



December 21, 2018

Mr. Jason Pelton
New York State Department of Environmental Conservation
Division of Environmental Remediation
Remedial Bureau A, 12th Floor
625 Broadway
Albany, New York 12233-7015

Reference: CLEAN Contract No. N6247016D9008
Contract Task Order WE13

Subject: Technical Memorandum for Per- and Polyfluoroalkyl Substances (PFAS) Results of the
April/May 2018 Groundwater Sampling Event, December 20, 2018
Naval Weapons Industrial Reserve Plant (NWIRP) Bethpage, New York

Dear Mr. Pelton:

On behalf of the Department of the Navy, Tetra Tech is submitting the subject Memorandum to New York State Department of Environmental Conservation (NYSDEC) for information.

If you have any questions or would like a paper copy of the document, please contact Mr. Brian Murray, NAVFAC Mid-Atlantic, at brian.s.murray@navy.mil or (757) 341-0491.

Sincerely

A handwritten signature in black ink, appearing to read 'David D. Brayack'.

David D. Brayack, P.E.
Project Manager

Enclosures: Technical Memorandum for Per- and Polyfluoroalkyl Substances (PFAS) Results of the
April/May 2018 Groundwater Sampling Event, December 20, 2018
Naval Weapons Industrial Reserve Plant (NWIRP) Bethpage, New York

Distribution:
NYSDEC, Don Hesler
NAVFAC Mid-Atlantic, Brian Murray
Project File

**Technical Memorandum for Per- and Polyfluoroalkyl Substance (PFAS) Results of the
April/May 2018 Groundwater Sampling Event, NWIRP Bethpage
December 20, 2018**

1.0 Introduction

The Navy is conducting an investigation to evaluate the potential release of per- and polyfluoroalkyl substances (PFAS) at the former Naval Weapons Industrial Reserve Plant (NWIRP) Bethpage, New York using the existing groundwater monitoring well network. The existing groundwater monitoring well network is currently used to evaluate the release and cleanup of select volatile organic compounds (VOCs), polychlorinated biphenyls, and/or metals in groundwater resulting from operations at the former NWIRP Bethpage. NWIRP Bethpage does not have a documented source or release of PFAS. This Technical Memorandum was prepared by Tetra Tech, Inc. (Tetra Tech) under the Naval Facilities Engineering Command (NAVFAC) Atlantic Comprehensive Long-Term Environmental Action Navy (CLEAN) Contract Number N62470-16-D-9008 Task Order WE13.

2.0 April/May 2018 Groundwater and Surface Water Sampling Event

Tetra Tech conducted a groundwater and surface water sampling event from April 23, 2018 to May 2, 2018. Groundwater samples were collected from 27 of 58 on-property monitoring wells within the existing network. The 27 wells were selected to evaluate potential releases at the facility by testing groundwater flowing onto and off of the facility. The remaining wells are located in the interior of the facility and are used to monitor migration and attenuation of known groundwater contaminants. Surface water samples were collected at two locations from recharge basins at the facility. Water samples were also collected from a manhole at the discharge of the Bethpage Community Park groundwater extraction and treatment system. These samples are used to evaluate potential flow of impacted waters onto the facility via the storm water system and from non-point sources on the facility. Sample locations are presented on Figure 1.

A down-hole, variable speed, submersible, centrifugal pump with high-density polyethylene (HDPE) tubing was used for groundwater purging and sample collection. The pump was used in combination with a continuous flow through cell for water quality measurements (dissolved oxygen, oxidation-reduction potential, specific conductance, pH, and temperature). Turbidity measurements were made using a separate field turbidity meter. Between each sample the reusable sampling equipment was decontaminated with a non-phosphate detergent followed by a rinse with PFAS-free water provided by the laboratory.

Sample MH-SW-4001 was collected at a manhole at the discharge of the Bethpage Community Park treatment system. Surface water sample location SW-4002 was collected at the outfall in the Northeast Recharge Basin and consists of water from the Bethpage Community Park treatment system and storm water (during precipitation events). Surface water sample location SW-4004 was collected at the outfall in the Southwest Recharge Basin and consists of storm water (during precipitation events). Samples were collected at MH-SW-4001, SW-4002, and SW-4004 during a precipitation event (0.21 inch) on April 27, 2018. In addition, because there

is continuous discharge from the treatment system, samples were collected at MH-SW-4001 and SW-4002 on May 1, 2018, during a period of no precipitation.

The samples were submitted to Vista Analytical Laboratory in El Dorado Hills, California for analysis of twenty-one PFAS compounds via Modified U.S. Environmental Protection Agency (EPA) Method 537. Validated laboratory analytical results and field measured water quality parameters for the shallow, intermediate-depth, deep-intermediate groundwater, and surface water are presented in Tables 1, 2, 3, and 4 respectively. Sample locations along with the PFOA and PFOS analytical results for shallow, intermediate-depth, and deep-intermediate wells are presented in Figures 2, 3, and 4, respectively. Results for all the PFAS parameters are presented in Table 5.

There are currently no New York-specific criteria for PFAS compounds that are directly applicable to the Navy. In New York, the Maximum Contaminant Levels (MCLs) for an individual PFAS compound defaults to the unspecified organic contaminant value of 50,000 nanograms per liter (ng/L, or ppt) (New York State Department of Health [NYSDOH] Part 5, Subpart 5-1 Public Water Systems, Table 3 Organic Chemicals, MCL Determination). These requirements apply to public water suppliers. The analytical results for perfluorooctanoic acid (PFOA), perfluorooctanesulfonic acid (PFOS), and the sum of PFOA and PFOS for this event were compared to the EPA lifetime health advisory of 70 ng/L. New York regulations and the EPA lifetime health advisories are being evaluated as potential applicable or relevant and appropriate requirements (ARARs) or 'To Be Considered' requirements under Comprehensive Environmental Response, Compensation, and Liability Act, and therefore are being considered by the Navy as test results are being evaluated. In addition, the analytical results for perfluorobutanesulfonic acid (PFBS) were compared to the EPA Regional Screening Level (RSL) of 40,000 ng/L.

Preliminary observations of the data collected during this event are as follows:

- In the on-property NWIRP Bethpage well groundwater samples, the concentrations of PFOA ranged from 1.95 ng/L to 96.2 ng/L. PFOS concentrations ranged from not detected to 29.6 ng/L. The sum of PFOA and PFOS concentrations ranged from 1.95 ng/L to 107 ng/L.
- PFOA and the sum of PFOA and PFOS exceeded the EPA health advisory at only one location, shallow well MW24S. PFOA at MW24S was 96.2 ng/L and the sum of PFOA and PFOS at MW24S was 107 ng/L, both of which exceeded the EPA health advisory level of 70 ng/L.
- Groundwater flow in the area is generally from the northwest to southeast. A comparison was conducted of the analytical results from the northern and western monitoring wells (representing groundwater flowing onto the site) and the southern monitoring wells (representing groundwater flowing offsite). The averages of PFOA, PFOS, and sum of PFOA and PFOS are presented on Tables 1, 2, and 3 for the shallow, intermediate-depth, and deep-intermediate wells, respectively. The results show that the average concentrations are generally greater in the northern and western monitoring wells (upgradient) in comparison to the southern wells (downgradient).

Additional sample results from the follow-on events will be required to confirm this interpretation.

- In the discharge samples from the Bethpage Community Park treatment system (MH-SW-4001), the concentrations of PFOA ranged from 20 ng/L to 20.7 ng/L. PFOS concentrations ranged from 15.6 ng/L to 16.1 ng/L.
- In the surface water samples from the Northeast Recharge Basin (SW-4002), the concentrations of PFOA ranged from 4.21 ng/L to 21.4 ng/L. PFOS concentrations ranged from not detected to 19 ng/L. Concentrations of PFOA and PFOS were lower in the samples collected during the precipitation event.
- In the outfall sample from the Southwest Recharge Basin (SW-4004), the concentrations of PFOA and PFOS were 3.17 ng/L and 1.37 ng/L, respectively.

The 2018 March/April sampling event was the first of five planned by the US Navy to evaluate PFAS concentrations in Bethpage area groundwater. The next sampling event was completed in September 2018 and additional sampling events are planned for December 2018, March 2019, and June 2019. Validated data will be released as it becomes available. The results will be compiled into a CERCLA Preliminary Assessment/Site Inspection Report and issued in draft form for regulatory review.

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TABLES

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TABLE 1
SHALLOW WELL ANALYTICAL RESULTS AND GROUNDWATER PARAMETERS
FACILITY WIDE PFAS INVESTIGATION
NWIRP BETHPAGE, NEW YORK
April/May 2018
Page 1 of 1

Well I.D.	Date Sampled	Screen Interval (ft bgs)	PFOA Result (ng/L)		PFOS Result (ng/L)		PFOA + PFOS Sum (ng/L)		pH (S.U.)	Turbidity (NTU)	Specific Conductivity (mS/cm)	Temperature (C°)	DO (mg/L)	ORP (mV)	Salinity (ppt)
BP-HN-MW24S	4/24/2018	48.6-58.6	96.2	J+	10.8		107		6.57	1.75	0.336	17.08	3.18	172	0.2
BP-TT-AOC22-MW10	4/24/2018	49-59	22.5		5.23		27.7		5.65	11.2	0.42	16.69	1.87	297	--
BPS1-TT-MW301S	4/25/2018	51-61	4.73	J+	2.85	U	4.73		6.69	1.72	0.185	16.68	0.09	188	0.1
BPS1-TT-MW305S	4/27/2018	40-50	22.3		3.49	J	25.8		5.53	12.2	0.294	16.09	8.17	236	--
BPS1-TT-MW306S	4/26/2018	50-60	5.45		9.22		14.7		6.15	3.2	0.093	16.55	6.83	215	--
BPS1-TT-MW307S	4/26/2018	40.5-50.5	1.95	J	2.59	U	1.95		6.32	9.34	0.063	16.88	7.96	204	0
BPS1-TT-MW308S	5/1/2018	54-64	2.85	J	1.58	J	4.43		6.31	9.27	0.195	14.5	5.34	186	0.1
BPS1-TT-MW309S	4/25/2018	53-63	53.2		9.34		62.5		6.88	11.5	0.238	14.97	2.42	204	0.1
BPS1-TT-MW310S	4/30/2018	57.5-67.5	30.1	J+	15.3		45.4		6.72	8.31	0.42	14.89	2	178	0.2
BPS1-TT-MW311S	4/29/2018	55-65	10.9		3.87		14.8		6.24	5.47	0.826	14.73	8.18	184	0.4
BPS1-TT-MW312S	4/29/2018	53-63	26.0	J+	3.72	J+	29.7		5.99	1.5	0.294	13.51	7.84	192	--
BPS1-TT-MW313S	4/25/2018	53-63	3.63	J	6.97		10.6		6.76	12.3	0.266	10.88	3.44	192	0.1
BPS1-TT-MW314S	4/30/2018	55-65	7.94		3.28	J	11.2		5.99	0.2	0.133	14.51	7.53	205	--

Average-Northern and Western wells			43.3		8.6		51.9								
Average-Southern Wells *			9.4		5.3		13.4								

Notes:

PFOA: Pentadecafluorooctanoic Acid
 PFOS: Perfluorooctanesulfonic Acid
 ng/L: nanograms per liter
 ft bgs: feet below ground surface
 S.U.: Specific Units
 NTU: Nephelometric Turbidity Unit
 °C: Degree Celcius

DO: Dissolved Oxygen
 mg/L: Milligrams per liter
 ORP: Oxidation-Reduction Potential
 mV: Millivolts
 ppt: Parts per thousand
 U: Not detected
 J: Value estimated
 J+: Value estimated, bias high

Bolded results exceed the EPA health advisory level of 70 ng/L for the combined concentrations of PFOA and PFOS

Northern and Western wells = BP-HN-MW24S, BPS1-TT-MW309S, BPS1-TT-MW310S, BPS1-TT-MW311S, and BPS1-TT-MW312S

