---	---	---	---	0.91	10/05/2015 07:25	10/06/2015 11:21	3333965
FS	Perfluoroheptanoic acid (PFHpA)	537	10	SG1-FB01-151001	<	10		ng/L	---	---	---	---	0.91	10/05/2015 07:25	10/06/2015 11:21	3333965
FS	Perfluorohexanesulfonic acid (PFHxS)	537	30	SG1-FB01-151001	<	30		ng/L	---	---	---	---	0.91	10/05/2015 07:25	10/06/2015 11:21	3333965
FS	Perfluorononanoic acid (PFNA)	537	20	SG1-FB01-151001	<	20		ng/L	---	---	---	---	0.91	10/05/2015 07:25	10/06/2015 11:21	3333965
FS	Perfluorooctane sulfonate (PFOS)	537	40	SG1-FB01-151001	<	40		ng/L	---	---	---	---	0.91	10/05/2015 07:25	10/06/2015 11:21	3333965
FS	Perfluorooctanoic acid (PFOA)	537	20	SG1-FB01-151001	<	20		ng/L	---	---	---	---	0.91	10/05/2015 07:25	10/06/2015 11:21	3333965
FS	Perfluorooctanoic acid (PFOA)	537	20	SG1-MW03-151001		4300		ng/L	---	---	---	---	19.6	10/05/2015 07:25	10/06/2015 11:52	3333958
FS	Perfluorooctanoic acid (PFOA)	537	20	SG1-MW02S-151001		750		ng/L	---	---	---	---	9.5	10/05/2015 07:25	10/06/2015 12:23	3333954
FS	Perfluorooctanoic acid (PFOA)	537	20	SG1-MW05-151001		570		ng/L	---	---	---	---	9.4	10/05/2015 07:25	10/06/2015 12:54	3333955
CCH	IS-PFOA-13C2	537	N/A	---		10543.60	10543.6	ng/L	100	70 - 140	---	---	1.0	09/30/2015 09:59	10/06/2015 13:24	3334080
CCH	IS-PFOS-13C4	537	N/A	---		5921.90	5921.9	ng/L	100	70 - 140	---	---	1.0	09/30/2015 09:59	10/06/2015 13:24	3334080
CCH	SS-PFDA-13C2	537	N/A	---		102.1290	100	ng/L	102	70 - 130	---	---	1.0	09/30/2015 09:59	10/06/2015 13:24	3334080
CCH	SS-PFHxA-13C2	537	N/A	---		51.0063	50.0	ng/L	102	70 - 130	---	---	1.0	09/30/2015 09:59	10/06/2015 13:24	3334080
CCH	Perfluorobutanesulfonic acid (PFBS)	537	90	---		1109.2600	1125	ng/L	99	70 - 130	---	---	1.0	09/30/2015 09:59	10/06/2015 13:24	3334080
CCH	Perfluoroheptanoic acid (PFHpA)	537	10	---		123.1860	125	ng/L	99	70 - 130	---	---	1.0	09/30/2015 09:59	10/06/2015 13:24	3334080
CCH	Perfluorohexanesulfonic acid (PFHxS)	537	30	---		368.3800	375	ng/L	98	70 - 130	---	---	1.0	09/30/2015 09:59	10/06/2015 13:24	3334080
CCH	Perfluorononanoic acid (PFNA)	537	20	---		251.5370	250	ng/L	101	70 - 130	---	---	1.0	09/30/2015 09:59	10/06/2015 13:24	3334080
CCH	Perfluorooctane sulfonate (PFOS)	537	40	---		499.6820	500	ng/L	100	70 - 130	---	---	1.0	09/30/2015 09:59	10/06/2015 13:24	3334080
CCH	Perfluorooctanoic acid (PFOA)	537	20	---		246.2870	250	ng/L	99	70 - 130	---	---	1.0	09/30/2015 09:59	10/06/2015 13:24	3334080
FS	Perfluorooctanoic acid (PFOA)	537	20	SG1-MW04-151001		1400		ng/L	---	---	---	---	9.7	10/05/2015 07:25	10/06/2015 13:55	3333959
FS	Perfluorooctanoic acid (PFOA)	537	20	SG1-DS01-151001		1400		ng/L	---	---	---	---	9.8	10/05/2015 07:25	10/06/2015 14:26	3333960
CCM	IS-PFOA-13C2	537	N/A	---		10570.00	10570	ng/L	100	70 - 140	---	---	1.0	09/30/2015 09:59	10/06/2015 14:57	3335056
CCM	IS-PFOS-13C4	537	N/A	---		5882.67	5882.67	ng/L	100	70 - 140	---	---	1.0	09/30/2015 09:59	10/06/2015 14:57	3335056
CCM	SS-PFDA-13C2	537	N/A	---		102.8950	100	ng/L	103	70 - 130	---	---	1.0	09/30/2015 09:59	10/06/2015 14:57	3335056
CCM	SS-PFHxA-13C2	537	N/A	---		49.5403	50.0	ng/L	99	70 - 130	---	---	1.0	09/30/2015 09:59	10/06/2015 14:57	3335056
CCM	Perfluorobutanesulfonic acid (PFBS)	537	90	---		672.3070	675	ng/L	100	70 - 130	---	---	1.0	09/30/2015 09:59	10/06/2015 14:57	3335056
CCM	Perfluoroheptanoic acid (PFHpA)	537	10	---		73.8815	75.0	ng/L	99	70 - 130	---	---	1.0	09/30/2015 09:59	10/06/2015 14:57	3335056

QC Summary Report (cont.)

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID #
CCM	Perfluorohexanesulfonic acid (PFHxS)	537	30	---		222.6320	225	ng/L	99	70 - 130	---	---	1.0	09/30/2015 09:59	10/06/2015 14:57	3335056
CCM	Perfluorononanoic acid (PFNA)	537	20	---		151.4210	150	ng/L	101	70 - 130	---	---	1.0	09/30/2015 09:59	10/06/2015 14:57	3335056
CCM	Perfluorooctane sulfonate (PFOS)	537	40	---		300.8010	300	ng/L	100	70 - 130	---	---	1.0	09/30/2015 09:59	10/06/2015 14:57	3335056
CCM	Perfluorooctanoic acid (PFOA)	537	20	---		148.3810	150	ng/L	99	70 - 130	---	---	1.0	09/30/2015 09:59	10/06/2015 14:57	3335056

Sample Type Key

Type (Abbr.)	Sample Type	Type (Abbr.)	Sample Type
CCH	Continuing Calibration High		
CCL	Continuing Calibration Low		
CCM	Continuing Calibration Mid		
FS	Field Sample		
FTB	Field Trip Blank		
FBH	Fortified Blank High		
FBL	Fortified Blank Low		
LFSMDM	LFSM Duplicate Mid		
LFSMM	LFSM Mid		
LRB	Laboratory Reagent Blank		

END OF REPORT

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LABORATORY REPORT

If you have any questions concerning this report, please do not hesitate to call us at (800) 332-4345 or (574) 233-4777.

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STATE CERTIFICATION LIST

State	Certification	State	Certification
Alabama	40700	Montana	CERT0026
Alaska	IN00035	Nebraska	E87775
Arizona	AZ0432	Nevada	IN000352015-1
Arkansas	IN035	New Hampshire*	2124
California	2920	New Mexico	IN00035
Colorado	IN035	New Jersey*	IN598
Colorado Radiochemistry	IN035	New York*	11398
Connecticut	PH-0132	North Carolina	18700
Delaware	IN035	North Dakota	R-035
Florida (Primary AB)*	E87775	Ohio	87775
Georgia	929	Oklahoma	D9508
Hawaii	IN035	Oregon*	IN200001
Idaho	IN00035/E87775	Pennsylvania*	68-00466
Illinois*	200001	Puerto Rico	IN00035
Illinois Microbiology	200001	Rhode Island	LAO00241
Indiana Chemistry	C-71-01	South Carolina	95005
Indiana Microbiology	M-76-07	South Dakota	IN00035
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Kansas*	E-10233	Texas*	T104704187-14-7
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Maryland	209	Virginia*	00127
Massachusetts	M-IN035	Washington	C837
Michigan	9926	West Virginia	9927 C
Minnesota*	018-999-338	Wisconsin	999766900
Mississippi	IN035	Wyoming	IN035
Missouri	880		

*NELAP/TNI Recognized Accreditation Bodies

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110 South Hill Street
South Bend, IN 46617
Tel: (574) 233-4777
Fax: (574) 233-8207
1 800 332 4345

Laboratory Report

Client: Ramboll Environ

Attn: Jason Wilkinson
3 Carlisle Road
Suite 210
Westford, MA 01886

Copies to: None

Report: 351818
Priority: Rush Written
Status: Final
PWS ID: Not Supplied

Sample Information

EEA ID #	Client ID	Method	Collected Date / Time	Collected By:	Received Date / Time
3348699	SG1-FB01-151027	537	10/27/15 14:45	Client	10/29/15 09:45
3348700	SG1-RB01-151027	537	10/27/15 14:50	Client	10/29/15 09:45
3348701	SG1-North Manhole-151027	537	10/27/15 15:30	Client	10/29/15 09:45
3348702	SG1-TP01-151027/FTB	537	10/27/15 14:00	EEA	10/29/15 09:45
3348703	SG1-Sump Pit -151027	537	10/27/15 14:20	Client	10/29/15 09:45
3348704	SG1-DS01-151027	537	10/27/15 15:45	Client	10/29/15 09:45
3348705	SG1-RB02-151027	537	10/27/15 18:00	Client	10/29/15 09:45

Report Summary

Note: In the Method 537 analysis, the SS recovery in sample SG1-North Manhole-151027 was low (58%) outside the acceptance limits of 70-130% recovery. Any result is potentially low biased.

Detailed quantitative results are presented on the following pages. The results presented relate only to the samples provided for analysis.

We appreciate the opportunity to provide you with this analysis. If you have any questions concerning this report, please do not hesitate to call Nathan Trowbridge at (574) 233-4777.

Note: This report may not be reproduced, except in full, without written approval from EEA.

C.S. Manager — 11/03/2015

Authorized Signature — Title — Date

Client Name: Ramboll Environ
Report #: 351818

Client Name: Ramboll Environ

Report #: 351818

Sampling Point: SG1-FB01-151027

PWS ID: Not Supplied

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	90	< 90	ng/L	10/30/15 07:20	10/31/15 23:07	3348699
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	10	< 10	ng/L	10/30/15 07:20	10/31/15 23:07	3348699
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	30	< 30	ng/L	10/30/15 07:20	10/31/15 23:07	3348699
375-95-1	Perfluorononanoic acid (PFNA)	537	---	20	< 20	ng/L	10/30/15 07:20	10/31/15 23:07	3348699
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	40	< 40	ng/L	10/30/15 07:20	10/31/15 23:07	3348699
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	20	< 20	ng/L	10/30/15 07:20	10/31/15 23:07	3348699

Sampling Point: SG1-RB01-151027

PWS ID: Not Supplied

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	90	< 90	ng/L	10/30/15 07:20	10/31/15 23:38	3348700
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	10	< 10	ng/L	10/30/15 07:20	10/31/15 23:38	3348700
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	30	< 30	ng/L	10/30/15 07:20	10/31/15 23:38	3348700
375-95-1	Perfluorononanoic acid (PFNA)	537	---	20	< 20	ng/L	10/30/15 07:20	10/31/15 23:38	3348700
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	40	< 40	ng/L	10/30/15 07:20	10/31/15 23:38	3348700
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	20	< 20	ng/L	10/30/15 07:20	10/31/15 23:38	3348700

Sampling Point: SG1-North Manhole-151027

PWS ID: Not Supplied

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	90	< 90	ng/L	10/30/15 07:20	11/01/15 06:52	3348701
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	10	**20**	ng/L	10/30/15 07:20	11/01/15 06:52	3348701
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	30	< 30	ng/L	10/30/15 07:20	11/01/15 06:52	3348701
375-95-1	Perfluorononanoic acid (PFNA)	537	---	20	< 20	ng/L	10/30/15 07:20	11/01/15 06:52	3348701
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	40	< 40	ng/L	10/30/15 07:20	11/01/15 06:52	3348701
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	20	**1000**	ng/L	10/30/15 07:20	11/01/15 06:21	3348701

Client Name: Ramboll Environ

Report #: 351818

Sampling Point: SG1-TP01-151027/FTB

PWS ID: Not Supplied

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	90	< 90	ng/L	10/30/15 07:20	10/31/15 22:36	3348702
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	10	< 10	ng/L	10/30/15 07:20	10/31/15 22:36	3348702
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	30	< 30	ng/L	10/30/15 07:20	10/31/15 22:36	3348702
375-95-1	Perfluorononanoic acid (PFNA)	537	---	20	< 20	ng/L	10/30/15 07:20	10/31/15 22:36	3348702
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	40	< 40	ng/L	10/30/15 07:20	10/31/15 22:36	3348702
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	20	< 20	ng/L	10/30/15 07:20	10/31/15 22:36	3348702

Sampling Point: SG1-Sump Pit -151027

PWS ID: Not Supplied

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	90	< 90	ng/L	10/30/15 07:20	11/01/15 00:09	3348703
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	10	**10**	ng/L	10/30/15 07:20	11/01/15 00:09	3348703
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	30	< 30	ng/L	10/30/15 07:20	11/01/15 00:09	3348703
375-95-1	Perfluorononanoic acid (PFNA)	537	---	20	< 20	ng/L	10/30/15 07:20	11/01/15 00:09	3348703
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	40	< 40	ng/L	10/30/15 07:20	11/01/15 00:09	3348703
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	20	**850**	ng/L	10/30/15 07:20	11/01/15 05:20	3348703

Sampling Point: SG1-DS01-151027

PWS ID: Not Supplied

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	90	< 90	ng/L	10/30/15 07:20	11/01/15 00:40	3348704
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	10	**10**	ng/L	10/30/15 07:20	11/01/15 00:40	3348704
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	30	< 30	ng/L	10/30/15 07:20	11/01/15 00:40	3348704
375-95-1	Perfluorononanoic acid (PFNA)	537	---	20	< 20	ng/L	10/30/15 07:20	11/01/15 00:40	3348704
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	40	< 40	ng/L	10/30/15 07:20	11/01/15 00:40	3348704
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	20	**470**	ng/L	10/30/15 07:20	11/01/15 05:50	3348704

Client Name: Ramboll Environ

Report #: 351818

Sampling Point: SG1-RB02-151027

PWS ID: Not Supplied

EEA Methods									
Analyte ID #	Analyte	Method	Reg Limit	MRL†	Result	Units	Preparation Date	Analyzed Date	EEA ID #
375-73-5	Perfluorobutanesulfonic acid (PFBS)	537	---	90	< 90	ng/L	10/30/15 07:20	11/01/15 01:10	3348705
375-85-9	Perfluoroheptanoic acid (PFHpA)	537	---	10	< 10	ng/L	10/30/15 07:20	11/01/15 01:10	3348705
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	537	---	30	< 30	ng/L	10/30/15 07:20	11/01/15 01:10	3348705
375-95-1	Perfluorononanoic acid (PFNA)	537	---	20	< 20	ng/L	10/30/15 07:20	11/01/15 01:10	3348705
1763-23-1	Perfluorooctane sulfonate (PFOS)	537	---	40	< 40	ng/L	10/30/15 07:20	11/01/15 01:10	3348705
335-67-1	Perfluorooctanoic acid (PFOA)	537	---	20	< 20	ng/L	10/30/15 07:20	11/01/15 01:10	3348705

† EEA has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices.

Reg Limit Type:	MCL	SMCL	AL
Symbol:	*	^	!

Lab Definitions

Continuing Calibration Check Standard (CCC) / Continuing Calibration Verification (CCV) / Initial Calibration Verification Standard (ICV) / Initial Performance Check (IPC) - is a standard containing one or more of the target analytes that is prepared from the same standards used to calibrate the instrument. This standard is used to verify the calibration curve at the beginning of each analytical sequence, and may also be analyzed throughout and at the end of the sequence. The concentration of continuing standards may be varied, when prescribed by the reference method, so that the range of the calibration curve is verified on a regular basis. CCL, CCM, and CCH are the CCC standards at low, mid, and high concentration levels, respectively.

Internal Standards (IS) - are pure compounds with properties similar to the analytes of interest, which are added to field samples or extracts, calibration standards, and quality control standards at a known concentration. They are used to measure the relative responses of the analytes of interest and surrogates in the sample, calibration standard or quality control standard.

Laboratory Duplicate (LD) - is a field sample aliquot taken from the same sample container in the laboratory and analyzed separately using identical procedures. Analysis of laboratory duplicates provides a measure of the precision of the laboratory procedures.

Laboratory Fortified Blank (LFB) / Laboratory Control Sample (LCS) - is an aliquot of reagent water to which known concentrations of the analytes of interest are added. The LFB is analyzed exactly the same as the field samples. LFBs are used to determine whether the method is in control. FBL, FBM, and FBH are the LFB samples at low, mid, and high concentration levels, respectively.

Laboratory Method Blank (LMB) / Laboratory Reagent Blank (LRB) - is a sample of reagent water included in the sample batch analyzed in the same way as the associated field samples. The LMB is used to determine if method analytes or other background contamination have been introduced during the preparation or analytical procedure. The LMB is analyzed exactly the same as the field samples.

Laboratory Trip Blank (LTB) / Field Reagent Blank (FRB) - is a sample of laboratory reagent water placed in a sample container in the laboratory and treated as a field sample, including storage, preservation, and all analytical procedures. The FRB/LTB container follows the collection bottles to and from the collection site, but the FRB/LTB is not opened at any time during the trip. The FRB/LTB is primarily a travel blank used to verify that the samples were not contaminated during shipment.

Matrix Spike Duplicate Sample (MSD) / Laboratory Fortified Sample Matrix Duplicate (LFSMD) - is a sample al6iquot taken from the same field sample source as the Matrix Spike Sample to which known quantities of the analytes of interest are added in the laboratory. The MSD is analyzed exactly the same as the field samples. Analysis of the MSD provides a measure of the precision of the laboratory procedures in a specific matrix. SDL, SDM, and SDH / LFSMDL, LFSMDM, and LFSMDH are the MSD or LFSMD at low, mid, and high concentration levels, respectively.

Matrix Spike Sample (MS) / Laboratory Fortified Sample Matrix (LFSM) - is a sample aliquot taken from field sample source to which known quantities of the analytes of interest are added in the laboratory. The MS is analyzed exactly the same as the field samples. The purpose is to demonstrate recovery of the analytes from a sample matrix to determine if the specific matrix contributes bias to the analytical results. MSL, MSM, and MSH / LFSML, LFSMM, and LFSMH are the MS or LFSM at low, mid, and high concentration levels, respectively.

Quality Control Standard (QCS) / Second Source Calibration Verification (SSCV) - is a solution containing known concentrations of the analytes of interest prepared from a source different from the source of the calibration standards. The solution is obtained from a second manufacturer or lot if the lot can be demonstrated by the manufacturer as prepared independently from other lots. The QCS sample is analyzed using the same procedures as field samples. The QCS is used as a check on the calibration standards used in the method on a routine basis.

Reporting Limit Check (RLC) / Initial Calibration Check Standard (ICCS) - is a procedural standard that is analyzed each day to evaluate instrument performance at or below the minimum reporting limit (MRL).

Surrogate Standard (SS) / Surrogate Analyte (SUR) - is a pure compound with properties similar to the analytes of interest, which is highly unlikely to be found in any field sample, that is added to the field samples, calibration standards, blanks and quality control standards before sample preparation. The SS is used to evaluate the efficiency of the sample preparation process.

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110 S. Hill Street
South Bend, IN 46617
T: 1.800.332.4345
F: 1.574.233.8207

Order # 185679
Batch # 351818

www.eurofinsanalytical.com

CHAIN OF CUSTODY RECORD

Page 1 of 2

Shaded area for EEA use only

REPORT TO: JASON WILKINSON
RAMBOLL ENVIRON
5 CARLISLE RD, SUITE 210
WESTFORD, MA 01886

BILL TO: SAME AS REPORT

SAMPLER (Signature): Jason Wilkinson

COMPLIANCE MONITORING: Yes [ ] No [X]

STATE of origin: NY

POPULATION SERVED:

SOURCE WATER:

PWS ID#:

PROJECT NAME: SGP Hoosick Falls

PO#:

	LAB Number	COLLECTION DATE	TIME	AM	PM	SAMPLING SITE	TEST NAME	Receiving Checks	CHLORINATED YES	CHLORINATED NO	# OF CONTAINERS	MATRIX CODE	TURNAROUND TIME
1	3348699	10/27/15	14:45		X	SG1-FB01-151027	537 / Alkyl Acids *	A		X	3	DW	RW
2	700	10/27/15	14:50		X	SG1-RB01-151027	537 / Alkyl Acids *	A		X	3	DW	RW
3	701	10/27/15	15:30		X	SG1-NORTHMANHOLE-151027	537 / Alkyl Acids * *	A		X	3	WW	RW
4	702	10/27/15	11:00		X	SG1-TB01-151027	537 / Alkyl Acids * FTB BOTTLE. KD	A		X	1	RW	RW
5							537 / Alkyl Acids						
6							537 / Alkyl Acids						
7							537 / Alkyl Acids						
8						* EPA Method 537 for the	537 / Alkyl Acids						
9						following PFCs: PFOA, PFOS, PFHpA	537 / Alkyl Acids						
10						PFHxS, PFNA, PFOS	537 / Alkyl Acids						
11							537 / Alkyl Acids						
12						No other PFCs should be reported	537 / Alkyl Acids						
13						Field Blank	537 / Alkyl Acids						
14													

RUSH WRITTEN

RELINQUISHED BY (Signature)	DATE	TIME	RECEIVED BY (Signature)	DATE	TIME
Jason Wilkinson	10/28/15	12:00 AM [X] PM			AM PM
RELINQUISHED BY (Signature)	DATE	TIME	RECEIVED BY (Signature)	DATE	TIME
		AM PM			AM PM
RELINQUISHED BY (Signature)	DATE	TIME	RECEIVED FOR LABORATORY BY	DATE	TIME
		AM PM	K Dynes	10-29-15	0945 AM PM

LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIENT

LAB COMMENTS: * Sample has a very poor matrix. KD

CONDITIONS UPON RECEIPT (check one): [X] Ice: Wet/Blue [ ] Ambient 2.8 °C Upon Receipt [ ] N/A

PRESERVATIVE CODES

1 = HNO_3 6 = Ascorbic Acid
2 = H_2SO_4 7 = MEAA Buffer
3 = HCl 8 = NaOH/Ralgh
4 = $Na_2S_2O_3$ 9 = NH_4Cl
5 = Na_2SO_3 10 = EDA

MATRIX CODES

DW = Drinking Water
PW = Pretreatment Water
GW = Ground Water
PW = Process Water
SW = Surface Water
PW = Pool Water
WW = Waste Water

TURN-AROUND TIME (TAT) - SURCHARGES

SW = Standard Written* (15 working days) 0%
RV* = Rush Verbal (5 working days) 50%
RW* = Rush Written* (5 working days) 75%
IV* = Immediate Verbal (3 working days) 100%
IW* = Immediate Written (3 working days) 125%
SP* = Weekend Verbal CALL
STAT* = Less than 48 hours CALL

* Phone call expedited service not available for all testing

Samples received unannounced with less than 48 hours holding time remaining may be subject to additional charges.

Sample analysis will be provided according to the Standard EEA/Water Services Terms, which are available upon request. Any other terms proposed by Customer are rejected material alterations and are not part of the agreement between the parties.

ED_001342_00000356-00182

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South Bend, IN 46617
T: 1.800.332.4345
F: 1.574.233.8207

Order # 285679

Batch #

CHAIN OF CUSTODY RECORD

Page 1 of 1 of 2

Shaded area for EEA use only

REPORT TO: JASON WILKINSON
RAMBOLL ENVIRON
3 CARLISLE RD, WESTFORD, MA 01886
SUITE 210

BILL TO: SAME AS REPORT

SAMPLER (Signature): Jason Wilkinson

STATE (of sample origin): NY

PWS ID#:

PROJECT NAME: SGPP Hoosick Falls

PO#:

COMPLIANCE MONITORING: Yes [ ] No [X]

POPULATION SERVED:

SOURCE WATER:

	LAB Number	COLLECTION DATE	TIME	AM	PM	SAMPLING SITE	TEST NAME	Receiving Checks		CHLORINATED YES	CHLORINATED NO	# OF CONTAINERS	MATRIX CODE	TURNAROUND TIME
1	3348703	10/27/15	14:20		X	SG1-SUMPPIT-151027	537 / Alkyl Acids *		A		X	3	WW	RW
2	704	10/27/15	15:45		X	SG1-DS02-151027	537 / Alkyl Acids *		A		X	3	WW	RW
3	705	10/27/15	18:00		X	SG1-RS02-151027	537 / Alkyl Acids *		A		X	3	DW	RW
4							537 / Alkyl Acids							
5							537 / Alkyl Acids							
6							537 / Alkyl Acids							
7							537 / Alkyl Acids							
8							537 / Alkyl Acids							
9						*EPA method 537 for the following	537 / Alkyl Acids							
10						PFCs: PFOA, PFBS, PFHpA, PFHxS,	537 / Alkyl Acids							
11						PFNA, PFOS	537 / Alkyl Acids							
12						No other PFCs should be reported	537 / Alkyl Acids							
13						Field Blank	537 / Alkyl Acids							
14														

RUSH WRITTEN

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
Jason Wilkinson	10/28/15	10:00 AM PM			AM PM
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)	DATE	TIME
		AM PM			AM PM
RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED FOR LABORATORY BY	DATE	TIME
		AM PM	K Dennis	10-29-15	09:15 AM PM

LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIENT

LAB COMMENTS
* Sample has a very poor matrix. KD
Limbo pending result from the first set of samples per NT. KD 10-29-2015

CONDITIONS UPON RECEIPT (check one)
X Iced/Wet Blue ____ Ambient 28 °C Upon Receipt ____ N/A

PRESERVATIVE CODES:

1= HNO_3 6=Ascorbic Acid
2= H_2SO_4 7=MCAA Buffer
3= HCl 8= $NaOH/NaBH_4$
4= $Na_2S_2O_3$ 9=NH_4Cl
5= Na_2SO_3 10=EDA

MATRIX CODES:

DW=Drinking Water
RW=Reagent Water
GW=Ground Water
EW=Exposure Water
SW=Surface Water
PW=Pool Water
WW=Waste Water

TURN-AROUND TIME (TAT) SURCHARGES

SW = Standard Written: (15 working days) 0%
RV* = Rush Verbal: (5 working days) 50%
RW* = Rush Written: (5 working days) 75%
IV* = Immediate Verbal: (3 working days) 100%
IW* = Immediate Written: (3 working days) 125%
SP* = Weekend, Holiday CALL
STAT* = Less than 48 hours CALL

* Please call, expedited service not available for all testing

Samples received unannounced with less than 48 hours holding time remaining may be subject of additional charges.