Southern wells = BPS1-TT-MW305S, BPS1-TT-MW306S, BPS1-TT-MW307S, and BPS1-TT-MW314S

* - Results with a U qualifier (not detected) were not included in the average

TABLE 2
INTERMEDIATE-DEPTH WELL ANALYTICAL RESULTS AND GROUNDWATER PARAMETERS
FACILITY WIDE PFAS INVESTIGATION
NWIRP BETHPAGE, NEW YORK
April/May 2018
Page 1 of 1

Well I.D.	Date Sampled	Screen Interval (ft bgs)	PFOA Result (ng/L)		PFOS Result (ng/L)		PFOA + PFOS Sum (ng/L)		pH (S.U.)	Turbidity (NTU)	Specific Conductivity (mS/cm)	Temperature (C°)	DO (mg/L)	ORP (mV)	Salinity (ppt)
BP-HN-MW24IR	4/27/2018	148-158	22.7		29.6		52.3		5.79	2.71	0.236	14.54	4.3	239	0.1
BPS1-TT-MW301I	4/30/2018	130-140	6.31	J+	1.57	U	6.31		6.47	6.93	0.072	14.31	1.04	182	0
BPS1-TT-MW305I	4/27/2018	190-200	16.2	J+	5.12		21.3		5.51	1.1	0.153	15.2	4.62	263	0.1
BPS1-TT-MW306I	4/26/2018	189-199	17.3		5.30		22.6		5.48	2.1	0.189	16.11	5.36	265	--
BPS1-TT-MW307I	4/26/2018	188-198	9.12		6.43		15.6		5.8	7.94	0.053	15.72	7.36	267	0
BPS1-TT-MW308I	4/26/2018	156-166	14.0		11.0		25.0		5.92	2.9	0.365	15.49	2.23	203	--
BPS1-TT-MW309I	4/26/2018	160-170	16.2		12.2		28.4		5.71	4.95	0.288	18.01	3.89	238	0.1
BPS1-TT-MW314I	4/30/2018	144-154	16.8	J+	12.5		29.3		5.94	0.5	0.377	14.47	0	204	--
Average-Northern and Western wells			19.5		20.9		40.4								
Average-Southern Wells			14.9		7.3		22.2								

Notes:

PFOA: Pentadecafluorooctanoic Acid
PFOS: Perfluorooctanesulfonic Acid
ng/L: nanograms per liter
ft bgs: feet below ground surface
S.U.: Specific Units
NTU: Nephelometric Turbidity Unit
°C: Degree Celcius

DO: Dissolved Oxygen
mg/L: Milligrams per liter
ORP: Oxidation-Reduction Potential
mV: Millivolts
ppt: Parts per thousand
U: Not detected
J: Value estimated
J+: Value estimated, bias high

Bolded results exceed the EPA health advisory level of 70 ng/L for the combined concentrations of PFOA and PFOS
Northern and Western wells = BP-HN-MW24IR and BPS1-TT-MW309I
Southern wells = BPS1-TT-MW305I, BPS1-TT-MW306I, and BPS1-TT-MW307I

TABLE 3
DEEP INTERMEDIATE WELL ANALYTICAL RESULTS AND GROUNDWATER PARAMETERS
FACILITY WIDE PFAS INVESTIGATION
NWIRP BETHPAGE, NEW YORK
April/May 2018
Page 1 of 1

Well I.D.	Date Sampled	Screen Interval (ft bgs)	PFOA Result (ng/L)	PFOS Result (ng/L)	PFOA + PFOS Sum (ng/L)	pH (S.U.)	Turbidity (NTU)	Specific Conductivity (mS/cm)	Temperature (C°)	DO (mg/L)	ORP (mV)	Salinity (ppt)
BPS1-TT-MW301D	4/29/2018	210-220	16.2	13.2	29.4	6.46	0.1	0.243	14.8	0	178	0.1
BPS1-TT-MW305D	4/27/2018	286-296	21.8	7.47	29.3	5.6	0.64	0.136	15.01	1.55	228	0.1
BPS1-TT-MW306D	4/26/2018	284-294	9.72	5.29	15.0	5.8	1.95	0.1	16.66	1.46	216	0
BPS1-TT-MW307D	4/26/2018	276-286	9.51	6.75	16.3	6.58	3.91	0.051	15.62	1.56	183	0.1
BPS1-TT-MW308D	4/30/2018	250-260	16.1	J+ 11.1	27.2	5.21	0	0.601	13.77	6.98	309	--
BPS1-TT-MW309D	4/29/2018	252-262	11.0	16.1	27.1	5.19	1.1	0.258	15.01	0	263	0.1

Northern and Western well *			11.0	16.1	27.1							
Average-Southern Wells			13.7	6.5	20.2							

Notes:

PFOA: Pentadecafluorooctanoic Acid
 PFOS: Perfluorooctanesulfonic Acid
 ng/L: nanograms per liter
 ft bgs: feet below ground surface
 S.U.: Specific Units
 NTU: Nephelometric Turbidity Unit
 °C: Degree Celcius

DO: Dissolved Oxygen
 mg/L: Milligrams per liter
 ORP: Oxidation-Reduction Potential
 mV: Millivolts
 ppt: Parts per thousand
 U: Not detected
 J: Value estimated
 J+: Value estimated, bias high

Bolded results exceed the EPA health advisory level of 70 ng/L for the combined concentrations of PFOA and PFOS

Northern and Western wells = BPS1-TT-MW309D

Southern wells = BPS1-TT-MW305D, BPS1-TT-MW306D, and BPS1-TT-MW307D

* - Results are from the one deep well located along the northern boundary of the site.

TABLE 4
SURFACE WATER AND DISCHARGE WATER ANALYTICAL RESULTS AND PARAMETERS
FACILITY WIDE PFAS INVESTIGATION
NWIRP BETHPAGE, NEW YORK
April/May 2018
Page 1 of 1

Sample I.D.	Date Sampled	PFOA Result (ng/L)		PFOS Result (ng/L)		PFOA + PFOS Sum (ng/L)		pH (S.U.)	Turbidity (NTU)	Specific Conductivity (mS/cm)	Temperature (C°)	DO (mg/L)	ORP (mV)	Salinity (ppt)
BP-MH-SW4001-SOUTH-20180427 ⁽¹⁾	4/27/2018	20.7	J+	15.6		36.3		--	--	--	--	--	--	--
BP-MH-SW4001-SOUTH-20180501 ⁽²⁾	5/1/2018	20.0		16.1		36.1		5.55	2.6	0.435	15.86	6.54	142	0.2
BP-TT-SW4002-20180427 ⁽¹⁾	4/27/2018	4.21	J+	2.45	U	4.21		--	--	--	--	--	--	--
BP-TT-SW4002-20180501 ⁽²⁾	5/1/2018	21.4		19.0		40.4		6.05	7.1	0.378	14.58	7.22	131	0.2
BP-TT-SW4004-20180427 ⁽¹⁾	4/27/2018	3.17	J	1.37	J	4.54		--	--	--	--	--	--	--

Notes:

PFOA: Pentadecafluorooctanoic Acid
 PFOS: Perfluorooctanesulfonic Acid
 ng/L: nanograms per liter
 S.U.: Specific Units
 NTU: Nephelometric Turbidity Unit
 °C: Degree Celcius
 1 - Sample collected during precipitation event
 2 - Sample collected during period of no precipitation

DO: Dissolved Oxygen
 mg/L: Milligrams per liter
 ORP: Oxidation-Reduction Potential
 mV: Millivolts
 ppt: Parts per thousand
 U: Not detected
 J: Value estimated
 J+: Value estimated, bias high