06-LO-F0436 Issue 3.0 Effective Date: 2014-05-01

Sample analysis will be provided according to the standard EEA/Water Services Terms, which are available upon request. Any other terms proposed by Customer are deemed material alterations and are rejected unless expressly agree to in writing by EEA

ED_001342_00000356-00183

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Run Log

Run ID: **209357** Method: **537**

Type	Sample Id	Sample Site	Matrix	Instrument ID	Analysis Date	Calibration File
CCL	3349685		OS	CY	10/31/2015 18:59	103115M537a.mdb
LRB	3349667		RW	CY	10/31/2015 20:32	103115M537a.mdb
FBL	3349668		RW	CY	10/31/2015 21:03	103115M537a.mdb
FBH	3349669		RW	CY	10/31/2015 21:34	103115M537a.mdb
FTB	3348702	SG1-TP01-151027/FTB	RW	CY	10/31/2015 22:36	103115M537a.mdb
FS	3348699	SG1-FB01-151027	GW	CY	10/31/2015 23:07	103115M537a.mdb
FS	3348700	SG1-RB01-151027	GW	CY	10/31/2015 23:38	103115M537a.mdb
FS	3348703	SG1-Sump Pit -151027	GW	CY	11/01/2015 00:09	103115M537a.mdb
FS	3348704	SG1-DS01-151027	GW	CY	11/01/2015 00:40	103115M537a.mdb
FS	3348705	SG1-RB02-151027	GW	CY	11/01/2015 01:10	103115M537a.mdb
CCM	3349686		OS	CY	11/01/2015 04:18	103115M537a.mdb
FS	3348703	SG1-Sump Pit -151027	GW	CY	11/01/2015 05:20	103115M537a.mdb
FS	3348704	SG1-DS01-151027	GW	CY	11/01/2015 05:50	103115M537a.mdb
FS	3348701	SG1-North Manhole-151027	GW	CY	11/01/2015 06:52	103115M537a.mdb
CCH	3349687		OS	CY	11/01/2015 07:23	103115M537a.mdb

QC Summary Report

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID #
CCL	IS-PFOA-13C2	537	N/A	---		2878.88	2878.88	ng/L	100	70 - 140	---	---	1.0	10/26/2015 09:55	10/31/2015 18:59	3349685
CCL	IS-PFOS-13C4	537	N/A	---		1993.48	1993.48	ng/L	100	70 - 140	---	---	1.0	10/26/2015 09:55	10/31/2015 18:59	3349685
CCL	SS-PFDA-13C2	537	N/A	---		97.4636	100	ng/L	97	70 - 130	---	---	1.0	10/26/2015 09:55	10/31/2015 18:59	3349685
CCL	SS-PFHxA-13C2	537	N/A	---		49.7726	50.0	ng/L	100	70 - 130	---	---	1.0	10/26/2015 09:55	10/31/2015 18:59	3349685
CCL	Perfluorobutanesulfonic acid (PFBS)	537	90	---		88.7115	90.0	ng/L	99	50 - 150	---	---	1.0	10/26/2015 09:55	10/31/2015 18:59	3349685
CCL	Perfluoroheptanoic acid (PFHpA)	537	10	---		10.2213	10.0	ng/L	102	50 - 150	---	---	1.0	10/26/2015 09:55	10/31/2015 18:59	3349685
CCL	Perfluorohexanesulfonic acid (PFHxS)	537	30	---		29.2905	30.0	ng/L	98	50 - 150	---	---	1.0	10/26/2015 09:55	10/31/2015 18:59	3349685
CCL	Perfluorononanoic acid (PFNA)	537	20	---		21.5712	20.0	ng/L	108	50 - 150	---	---	1.0	10/26/2015 09:55	10/31/2015 18:59	3349685
CCL	Perfluorooctane sulfonate (PFOS)	537	40	---		39.8476	40.0	ng/L	100	50 - 150	---	---	1.0	10/26/2015 09:55	10/31/2015 18:59	3349685
CCL	Perfluorooctanoic acid (PFOA)	537	20	---		19.8062	20.0	ng/L	99	50 - 150	---	---	1.0	10/26/2015 09:55	10/31/2015 18:59	3349685
LRB	IS-PFOA-13C2	537	N/A	---		2783.67	2878.88	ng/L	97	70 - 140	---	---	1.0	10/30/2015 07:20	10/31/2015 20:32	3349667
LRB	IS-PFOS-13C4	537	N/A	---		1979.71	1993.48	ng/L	99	70 - 140	---	---	1.0	10/30/2015 07:20	10/31/2015 20:32	3349667
LRB	SS-PFDA-13C2	537	N/A	---		96.4302	100	ng/L	96	70 - 130	---	---	1.0	10/30/2015 07:20	10/31/2015 20:32	3349667
LRB	SS-PFHxA-13C2	537	N/A	---		50.0773	50.0	ng/L	100	70 - 130	---	---	1.0	10/30/2015 07:20	10/31/2015 20:32	3349667
LRB	Perfluorobutanesulfonic acid (PFBS)	537	90	---	<	90		ng/L	---	---	---	---	1.0	10/30/2015 07:20	10/31/2015 20:32	3349667
LRB	Perfluoroheptanoic acid (PFHpA)	537	10	---	<	10		ng/L	---	---	---	---	1.0	10/30/2015 07:20	10/31/2015 20:32	3349667
LRB	Perfluorohexanesulfonic acid (PFHxS)	537	30	---	<	30		ng/L	---	---	---	---	1.0	10/30/2015 07:20	10/31/2015 20:32	3349667
LRB	Perfluorononanoic acid (PFNA)	537	20	---	<	20		ng/L	---	---	---	---	1.0	10/30/2015 07:20	10/31/2015 20:32	3349667
LRB	Perfluorooctane sulfonate (PFOS)	537	40	---	<	40		ng/L	---	---	---	---	1.0	10/30/2015 07:20	10/31/2015 20:32	3349667
LRB	Perfluorooctanoic acid (PFOA)	537	20	---	<	20		ng/L	---	---	---	---	1.0	10/30/2015 07:20	10/31/2015 20:32	3349667
FBL	IS-PFOA-13C2	537	N/A	---		2847.51	2878.88	ng/L	99	70 - 140	---	---	1.0	10/30/2015 07:20	10/31/2015 21:03	3349668
FBL	IS-PFOS-13C4	537	N/A	---		2010.62	1993.48	ng/L	101	70 - 140	---	---	1.0	10/30/2015 07:20	10/31/2015 21:03	3349668
FBL	SS-PFDA-13C2	537	N/A	---		102.1850	100	ng/L	102	70 - 130	---	---	1.0	10/30/2015 07:20	10/31/2015 21:03	3349668
FBL	SS-PFHxA-13C2	537	N/A	---		50.3218	50.0	ng/L	101	70 - 130	---	---	1.0	10/30/2015 07:20	10/31/2015 21:03	3349668
FBL	Perfluorobutanesulfonic acid (PFBS)	537	90	---		88.6092	90.0	ng/L	98	50 - 150	---	---	1.0	10/30/2015 07:20	10/31/2015 21:03	3349668
FBL	Perfluoroheptanoic acid (PFHpA)	537	10	---		10.5579	10.0	ng/L	106	50 - 150	---	---	1.0	10/30/2015 07:20	10/31/2015 21:03	3349668
FBL	Perfluorohexanesulfonic acid (PFHxS)	537	30	---		28.4623	30.0	ng/L	95	50 - 150	---	---	1.0	10/30/2015 07:20	10/31/2015 21:03	3349668
FBL	Perfluorononanoic acid (PFNA)	537	20	---		21.4138	20.0	ng/L	107	50 - 150	---	---	1.0	10/30/2015 07:20	10/31/2015 21:03	3349668
FBL	Perfluorooctane sulfonate (PFOS)	537	40	---		40.5209	40.0	ng/L	101	50 - 150	---	---	1.0	10/30/2015 07:20	10/31/2015 21:03	3349668
FBL	Perfluorooctanoic acid (PFOA)	537	20	---		19.9635	20.0	ng/L	100	50 - 150	---	---	1.0	10/30/2015 07:20	10/31/2015 21:03	3349668
FBH	IS-PFOA-13C2	537	N/A	---		2905.39	2878.88	ng/L	101	70 - 140	---	---	1.0	10/30/2015 07:20	10/31/2015 21:34	3349669
FBH	IS-PFOS-13C4	537	N/A	---		1965.85	1993.48	ng/L	99	70 - 140	---	---	1.0	10/30/2015 07:20	10/31/2015 21:34	3349669
FBH	SS-PFDA-13C2	537	N/A	---		102.8380	100	ng/L	103	70 - 130	---	---	1.0	10/30/2015 07:20	10/31/2015 21:34	3349669
FBH	SS-PFHxA-13C2	537	N/A	---		49.1113	50.0	ng/L	98	70 - 130	---	---	1.0	10/30/2015 07:20	10/31/2015 21:34	3349669
FBH	Perfluorobutanesulfonic acid (PFBS)	537	90	---		1056.7600	1125	ng/L	94	70 - 130	---	---	1.0	10/30/2015 07:20	10/31/2015 21:34	3349669
FBH	Perfluoroheptanoic acid (PFHpA)	537	10	---		124.7580	125	ng/L	100	70 - 130	---	---	1.0	10/30/2015 07:20	10/31/2015 21:34	3349669
FBH	Perfluorohexanesulfonic acid (PFHxS)	537	30	---		358.1440	375	ng/L	96	70 - 130	---	---	1.0	10/30/2015 07:20	10/31/2015 21:34	3349669
FBH	Perfluorononanoic acid (PFNA)	537	20	---		243.7330	250	ng/L	97	70 - 130	---	---	1.0	10/30/2015 07:20	10/31/2015 21:34	3349669
FBH	Perfluorooctane sulfonate (PFOS)	537	40	---		478.9060	500	ng/L	96	70 - 130	---	---	1.0	10/30/2015 07:20	10/31/2015 21:34	3349669
FBH	Perfluorooctanoic acid (PFOA)	537	20	---		233.6850	250	ng/L	93	70 - 130	---	---	1.0	10/30/2015 07:20	10/31/2015 21:34	3349669

QC Summary Report (cont.)

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID #
FTB	IS-PFOA-13C2	537	N/A	SG1-TP01-151027/FTB		3018.28	2878.88	ng/L	105	70 - 140	---	---	0.99	10/30/2015 07:20	10/31/2015 22:36	3348702
FTB	IS-PFOS-13C4	537	N/A	SG1-TP01-151027/FTB		2118.90	1993.48	ng/L	106	70 - 140	---	---	0.99	10/30/2015 07:20	10/31/2015 22:36	3348702
FTB	SS-PFDA-13C2	537	N/A	SG1-TP01-151027/FTB		94.2769	100	ng/L	95	70 - 130	---	---	0.99	10/30/2015 07:20	10/31/2015 22:36	3348702
FTB	SS-PFHxA-13C2	537	N/A	SG1-TP01-151027/FTB		49.2332	50.0	ng/L	99	70 - 130	---	---	0.99	10/30/2015 07:20	10/31/2015 22:36	3348702
FTB	Perfluorobutanesulfonic acid (PFBS)	537	90	SG1-TP01-151027/FTB	<	90		ng/L	---	---	---	---	0.99	10/30/2015 07:20	10/31/2015 22:36	3348702
FTB	Perfluoroheptanoic acid (PFHpA)	537	10	SG1-TP01-151027/FTB	<	10		ng/L	---	---	---	---	0.99	10/30/2015 07:20	10/31/2015 22:36	3348702
FTB	Perfluorohexanesulfonic acid (PFHxS)	537	30	SG1-TP01-151027/FTB	<	30		ng/L	---	---	---	---	0.99	10/30/2015 07:20	10/31/2015 22:36	3348702
FTB	Perfluorononanoic acid (PFNA)	537	20	SG1-TP01-151027/FTB	<	20		ng/L	---	---	---	---	0.99	10/30/2015 07:20	10/31/2015 22:36	3348702
FTB	Perfluorooctane sulfonate (PFOS)	537	40	SG1-TP01-151027/FTB	<	40		ng/L	---	---	---	---	0.99	10/30/2015 07:20	10/31/2015 22:36	3348702
FTB	Perfluorooctanoic acid (PFOA)	537	20	SG1-TP01-151027/FTB	<	20		ng/L	---	---	---	---	0.99	10/30/2015 07:20	10/31/2015 22:36	3348702
FS	IS-PFOA-13C2	537	N/A	SG1-FB01-151027		2978.51	2878.88	ng/L	103	70 - 140	---	---	1.0	10/30/2015 07:20	10/31/2015 23:07	3348699
FS	IS-PFOS-13C4	537	N/A	SG1-FB01-151027		2106.11	1993.48	ng/L	106	70 - 140	---	---	1.0	10/30/2015 07:20	10/31/2015 23:07	3348699
FS	SS-PFDA-13C2	537	N/A	SG1-FB01-151027		94.0613	100	ng/L	94	70 - 130	---	---	1.0	10/30/2015 07:20	10/31/2015 23:07	3348699
FS	SS-PFHxA-13C2	537	N/A	SG1-FB01-151027		48.8766	50.0	ng/L	98	70 - 130	---	---	1.0	10/30/2015 07:20	10/31/2015 23:07	3348699
FS	Perfluorobutanesulfonic acid (PFBS)	537	90	SG1-FB01-151027	<	90		ng/L	---	---	---	---	1.0	10/30/2015 07:20	10/31/2015 23:07	3348699
FS	Perfluoroheptanoic acid (PFHpA)	537	10	SG1-FB01-151027	<	10		ng/L	---	---	---	---	1.0	10/30/2015 07:20	10/31/2015 23:07	3348699
FS	Perfluorohexanesulfonic acid (PFHxS)	537	30	SG1-FB01-151027	<	30		ng/L	---	---	---	---	1.0	10/30/2015 07:20	10/31/2015 23:07	3348699
FS	Perfluorononanoic acid (PFNA)	537	20	SG1-FB01-151027	<	20		ng/L	---	---	---	---	1.0	10/30/2015 07:20	10/31/2015 23:07	3348699
FS	Perfluorooctane sulfonate (PFOS)	537	40	SG1-FB01-151027	<	40		ng/L	---	---	---	---	1.0	10/30/2015 07:20	10/31/2015 23:07	3348699
FS	Perfluorooctanoic acid (PFOA)	537	20	SG1-FB01-151027	<	20		ng/L	---	---	---	---	1.0	10/30/2015 07:20	10/31/2015 23:07	3348699
FS	IS-PFOA-13C2	537	N/A	SG1-RB01-151027		3043.29	2878.88	ng/L	106	70 - 140	---	---	0.98	10/30/2015 07:20	10/31/2015 23:38	3348700
FS	IS-PFOS-13C4	537	N/A	SG1-RB01-151027		2097.91	1993.48	ng/L	105	70 - 140	---	---	0.98	10/30/2015 07:20	10/31/2015 23:38	3348700
FS	SS-PFDA-13C2	537	N/A	SG1-RB01-151027		95.1469	100	ng/L	97	70 - 130	---	---	0.98	10/30/2015 07:20	10/31/2015 23:38	3348700
FS	SS-PFHxA-13C2	537	N/A	SG1-RB01-151027		48.0039	50.0	ng/L	98	70 - 130	---	---	0.98	10/30/2015 07:20	10/31/2015 23:38	3348700
FS	Perfluorobutanesulfonic acid (PFBS)	537	90	SG1-RB01-151027	<	90		ng/L	---	---	---	---	0.98	10/30/2015 07:20	10/31/2015 23:38	3348700
FS	Perfluoroheptanoic acid (PFHpA)	537	10	SG1-RB01-151027	<	10		ng/L	---	---	---	---	0.98	10/30/2015 07:20	10/31/2015 23:38	3348700
FS	Perfluorohexanesulfonic acid (PFHxS)	537	30	SG1-RB01-151027	<	30		ng/L	---	---	---	---	0.98	10/30/2015 07:20	10/31/2015 23:38	3348700
FS	Perfluorononanoic acid (PFNA)	537	20	SG1-RB01-151027	<	20		ng/L	---	---	---	---	0.98	10/30/2015 07:20	10/31/2015 23:38	3348700
FS	Perfluorooctane sulfonate (PFOS)	537	40	SG1-RB01-151027	<	40		ng/L	---	---	---	---	0.98	10/30/2015 07:20	10/31/2015 23:38	3348700
FS	Perfluorooctanoic acid (PFOA)	537	20	SG1-RB01-151027	<	20		ng/L	---	---	---	---	0.98	10/30/2015 07:20	10/31/2015 23:38	3348700
FS	IS-PFOA-13C2	537	N/A	SG1-Sump Pit -151027		2986.62	2878.88	ng/L	91	70 - 140	---	---	1.0	10/30/2015 07:20	11/01/2015 00:09	3348703
FS	IS-PFOA-13C2	537	N/A	SG1-Sump Pit -151027		2986.62	2878.88	ng/L	91	70 - 140	---	---	10	10/30/2015 07:20	11/01/2015 00:09	3348703
FS	IS-PFOS-13C4	537	N/A	SG1-Sump Pit -151027		2016.96	1993.48	ng/L	95	70 - 140	---	---	1.0	10/30/2015 07:20	11/01/2015 00:09	3348703
FS	IS-PFOS-13C4	537	N/A	SG1-Sump Pit -151027		2016.96	1993.48	ng/L	95	70 - 140	---	---	10	10/30/2015 07:20	11/01/2015 00:09	3348703
FS	SS-PFDA-13C2	537	N/A	SG1-Sump Pit -151027		91.9612	100	ng/L	92	70 - 130	---	---	1.0	10/30/2015 07:20	11/01/2015 00:09	3348703
FS	SS-PFHxA-13C2	537	N/A	SG1-Sump Pit -151027		49.3457	50.0	ng/L	99	70 - 130	---	---	1.0	10/30/2015 07:20	11/01/2015 00:09	3348703
FS	Perfluorobutanesulfonic acid (PFBS)	537	90	SG1-Sump Pit -151027	<	90		ng/L	---	---	---	---	1.0	10/30/2015 07:20	11/01/2015 00:09	3348703
FS	Perfluoroheptanoic acid (PFHpA)	537	10	SG1-Sump Pit -151027		10		ng/L	---	---	---	---	1.0	10/30/2015 07:20	11/01/2015 00:09	3348703
FS	Perfluorohexanesulfonic acid (PFHxS)	537	30	SG1-Sump Pit -151027	<	30		ng/L	---	---	---	---	1.0	10/30/2015 07:20	11/01/2015 00:09	3348703
FS	Perfluorononanoic acid (PFNA)	537	20	SG1-Sump Pit -151027	<	20		ng/L	---	---	---	---	1.0	10/30/2015 07:20	11/01/2015 00:09	3348703
FS	Perfluorooctane sulfonate (PFOS)	537	40	SG1-Sump Pit -151027	<	40		ng/L	---	---	---	---	1.0	10/30/2015 07:20	11/01/2015 00:09	3348703

QC Summary Report (cont.)

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID #
FS	IS-PFOA-13C2	537	N/A	SG1-DS01-151027		3178.30	2878.88	ng/L	102	70 - 140	---	---	1.01	10/30/2015 07:20	11/01/2015 00:40	3348704
FS	IS-PFOA-13C2	537	N/A	SG1-DS01-151027		3178.30	2878.88	ng/L	102	70 - 140	---	---	10.1	10/30/2015 07:20	11/01/2015 00:40	3348704
FS	IS-PFOS-13C4	537	N/A	SG1-DS01-151027		2158.14	1993.48	ng/L	102	70 - 140	---	---	1.01	10/30/2015 07:20	11/01/2015 00:40	3348704
FS	IS-PFOS-13C4	537	N/A	SG1-DS01-151027		2158.14	1993.48	ng/L	102	70 - 140	---	---	10.1	10/30/2015 07:20	11/01/2015 00:40	3348704
FS	SS-PFDA-13C2	537	N/A	SG1-DS01-151027		100.0250	100	ng/L	99	70 - 130	---	---	1.01	10/30/2015 07:20	11/01/2015 00:40	3348704
FS	SS-PFHxA-13C2	537	N/A	SG1-DS01-151027		50.1048	50.0	ng/L	99	70 - 130	---	---	1.01	10/30/2015 07:20	11/01/2015 00:40	3348704
FS	Perfluorobutanesulfonic acid (PFBS)	537	90	SG1-DS01-151027	<	90		ng/L	---	---	---	---	1.01	10/30/2015 07:20	11/01/2015 00:40	3348704
FS	Perfluoroheptanoic acid (PFHpA)	537	10	SG1-DS01-151027		10		ng/L	---	---	---	---	1.01	10/30/2015 07:20	11/01/2015 00:40	3348704
FS	Perfluorohexanesulfonic acid (PFHxS)	537	30	SG1-DS01-151027	<	30		ng/L	---	---	---	---	1.01	10/30/2015 07:20	11/01/2015 00:40	3348704
FS	Perfluorononanoic acid (PFNA)	537	20	SG1-DS01-151027	<	20		ng/L	---	---	---	---	1.01	10/30/2015 07:20	11/01/2015 00:40	3348704
FS	Perfluorooctane sulfonate (PFOS)	537	40	SG1-DS01-151027	<	40		ng/L	---	---	---	---	1.01	10/30/2015 07:20	11/01/2015 00:40	3348704
FS	IS-PFOA-13C2	537	N/A	SG1-RB02-151027		3213.00	2878.88	ng/L	112	70 - 140	---	---	1.01	10/30/2015 07:20	11/01/2015 01:10	3348705
FS	IS-PFOS-13C4	537	N/A	SG1-RB02-151027		2238.80	1993.48	ng/L	112	70 - 140	---	---	1.01	10/30/2015 07:20	11/01/2015 01:10	3348705
FS	SS-PFDA-13C2	537	N/A	SG1-RB02-151027		97.0013	100	ng/L	96	70 - 130	---	---	1.01	10/30/2015 07:20	11/01/2015 01:10	3348705
FS	SS-PFHxA-13C2	537	N/A	SG1-RB02-151027		48.3305	50.0	ng/L	96	70 - 130	---	---	1.01	10/30/2015 07:20	11/01/2015 01:10	3348705
FS	Perfluorobutanesulfonic acid (PFBS)	537	90	SG1-RB02-151027	<	90		ng/L	---	---	---	---	1.01	10/30/2015 07:20	11/01/2015 01:10	3348705
FS	Perfluoroheptanoic acid (PFHpA)	537	10	SG1-RB02-151027	<	10		ng/L	---	---	---	---	1.01	10/30/2015 07:20	11/01/2015 01:10	3348705
FS	Perfluorohexanesulfonic acid (PFHxS)	537	30	SG1-RB02-151027	<	30		ng/L	---	---	---	---	1.01	10/30/2015 07:20	11/01/2015 01:10	3348705
FS	Perfluorononanoic acid (PFNA)	537	20	SG1-RB02-151027	<	20		ng/L	---	---	---	---	1.01	10/30/2015 07:20	11/01/2015 01:10	3348705
FS	Perfluorooctane sulfonate (PFOS)	537	40	SG1-RB02-151027	<	40		ng/L	---	---	---	---	1.01	10/30/2015 07:20	11/01/2015 01:10	3348705
FS	Perfluorooctanoic acid (PFOA)	537	20	SG1-RB02-151027	<	20		ng/L	---	---	---	---	1.01	10/30/2015 07:20	11/01/2015 01:10	3348705
CCM	IS-PFOA-13C2	537	N/A	---		3285.29	3285.29	ng/L	100	70 - 140	---	---	1.0	10/26/2015 09:55	11/01/2015 04:18	3349686
CCM	IS-PFOS-13C4	537	N/A	---		2112.29	2112.29	ng/L	100	70 - 140	---	---	1.0	10/26/2015 09:55	11/01/2015 04:18	3349686
CCM	SS-PFDA-13C2	537	N/A	---		97.9868	100	ng/L	98	70 - 130	---	---	1.0	10/26/2015 09:55	11/01/2015 04:18	3349686
CCM	SS-PFHxA-13C2	537	N/A	---		50.4448	50.0	ng/L	101	70 - 130	---	---	1.0	10/26/2015 09:55	11/01/2015 04:18	3349686
CCM	Perfluorobutanesulfonic acid (PFBS)	537	90	---		674.4950	675	ng/L	100	70 - 130	---	---	1.0	10/26/2015 09:55	11/01/2015 04:18	3349686
CCM	Perfluoroheptanoic acid (PFHpA)	537	10	---		77.9674	75.0	ng/L	104	70 - 130	---	---	1.0	10/26/2015 09:55	11/01/2015 04:18	3349686
CCM	Perfluorohexanesulfonic acid (PFHxS)	537	30	---		217.9190	225	ng/L	97	70 - 130	---	---	1.0	10/26/2015 09:55	11/01/2015 04:18	3349686
CCM	Perfluorononanoic acid (PFNA)	537	20	---		155.6780	150	ng/L	104	70 - 130	---	---	1.0	10/26/2015 09:55	11/01/2015 04:18	3349686
CCM	Perfluorooctane sulfonate (PFOS)	537	40	---		303.8940	300	ng/L	101	70 - 130	---	---	1.0	10/26/2015 09:55	11/01/2015 04:18	3349686
CCM	Perfluorooctanoic acid (PFOA)	537	20	---		146.2130	150	ng/L	97	70 - 130	---	---	1.0	10/26/2015 09:55	11/01/2015 04:18	3349686
FS	Perfluorooctanoic acid (PFOA)	537	20	SG1-Sump Pit -151027		850		ng/L	---	---	---	---	10	10/30/2015 07:20	11/01/2015 05:20	3348703
FS	Perfluorooctanoic acid (PFOA)	537	20	SG1-DS01-151027		470		ng/L	---	---	---	---	10.1	10/30/2015 07:20	11/01/2015 05:50	3348704
FS	IS-PFOA-13C2	537	N/A	SG1-North Manhole-151027		3416.06	3285.29	ng/L	104	70 - 140	---	---	1.01	10/30/2015 07:20	11/01/2015 06:21	3348701
FS	IS-PFOA-13C2	537	N/A	SG1-North Manhole-151027		3416.06	3285.29	ng/L	104	70 - 140	---	---	10.1	10/30/2015 07:20	11/01/2015 06:21	3348701
FS	IS-PFOS-13C4	537	N/A	SG1-North Manhole-151027		2199.36	2112.29	ng/L	104	70 - 140	---	---	1.01	10/30/2015 07:20	11/01/2015 06:21	3348701
FS	IS-PFOS-13C4	537	N/A	SG1-North Manhole-151027		2199.36	2112.29	ng/L	104	70 - 140	---	---	10.1	10/30/2015 07:20	11/01/2015 06:21	3348701
FS	Perfluorooctanoic acid (PFOA)	537	20	SG1-North Manhole-151027		1000		ng/L	---	---	---	---	10.1	10/30/2015 07:20	11/01/2015 06:21	3348701
FS	SS-PFDA-13C2	537	N/A	SG1-North Manhole-151027		107.6520	100	ng/L	107	70 - 130	---	---	1.01	10/30/2015 07:20	11/01/2015 06:52	3348701
FS	SS-PFHxA-13C2	537	N/A	SG1-North Manhole-151027		29.1281	50.0	ng/L	**58**	70 - 130	---	---	1.01	10/30/2015 07:20	11/01/2015 06:52	3348701
FS	Perfluorobutanesulfonic acid (PFBS)	537	90	SG1-North Manhole-151027	<	90		ng/L	---	---	---	---	1.01	10/30/2015 07:20	11/01/2015 06:52	3348701

QC Summary Report (cont.)