TABLE 5
SURFACE WATER AND GROUNDWATER PFAS DATA
FACILITY WIDE INVESTIGATION
NWIRP BETHPAGE, NEW YORK
April/May 2018
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Sample ID	Analyte	Result (ng/L)	Final Qualifier	Method
BP-TT-AOC22-MW10-20180424	6:2 FLUOROTELOMER SULFONATE (6:2FTS)	2.43	U	Modified EPA Method 537
BP-TT-AOC22-MW10-20180424	8:2 FLUOROTELOMER SULFONATE (8:2FTS)	2.43	U	Modified EPA Method 537
BP-TT-AOC22-MW10-20180424	N-ETHYLPERFLUOROOCCTANE SULFONAMIDOACETATE(NEFOSA)	2.43	U	Modified EPA Method 537
BP-TT-AOC22-MW10-20180424	N-METHYLPERFLUOROOCCTANE SULFONAMIDOACETATE(NMFOSA)	2.43	U	Modified EPA Method 537
BP-TT-AOC22-MW10-20180424	PENTADEC AFLUOROOCCTANOIC ACID (PFOA)	22.5		Modified EPA Method 537
BP-TT-AOC22-MW10-20180424	PERFLUOROBUTANESULFONIC ACID (PFBS)	2.43	U	Modified EPA Method 537
BP-TT-AOC22-MW10-20180424	PERFLUOROBUTANOIC ACID (PFBA)	8.86		Modified EPA Method 537
BP-TT-AOC22-MW10-20180424	PERFLUORODECANESULFONIC ACID (PFDS)	2.43	U	Modified EPA Method 537
BP-TT-AOC22-MW10-20180424	PERFLUORODECANOIC ACID (PFDA)	2.43	U	Modified EPA Method 537
BP-TT-AOC22-MW10-20180424	PERFLUORODODECANOIC ACID (PFDOA)	2.43	U	Modified EPA Method 537
BP-TT-AOC22-MW10-20180424	PERFLUOROHEPTANESULFONIC ACID (PFHPS)	2.43	U	Modified EPA Method 537
BP-TT-AOC22-MW10-20180424	PERFLUOROHEPTANOIC ACID (PFHPA)	7.84		Modified EPA Method 537
BP-TT-AOC22-MW10-20180424	PERFLUOROHEXANESULFONIC ACID (PFHXS)	2.80	J	Modified EPA Method 537
BP-TT-AOC22-MW10-20180424	PERFLUOROHEXANOIC ACID (PFHXA)	8.16		Modified EPA Method 537
BP-TT-AOC22-MW10-20180424	PERFLUORONONANOIC ACID (PFNA)	2.49	J	Modified EPA Method 537
BP-TT-AOC22-MW10-20180424	PERFLUOROOCCTANE SULFONAMIDE (FOSA)	2.43	U	Modified EPA Method 537
BP-TT-AOC22-MW10-20180424	PERFLUOROOCCTANESULFONIC ACID (PFOS)	5.23		Modified EPA Method 537
BP-TT-AOC22-MW10-20180424	PERFLUOROPENTANOIC ACID (PFPEA)	7.15		Modified EPA Method 537
BP-TT-AOC22-MW10-20180424	PERFLUOROTETRADECANOIC ACID (PFTEA)	2.43	U	Modified EPA Method 537
BP-TT-AOC22-MW10-20180424	PERFLUOROTRIDECANOIC ACID (PFTRIA)	2.43	U	Modified EPA Method 537
BP-TT-AOC22-MW10-20180424	PERFLUOROUNDECANOIC ACID (PFUNA)	2.43	U	Modified EPA Method 537
BP-HN-MW24S-20180424	6:2 FLUOROTELOMER SULFONATE (6:2FTS)	2.49	U	Modified EPA Method 537
BP-HN-MW24S-20180424	8:2 FLUOROTELOMER SULFONATE (8:2FTS)	2.49	U	Modified EPA Method 537
BP-HN-MW24S-20180424	N-ETHYLPERFLUOROOCCTANE SULFONAMIDOACETATE(NEFOSA)	2.49	U	Modified EPA Method 537
BP-HN-MW24S-20180424	N-METHYLPERFLUOROOCCTANE SULFONAMIDOACETATE(NMFOSA)	2.49	U	Modified EPA Method 537
BP-HN-MW24S-20180424	PENTADEC AFLUOROOCCTANOIC ACID (PFOA)	96.2	J	Modified EPA Method 537
BP-HN-MW24S-20180424	PERFLUOROBUTANESULFONIC ACID (PFBS)	1.85	J	Modified EPA Method 537
BP-HN-MW24S-20180424	PERFLUOROBUTANOIC ACID (PFBA)	17.6		Modified EPA Method 537
BP-HN-MW24S-20180424	PERFLUORODECANESULFONIC ACID (PFDS)	2.49	U	Modified EPA Method 537
BP-HN-MW24S-20180424	PERFLUORODECANOIC ACID (PFDA)	1.80	J	Modified EPA Method 537
BP-HN-MW24S-20180424	PERFLUORODODECANOIC ACID (PFDOA)	2.49	U	Modified EPA Method 537
BP-HN-MW24S-20180424	PERFLUOROHEPTANESULFONIC ACID (PFHPS)	2.49	U	Modified EPA Method 537
BP-HN-MW24S-20180424	PERFLUOROHEPTANOIC ACID (PFHPA)	33.4		Modified EPA Method 537
BP-HN-MW24S-20180424	PERFLUOROHEXANESULFONIC ACID (PFHXS)	1.81	J	Modified EPA Method 537
BP-HN-MW24S-20180424	PERFLUOROHEXANOIC ACID (PFHXA)	22.5		Modified EPA Method 537
BP-HN-MW24S-20180424	PERFLUORONONANOIC ACID (PFNA)	43.8		Modified EPA Method 537
BP-HN-MW24S-20180424	PERFLUOROOCCTANE SULFONAMIDE (FOSA)	2.49	U	Modified EPA Method 537
BP-HN-MW24S-20180424	PERFLUOROOCCTANESULFONIC ACID (PFOS)	10.8		Modified EPA Method 537
BP-HN-MW24S-20180424	PERFLUOROPENTANOIC ACID (PFPEA)	26.5		Modified EPA Method 537
BP-HN-MW24S-20180424	PERFLUOROTETRADECANOIC ACID (PFTEA)	2.49	U	Modified EPA Method 537
BP-HN-MW24S-20180424	PERFLUOROTRIDECANOIC ACID (PFTRIA)	2.49	U	Modified EPA Method 537
BP-HN-MW24S-20180424	PERFLUOROUNDECANOIC ACID (PFUNA)	2.33	J	Modified EPA Method 537
BP-HN-MW24IR-20180427	6:2 FLUOROTELOMER SULFONATE (6:2FTS)	2.44	U	Modified EPA Method 537
BP-HN-MW24IR-20180427	8:2 FLUOROTELOMER SULFONATE (8:2FTS)	2.44	U	Modified EPA Method 537
BP-HN-MW24IR-20180427	N-ETHYLPERFLUOROOCCTANE SULFONAMIDOACETATE(NEFOSA)	2.44	U	Modified EPA Method 537
BP-HN-MW24IR-20180427	N-METHYLPERFLUOROOCCTANE SULFONAMIDOACETATE(NMFOSA)	2.44	U	Modified EPA Method 537
BP-HN-MW24IR-20180427	PENTADEC AFLUOROOCCTANOIC ACID (PFOA)	22.7		Modified EPA Method 537
BP-HN-MW24IR-20180427	PERFLUOROBUTANESULFONIC ACID (PFBS)	1.68	J	Modified EPA Method 537
BP-HN-MW24IR-20180427	PERFLUOROBUTANOIC ACID (PFBA)	14.8		Modified EPA Method 537
BP-HN-MW24IR-20180427	PERFLUORODECANESULFONIC ACID (PFDS)	2.44	U	Modified EPA Method 537
BP-HN-MW24IR-20180427	PERFLUORODECANOIC ACID (PFDA)	2.44	U	Modified EPA Method 537
BP-HN-MW24IR-20180427	PERFLUORODODECANOIC ACID (PFDOA)	2.44	U	Modified EPA Method 537
BP-HN-MW24IR-20180427	PERFLUOROHEPTANESULFONIC ACID (PFHPS)	2.44	U	Modified EPA Method 537
BP-HN-MW24IR-20180427	PERFLUOROHEPTANOIC ACID (PFHPA)	14.8		Modified EPA Method 537
BP-HN-MW24IR-20180427	PERFLUOROHEXANESULFONIC ACID (PFHXS)	5.78		Modified EPA Method 537
BP-HN-MW24IR-20180427	PERFLUOROHEXANOIC ACID (PFHXA)	17.0		Modified EPA Method 537
BP-HN-MW24IR-20180427	PERFLUORONONANOIC ACID (PFNA)	6.05		Modified EPA Method 537
BP-HN-MW24IR-20180427	PERFLUOROOCCTANE SULFONAMIDE (FOSA)	2.44	U	Modified EPA Method 537
BP-HN-MW24IR-20180427	PERFLUOROOCCTANESULFONIC ACID (PFOS)	29.6		Modified EPA Method 537
BP-HN-MW24IR-20180427	PERFLUOROPENTANOIC ACID (PFPEA)	16.9		Modified EPA Method 537
BP-HN-MW24IR-20180427	PERFLUOROTETRADECANOIC ACID (PFTEA)	2.44	U	Modified EPA Method 537
BP-HN-MW24IR-20180427	PERFLUOROTRIDECANOIC ACID (PFTRIA)	2.44	U	Modified EPA Method 537
BP-HN-MW24IR-20180427	PERFLUOROUNDECANOIC ACID (PFUNA)	2.44	U	Modified EPA Method 537
BPS1-TT-MW301S-20180425	6:2 FLUOROTELOMER SULFONATE (6:2FTS)	2.85	U	Modified EPA Method 537
BPS1-TT-MW301S-20180425	8:2 FLUOROTELOMER SULFONATE (8:2FTS)	2.85	U	Modified EPA Method 537
BPS1-TT-MW301S-20180425	N-ETHYLPERFLUOROOCCTANE SULFONAMIDOACETATE(NEFOSA)	2.85	U	Modified EPA Method 537
BPS1-TT-MW301S-20180425	N-METHYLPERFLUOROOCCTANE SULFONAMIDOACETATE(NMFOSA)	2.85	U	Modified EPA Method 537
BPS1-TT-MW301S-20180425	PENTADEC AFLUOROOCCTANOIC ACID (PFOA)	4.73	J+	Modified EPA Method 537
BPS1-TT-MW301S-20180425	PERFLUOROBUTANESULFONIC ACID (PFBS)	2.85	U	Modified EPA Method 537
BPS1-TT-MW301S-20180425	PERFLUOROBUTANOIC ACID (PFBA)	2.1	J	Modified EPA Method 537

TABLE 5
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Sample ID	Analyte	Result (ng/L)	Final Qualifier	Method
BPS1-TT-MW301S-20180425	PERFLUORODECANESULFONIC ACID (PFDS)	2.85	U	Modified EPA Method 537
BPS1-TT-MW301S-20180425	PERFLUORODECANOIC ACID (PFDA)	2.85	U	Modified EPA Method 537
BPS1-TT-MW301S-20180425	PERFLUORODODECANOIC ACID (PFDOA)	2.85	U	Modified EPA Method 537
BPS1-TT-MW301S-20180425	PERFLUOROHEPTANESULFONIC ACID (PFHPS)	2.85	U	Modified EPA Method 537
BPS1-TT-MW301S-20180425	PERFLUOROHEPTANOIC ACID (PFHPA)	2.43	J	Modified EPA Method 537
BPS1-TT-MW301S-20180425	PERFLUOROHEXANESULFONIC ACID (PFHXS)	2.85	U	Modified EPA Method 537
BPS1-TT-MW301S-20180425	PERFLUOROHEXANOIC ACID (PFHXA)	4.5	J	Modified EPA Method 537
BPS1-TT-MW301S-20180425	PERFLUORONONANOIC ACID (PFNA)	2.85	U	Modified EPA Method 537
BPS1-TT-MW301S-20180425	PERFLUOROCTANE SULFONAMIDE (FOSA)	2.85	U	Modified EPA Method 537
BPS1-TT-MW301S-20180425	PERFLUOROCTANESULFONIC ACID (PFOS)	2.85	U	Modified EPA Method 537
BPS1-TT-MW301S-20180425	PERFLUOROPENTANOIC ACID (PFPEA)	5.63		Modified EPA Method 537
BPS1-TT-MW301S-20180425	PERFLUOROTETRADECANOIC ACID (PFTEA)	2.85	U	Modified EPA Method 537
BPS1-TT-MW301S-20180425	PERFLUOROTRIDECANOIC ACID (PFTRIA)	2.85	U	Modified EPA Method 537
BPS1-TT-MW301S-20180425	PERFLUOROUNDECANOIC ACID (PFUNA)	2.85	U	Modified EPA Method 537
BPS1-TT-MW301I-20180430	6:2 FLUOROTELOMER SULFONATE (6:2FTS)	2.46	U	Modified EPA Method 537
BPS1-TT-MW301I-20180430	8:2 FLUOROTELOMER SULFONATE (8:2FTS)	2.46	U	Modified EPA Method 537
BPS1-TT-MW301I-20180430	N-ETHYLPERFLUOROCTANE SULFONAMIDOACETATE(NEFOSA)	2.46	U	Modified EPA Method 537
BPS1-TT-MW301I-20180430	N-METHYLPERFLUOROCTANE SULFONAMIDOACETATE(NMFOSA)	2.46	U	Modified EPA Method 537
BPS1-TT-MW301I-20180430	PENTADEC AFLUOROCTANOIC ACID (PFOA)	6.31	J+	Modified EPA Method 537
BPS1-TT-MW301I-20180430	PERFLUOROBUTANESULFONIC ACID (PFBS)	1.88	J	Modified EPA Method 537
BPS1-TT-MW301I-20180430	PERFLUOROBUTANOIC ACID (PFBA)	4.48	J+	Modified EPA Method 537
BPS1-TT-MW301I-20180430	PERFLUORODECANESULFONIC ACID (PFDS)	2.46	U	Modified EPA Method 537
BPS1-TT-MW301I-20180430	PERFLUORODECANOIC ACID (PFDA)	1.56	J+	Modified EPA Method 537
BPS1-TT-MW301I-20180430	PERFLUORODODECANOIC ACID (PFDOA)	2.46	U	Modified EPA Method 537
BPS1-TT-MW301I-20180430	PERFLUOROHEPTANESULFONIC ACID (PFHPS)	2.46	U	Modified EPA Method 537
BPS1-TT-MW301I-20180430	PERFLUOROHEPTANOIC ACID (PFHPA)	6.18		Modified EPA Method 537
BPS1-TT-MW301I-20180430	PERFLUOROHEXANESULFONIC ACID (PFHXS)	2.46	U	Modified EPA Method 537
BPS1-TT-MW301I-20180430	PERFLUOROHEXANOIC ACID (PFHXA)	7.94	J+	Modified EPA Method 537
BPS1-TT-MW301I-20180430	PERFLUORONONANOIC ACID (PFNA)	2.5	J+	Modified EPA Method 537
BPS1-TT-MW301I-20180430	PERFLUOROCTANE SULFONAMIDE (FOSA)	2.46	U	Modified EPA Method 537
BPS1-TT-MW301I-20180430	PERFLUOROCTANESULFONIC ACID (PFOS)	1.57	J	Modified EPA Method 537
BPS1-TT-MW301I-20180430	PERFLUOROPENTANOIC ACID (PFPEA)	10		Modified EPA Method 537
BPS1-TT-MW301I-20180430	PERFLUOROTETRADECANOIC ACID (PFTEA)	2.46	U	Modified EPA Method 537
BPS1-TT-MW301I-20180430	PERFLUOROTRIDECANOIC ACID (PFTRIA)	2.46	U	Modified EPA Method 537
BPS1-TT-MW301I-20180430	PERFLUOROUNDECANOIC ACID (PFUNA)	2.46	U	Modified EPA Method 537
BPS1-TT-MW301D-20180429	6:2 FLUOROTELOMER SULFONATE (6:2FTS)	2.42	U	Modified EPA Method 537
BPS1-TT-MW301D-20180429	8:2 FLUOROTELOMER SULFONATE (8:2FTS)	2.42	U	Modified EPA Method 537
BPS1-TT-MW301D-20180429	N-ETHYLPERFLUOROCTANE SULFONAMIDOACETATE(NEFOSA)	2.42	U	Modified EPA Method 537
BPS1-TT-MW301D-20180429	N-METHYLPERFLUOROCTANE SULFONAMIDOACETATE(NMFOSA)	2.42	U	Modified EPA Method 537
BPS1-TT-MW301D-20180429	PENTADEC AFLUOROCTANOIC ACID (PFOA)	16.2		Modified EPA Method 537
BPS1-TT-MW301D-20180429	PERFLUOROBUTANESULFONIC ACID (PFBS)	2.42	U	Modified EPA Method 537
BPS1-TT-MW301D-20180429	PERFLUOROBUTANOIC ACID (PFBA)	14.1		Modified EPA Method 537
BPS1-TT-MW301D-20180429	PERFLUORODECANESULFONIC ACID (PFDS)	2.42	U	Modified EPA Method 537
BPS1-TT-MW301D-20180429	PERFLUORODECANOIC ACID (PFDA)	1.81	J	Modified EPA Method 537
BPS1-TT-MW301D-20180429	PERFLUORODODECANOIC ACID (PFDOA)	2.42	U	Modified EPA Method 537
BPS1-TT-MW301D-20180429	PERFLUOROHEPTANESULFONIC ACID (PFHPS)	2.42	U	Modified EPA Method 537
BPS1-TT-MW301D-20180429	PERFLUOROHEPTANOIC ACID (PFHPA)	17.3		Modified EPA Method 537
BPS1-TT-MW301D-20180429	PERFLUOROHEXANESULFONIC ACID (PFHXS)	4.17		Modified EPA Method 537
BPS1-TT-MW301D-20180429	PERFLUOROHEXANOIC ACID (PFHXA)	25.8		Modified EPA Method 537
BPS1-TT-MW301D-20180429	PERFLUORONONANOIC ACID (PFNA)	8.54		Modified EPA Method 537
BPS1-TT-MW301D-20180429	PERFLUOROCTANE SULFONAMIDE (FOSA)	2.42	U	Modified EPA Method 537
BPS1-TT-MW301D-20180429	PERFLUOROCTANESULFONIC ACID (PFOS)	13.2		Modified EPA Method 537
BPS1-TT-MW301D-20180429	PERFLUOROPENTANOIC ACID (PFPEA)	35		Modified EPA Method 537
BPS1-TT-MW301D-20180429	PERFLUOROTETRADECANOIC ACID (PFTEA)	2.42	U	Modified EPA Method 537
BPS1-TT-MW301D-20180429	PERFLUOROTRIDECANOIC ACID (PFTRIA)	2.42	U	Modified EPA Method 537
BPS1-TT-MW301D-20180429	PERFLUOROUNDECANOIC ACID (PFUNA)	2.42	U	Modified EPA Method 537
BPS1-TT-MW305S-20180427	6:2 FLUOROTELOMER SULFONATE (6:2FTS)	2.41	U	Modified EPA Method 537
BPS1-TT-MW305S-20180427	8:2 FLUOROTELOMER SULFONATE (8:2FTS)	2.41	U	Modified EPA Method 537
BPS1-TT-MW305S-20180427	N-ETHYLPERFLUOROCTANE SULFONAMIDOACETATE(NEFOSA)	2.41	U	Modified EPA Method 537
BPS1-TT-MW305S-20180427	N-METHYLPERFLUOROCTANE SULFONAMIDOACETATE(NMFOSA)	2.41	U	Modified EPA Method 537
BPS1-TT-MW305S-20180427	PENTADEC AFLUOROCTANOIC ACID (PFOA)	22.3		Modified EPA Method 537
BPS1-TT-MW305S-20180427	PERFLUOROBUTANESULFONIC ACID (PFBS)	4.69		Modified EPA Method 537
BPS1-TT-MW305S-20180427	PERFLUOROBUTANOIC ACID (PFBA)	13.6		Modified EPA Method 537
BPS1-TT-MW305S-20180427	PERFLUORODECANESULFONIC ACID (PFDS)	2.41	U	Modified EPA Method 537
BPS1-TT-MW305S-20180427	PERFLUORODECANOIC ACID (PFDA)	2.41	U	Modified EPA Method 537
BPS1-TT-MW305S-20180427	PERFLUORODODECANOIC ACID (PFDOA)	2.41	U	Modified EPA Method 537
BPS1-TT-MW305S-20180427	PERFLUOROHEPTANESULFONIC ACID (PFHPS)	2.41	U	Modified EPA Method 537
BPS1-TT-MW305S-20180427	PERFLUOROHEPTANOIC ACID (PFHPA)	54.7		Modified EPA Method 537
BPS1-TT-MW305S-20180427	PERFLUOROHEXANESULFONIC ACID (PFHXS)	2.41	U	Modified EPA Method 537
BPS1-TT-MW305S-20180427	PERFLUOROHEXANOIC ACID (PFHXA)	54.8		Modified EPA Method 537

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Sample ID	Analyte	Result (ng/L)	Final Qualifier	Method
BPS1-TT-MW305S-20180427	PERFLUORONONANOIC ACID (PFNA)	16.5		Modified EPA Method 537
BPS1-TT-MW305S-20180427	PERFLUOROOCTANE SULFONAMIDE (FOSA)	2.41	U	Modified EPA Method 537
BPS1-TT-MW305S-20180427	PERFLUOROOCTANESULFONIC ACID (PFOS)	3.49	J	Modified EPA Method 537
BPS1-TT-MW305S-20180427	PERFLUOROPENTANOIC ACID (PFPEA)	19.3		Modified EPA Method 537
BPS1-TT-MW305S-20180427	PERFLUOROTETRADECANOIC ACID (PFTEA)	2.41	U	Modified EPA Method 537
BPS1-TT-MW305S-20180427	PERFLUOROTRIDECANOIC ACID (PFTRIA)	2.41	U	Modified EPA Method 537
BPS1-TT-MW305S-20180427	PERFLUOROUNDECANOIC ACID (PFUNA)	2.41	U	Modified EPA Method 537
BPS1-TT-MW305I-20180427	6:2 FLUOROTELOMER SULFONATE (6:2FTS)	1.64	J	Modified EPA Method 537
BPS1-TT-MW305I-20180427	8:2 FLUOROTELOMER SULFONATE (8:2FTS)	2.45	U	Modified EPA Method 537
BPS1-TT-MW305I-20180427	N-ETHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NEFOSA)	2.45	U	Modified EPA Method 537
BPS1-TT-MW305I-20180427	N-METHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NMFOSA)	2.45	U	Modified EPA Method 537
BPS1-TT-MW305I-20180427	PENTADECALUOROOCTANOIC ACID (PFOA)	16.2	J+	Modified EPA Method 537
BPS1-TT-MW305I-20180427	PERFLUOROBUTANESULFONIC ACID (PFBS)	2.45	U	Modified EPA Method 537
BPS1-TT-MW305I-20180427	PERFLUOROBUTANOIC ACID (PFBA)	17.4		Modified EPA Method 537
BPS1-TT-MW305I-20180427	PERFLUORODECANESULFONIC ACID (PFDS)	2.45	U	Modified EPA Method 537
BPS1-TT-MW305I-20180427	PERFLUORODECANOIC ACID (PFDA)	2.45	U	Modified EPA Method 537
BPS1-TT-MW305I-20180427	PERFLUORODODECANOIC ACID (PFDOA)	2.45	U	Modified EPA Method 537
BPS1-TT-MW305I-20180427	PERFLUOROHEPTANESULFONIC ACID (PFHPS)	2.45	U	Modified EPA Method 537
BPS1-TT-MW305I-20180427	PERFLUROHEPTANOIC ACID (PFHPA)	8.54		Modified EPA Method 537
BPS1-TT-MW305I-20180427	PERFLUROHEXANESULFONIC ACID (PFHXS)	2.5	J	Modified EPA Method 537
BPS1-TT-MW305I-20180427	PERFLUROHEXANOIC ACID (PFHXA)	13.9		Modified EPA Method 537
BPS1-TT-MW305I-20180427	PERFLUORONONANOIC ACID (PFNA)	1.84	J+	Modified EPA Method 537
BPS1-TT-MW305I-20180427	PERFLUOROOCTANE SULFONAMIDE (FOSA)	2.45	U	Modified EPA Method 537
BPS1-TT-MW305I-20180427	PERFLUOROOCTANESULFONIC ACID (PFOS)	5.12		Modified EPA Method 537
BPS1-TT-MW305I-20180427	PERFLUOROPENTANOIC ACID (PFPEA)	15.6		Modified EPA Method 537
BPS1-TT-MW305I-20180427	PERFLUOROTETRADECANOIC ACID (PFTEA)	2.45	U	Modified EPA Method 537
BPS1-TT-MW305I-20180427	PERFLUOROTRIDECANOIC ACID (PFTRIA)	2.45	U	Modified EPA Method 537
BPS1-TT-MW305I-20180427	PERFLUOROUNDECANOIC ACID (PFUNA)	2.45	U	Modified EPA Method 537
BPS1-TT-MW305D-20180427	6:2 FLUOROTELOMER SULFONATE (6:2FTS)	9.1		Modified EPA Method 537
BPS1-TT-MW305D-20180427	8:2 FLUOROTELOMER SULFONATE (8:2FTS)	2.43	U	Modified EPA Method 537
BPS1-TT-MW305D-20180427	N-ETHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NEFOSA)	2.43	U	Modified EPA Method 537
BPS1-TT-MW305D-20180427	N-METHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NMFOSA)	2.43	U	Modified EPA Method 537
BPS1-TT-MW305D-20180427	PENTADECALUOROOCTANOIC ACID (PFOA)	21.8		Modified EPA Method 537
BPS1-TT-MW305D-20180427	PERFLUOROBUTANESULFONIC ACID (PFBS)	2.43	U	Modified EPA Method 537
BPS1-TT-MW305D-20180427	PERFLUOROBUTANOIC ACID (PFBA)	9.25		Modified EPA Method 537
BPS1-TT-MW305D-20180427	PERFLUORODECANESULFONIC ACID (PFDS)	2.43	U	Modified EPA Method 537
BPS1-TT-MW305D-20180427	PERFLUORODECANOIC ACID (PFDA)	2.43	U	Modified EPA Method 537
BPS1-TT-MW305D-20180427	PERFLUORODODECANOIC ACID (PFDOA)	2.43	U	Modified EPA Method 537
BPS1-TT-MW305D-20180427	PERFLUROHEPTANESULFONIC ACID (PFHPS)	2.43	U	Modified EPA Method 537
BPS1-TT-MW305D-20180427	PERFLUROHEPTANOIC ACID (PFHPA)	4.42		Modified EPA Method 537
BPS1-TT-MW305D-20180427	PERFLUROHEXANESULFONIC ACID (PFHXS)	1.46	J	Modified EPA Method 537
BPS1-TT-MW305D-20180427	PERFLUROHEXANOIC ACID (PFHXA)	7.39		Modified EPA Method 537
BPS1-TT-MW305D-20180427	PERFLUORONONANOIC ACID (PFNA)	1.84	J	Modified EPA Method 537
BPS1-TT-MW305D-20180427	PERFLUOROOCTANE SULFONAMIDE (FOSA)	2.43	U	Modified EPA Method 537
BPS1-TT-MW305D-20180427	PERFLUOROOCTANESULFONIC ACID (PFOS)	7.47		Modified EPA Method 537
BPS1-TT-MW305D-20180427	PERFLUOROPENTANOIC ACID (PFPEA)	7.67		Modified EPA Method 537
BPS1-TT-MW305D-20180427	PERFLUOROTETRADECANOIC ACID (PFTEA)	2.43	U	Modified EPA Method 537
BPS1-TT-MW305D-20180427	PERFLUOROTRIDECANOIC ACID (PFTRIA)	2.43	U	Modified EPA Method 537
BPS1-TT-MW305D-20180427	PERFLUOROUNDECANOIC ACID (PFUNA)	2.43	U	Modified EPA Method 537
BPS1-TT-MW306S-20180426	6:2 FLUOROTELOMER SULFONATE (6:2FTS)	2.5	U	Modified EPA Method 537
BPS1-TT-MW306S-20180426	8:2 FLUOROTELOMER SULFONATE (8:2FTS)	2.5	U	Modified EPA Method 537
BPS1-TT-MW306S-20180426	N-ETHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NEFOSA)	2.5	U	Modified EPA Method 537
BPS1-TT-MW306S-20180426	N-METHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NMFOSA)	2.5	U	Modified EPA Method 537
BPS1-TT-MW306S-20180426	PENTADECALUOROOCTANOIC ACID (PFOA)	5.45		Modified EPA Method 537
BPS1-TT-MW306S-20180426	PERFLUOROBUTANESULFONIC ACID (PFBS)	2.5	U	Modified EPA Method 537
BPS1-TT-MW306S-20180426	PERFLUOROBUTANOIC ACID (PFBA)	4.34		Modified EPA Method 537
BPS1-TT-MW306S-20180426	PERFLUORODECANESULFONIC ACID (PFDS)	2.5	U	Modified EPA Method 537
BPS1-TT-MW306S-20180426	PERFLUORODECANOIC ACID (PFDA)	2.03	J	Modified EPA Method 537
BPS1-TT-MW306S-20180426	PERFLUORODODECANOIC ACID (PFDOA)	2.5	U	Modified EPA Method 537
BPS1-TT-MW306S-20180426	PERFLUROHEPTANESULFONIC ACID (PFHPS)	2.5	U	Modified EPA Method 537
BPS1-TT-MW306S-20180426	PERFLUROHEPTANOIC ACID (PFHPA)	2.5	U	Modified EPA Method 537
BPS1-TT-MW306S-20180426	PERFLUROHEXANESULFONIC ACID (PFHXS)	2.5	U	Modified EPA Method 537
BPS1-TT-MW306S-20180426	PERFLUROHEXANOIC ACID (PFHXA)	2.5	U	Modified EPA Method 537
BPS1-TT-MW306S-20180426	PERFLUORONONANOIC ACID (PFNA)	1.88	J	Modified EPA Method 537
BPS1-TT-MW306S-20180426	PERFLUOROOCTANE SULFONAMIDE (FOSA)	2.5	U	Modified EPA Method 537
BPS1-TT-MW306S-20180426	PERFLUOROOCTANESULFONIC ACID (PFOS)	9.22		Modified EPA Method 537
BPS1-TT-MW306S-20180426	PERFLUOROPENTANOIC ACID (PFPEA)	1.72	J	Modified EPA Method 537
BPS1-TT-MW306S-20180426	PERFLUOROTETRADECANOIC ACID (PFTEA)	2.5	U	Modified EPA Method 537
BPS1-TT-MW306S-20180426	PERFLUOROTRIDECANOIC ACID (PFTRIA)	2.5	U	Modified EPA Method 537
BPS1-TT-MW306S-20180426	PERFLUOROUNDECANOIC ACID (PFUNA)	2.5	U	Modified EPA Method 537