Sample Type	Analyte	Method	MRL	Client ID	Result Flag	Amount	Target	Units	% Recovery	Recovery Limits	RPD	RPD Limit	Dil Factor	Extracted	Analyzed	EEA ID #
FS	Perfluoroheptanoic acid (PFHpA)	537	10	SG1-North Manhole-151027		20		ng/L	---	---	---	---	1.01	10/30/2015 07:20	11/01/2015 06:52	3348701
FS	Perfluorohexanesulfonic acid (PFHxS)	537	30	SG1-North Manhole-151027	<	30		ng/L	---	---	---	---	1.01	10/30/2015 07:20	11/01/2015 06:52	3348701
FS	Perfluorononanoic acid (PFNA)	537	20	SG1-North Manhole-151027	<	20		ng/L	---	---	---	---	1.01	10/30/2015 07:20	11/01/2015 06:52	3348701
FS	Perfluorooctane sulfonate (PFOS)	537	40	SG1-North Manhole-151027	<	40		ng/L	---	---	---	---	1.01	10/30/2015 07:20	11/01/2015 06:52	3348701
CCH	IS-PFOA-13C2	537	N/A	---		3877.96	3877.96	ng/L	100	70 - 140	---	---	1.0	10/26/2015 09:55	11/01/2015 07:23	3349687
CCH	IS-PFOS-13C4	537	N/A	---		2618.31	2618.31	ng/L	100	70 - 140	---	---	1.0	10/26/2015 09:55	11/01/2015 07:23	3349687
CCH	SS-PFDA-13C2	537	N/A	---		94.3381	100	ng/L	94	70 - 130	---	---	1.0	10/26/2015 09:55	11/01/2015 07:23	3349687
CCH	SS-PFHxA-13C2	537	N/A	---		50.0283	50.0	ng/L	100	70 - 130	---	---	1.0	10/26/2015 09:55	11/01/2015 07:23	3349687
CCH	Perfluorobutanesulfonic acid (PFBS)	537	90	---		1073.4900	1125	ng/L	95	70 - 130	---	---	1.0	10/26/2015 09:55	11/01/2015 07:23	3349687
CCH	Perfluoroheptanoic acid (PFHpA)	537	10	---		122.6270	125	ng/L	98	70 - 130	---	---	1.0	10/26/2015 09:55	11/01/2015 07:23	3349687
CCH	Perfluorohexanesulfonic acid (PFHxS)	537	30	---		361.6090	375	ng/L	96	70 - 130	---	---	1.0	10/26/2015 09:55	11/01/2015 07:23	3349687
CCH	Perfluorononanoic acid (PFNA)	537	20	---		238.6730	250	ng/L	95	70 - 130	---	---	1.0	10/26/2015 09:55	11/01/2015 07:23	3349687
CCH	Perfluorooctane sulfonate (PFOS)	537	40	---		475.3780	500	ng/L	95	70 - 130	---	---	1.0	10/26/2015 09:55	11/01/2015 07:23	3349687
CCH	Perfluorooctanoic acid (PFOA)	537	20	---		244.6290	250	ng/L	98	70 - 130	---	---	1.0	10/26/2015 09:55	11/01/2015 07:23	3349687

Sample Type Key

Type (Abbr.)	Sample Type	Type (Abbr.)	Sample Type
CCH	Continuing Calibration High		
CCL	Continuing Calibration Low		
CCM	Continuing Calibration Mid		
FS	Field Sample		
FTB	Field Trip Blank		
FBH	Fortified Blank High		
FBL	Fortified Blank Low		
LRB	Laboratory Reagent Blank		

ED_001342_00000356-00189

END OF REPORT

Maxxam
A Bureau Veritas Group Company

Your Project #: S6PP-HOOSICK FALL-S
Your C.O.C. #: 532063-01-01

Attention:Jason Wilkinson

Ramboll Environ
3 Carlisle Rd.
Westford, MA
USA 01886

Report Date: 2015/10/07
Report #: R3712895
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

MAXXAM JOB #: B5J9607
Received: 2015/10/01, 14:05

Sample Matrix: Water
Samples Received: 2

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
PFOS and PFOA in water	2	2015/10/05	2015/10/05	CAM SOP-00894	EPA 537 m

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Melissa DiGrazia, Project Manager - ATUT
Email: MDiGrazia@maxxam.ca
Phone# (905) 817-5700
==========
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Maxxam
A Bureau Veritas Group Company

Maxxam Job #: B5J9607
Report Date: 2015/10/07

Ramboll Environ
Client Project #: S6PP-HOOSICK FALL-S
Sampler Initials: VT

RESULTS OF ANALYSES OF WATER

Maxxam ID		BBX430				BBX431			
Sampling Date		2015/09/30 13:10				2015/09/30 13:10			
COC Number		532063-01-01				532063-01-01			
	UNITS	SG1-MW02-150930	RDL	MDL	QC Batch	SG1-TB01-150930	RDL	MDL	QC Batch
Perfluorobutane Sulfonate (PFBS)	ug/L	<0.020	0.020	0.0047	4216610	<0.020	0.020	0.0047	4216610
Perfluoroheptanoic Acid (PFHpA)	ug/L	0.39	0.020	0.0054	4216610	<0.020	0.020	0.0054	4216610
Perfluorohexane Sulfonate (PFHxS)	ug/L	<0.020	0.020	0.0054	4216610	<0.020	0.020	0.0054	4216610
Perfluoro-n-Octanoic Acid (PFOA)	ug/L	16	0.80	0.18	4216651	<0.020	0.020	0.0044	4216610
Perfluorononanoic Acid (PFNA)	ug/L	<0.020	0.020	0.0063	4216610	<0.020	0.020	0.0063	4216610
Perfluorooctane Sulfonate (PFOS)	ug/L	<0.020	0.020	0.0037	4216610	<0.020	0.020	0.0037	4216610
Surrogate Recovery (%)									
13C4-Perfluorooctanesulfonate	%	94	N/A	N/A	4216610	101	N/A	N/A	4216610
13C4-Perfluorooctanoic acid	%	136 (1)	N/A	N/A	4216651	105	N/A	N/A	4216610

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

N/A = Not Applicable

(1) Surrogate recovery was above the defined upper control limit (UCL). Laboratory spiked water resulted in satisfactory recovery of the surrogate. When considered together, these QC data suggest that matrix interferences may be biasing the data high. Because quantitation is performed using isotope dilution techniques, any apparent gains of the native compound that may occur during any of the sample preparation, extraction, cleanup or determinative steps will be mirrored by a similar gain of the labeled standard, and as such can be accounted for and corrected. Therefore, the quantification of this target compound is not affected by the high surrogate recovery.

Maxxam Analytics International Corporation o/a Maxxam Analytics 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.maxxam.ca

Maxxam Job #: B5J9607
Report Date: 2015/10/07

Ramboll Environ
Client Project #: S6PP-HOOSICK FALL-S
Sampler Initials: VT

TEST SUMMARY

Maxxam ID: BBX430
Sample ID: SG1-MW02-150930
Matrix: Water

Collected: 2015/09/30
Shipped:
Received: 2015/10/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
PFOS and PFOA in water	LCMS	4216610	2015/10/05	2015/10/05	Sin Chii Chia

Maxxam ID: BBX431
Sample ID: SG1-TB01-150930
Matrix: Water

Collected: 2015/09/30
Shipped:
Received: 2015/10/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
PFOS and PFOA in water	LCMS	4216610	2015/10/05	2015/10/05	Sin Chii Chia

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Maxxam Job #: B5J9607
Report Date: 2015/10/07

Ramboll Environ
Client Project #: S6PP-HOOSICK FALL-S
Sampler Initials: VT

GENERAL COMMENTS

Revision reflects change to sample ID of BBX430-01

Sample BBX430-01 : Perfluorinated Compounds (PFCs): Due to high concentrations of the target analytes, sample required dilution. Detection limits were adjusted accordingly.
Sample BBX430, PFOS and PFOA in water: Test repeated.

Results relate only to the items tested.

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Maxxam
A Bureau Veritas Group Company

Maxxam Job #: B5J9607
Report Date: 2015/10/07

Ramboll Environ
Client Project #: S6PP-HOOSICK FALL-S
Sampler Initials: VT

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
4216610	SCH	Matrix Spike	13C4-Perfluorooctanesulfonate	2015/10/05		126	%	70 - 130
			13C4-Perfluorooctanoic acid	2015/10/05		119	%	70 - 130
			Perfluorobutane Sulfonate (PFBS)	2015/10/05		107	%	70 - 130
			Perfluoroheptanoic Acid (PFHpA)	2015/10/05		102	%	70 - 130
			Perfluorohexane Sulfonate (PFHxS)	2015/10/05		103	%	70 - 130
			Perfluorononanoic Acid (PFNA)	2015/10/05		106	%	70 - 130
			Perfluoro-n-Octanoic Acid (PFOA)	2015/10/05		105	%	70 - 130
			Perfluorooctane Sulfonate (PFOS)	2015/10/05		100	%	70 - 130
4216610	SCH	Spiked Blank	13C4-Perfluorooctanesulfonate	2015/10/05		106	%	70 - 130
			13C4-Perfluorooctanoic acid	2015/10/05		113	%	70 - 130
			Perfluorobutane Sulfonate (PFBS)	2015/10/05		101	%	70 - 130
			Perfluoroheptanoic Acid (PFHpA)	2015/10/05		106	%	70 - 130
			Perfluorohexane Sulfonate (PFHxS)	2015/10/05		101	%	70 - 130
			Perfluorononanoic Acid (PFNA)	2015/10/05		105	%	70 - 130
			Perfluoro-n-Octanoic Acid (PFOA)	2015/10/05		104	%	70 - 130
			Perfluorooctane Sulfonate (PFOS)	2015/10/05		107	%	70 - 130
4216610	SCH	Method Blank	13C4-Perfluorooctanesulfonate	2015/10/05		117	%	70 - 130
			13C4-Perfluorooctanoic acid	2015/10/05		120	%	70 - 130
			Perfluorobutane Sulfonate (PFBS)	2015/10/05	<0.020		ug/L	
			Perfluoroheptanoic Acid (PFHpA)	2015/10/05	<0.020		ug/L	
			Perfluorohexane Sulfonate (PFHxS)	2015/10/05	<0.020		ug/L	
			Perfluorononanoic Acid (PFNA)	2015/10/05	<0.020		ug/L	
			Perfluoro-n-Octanoic Acid (PFOA)	2015/10/05	<0.020		ug/L	
			Perfluorooctane Sulfonate (PFOS)	2015/10/05	<0.020		ug/L	
4216610	SCH	RPD - Sample/Sample Dup	Perfluorobutane Sulfonate (PFBS)	2015/10/05	NC		%	30
			Perfluoroheptanoic Acid (PFHpA)	2015/10/05	NC		%	30
			Perfluorohexane Sulfonate (PFHxS)	2015/10/05	NC		%	30
			Perfluorononanoic Acid (PFNA)	2015/10/05	NC		%	30
			Perfluoro-n-Octanoic Acid (PFOA)	2015/10/05	NC		%	30
			Perfluorooctane Sulfonate (PFOS)	2015/10/05	NC		%	30
4216651	SCH	Matrix Spike	13C4-Perfluorooctanoic acid	2015/10/05		103	%	70 - 130
			Perfluoro-n-Octanoic Acid (PFOA)	2015/10/05		NC	%	70 - 130
4216651	SCH	Spiked Blank	13C4-Perfluorooctanoic acid	2015/10/05		106	%	70 - 130
			Perfluoro-n-Octanoic Acid (PFOA)	2015/10/05		102	%	70 - 130
4216651	SCH	Method Blank	13C4-Perfluorooctanoic acid	2015/10/05		103	%	70 - 130
			Perfluoro-n-Octanoic Acid (PFOA)	2015/10/05	<0.80		ug/L	

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than 2x that of the native sample concentration).

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (one or both samples < 5x RDL).

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Maxxam Job #: B5J9607
Report Date: 2015/10/07

Ramboll Environ
Client Project #: S6PP-HOOSICK FALL-S
Sampler Initials: VT

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Adam Robinson, Technical Service

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

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01-Oct-15 14:05
Melissa DiGrazia
B5J9607
ENV-910

Page of
Title Order #:
Project Manager: Melissa DiGrazia

INVOICE TO:
Company Name: #29960 Rambol Environ
Attention: Valerie Turner / Jessa Wilkerson
Address: 3 Carlisle Rd
Westford MA 01886
Tel: (978) 443-0360 x Fax:
Email: vturner@environcorp.com

REPORT TO:
Company Name: Rambol Environ
Attention: Jessa Wilkerson
Address: 3 Carlisle Rd #240
Westford, MA 01886
Tel: Fax:
Email: jwilkerson@environcorp.com

PROJECT INFORMATION:
Quotation #:
P.O. #:
Project:
Project Name: Sludge - Provide Fuels
Site #:
Sampled By: VT

MOE REGULATED DRINKING WATER OR WATER INTENDED FOR HUMAN CONSUMPTION MUST BE SUBMITTED ON THE MAXXAM DRINKING WATER CHAIN OF CUSTODY

Regulation 153 (2011): ☐ Table 1 ☐ Res/Park ☐ Medium/Fine ☐ Table 2 ☐ Ind/Comm ☐ Coarse ☐ Table 3 ☐ Agri/Other ☐ For RSC ☐ Table ____

Other Regulations: ☐ CCME ☐ Sanitary Sewer Bylaw ☐ Reg 558 ☐ Storm Sewer Bylaw ☐ MISA Municipality ____ ☐ PWQO ☐ Other ____

Special Instructions

Include Criteria on Certificate of Analysis (Y/N)? ____

Field Filtered (please circle): Metals / Hg / Cr VI

ANALYSIS REQUESTED (PLEASE BE SPECIFIC): PCBs by 8270 Reduced Volume, PAH, PCB, PFOS, PFOA

Turnaround Time (TAT) Required
Please check one box on the right side

Regular (Standard) TAT: (will be applied if Rush TAT is not specified) Standard TAT = 5-7 working days for most tests. Please note: Standard TAT for certain tests such as BOD and Ocean/Freshwater are > 5 days - contact your Project Manager for details. [X]

Job Specific Rush TAT (if applies to entire submission)
Date Required: ____ Time Required: ____
Rush Confirmation Number: ____

	Sample Barcode Label	Sample Location/Identification	Date Sampled	Time Sampled	Matrix	Field Filtered (please circle) Metals / Hg / Cr VI	PCBs by 8270 Reduced Volume	PAH	PCB	PFOS, PFOA	# of Jars	Comments
1	30W	SG1-MW020-150910	9-30-15	1310	GW		X				X2	
2	2A1	SG1-TB01-150930	09-30-15	—	—		X				1	
3												
4												
5												
6												
7												
8												
9												
10												

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Time Sensitive	Temperature (°C) on Receipt	Custody Seal	Yes	No
Valerie Turner (Rambol Environ)	15/09/30	1515	SHIPPING	2015/10/01	14:05			4.2 / 3.8 / 3.9	Present	✓	
			FATIMA SHIPPING						Intact	✓	

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN FINAL TAT DELAYS.