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Sample ID	Analyte	Result (ng/L)	Final Qualifier	Method
BPS1-TT-MW306I-20180426	6:2 FLUOROTELOMER SULFONATE (6:2FTS)	2.46	U	Modified EPA Method 537
BPS1-TT-MW306I-20180426	8:2 FLUOROTELOMER SULFONATE (8:2FTS)	2.46	U	Modified EPA Method 537
BPS1-TT-MW306I-20180426	N-ETHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NEFOSA)	2.46	U	Modified EPA Method 537
BPS1-TT-MW306I-20180426	N-METHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NMFOSA)	2.46	U	Modified EPA Method 537
BPS1-TT-MW306I-20180426	PENTADECALUOROOCTANOIC ACID (PFOA)	17.3		Modified EPA Method 537
BPS1-TT-MW306I-20180426	PERFLUOROBUTANESULFONIC ACID (PFBS)	2.46	U	Modified EPA Method 537
BPS1-TT-MW306I-20180426	PERFLUOROBUTANOIC ACID (PFBA)	16		Modified EPA Method 537
BPS1-TT-MW306I-20180426	PERFLUORODECANESULFONIC ACID (PFDS)	2.46	U	Modified EPA Method 537
BPS1-TT-MW306I-20180426	PERFLUORODECANOIC ACID (PFDA)	2.46	U	Modified EPA Method 537
BPS1-TT-MW306I-20180426	PERFLUORODODECANOIC ACID (PFDOA)	2.46	U	Modified EPA Method 537
BPS1-TT-MW306I-20180426	PERFLUOROHEPTANESULFONIC ACID (PFHPS)	2.46	U	Modified EPA Method 537
BPS1-TT-MW306I-20180426	PERFLUOROHEPTANOIC ACID (PFHPA)	10.3		Modified EPA Method 537
BPS1-TT-MW306I-20180426	PERFLUOROHEXANESULFONIC ACID (PFHXS)	2.19	J	Modified EPA Method 537
BPS1-TT-MW306I-20180426	PERFLUOROHEXANOIC ACID (PFHXA)	13.6		Modified EPA Method 537
BPS1-TT-MW306I-20180426	PERFLUORONONANOIC ACID (PFNA)	4.32		Modified EPA Method 537
BPS1-TT-MW306I-20180426	PERFLUOROOCTANE SULFONAMIDE (FOSA)	2.46	U	Modified EPA Method 537
BPS1-TT-MW306I-20180426	PERFLUOROOCTANESULFONIC ACID (PFOS)	5.38		Modified EPA Method 537
BPS1-TT-MW306I-20180426	PERFLUOROPENTANOIC ACID (PFPEA)	14.3		Modified EPA Method 537
BPS1-TT-MW306I-20180426	PERFLUOROTETRADECANOIC ACID (PFTEA)	2.46	U	Modified EPA Method 537
BPS1-TT-MW306I-20180426	PERFLUOROTRIDECANOIC ACID (PFTRIA)	2.46	U	Modified EPA Method 537
BPS1-TT-MW306I-20180426	PERFLUOROUNDECANOIC ACID (PFUNA)	2.46	U	Modified EPA Method 537
BPS1-TT-MW306D-20180426	6:2 FLUOROTELOMER SULFONATE (6:2FTS)	2.44	U	Modified EPA Method 537
BPS1-TT-MW306D-20180426	8:2 FLUOROTELOMER SULFONATE (8:2FTS)	2.44	U	Modified EPA Method 537
BPS1-TT-MW306D-20180426	N-ETHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NEFOSA)	2.44	U	Modified EPA Method 537
BPS1-TT-MW306D-20180426	N-METHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NMFOSA)	2.44	U	Modified EPA Method 537
BPS1-TT-MW306D-20180426	PENTADECALUOROOCTANOIC ACID (PFOA)	9.72		Modified EPA Method 537
BPS1-TT-MW306D-20180426	PERFLUOROBUTANESULFONIC ACID (PFBS)	2.44	U	Modified EPA Method 537
BPS1-TT-MW306D-20180426	PERFLUOROBUTANOIC ACID (PFBA)	3.21	J	Modified EPA Method 537
BPS1-TT-MW306D-20180426	PERFLUORODECANESULFONIC ACID (PFDS)	2.44	U	Modified EPA Method 537
BPS1-TT-MW306D-20180426	PERFLUORODECANOIC ACID (PFDA)	2.48	J	Modified EPA Method 537
BPS1-TT-MW306D-20180426	PERFLUORODODECANOIC ACID (PFDOA)	2.44	U	Modified EPA Method 537
BPS1-TT-MW306D-20180426	PERFLUOROHEPTANESULFONIC ACID (PFHPS)	2.44	U	Modified EPA Method 537
BPS1-TT-MW306D-20180426	PERFLUOROHEPTANOIC ACID (PFHPA)	3.02	J	Modified EPA Method 537
BPS1-TT-MW306D-20180426	PERFLUOROHEXANESULFONIC ACID (PFHXS)	2.44	U	Modified EPA Method 537
BPS1-TT-MW306D-20180426	PERFLUOROHEXANOIC ACID (PFHXA)	4.14		Modified EPA Method 537
BPS1-TT-MW306D-20180426	PERFLUORONONANOIC ACID (PFNA)	2.75	J	Modified EPA Method 537
BPS1-TT-MW306D-20180426	PERFLUOROOCTANE SULFONAMIDE (FOSA)	2.44	U	Modified EPA Method 537
BPS1-TT-MW306D-20180426	PERFLUOROOCTANESULFONIC ACID (PFOS)	5.29		Modified EPA Method 537
BPS1-TT-MW306D-20180426	PERFLUOROPENTANOIC ACID (PFPEA)	4.45		Modified EPA Method 537
BPS1-TT-MW306D-20180426	PERFLUOROTETRADECANOIC ACID (PFTEA)	2.44	U	Modified EPA Method 537
BPS1-TT-MW306D-20180426	PERFLUOROTRIDECANOIC ACID (PFTRIA)	2.44	U	Modified EPA Method 537
BPS1-TT-MW306D-20180426	PERFLUOROUNDECANOIC ACID (PFUNA)	2.44	U	Modified EPA Method 537
BPS1-TT-MW307S-20180426	6:2 FLUOROTELOMER SULFONATE (6:2FTS)	2.59	U	Modified EPA Method 537
BPS1-TT-MW307S-20180426	8:2 FLUOROTELOMER SULFONATE (8:2FTS)	2.59	U	Modified EPA Method 537
BPS1-TT-MW307S-20180426	N-ETHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NEFOSA)	2.59	U	Modified EPA Method 537
BPS1-TT-MW307S-20180426	N-METHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NMFOSA)	2.59	U	Modified EPA Method 537
BPS1-TT-MW307S-20180426	PENTADECALUOROOCTANOIC ACID (PFOA)	1.95	J	Modified EPA Method 537
BPS1-TT-MW307S-20180426	PERFLUOROBUTANESULFONIC ACID (PFBS)	2.59	U	Modified EPA Method 537
BPS1-TT-MW307S-20180426	PERFLUOROBUTANOIC ACID (PFBA)	1.98	J	Modified EPA Method 537
BPS1-TT-MW307S-20180426	PERFLUORODECANESULFONIC ACID (PFDS)	2.59	U	Modified EPA Method 537
BPS1-TT-MW307S-20180426	PERFLUORODECANOIC ACID (PFDA)	1.87	J	Modified EPA Method 537
BPS1-TT-MW307S-20180426	PERFLUORODODECANOIC ACID (PFDOA)	2.59	U	Modified EPA Method 537
BPS1-TT-MW307S-20180426	PERFLUOROHEPTANESULFONIC ACID (PFHPS)	2.59	U	Modified EPA Method 537
BPS1-TT-MW307S-20180426	PERFLUOROHEPTANOIC ACID (PFHPA)	2.59	U	Modified EPA Method 537
BPS1-TT-MW307S-20180426	PERFLUOROHEXANESULFONIC ACID (PFHXS)	2.59	U	Modified EPA Method 537
BPS1-TT-MW307S-20180426	PERFLUOROHEXANOIC ACID (PFHXA)	2.59	U	Modified EPA Method 537
BPS1-TT-MW307S-20180426	PERFLUORONONANOIC ACID (PFNA)	2.59	U	Modified EPA Method 537
BPS1-TT-MW307S-20180426	PERFLUOROOCTANE SULFONAMIDE (FOSA)	2.59	U	Modified EPA Method 537
BPS1-TT-MW307S-20180426	PERFLUOROOCTANESULFONIC ACID (PFOS)	2.59	U	Modified EPA Method 537
BPS1-TT-MW307S-20180426	PERFLUOROPENTANOIC ACID (PFPEA)	2.59	U	Modified EPA Method 537
BPS1-TT-MW307S-20180426	PERFLUOROTETRADECANOIC ACID (PFTEA)	2.59	U	Modified EPA Method 537
BPS1-TT-MW307S-20180426	PERFLUOROTRIDECANOIC ACID (PFTRIA)	2.59	U	Modified EPA Method 537
BPS1-TT-MW307S-20180426	PERFLUOROUNDECANOIC ACID (PFUNA)	2.59	U	Modified EPA Method 537
BPS1-TT-MW307I-20180426	6:2 FLUOROTELOMER SULFONATE (6:2FTS)	2.43	U	Modified EPA Method 537
BPS1-TT-MW307I-20180426	8:2 FLUOROTELOMER SULFONATE (8:2FTS)	2.43	U	Modified EPA Method 537
BPS1-TT-MW307I-20180426	N-ETHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NEFOSA)	2.43	U	Modified EPA Method 537
BPS1-TT-MW307I-20180426	N-METHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NMFOSA)	2.43	U	Modified EPA Method 537
BPS1-TT-MW307I-20180426	PENTADECALUOROOCTANOIC ACID (PFOA)	9.12		Modified EPA Method 537
BPS1-TT-MW307I-20180426	PERFLUOROBUTANESULFONIC ACID (PFBS)	2.43	U	Modified EPA Method 537
BPS1-TT-MW307I-20180426	PERFLUOROBUTANOIC ACID (PFBA)	2.92	J	Modified EPA Method 537

TABLE 5
SURFACE WATER AND GROUNDWATER PFAS DATA
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Sample ID	Analyte	Result (ng/L)	Final Qualifier	Method
BPS1-TT-MW307I-20180426	PERFLUORODECANESULFONIC ACID (PFDS)	2.43	U	Modified EPA Method 537
BPS1-TT-MW307I-20180426	PERFLUORODECANOIC ACID (PFDA)	4.67		Modified EPA Method 537
BPS1-TT-MW307I-20180426	PERFLUORODODECANOIC ACID (PFDOA)	2.43	U	Modified EPA Method 537
BPS1-TT-MW307I-20180426	PERFLUOROHEPTANESULFONIC ACID (PFHPS)	2.43	U	Modified EPA Method 537
BPS1-TT-MW307I-20180426	PERFLUOROHEPTANOIC ACID (PFHPA)	4.47		Modified EPA Method 537
BPS1-TT-MW307I-20180426	PERFLUOROHEXANESULFONIC ACID (PFHXS)	2.43	U	Modified EPA Method 537
BPS1-TT-MW307I-20180426	PERFLUOROHEXANOIC ACID (PFHXA)	2.43	U	Modified EPA Method 537
BPS1-TT-MW307I-20180426	PERFLUORONONANOIC ACID (PFNA)	3.05	J	Modified EPA Method 537
BPS1-TT-MW307I-20180426	PERFLUOROOCTANE SULFONAMIDE (FOSA)	2.43	U	Modified EPA Method 537
BPS1-TT-MW307I-20180426	PERFLUOROOCTANESULFONIC ACID (PFOS)	6.43		Modified EPA Method 537
BPS1-TT-MW307I-20180426	PERFLUOROPENTANOIC ACID (PFPEA)	5.51		Modified EPA Method 537
BPS1-TT-MW307I-20180426	PERFLUOROTETRADECANOIC ACID (PFTEA)	2.43	U	Modified EPA Method 537
BPS1-TT-MW307I-20180426	PERFLUOROTRIDECANOIC ACID (PFTRIA)	2.43	U	Modified EPA Method 537
BPS1-TT-MW307I-20180426	PERFLUOROUNDECANOIC ACID (PFUNA)	2.43	U	Modified EPA Method 537
BPS1-TT-MW307D-20180426	6:2 FLUOROTELOMER SULFONATE (6:2FTS)	2.39	U	Modified EPA Method 537
BPS1-TT-MW307D-20180426	8:2 FLUOROTELOMER SULFONATE (8:2FTS)	2.39	U	Modified EPA Method 537
BPS1-TT-MW307D-20180426	N-ETHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NEFOSA)	2.39	U	Modified EPA Method 537
BPS1-TT-MW307D-20180426	N-METHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NMFOSA)	2.39	U	Modified EPA Method 537
BPS1-TT-MW307D-20180426	PENTADECALUOROOCTANOIC ACID (PFOA)	9.51		Modified EPA Method 537
BPS1-TT-MW307D-20180426	PERFLUOROBUTANESULFONIC ACID (PFBS)	2.39	U	Modified EPA Method 537
BPS1-TT-MW307D-20180426	PERFLUOROBUTANOIC ACID (PFBA)	2.71	J	Modified EPA Method 537
BPS1-TT-MW307D-20180426	PERFLUORODECANESULFONIC ACID (PFDS)	2.39	U	Modified EPA Method 537
BPS1-TT-MW307D-20180426	PERFLUORODECANOIC ACID (PFDA)	4.91		Modified EPA Method 537
BPS1-TT-MW307D-20180426	PERFLUORODODECANOIC ACID (PFDOA)	2.39	U	Modified EPA Method 537
BPS1-TT-MW307D-20180426	PERFLUOROHEPTANESULFONIC ACID (PFHPS)	2.39	U	Modified EPA Method 537
BPS1-TT-MW307D-20180426	PERFLUOROHEPTANOIC ACID (PFHPA)	4.39		Modified EPA Method 537
BPS1-TT-MW307D-20180426	PERFLUOROHEXANESULFONIC ACID (PFHXS)	2.39	U	Modified EPA Method 537
BPS1-TT-MW307D-20180426	PERFLUOROHEXANOIC ACID (PFHXA)	4.71		Modified EPA Method 537
BPS1-TT-MW307D-20180426	PERFLUORONONANOIC ACID (PFNA)	2.7	J	Modified EPA Method 537
BPS1-TT-MW307D-20180426	PERFLUOROOCTANE SULFONAMIDE (FOSA)	2.39	U	Modified EPA Method 537
BPS1-TT-MW307D-20180426	PERFLUOROOCTANESULFONIC ACID (PFOS)	5.51		Modified EPA Method 537
BPS1-TT-MW307D-20180426	PERFLUOROPENTANOIC ACID (PFPEA)	6.51		Modified EPA Method 537
BPS1-TT-MW307D-20180426	PERFLUOROTETRADECANOIC ACID (PFTEA)	2.39	U	Modified EPA Method 537
BPS1-TT-MW307D-20180426	PERFLUOROTRIDECANOIC ACID (PFTRIA)	2.39	U	Modified EPA Method 537
BPS1-TT-MW307D-20180426	PERFLUOROUNDECANOIC ACID (PFUNA)	2.39	U	Modified EPA Method 537
BPS1-TT-MW307D-20180426-D (Dup)	6:2 FLUOROTELOMER SULFONATE (6:2FTS)	2.51	U	Modified EPA Method 537
BPS1-TT-MW307D-20180426-D (Dup)	8:2 FLUOROTELOMER SULFONATE (8:2FTS)	2.51	U	Modified EPA Method 537
BPS1-TT-MW307D-20180426-D (Dup)	N-ETHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NEFOSA)	2.51	U	Modified EPA Method 537
BPS1-TT-MW307D-20180426-D (Dup)	N-METHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NMFOSA)	2.51	U	Modified EPA Method 537
BPS1-TT-MW307D-20180426-D (Dup)	PENTADECALUOROOCTANOIC ACID (PFOA)	9.14		Modified EPA Method 537
BPS1-TT-MW307D-20180426-D (Dup)	PERFLUOROBUTANESULFONIC ACID (PFBS)	2.51	U	Modified EPA Method 537
BPS1-TT-MW307D-20180426-D (Dup)	PERFLUOROBUTANOIC ACID (PFBA)	2.56	J	Modified EPA Method 537
BPS1-TT-MW307D-20180426-D (Dup)	PERFLUORODECANESULFONIC ACID (PFDS)	2.51	U	Modified EPA Method 537
BPS1-TT-MW307D-20180426-D (Dup)	PERFLUORODECANOIC ACID (PFDA)	4.13		Modified EPA Method 537
BPS1-TT-MW307D-20180426-D (Dup)	PERFLUORODODECANOIC ACID (PFDOA)	2.51	U	Modified EPA Method 537
BPS1-TT-MW307D-20180426-D (Dup)	PERFLUOROHEPTANESULFONIC ACID (PFHPS)	2.51	U	Modified EPA Method 537
BPS1-TT-MW307D-20180426-D (Dup)	PERFLUOROHEPTANOIC ACID (PFHPA)	3.63	J	Modified EPA Method 537
BPS1-TT-MW307D-20180426-D (Dup)	PERFLUOROHEXANESULFONIC ACID (PFHXS)	2.51	U	Modified EPA Method 537
BPS1-TT-MW307D-20180426-D (Dup)	PERFLUOROHEXANOIC ACID (PFHXA)	2.51	U	Modified EPA Method 537
BPS1-TT-MW307D-20180426-D (Dup)	PERFLUORONONANOIC ACID (PFNA)	2.47	J	Modified EPA Method 537
BPS1-TT-MW307D-20180426-D (Dup)	PERFLUOROOCTANE SULFONAMIDE (FOSA)	2.51	U	Modified EPA Method 537
BPS1-TT-MW307D-20180426-D (Dup)	PERFLUOROOCTANESULFONIC ACID (PFOS)	6.75		Modified EPA Method 537
BPS1-TT-MW307D-20180426-D (Dup)	PERFLUOROPENTANOIC ACID (PFPEA)	6.16		Modified EPA Method 537
BPS1-TT-MW307D-20180426-D (Dup)	PERFLUOROTETRADECANOIC ACID (PFTEA)	2.51	U	Modified EPA Method 537
BPS1-TT-MW307D-20180426-D (Dup)	PERFLUOROTRIDECANOIC ACID (PFTRIA)	2.51	U	Modified EPA Method 537
BPS1-TT-MW307D-20180426-D (Dup)	PERFLUOROUNDECANOIC ACID (PFUNA)	2.51	U	Modified EPA Method 537
BPS1-TT-MW308S-20180426	6:2 FLUOROTELOMER SULFONATE (6:2FTS)	2.41	U	Modified EPA Method 537
BPS1-TT-MW308S-20180426	8:2 FLUOROTELOMER SULFONATE (8:2FTS)	2.41	U	Modified EPA Method 537
BPS1-TT-MW308S-20180426	N-ETHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NEFOSA)	2.41	U	Modified EPA Method 537
BPS1-TT-MW308S-20180426	N-METHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NMFOSA)	2.41	U	Modified EPA Method 537
BPS1-TT-MW308S-20180426	PENTADECALUOROOCTANOIC ACID (PFOA)	2.85	J	Modified EPA Method 537
BPS1-TT-MW308S-20180426	PERFLUOROBUTANESULFONIC ACID (PFBS)	2.41	U	Modified EPA Method 537
BPS1-TT-MW308S-20180426	PERFLUOROBUTANOIC ACID (PFBA)	2.27	J	Modified EPA Method 537
BPS1-TT-MW308S-20180426	PERFLUORODECANESULFONIC ACID (PFDS)	2.41	U	Modified EPA Method 537
BPS1-TT-MW308S-20180426	PERFLUORODECANOIC ACID (PFDA)	1.47	J	Modified EPA Method 537
BPS1-TT-MW308S-20180426	PERFLUORODODECANOIC ACID (PFDOA)	2.41	U	Modified EPA Method 537
BPS1-TT-MW308S-20180426	PERFLUOROHEPTANESULFONIC ACID (PFHPS)	2.41	U	Modified EPA Method 537
BPS1-TT-MW308S-20180426	PERFLUOROHEPTANOIC ACID (PFHPA)	1.94	J	Modified EPA Method 537
BPS1-TT-MW308S-20180426	PERFLUOROHEXANESULFONIC ACID (PFHXS)	2.41	U	Modified EPA Method 537
BPS1-TT-MW308S-20180426	PERFLUOROHEXANOIC ACID (PFHXA)	2.41	U	Modified EPA Method 537