Laboratory Use Only

COLOR KEY: WHITE - LAB; YELLOW - CLIENT; PINK - LAB OF SAMPLE ORIGIN; GREEN - DELIVERY TO MAXXAM

White: Maxxam Yellow: Client

Maxxam Analytics International Corporation o/a Maxxam Analytics

V. Boring Logs and Well Construction Logs

C.T. MALE ASSOCIATES

SUBSURFACE EXPLORATION LOG

BORING NO.:	MW-01S		
ELEVATION:	455.55	DATUM:	NAVD88
LATITUDE:		LONGITUDE:	
START DATE:	8/11/2015	FINISH DATE:	8/11/2015
SHEET 1 OF 1			

PROJECT: SGPP — CTM PROJECT NO.: 15.5133

LOCATION: Hoosick Falls, NY — CTM OBSERVER: J.Dippert

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION	NOTES
		1						5'	Refer to MW-01 for soil classification	
5		2						5'		
10		3						5'		
15									±15.0'	
									Boring Terminated at ±15' bgs	
20										
25										
30										

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: Cascade Drilling

DRILL RIG TYPE: Mini Sonic

METHOD OF INVESTIGATION: 5' x 4" sample barrel.

GROUNDWATER LEVEL

DATE	LEVEL	CASING	STABILIZATION TIME

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE DESIGN PURPOSES. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY: Dippert

Rev. 6/10/2011

C.T. MALE ASSOCIATES

SUBSURFACE EXPLORATION LOG

BORING NO.:	MW-01		
ELEVATION:	455.77	DATUM:	NAVD88
LATITUDE:		LONGITUDE:	
START DATE:	8/10/2015	FINISH DATE:	8/12/2015
SHEET 1 OF 1			

PROJECT: SGPP — CTM PROJECT NO.: 15.5133

LOCATION: Hoosick Falls, NY — CTM OBSERVER: J.Dippert

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION	NOTES
		1						5'	Brown fine SAND and SILT, Some fine and medium Gravel, trace clay ±2.5'	moist
		2							Brown fine SAND, fine to coarse GRAVEL, Some medium Sand, little silt	
5										
		3						5'	grades to Gray and Brown at ±5' seam of fine and medium SAND, Some fine to coarse Gravel, little silt at ±6' ±7.0'	very moist to wet
		4								
10									Gray fine SAND and SILT, trace clay, interbedded with fine and medium SAND, fine to coarse GRAVEL (±1' layers) ±12.0'	very moist
		5						5'		
		6							Gray fine SAND and SILT, fine to coarse GRAVEL, little clay (TILL)	moist
15										
		7						5'		
		8								
20									COBBLE and BOULDER at ±19-21'	very moist
		9						5'		Set 6" casing and grout in place at ±20' bgs on 8/10/15. Continued drilling on 8/12/15.
		10								
25										
		11						5'	±27.0'	
		12							Black SLATE (Possible Bedrock)	Boring Terminated at ±30' bgs
30									±30.0'	

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: Cascade Drilling

DRILL RIG TYPE: Mini Sonic

METHOD OF INVESTIGATION: 5' x 8" sample barrel to 20',5' x 4" sample barrel to 30'.

GROUNDWATER LEVEL

DATE	LEVEL	CASING	STABILIZATION TIME

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SAMPLE CLASSIFICATION BY: Dippert

C.T. MALE ASSOCIATES

SUBSURFACE EXPLORATION LOG

BORING NO.:	MW-02S		
ELEVATION:	460.54	DATUM:	NAVD88
LATITUDE:		LONGITUDE:	
START DATE:	8/10/2015	FINISH DATE:	8/10/2015
SHEET 1 OF 1			

PROJECT: SGPP — CTM PROJECT NO.: 15.5133

LOCATION: Hoosick Falls, NY — CTM OBSERVER: J.Dippert

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION	NOTES
		1						5'	Refer to MW-02 for soil classification	
5										
		2						5'		
10										
		3						3'		
		4						2'		
15										
		5						4'		
									±19.0'	
20									Boring Terminated at ±19' bgs	
25										
30										

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: Cascade Drilling

DRILL RIG TYPE: Mini Sonic

METHOD OF INVESTIGATION: 5' x 4" sample barrel.

GROUNDWATER LEVEL

DATE	LEVEL	CASING	STABILIZATION TIME

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE DESIGN PURPOSES. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY: Dippert

Rev. 6/10/2011

C.T. MALE ASSOCIATES

SUBSURFACE EXPLORATION LOG

BORING NO.:	MW-02		
ELEVATION:	460.46	DATUM:	NAVD88
LATITUDE:		LONGITUDE:	
START DATE:	8/5/2015	FINISH DATE:	8/6/2015
SHEET 1 OF 2			

PROJECT: SGPP — CTM PROJECT NO.: 15.5133

LOCATION: Hoosick Falls, NY — CTM OBSERVER: J.Dippert

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION	NOTES
		1						5'	Brown SILT, GRAVEL (angular), Some fine Sand	vegetation at surface moist to dry
		2								
5										
		3						2'	±7.0'	Refusal at ±7' bgs. Switched to core barrel.
		4						3'	BOULDER	
10									±10.0'	
									Dark Brown fine SAND and SILT, Some Gravel (sub-angular to angular)	very moist
		5						4'		Gravel layer at ±12-13' bgs (wet).
		6								
15									±15.0'	
		7						5'	Gray fine SAND and SILT, fine to coarse GRAVEL, trace clay (TILL)	moist
		8								
20										
		9						5'		
		10							±23.0'	
									Greenish Gray SILT, little fine sand, trace gravel	moist
25										
		11						5'		
		12							±28.0'	
									Brown SILT, Some fine to coarse Gravel, little fine sand, trace clay	moist
30										

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: Cascade Drilling

DRILL RIG TYPE: Mini Sonic

METHOD OF INVESTIGATION: 5' x 4" sample barrel.

GROUNDWATER LEVEL

DATE	LEVEL	CASING	STABILIZATION TIME
8/5	20.5	26	10 min
6-Aug	20.5	26	15 hrs

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SAMPLE CLASSIFICATION BY: Dippert

C.T. MALE ASSOCIATES

SUBSURFACE EXPLORATION LOG

BORING NO.:	MW-02		
ELEVATION:	460.46	DATUM:	NAVD88
LATITUDE:		LONGITUDE:	
START DATE:	8/5/2015	FINISH DATE:	8/6/2015
SHEET 2 OF 2			

PROJECT: SGPP — CTM PROJECT NO.: 15.5133

LOCATION: Hoosick Falls, NY — CTM OBSERVER: J.Dippert

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION	NOTES
		13						4'	Brown SILT, fine to coarse GRAVEL, Some mottling with Gray fine Sand, trace clay	moist
										4' sample due to barrel overfilling
		14								
									±34.0'	
35								5'	Gray and Brownish Gray fine SAND and SILT, fine to coarse GRAVEL (sub-rounded to rounded), trace orange brown fine and medium sand	
		15								±35-37' bgs - very moist
		16							±38.0'	
									WEATHERED ROCK, Brown fine SAND with laminated gray SILT	
40		17						5'	±40.0'	
									PULVERIZED ROCK	
									±42.0'	very moist
		18							Dark Brown fine to coarse SAND, fine to coarse GRAVEL, trace silt	wet
									±43.0'	
45		19						1'	WEATHERED ROCK, Some gray Silt ±45.0'	moist
									Boring Terminated at ±45' bgs	
50										
55										
60										

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: Cascade Drilling

DRILL RIG TYPE: Mini Sonic

METHOD OF INVESTIGATION: 5' x 4" sample barrel.

GROUNDWATER LEVEL

DATE	LEVEL	CASING	STABILIZATION TIME

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE DESIGN PURPOSES. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY: Dippert

C.T. MALE ASSOCIATES

SUBSURFACE EXPLORATION LOG

BORING NO.:	MW-03		
ELEVATION:	436.69	DATUM:	NAVD88
LATITUDE:		LONGITUDE:	
START DATE:	8/13/2015	FINISH DATE:	8/13/2015
SHEET 1 OF 1			

PROJECT: SGPP — CTM PROJECT NO.: 15.5133

LOCATION: Hoosick Falls, NY — CTM OBSERVER: J.Dippert

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION	NOTES
		1						5'	Dark Brown SILT, fine and medium GRAVEL, trace organics ±0.5'	vegetation at surface; moist
		2							Brown SILT, Some fine Sand ±6.0'	
5										
		3						5'	Brown fine and medium SAND, Some fine and medium Gravel ±8.0'	very moist
		4							Brown fine SAND, fine to coarse GRAVEL, Some Silt, little orange brown fine sand ±12.0'	
10										
		5						5'		
		6							Brown fine SAND, fine to coarse GRAVEL, little medium sand, trace silt ±15.0'	wet
15										
		7						5'	Brown fine SAND and SILT, GRAVEL to COBBLE	
		8							grades to gray at ±17' ±19.0'	
20									WEATHERED ROCK, little gray silt and clay ±20.0'	moist
		Run 1						5'	Black SLATE (Possible Bedrock)	Run 1: recovery consisted of pulverized rock which appeared black coarse angular sand. Driller stated the interval drilled the same as 19-30'.
25										
		Run 2						5'		Run 2: recovery consisted of black slate disks with some coarse black angular sand at bottom of recovery.
30									Boring Terminated at ±30' bgs ±30.0'	

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: Cascade Drilling

DRILL RIG TYPE: Mini Sonic

METHOD OF INVESTIGATION: 5' x 4" sample barrel.

GROUNDWATER LEVEL

DATE	LEVEL	CASING	STABILIZATION TIME

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE DESIGN PURPOSES. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY: Dippert

C.T. MALE ASSOCIATES

SUBSURFACE EXPLORATION LOG

BORING NO.:	MW-04		
ELEVATION:	431.17	DATUM:	NAVD88
LATITUDE:		LONGITUDE:	
START DATE:	8/5/2015	FINISH DATE:	8/5/2015
SHEET 1 OF 1			

PROJECT: SGPP — CTM PROJECT NO.: 15.5133

LOCATION: Hoosick Falls, NY — CTM OBSERVER: J.Dippert

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION	NOTES
		1						2'	Dark Brown SILT, Some Organics, little clay ±0.5'	vegetation at surface
									Dark Brown fine SAND and SILT, fine to coarse GRAVEL, trace organics ±1.5'	moist
		2						3'	Brown SILT, trace orange brown fine sand	very moist
5										
		3						5'		
									trace brown and gray mottling ±7.5'	
		4								
									Gray fine SAND, Some Silt, Some orange brown fine Sand Parting	
10										
		5						2'	±11.0'	
									Orange Brown fine to coarse SAND, fine to coarse GRAVEL (sub-rounded) ±12.0'	wet
		6								
									Gray fine SAND, Some Silt ±15.0'	
15										
		7						5'	Gray fine to coarse SAND ±17.0'	
		8							Gray fine to coarse SAND, fine to coarse GRAVEL	
20										
		9						5'		
		10								
25										
		11						1'	±26.0'	
		Run 1						4'	Black SLATE (Possible Bedrock)	Run 1: recovery consisted of black slate disks.
30									Boring Terminated at ±30' bgs ±30.0'	

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: Cascade Drilling

DRILL RIG TYPE: Mini Sonic

METHOD OF INVESTIGATION: 5' x 4" sample barrel.

GROUNDWATER LEVEL

DATE	LEVEL	CASING	STABILIZATION TIME
8/5	13.7	25	10 min

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE DESIGN PURPOSES. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY: Dippert

Rev. 6/10/2011

C.T. MALE ASSOCIATES

SUBSURFACE EXPLORATION LOG

BORING NO.:	MW-05		
ELEVATION:	433.83	DATUM:	NAVD88
LATITUDE:		LONGITUDE:	
START DATE:	8/11/2015	FINISH DATE:	8/11/2015
SHEET 1 OF 1			

PROJECT: SGPP — CTM PROJECT NO.: 15.5133

LOCATION: Hoosick Falls, NY — CTM OBSERVER: J.Dippert

DEPTH (FT.)	SAMPLE TYPE	SAMPLE NO.	BLOWS ON SAMPLER 0/6	6/12	12/18	18/24	N	RECOVERY	SAMPLE CLASSIFICATION	NOTES
		1						5'	Brown SILT, Some fine Sand	vegetation at surface
										moist
		2								
5									±5.0'	
		3						5'	Brown fine and medium SAND, fine and medium GRAVEL ±6.0'	very moist to wet ±6' bgs
									Grayish Brown fine SAND, Some Silt ±7.0'	orange brown parting at ±7'
		4							Brown fine to coarse SAND, fine to coarse GRAVEL ±8.0'	moist at ±7' bgs
									Brown fine SAND and SILT, Some fine and medium Gravel ±9.0'	very moist to wet at ±8' bgs
10									Brown fine SAND, fine to coarse GRAVEL, little silt ±11.0'	
		5						5'	Gray fine SAND, Some fine to coarse Gravel, Some Silt	wet
		6								
15									±14.5'	little weathered slate at ±14-14.5' bgs
		7						4'	Brown fine SAND, Some Silt ±15.0'	
									Gray PULVARIZED ROCK ±16.5'	
		8							Gray and Brown Parting, fine SAND and SILT, Some Weathered Rock, Some fine to coarse Gravel ±17.0'	
20		9						1'	Brown fine to coarse GRAVEL, Some fine to coarse Sand ±19.0'	Saturated Gravel is angular to sub-angular and is similar to bedrock fragments
		10						3'		
									Gray and Brown Parting, fine SAND and SILT, Some Weathered Rock, Some fine to coarse Gravel ±21.0'	
		11						2'	Black SLATE (Possible Bedrock)	
25									±26.0'	
									Boring Terminated at ±26' bgs	
30										

N = NO. OF BLOWS TO DRIVE 2" SAMPLER 12" WITH A 140 LB. WT. FALLING 30" PER BLOW

DRILLING CONTRACTOR: Cascade Drilling

DRILL RIG TYPE: Mini Sonic

METHOD OF INVESTIGATION: 5' x 4" sample barrel.