TABLE 5
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Sample ID	Analyte	Result (ng/L)	Final Qualifier	Method
BPS1-TT-MW308S-20180426	PERFLUORONONANOIC ACID (PFNA)	1.84	J	Modified EPA Method 537
BPS1-TT-MW308S-20180426	PERFLUOROOCTANE SULFONAMIDE (FOSA)	2.41	U	Modified EPA Method 537
BPS1-TT-MW308S-20180426	PERFLUOROOCTANESULFONIC ACID (PFOS)	1.58	J	Modified EPA Method 537
BPS1-TT-MW308S-20180426	PERFLUOROPENTANOIC ACID (PFPEA)	5.21		Modified EPA Method 537
BPS1-TT-MW308S-20180426	PERFLUOROTETRADECANOIC ACID (PFTEA)	2.41	U	Modified EPA Method 537
BPS1-TT-MW308S-20180426	PERFLUOROTRIDECANOIC ACID (PFTRIA)	2.41	U	Modified EPA Method 537
BPS1-TT-MW308S-20180426	PERFLUOROUNDECANOIC ACID (PFUNA)	1.44	J	Modified EPA Method 537
BPS1-TT-MW308I-20180426	6:2 FLUOROTELOMER SULFONATE (6:2FTS)	2.41	U	Modified EPA Method 537
BPS1-TT-MW308I-20180426	8:2 FLUOROTELOMER SULFONATE (8:2FTS)	2.41	U	Modified EPA Method 537
BPS1-TT-MW308I-20180426	N-ETHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NEFOSA)	2.41	U	Modified EPA Method 537
BPS1-TT-MW308I-20180426	N-METHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NMFOSA)	2.41	U	Modified EPA Method 537
BPS1-TT-MW308I-20180426	PENTADECALUOROOCTANOIC ACID (PFOA)	14		Modified EPA Method 537
BPS1-TT-MW308I-20180426	PERFLUOROBUTANESULFONIC ACID (PFBS)	1.37	J	Modified EPA Method 537
BPS1-TT-MW308I-20180426	PERFLUOROBUTANOIC ACID (PFBA)	14.1		Modified EPA Method 537
BPS1-TT-MW308I-20180426	PERFLUORODECANESULFONIC ACID (PFDS)	2.41	U	Modified EPA Method 537
BPS1-TT-MW308I-20180426	PERFLUORODECANOIC ACID (PFDA)	1.67	J	Modified EPA Method 537
BPS1-TT-MW308I-20180426	PERFLUORODODECANOIC ACID (PFDOA)	2.41	U	Modified EPA Method 537
BPS1-TT-MW308I-20180426	PERFLUOROHEPTANESULFONIC ACID (PFHPS)	2.41	U	Modified EPA Method 537
BPS1-TT-MW308I-20180426	PERFLUROHEPTANOIC ACID (PFHPA)	15		Modified EPA Method 537
BPS1-TT-MW308I-20180426	PERFLUROHEXANESULFONIC ACID (PFHXS)	3.13	J	Modified EPA Method 537
BPS1-TT-MW308I-20180426	PERFLUROHEXANOIC ACID (PFHXA)	25.7		Modified EPA Method 537
BPS1-TT-MW308I-20180426	PERFLURONONANOIC ACID (PFNA)	8.33		Modified EPA Method 537
BPS1-TT-MW308I-20180426	PERFLUOROOCTANE SULFONAMIDE (FOSA)	2.41	U	Modified EPA Method 537
BPS1-TT-MW308I-20180426	PERFLUOROOCTANESULFONIC ACID (PFOS)	11		Modified EPA Method 537
BPS1-TT-MW308I-20180426	PERFLUOROPENTANOIC ACID (PFPEA)	38.4		Modified EPA Method 537
BPS1-TT-MW308I-20180426	PERFLUOROTETRADECANOIC ACID (PFTEA)	2.41	U	Modified EPA Method 537
BPS1-TT-MW308I-20180426	PERFLUOROTRIDECANOIC ACID (PFTRIA)	2.41	U	Modified EPA Method 537
BPS1-TT-MW308I-20180426	PERFLUOROUNDECANOIC ACID (PFUNA)	2.41	U	Modified EPA Method 537
BPS1-TT-MW308D-20180430	6:2 FLUOROTELOMER SULFONATE (6:2FTS)	2.42	U	Modified EPA Method 537
BPS1-TT-MW308D-20180430	8:2 FLUOROTELOMER SULFONATE (8:2FTS)	2.42	U	Modified EPA Method 537
BPS1-TT-MW308D-20180430	N-ETHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NEFOSA)	2.42	U	Modified EPA Method 537
BPS1-TT-MW308D-20180430	N-METHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NMFOSA)	2.42	U	Modified EPA Method 537
BPS1-TT-MW308D-20180430	PENTADECALUOROOCTANOIC ACID (PFOA)	16.1	J+	Modified EPA Method 537
BPS1-TT-MW308D-20180430	PERFLUOROBUTANESULFONIC ACID (PFBS)	2.42	UJ	Modified EPA Method 537
BPS1-TT-MW308D-20180430	PERFLUROBUTANOIC ACID (PFBA)	21.3	J+	Modified EPA Method 537
BPS1-TT-MW308D-20180430	PERFLURODECANESULFONIC ACID (PFDS)	2.42	U	Modified EPA Method 537
BPS1-TT-MW308D-20180430	PERFLURODECANOIC ACID (PFDA)	3.91	J+	Modified EPA Method 537
BPS1-TT-MW308D-20180430	PERFLURODODECANOIC ACID (PFDOA)	2.42	U	Modified EPA Method 537
BPS1-TT-MW308D-20180430	PERFLUROHEPTANESULFONIC ACID (PFHPS)	2.42	U	Modified EPA Method 537
BPS1-TT-MW308D-20180430	PERFLUROHEPTANOIC ACID (PFHPA)	15.2		Modified EPA Method 537
BPS1-TT-MW308D-20180430	PERFLUROHEXANESULFONIC ACID (PFHXS)	3.54	J	Modified EPA Method 537
BPS1-TT-MW308D-20180430	PERFLUROHEXANOIC ACID (PFHXA)	2.42	U	Modified EPA Method 537
BPS1-TT-MW308D-20180430	PERFLURONONANOIC ACID (PFNA)	4.34	J+	Modified EPA Method 537
BPS1-TT-MW308D-20180430	PERFLUOROOCTANE SULFONAMIDE (FOSA)	2.42	U	Modified EPA Method 537
BPS1-TT-MW308D-20180430	PERFLUOROOCTANESULFONIC ACID (PFOS)	11.1		Modified EPA Method 537
BPS1-TT-MW308D-20180430	PERFLUROPENTANOIC ACID (PFPEA)	20		Modified EPA Method 537
BPS1-TT-MW308D-20180430	PERFLUROTETRADECANOIC ACID (PFTEA)	2.42	U	Modified EPA Method 537
BPS1-TT-MW308D-20180430	PERFLUROTRIDECANOIC ACID (PFTRIA)	2.42	U	Modified EPA Method 537
BPS1-TT-MW308D-20180430	PERFLUROUNDECANOIC ACID (PFUNA)	2.42	U	Modified EPA Method 537
BPS1-TT-MW309S-20180425	6:2 FLUOROTELOMER SULFONATE (6:2FTS)	1.77	J	Modified EPA Method 537
BPS1-TT-MW309S-20180425	8:2 FLUOROTELOMER SULFONATE (8:2FTS)	2.5	U	Modified EPA Method 537
BPS1-TT-MW309S-20180425	N-ETHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NEFOSA)	2.5	U	Modified EPA Method 537
BPS1-TT-MW309S-20180425	N-METHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NMFOSA)	2.5	U	Modified EPA Method 537
BPS1-TT-MW309S-20180425	PENTADECALUOROOCTANOIC ACID (PFOA)	53.2		Modified EPA Method 537
BPS1-TT-MW309S-20180425	PERFLUROBUTANESULFONIC ACID (PFBS)	1.55	J	Modified EPA Method 537
BPS1-TT-MW309S-20180425	PERFLUROBUTANOIC ACID (PFBA)	35.6		Modified EPA Method 537
BPS1-TT-MW309S-20180425	PERFLURODECANESULFONIC ACID (PFDS)	2.5	U	Modified EPA Method 537
BPS1-TT-MW309S-20180425	PERFLURODECANOIC ACID (PFDA)	2.17	J	Modified EPA Method 537
BPS1-TT-MW309S-20180425	PERFLURODODECANOIC ACID (PFDOA)	2.5	U	Modified EPA Method 537
BPS1-TT-MW309S-20180425	PERFLUROHEPTANESULFONIC ACID (PFHPS)	2.5	U	Modified EPA Method 537
BPS1-TT-MW309S-20180425	PERFLUROHEPTANOIC ACID (PFHPA)	97.8		Modified EPA Method 537
BPS1-TT-MW309S-20180425	PERFLUROHEXANESULFONIC ACID (PFHXS)	2.42	J	Modified EPA Method 537
BPS1-TT-MW309S-20180425	PERFLUROHEXANOIC ACID (PFHXA)	83.1		Modified EPA Method 537
BPS1-TT-MW309S-20180425	PERFLURONONANOIC ACID (PFNA)	1.53	J	Modified EPA Method 537
BPS1-TT-MW309S-20180425	PERFLUROOCTANE SULFONAMIDE (FOSA)	2.5	U	Modified EPA Method 537
BPS1-TT-MW309S-20180425	PERFLUROOCTANESULFONIC ACID (PFOS)	9.34		Modified EPA Method 537
BPS1-TT-MW309S-20180425	PERFLUROPENTANOIC ACID (PFPEA)	126		Modified EPA Method 537
BPS1-TT-MW309S-20180425	PERFLUROTETRADECANOIC ACID (PFTEA)	2.5	U	Modified EPA Method 537
BPS1-TT-MW309S-20180425	PERFLUROTRIDECANOIC ACID (PFTRIA)	2.5	U	Modified EPA Method 537
BPS1-TT-MW309S-20180425	PERFLUROUNDECANOIC ACID (PFUNA)	2.5	U	Modified EPA Method 537