GROUNDWATER LEVEL

DATE	LEVEL	CASING	STABILIZATION TIME

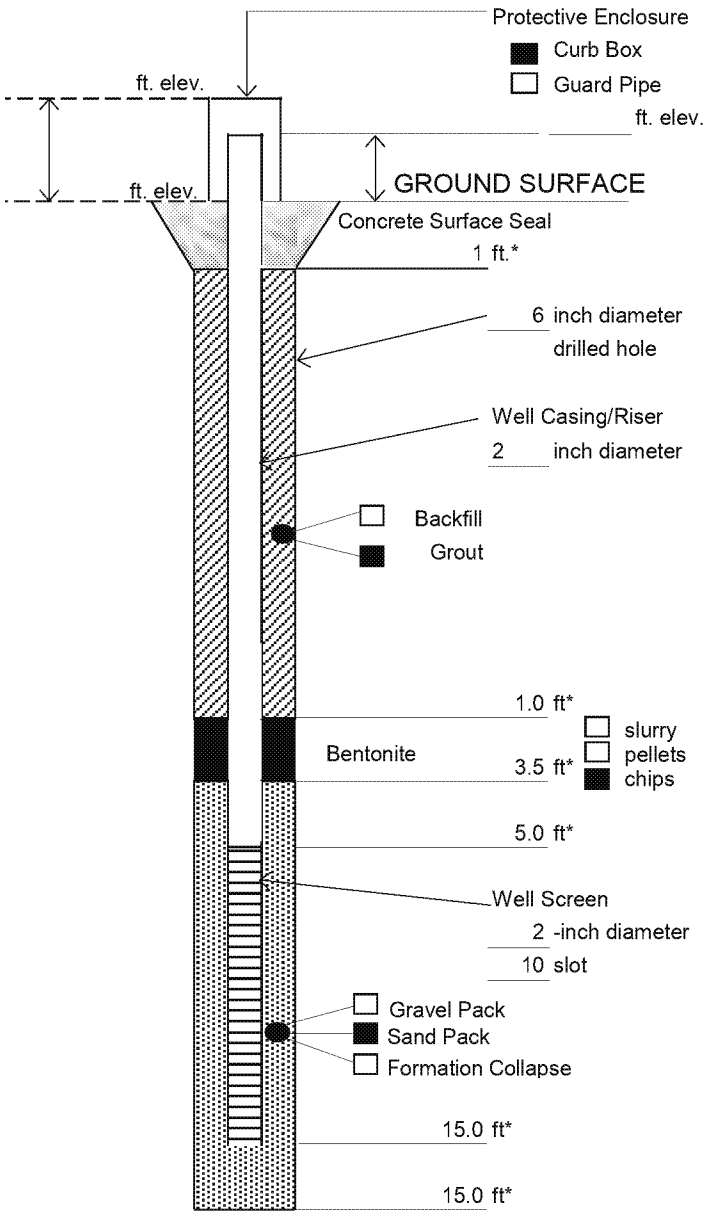
THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE DESIGN PURPOSES. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY: Dippert

C.T. MALE ASSOCIATES

Well No. MW-01S

MONITORING WELL CONSTRUCTION LOG



* Depth below ground surface.

Project Name: SGPP
Hoosick Falls

Project Number: 15.5133

Well No.: MW-01S Boring No.: MW-01S

Town/City: Hoosick Falls

County: Rensselaer State: New York

Installation Date(s): 8/11/2015

Drilling Contractor: Cascade Drilling

Drilling Method: Roto Sonic

Water Depth From Top of Riser: ____ ft ____ Date

C.T. Male Observer: Jonathan Dippert

Materials Used:

3.75	Bags of Sand	(50 lb. bags)	
	Sand Size: #0	Brand: FilPro	
1/2	Bags of Bentonite	(50 lb. bags)	
	Brand: Cetco Medium Chips		
10	ft. of Schedule 40 PVC	well screen	
5	ft. of Schedule 40 PVC	well riser	
2	Bags of Cement/Concrete	(60 lb. bags)	
	Brand: Quikrete		

Grout Mixture:

____	Bags of Cement	(____ lb. bags)
____	Lbs. of Bentonite	
____	Gallons of Water	
____	Grout Batches	

Notes:

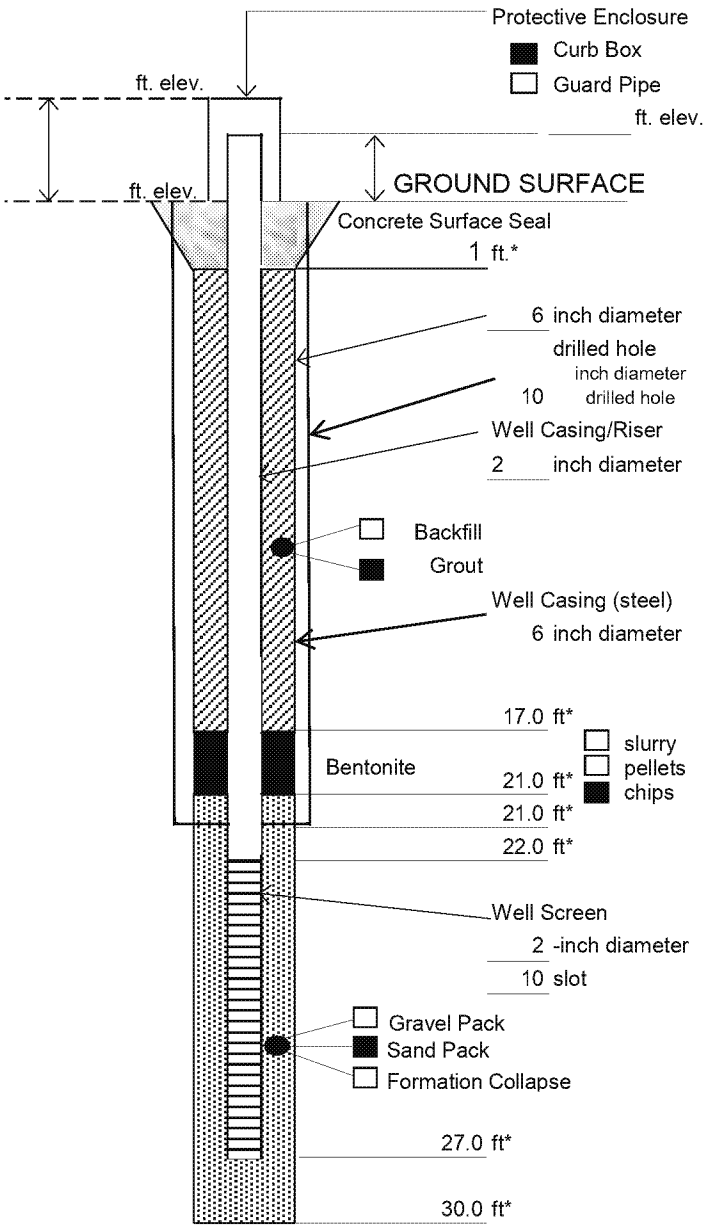
#00 sand - 1/4 bag - FilPro - 50 lbs.

MWconstlog 8.11.15.xls

C.T. MALE ASSOCIATES

Well No. MW-01

MONITORING WELL CONSTRUCTION LOG



* Depth below ground surface.

Project Name: SGPP
Hoosick Falls

Project Number: 15.5133

Well No.: MW-01 Boring No.: MW-01

Town/City: Hoosick Falls

County: Rensselaer State: New York

Installation Date(s): 8/12/2015

Drilling Contractor: Cascade Drilling

Drilling Method: Roto Sonic

Water Depth From Top of Riser: ____ ft ____ Date

C.T. Male Observer: Jonathan Dippert

Materials Used:

6	Bags of Sand	(50 lb. bags)	
	Sand Size: #0	Brand: FilPro	
1/2	Bags of Bentonite	(50 lb. bags)	
	Brand: Cetco Medium Chips		
5	ft. of Schedule 40 PVC	well screen	
22	ft. of Schedule 40 PVC	well riser	
2	Bags of Cement/Concrete	(60 lb. bags)	
	Brand: Quikrete Concrete Mix		

Grout Mixture:

3	Bags of Cement	(94 lb. bags)
10	Lbs. of Bentonite	
20	Gallons of Water	
1	Grout Batches	

Notes:

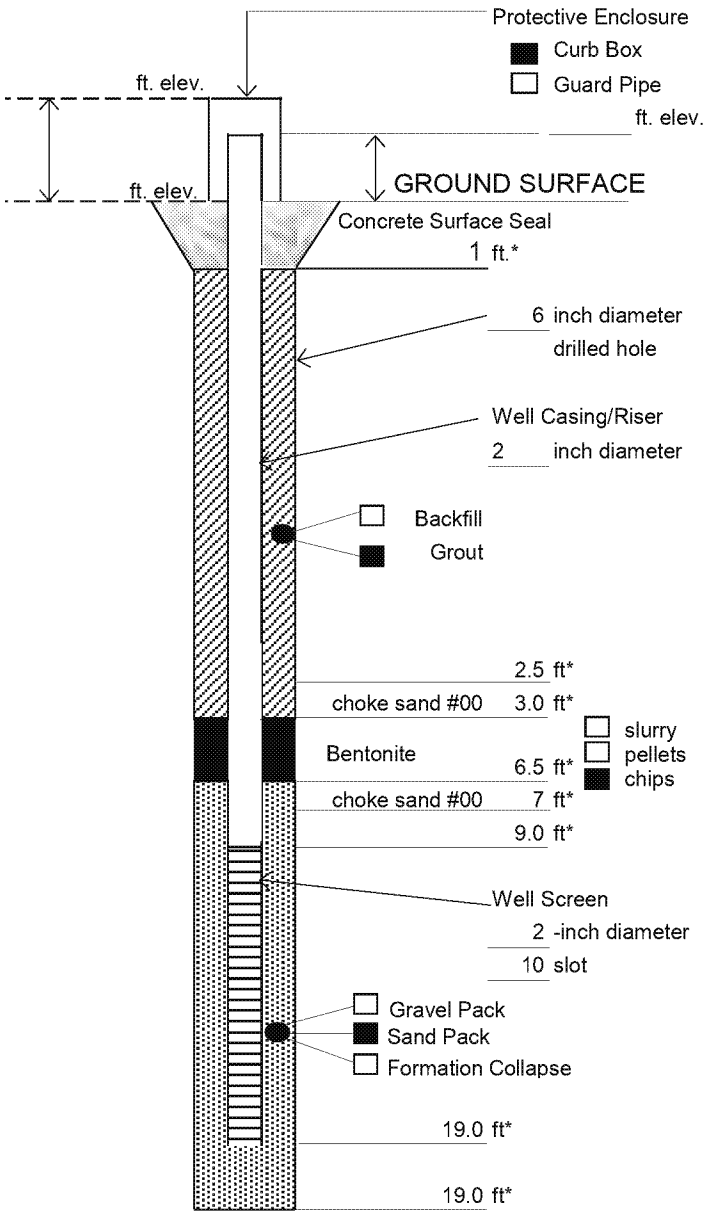
#00 - 1/4 bag - FilPro - 50 lb. bag
20' = 6" Steel Casing

MWconstlog 8.11.15.xls

C.T. MALE ASSOCIATES

Well No. MW-02S

MONITORING WELL CONSTRUCTION LOG



* Depth below ground surface.

Project Name: SGPP
Hoosick Falls

Project Number: 15.5133

Well No.: MW-02S Boring No.: MW-02S

Town/City: Hoosick Falls

County: Rensselaer State: New York

Installation Date(s): 8/10/2015

Drilling Contractor: Cascade Drilling

Drilling Method: Roto Sonic

Water Depth From Top of Riser: ____ ft ____ Date

C.T. Male Observer: Jonathan Dippert

Materials Used:

4.5	Bags of Sand	(50 lb. bags)	
	Sand Size: #0	Brand: FilPro	
1/2	Bags of Bentonite	(50 lb. bags)	
	Brand: Cetco Medium Chips		
10	ft. of Schedule 40 PVC	well screen	
9	ft. of Schedule 40 PVC	well riser	
2	Bags of Cement/Concrete	(60 lb. bags)	
	Brand: Quikrete		

Grout Mixture:

____	Bags of Cement	(____ lb. bags)
____	Lbs. of Bentonite	
____	Gallons of Water	
____	Grout Batches	

Notes:

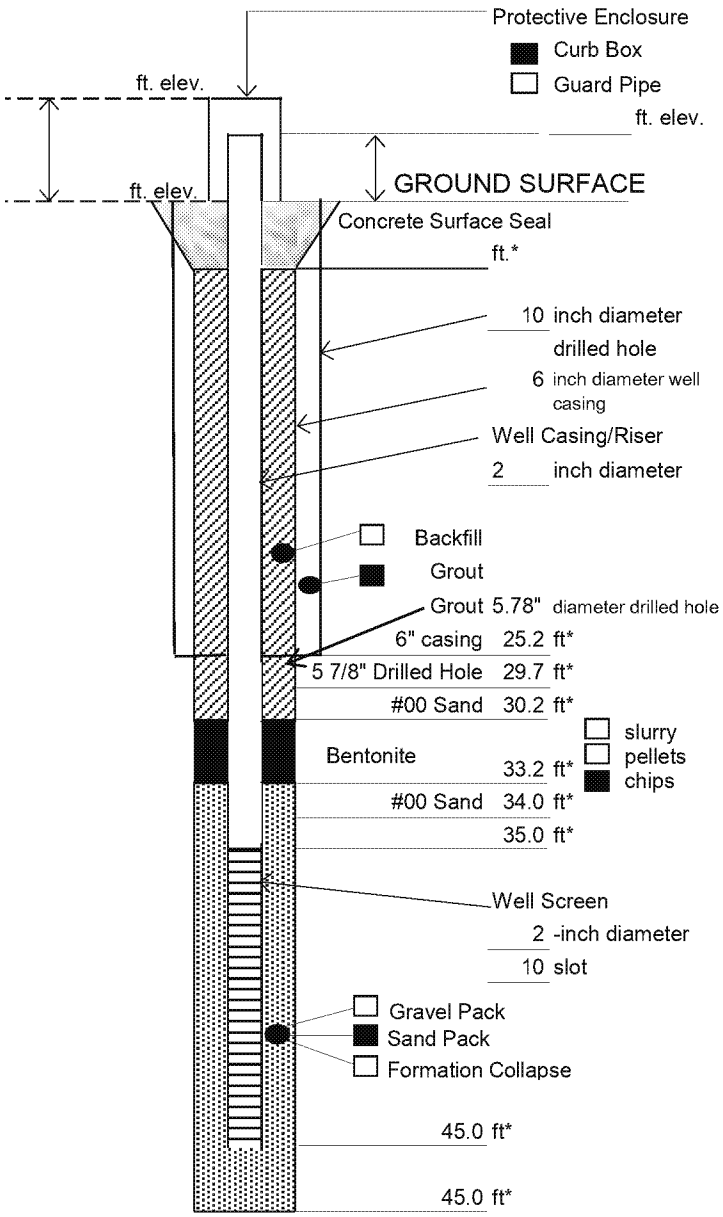
#00 Sand - FilPro - 50 lb. bag - 1/2 bag
Grout from MW-02D used

MWconstlog 8.11.15.xls

C.T. MALE ASSOCIATES

Well No. MW-02

MONITORING WELL CONSTRUCTION LOG



* Depth below ground surface.

Project Name: SGPP
Hoosick Falls

Project Number: 15.5133

Well No.: MW-02 Boring No.: MW-02

Town/City: Hoosick Falls

County: Rensselaer State: New York

Installation Date(s): 8/6/2015-8/7/2015

Drilling Contractor: Cascade Drilling

Drilling Method: Roto Sonic

Water Depth From Top of Riser: ____ ft ____ Date

C.T. Male Observer: Jonathan Dippert

Materials Used:

4.5	Bags of Sand	(50 lb. bags)	
	Sand Size: #0	Brand: FilPro	
1	Bags of Bentonite	(50 lb. bags)	
	Brand: Cetco Medium Chips		
35	ft. of Schedule 40 PVC	well screen	
10	ft. of Schedule 40 PVC	well riser	
2	Bags of Cement/Concrete	(60 lb. bags)	
	Brand: Quikrete Concrete Mix		

Grout Mixture:

3	Bags of Cement-Quikrete Portland	(94 lb. bags)
10	Lbs. of Bentonite	
20	Gallons of Water	
1	Grout Batches	

Notes:

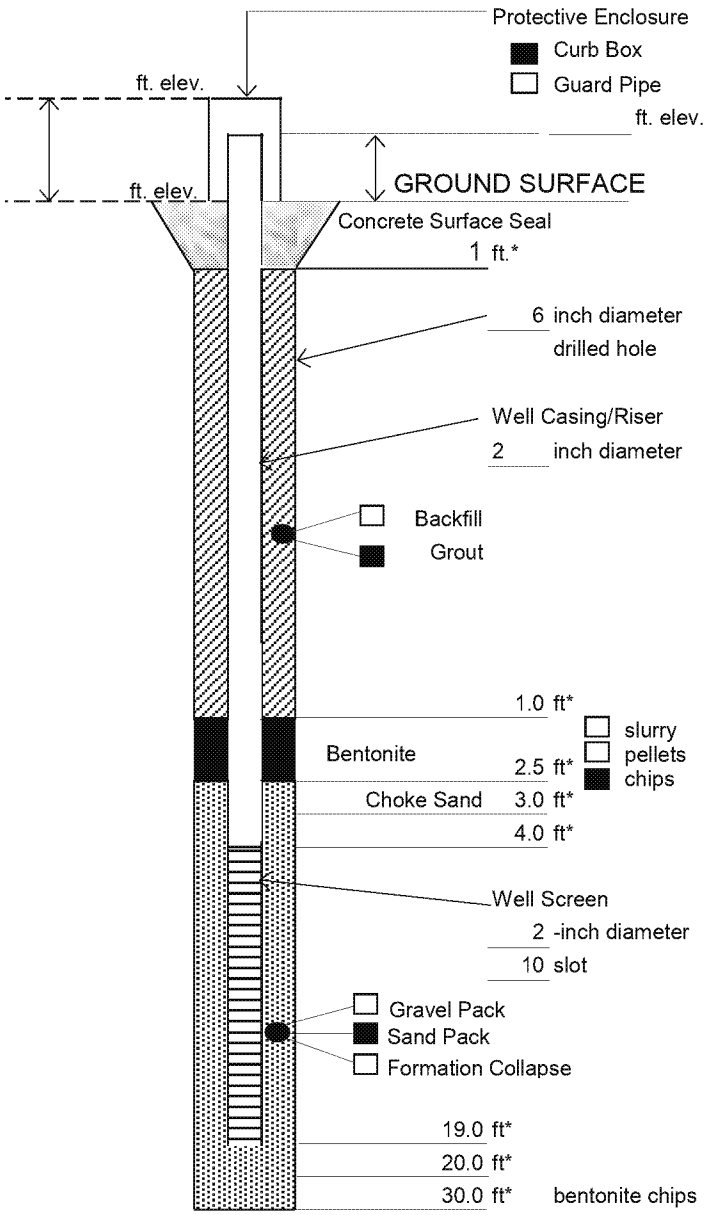
#00 - 1/2 bag - FilPro - 50 lb. bag
25' of 6" steel casing

MWconstlog 8.11.15.xls

C.T. MALE ASSOCIATES

Well No. MW-03

MONITORING WELL CONSTRUCTION LOG



* Depth below ground surface.

Project Name: SGPP
Hoosick Falls

Project Number: 15.5133

Well No.: MW-03 Boring No.: MW-03

Town/City: Hoosick Falls

County: Rensselaer State: New York

Installation Date(s): 8/13/2015

Drilling Contractor: Cascade Drilling

Drilling Method: Roto Sonic

Water Depth From Top of Riser: ____ ft ____ Date

C.T. Male Observer: Jonathan Dippert

Materials Used:

8	Bags of Sand	(50 lb. bags)	
	Sand Size: #0	Brand: FilPro	
2.25	Bags of Bentonite	(50 lb. bags)	
	Brand: Cetco Medium Chips		
15	ft. of Schedule 40 PVC	well screen	
4	ft. of Schedule 40 PVC	well riser	
2	Bags of Cement/Concrete	(60 lb. bags)	
	Brand: Quikrete Concrete Mix		

Grout Mixture:

____	Bags of Cement	(____ lb. bags)
____	Lbs. of Bentonite	
____	Gallons of Water	
____	Grout Batches	

Notes:

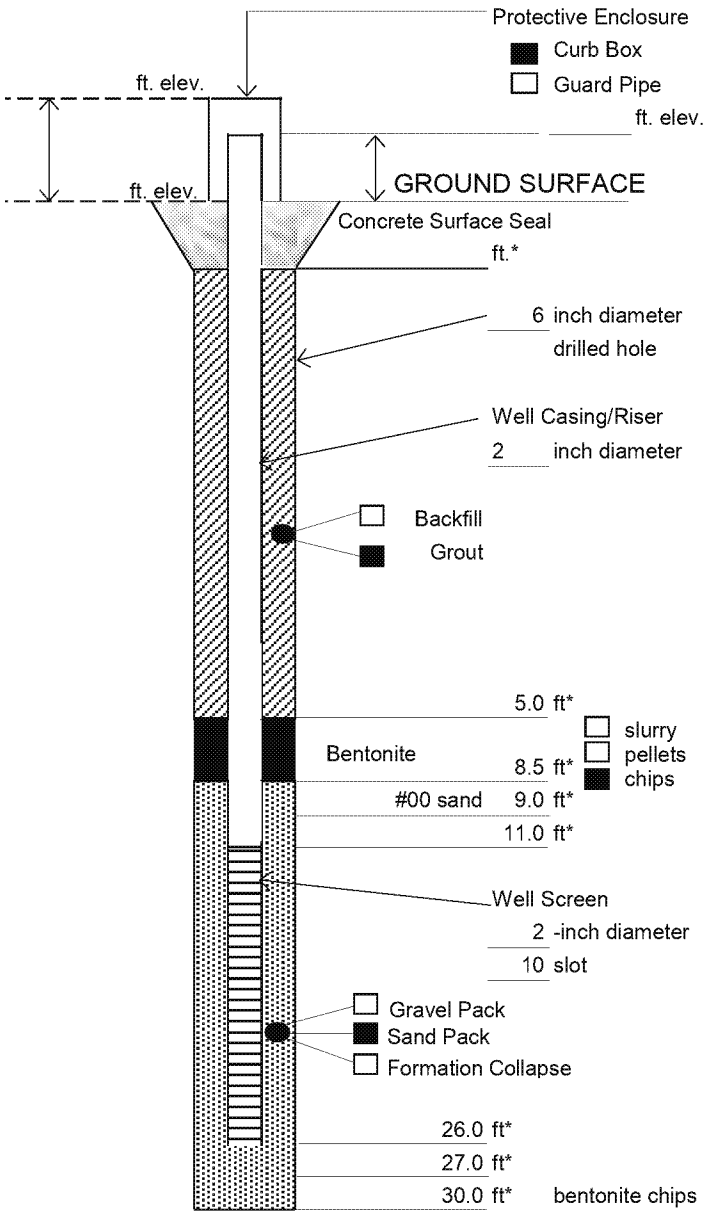
#00 Sand - FilPro - 50 lbs. - 1/4 bag

MWconstlog 8.11.15.xls

C.T. MALE ASSOCIATES

Well No. MW-04

MONITORING WELL CONSTRUCTION LOG



* Depth below ground surface.

Project Name: SGPP
Hoosick Falls

Project Number: 15.5133

Well No.: MW-04 Boring No.: MW-04

Town/City: Hoosick Falls

County: Rensselaer State: New York

Installation Date(s): 8/5/2015

Drilling Contractor: Cascade Drilling

Drilling Method: Roto Sonic

Water Depth From Top of Riser: ____ ft ____ Date

C.T. Male Observer: Jonathan Dippert

Materials Used:

7	Bags of Sand	(50 lb. bags)	
	Sand Size: #0	Brand: FilPro	
3/4	Bags of Bentonite	(50 lb. bags)	
	Brand: Cetco Medium Chips		
15	ft. of Schedule 40 PVC	well screen	
10	ft. of Schedule 40 PVC	well riser	
2	Bags of Cement/Concrete	(60 lb. bags)	
	Brand: Quikrete		

Grout Mixture:

2	Bags of Cement-Quikrete Portland (94 lb. bags)
10	Lbs. of Bentonite - Cetco Super 50 lb. bags
8	Gallons of Water
1	Grout Batches

Notes:

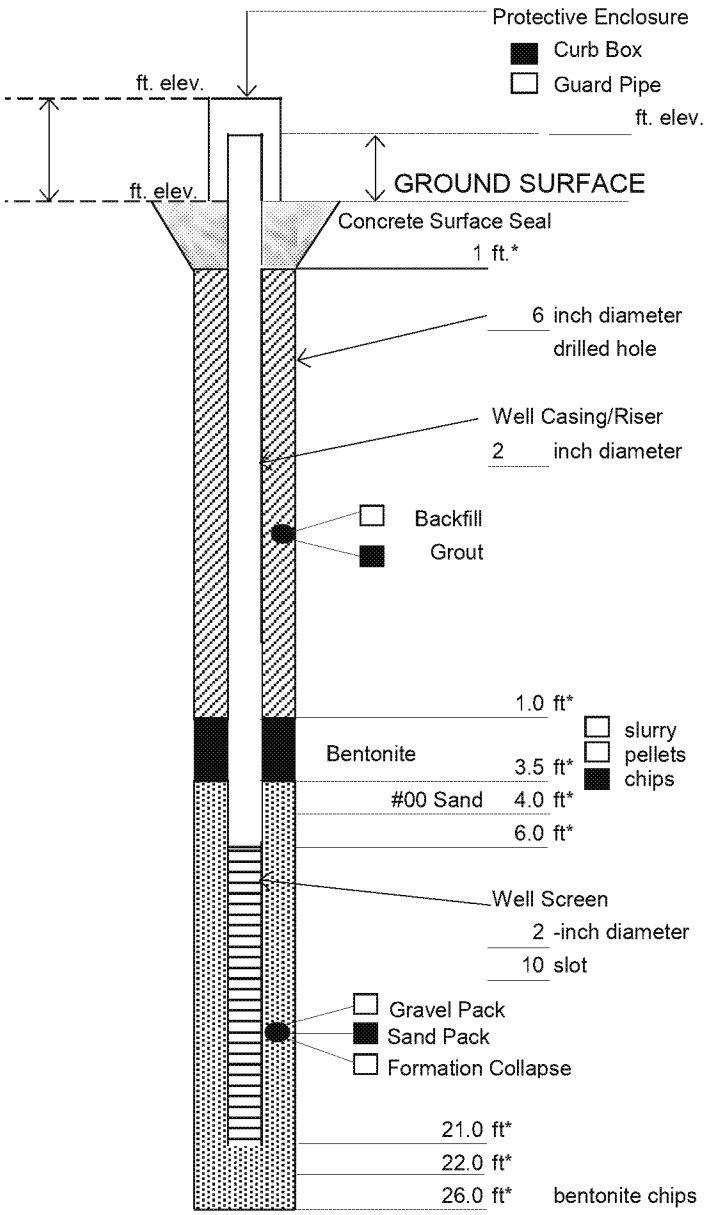
1/2 bag #00 sand
50 lbs. - FilPro

MWconstlog 8.11.15.xls

C.T. MALE ASSOCIATES

Well No. MW-05

MONITORING WELL CONSTRUCTION LOG



* Depth below ground surface.

Project Name: SGPP
Hoosick Falls

Project Number: 15.5133

Well No.: MW-05 Boring No.: MW-05

Town/City: Hoosick Falls

County: Rensselaer State: New York

Installation Date(s): 8/11/2015-8/12/2015

Drilling Contractor: Cascade Drilling

Drilling Method: Roto Sonic

Water Depth From Top of Riser: ____ ft ____ Date

C.T. Male Observer: Jonathan Dippert

Materials Used:

6.75	Bags of Sand	(50 lb. bags)	
	Sand Size: 0	Brand: FilPro	
1/2	Bags of Bentonite	(50 lb. bags)	
	Brand: Cetco Medium Chips		
15	ft. of Schedule 40 PVC	well screen	
6	ft. of Schedule 40 PVC	well riser	
2	Bags of Cement/Concrete	(60 lb. bags)	
	Brand: Quikrete Concrete Mix		

Grout Mixture:

____	Bags of Cement	(____ lb. bags)
____	Lbs. of Bentonite	
____	Gallons of Water	
____	Grout Batches	

Notes:

#00 Sand - 1/4 bag - FilPro - 50 lbs.

MWconstlog 8.11.15.xls