TABLE 5
SURFACE WATER AND GROUNDWATER PFAS DATA
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Sample ID	Analyte	Result (ng/L)	Final Qualifier	Method
BPS1-TT-MW309S-20180425-D (Dup)	6:2 FLUOROTELOMER SULFONATE (6:2FTS)	1.98	J	Modified EPA Method 537
BPS1-TT-MW309S-20180425-D (Dup)	8:2 FLUOROTELOMER SULFONATE (8:2FTS)	2.59	U	Modified EPA Method 537
BPS1-TT-MW309S-20180425-D (Dup)	N-ETHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NEFOSA)	2.59	U	Modified EPA Method 537
BPS1-TT-MW309S-20180425-D (Dup)	N-METHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NMFOSA)	2.59	U	Modified EPA Method 537
BPS1-TT-MW309S-20180425-D (Dup)	PENTADECALUOROOCTANOIC ACID (PFOA)	49.3		Modified EPA Method 537
BPS1-TT-MW309S-20180425-D (Dup)	PERFLUOROBUTANESULFONIC ACID (PFBS)	1.76	J	Modified EPA Method 537
BPS1-TT-MW309S-20180425-D (Dup)	PERFLUOROBUTANOIC ACID (PFBA)	39.4		Modified EPA Method 537
BPS1-TT-MW309S-20180425-D (Dup)	PERFLUORODECANESULFONIC ACID (PFDS)	2.59	U	Modified EPA Method 537
BPS1-TT-MW309S-20180425-D (Dup)	PERFLUORODECANOIC ACID (PFDA)	2.62	J	Modified EPA Method 537
BPS1-TT-MW309S-20180425-D (Dup)	PERFLUORODODECANOIC ACID (PFDOA)	2.59	U	Modified EPA Method 537
BPS1-TT-MW309S-20180425-D (Dup)	PERFLUOROHEPTANESULFONIC ACID (PFHPS)	2.59	U	Modified EPA Method 537
BPS1-TT-MW309S-20180425-D (Dup)	PERFLUOROHEPTANOIC ACID (PFHPA)	92.3		Modified EPA Method 537
BPS1-TT-MW309S-20180425-D (Dup)	PERFLUOROHEXANESULFONIC ACID (PFHXS)	2.38	J	Modified EPA Method 537
BPS1-TT-MW309S-20180425-D (Dup)	PERFLUOROHEXANOIC ACID (PFHXA)	87.2		Modified EPA Method 537
BPS1-TT-MW309S-20180425-D (Dup)	PERFLUORONONANOIC ACID (PFNA)	1.74	J	Modified EPA Method 537
BPS1-TT-MW309S-20180425-D (Dup)	PERFLUOROOCTANE SULFONAMIDE (FOSA)	2.59	U	Modified EPA Method 537
BPS1-TT-MW309S-20180425-D (Dup)	PERFLUOROOCTANESULFONIC ACID (PFOS)	8.54		Modified EPA Method 537
BPS1-TT-MW309S-20180425-D (Dup)	PERFLUOROPENTANOIC ACID (PFPEA)	136		Modified EPA Method 537
BPS1-TT-MW309S-20180425-D (Dup)	PERFLUOROTETRADECANOIC ACID (PFTEA)	2.59	U	Modified EPA Method 537
BPS1-TT-MW309S-20180425-D (Dup)	PERFLUOROTRIDECANOIC ACID (PFTRIA)	2.59	U	Modified EPA Method 537
BPS1-TT-MW309S-20180425-D (Dup)	PERFLUOROUNDECANOIC ACID (PFUNA)	2.59	U	Modified EPA Method 537
BPS1-TT-MW309I-20180426	6:2 FLUOROTELOMER SULFONATE (6:2FTS)	2.54	U	Modified EPA Method 537
BPS1-TT-MW309I-20180426	8:2 FLUOROTELOMER SULFONATE (8:2FTS)	2.54	U	Modified EPA Method 537
BPS1-TT-MW309I-20180426	N-ETHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NEFOSA)	2.54	U	Modified EPA Method 537
BPS1-TT-MW309I-20180426	N-METHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NMFOSA)	2.54	U	Modified EPA Method 537
BPS1-TT-MW309I-20180426	PENTADECALUOROOCTANOIC ACID (PFOA)	16.2		Modified EPA Method 537
BPS1-TT-MW309I-20180426	PERFLUOROBUTANESULFONIC ACID (PFBS)	2.54	U	Modified EPA Method 537
BPS1-TT-MW309I-20180426	PERFLUOROBUTANOIC ACID (PFBA)	16.1		Modified EPA Method 537
BPS1-TT-MW309I-20180426	PERFLUORODECANESULFONIC ACID (PFDS)	2.54	U	Modified EPA Method 537
BPS1-TT-MW309I-20180426	PERFLUORODECANOIC ACID (PFDA)	2.05	J	Modified EPA Method 537
BPS1-TT-MW309I-20180426	PERFLUORODODECANOIC ACID (PFDOA)	2.54	U	Modified EPA Method 537
BPS1-TT-MW309I-20180426	PERFLUOROHEPTANESULFONIC ACID (PFHPS)	2.54	U	Modified EPA Method 537
BPS1-TT-MW309I-20180426	PERFLUOROHEPTANOIC ACID (PFHPA)	18.8		Modified EPA Method 537
BPS1-TT-MW309I-20180426	PERFLUOROHEXANESULFONIC ACID (PFHXS)	2.45	J	Modified EPA Method 537
BPS1-TT-MW309I-20180426	PERFLUOROHEXANOIC ACID (PFHXA)	32		Modified EPA Method 537
BPS1-TT-MW309I-20180426	PERFLUORONONANOIC ACID (PFNA)	9.22		Modified EPA Method 537
BPS1-TT-MW309I-20180426	PERFLUOROOCTANE SULFONAMIDE (FOSA)	2.54	U	Modified EPA Method 537
BPS1-TT-MW309I-20180426	PERFLUOROOCTANESULFONIC ACID (PFOS)	12.2		Modified EPA Method 537
BPS1-TT-MW309I-20180426	PERFLUOROPENTANOIC ACID (PFPEA)	46.7		Modified EPA Method 537
BPS1-TT-MW309I-20180426	PERFLUOROTETRADECANOIC ACID (PFTEA)	2.54	U	Modified EPA Method 537
BPS1-TT-MW309I-20180426	PERFLUOROTRIDECANOIC ACID (PFTRIA)	2.54	U	Modified EPA Method 537
BPS1-TT-MW309I-20180426	PERFLUOROUNDECANOIC ACID (PFUNA)	2.54	U	Modified EPA Method 537
BPS1-TT-MW309D-20180429	6:2 FLUOROTELOMER SULFONATE (6:2FTS)	2.43	U	Modified EPA Method 537
BPS1-TT-MW309D-20180429	8:2 FLUOROTELOMER SULFONATE (8:2FTS)	2.43	U	Modified EPA Method 537
BPS1-TT-MW309D-20180429	N-ETHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NEFOSA)	2.43	U	Modified EPA Method 537
BPS1-TT-MW309D-20180429	N-METHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NMFOSA)	2.43	U	Modified EPA Method 537
BPS1-TT-MW309D-20180429	PENTADECALUOROOCTANOIC ACID (PFOA)	11		Modified EPA Method 537
BPS1-TT-MW309D-20180429	PERFLUOROBUTANESULFONIC ACID (PFBS)	2.43	U	Modified EPA Method 537
BPS1-TT-MW309D-20180429	PERFLUOROBUTANOIC ACID (PFBA)	8.75		Modified EPA Method 537
BPS1-TT-MW309D-20180429	PERFLUORODECANESULFONIC ACID (PFDS)	2.43	U	Modified EPA Method 537
BPS1-TT-MW309D-20180429	PERFLUORODECANOIC ACID (PFDA)	3.39	J	Modified EPA Method 537
BPS1-TT-MW309D-20180429	PERFLUORODODECANOIC ACID (PFDOA)	2.43	U	Modified EPA Method 537
BPS1-TT-MW309D-20180429	PERFLUOROHEPTANESULFONIC ACID (PFHPS)	2.43	U	Modified EPA Method 537
BPS1-TT-MW309D-20180429	PERFLUOROHEPTANOIC ACID (PFHPA)	6.42		Modified EPA Method 537
BPS1-TT-MW309D-20180429	PERFLUOROHEXANESULFONIC ACID (PFHXS)	2.31	J	Modified EPA Method 537
BPS1-TT-MW309D-20180429	PERFLUOROHEXANOIC ACID (PFHXA)	8.92		Modified EPA Method 537
BPS1-TT-MW309D-20180429	PERFLUORONONANOIC ACID (PFNA)	5.22		Modified EPA Method 537
BPS1-TT-MW309D-20180429	PERFLUOROOCTANE SULFONAMIDE (FOSA)	2.43	U	Modified EPA Method 537
BPS1-TT-MW309D-20180429	PERFLUOROOCTANESULFONIC ACID (PFOS)	16.1		Modified EPA Method 537
BPS1-TT-MW309D-20180429	PERFLUOROPENTANOIC ACID (PFPEA)	8.24		Modified EPA Method 537
BPS1-TT-MW309D-20180429	PERFLUOROTETRADECANOIC ACID (PFTEA)	2.43	U	Modified EPA Method 537
BPS1-TT-MW309D-20180429	PERFLUOROTRIDECANOIC ACID (PFTRIA)	2.43	U	Modified EPA Method 537
BPS1-TT-MW309D-20180429	PERFLUOROUNDECANOIC ACID (PFUNA)	2.43	U	Modified EPA Method 537
BPS1-TT-MW310S-20180430	6:2 FLUOROTELOMER SULFONATE (6:2FTS)	2.39	U	Modified EPA Method 537
BPS1-TT-MW310S-20180430	8:2 FLUOROTELOMER SULFONATE (8:2FTS)	2.39	U	Modified EPA Method 537
BPS1-TT-MW310S-20180430	N-ETHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NEFOSA)	2.39	U	Modified EPA Method 537
BPS1-TT-MW310S-20180430	N-METHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NMFOSA)	2.39	U	Modified EPA Method 537
BPS1-TT-MW310S-20180430	PENTADECALUOROOCTANOIC ACID (PFOA)	30.1	J+	Modified EPA Method 537
BPS1-TT-MW310S-20180430	PERFLUOROBUTANESULFONIC ACID (PFBS)	1.9	J	Modified EPA Method 537
BPS1-TT-MW310S-20180430	PERFLUOROBUTANOIC ACID (PFBA)	10.8	J+	Modified EPA Method 537

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Sample ID	Analyte	Result (ng/L)	Final Qualifier	Method
BPS1-TT-MW310S-20180430	PERFLUORODECANESULFONIC ACID (PFDS)	2.39	U	Modified EPA Method 537
BPS1-TT-MW310S-20180430	PERFLUORODECANOIC ACID (PFDA)	2.39	U	Modified EPA Method 537
BPS1-TT-MW310S-20180430	PERFLUORODODECANOIC ACID (PFDOA)	2.39	U	Modified EPA Method 537
BPS1-TT-MW310S-20180430	PERFLUOROHEPTANESULFONIC ACID (PFHPS)	2.39	U	Modified EPA Method 537
BPS1-TT-MW310S-20180430	PERFLUOROHEPTANOIC ACID (PFHPA)	14.6		Modified EPA Method 537
BPS1-TT-MW310S-20180430	PERFLUOROHEXANESULFONIC ACID (PFHXS)	2.28	J	Modified EPA Method 537
BPS1-TT-MW310S-20180430	PERFLUOROHEXANOIC ACID (PFHXA)	10.8	J+	Modified EPA Method 537
BPS1-TT-MW310S-20180430	PERFLUORONONANOIC ACID (PFNA)	6.84	J+	Modified EPA Method 537
BPS1-TT-MW310S-20180430	PERFLUOROOCTANE SULFONAMIDE (FOSA)	2.39	U	Modified EPA Method 537
BPS1-TT-MW310S-20180430	PERFLUOROOCTANESULFONIC ACID (PFOS)	15.3		Modified EPA Method 537
BPS1-TT-MW310S-20180430	PERFLUOROPENTANOIC ACID (PFPEA)	7.86		Modified EPA Method 537
BPS1-TT-MW310S-20180430	PERFLUOROTETRADECANOIC ACID (PFTEA)	2.39	U	Modified EPA Method 537
BPS1-TT-MW310S-20180430	PERFLUOROTRIDECANOIC ACID (PFTRIA)	2.39	U	Modified EPA Method 537
BPS1-TT-MW310S-20180430	PERFLUOROUNDECANOIC ACID (PFUNA)	2.39	U	Modified EPA Method 537
BPS1-TT-MW311S-20180429	6:2 FLUOROTELOMER SULFONATE (6:2FTS)	2.42	U	Modified EPA Method 537
BPS1-TT-MW311S-20180429	8:2 FLUOROTELOMER SULFONATE (8:2FTS)	2.42	U	Modified EPA Method 537
BPS1-TT-MW311S-20180429	N-ETHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NEFOSA)	2.42	U	Modified EPA Method 537
BPS1-TT-MW311S-20180429	N-METHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NMFOSA)	2.42	U	Modified EPA Method 537
BPS1-TT-MW311S-20180429	PENTADECALUOROOCTANOIC ACID (PFOA)	10.9		Modified EPA Method 537
BPS1-TT-MW311S-20180429	PERFLUOROBUTANESULFONIC ACID (PFBS)	2.42	U	Modified EPA Method 537
BPS1-TT-MW311S-20180429	PERFLUOROBUTANOIC ACID (PFBA)	12.8		Modified EPA Method 537
BPS1-TT-MW311S-20180429	PERFLUORODECANESULFONIC ACID (PFDS)	2.42	U	Modified EPA Method 537
BPS1-TT-MW311S-20180429	PERFLUORODECANOIC ACID (PFDA)	2.42	U	Modified EPA Method 537
BPS1-TT-MW311S-20180429	PERFLUORODODECANOIC ACID (PFDOA)	2.42	U	Modified EPA Method 537
BPS1-TT-MW311S-20180429	PERFLUOROHEPTANESULFONIC ACID (PFHPS)	2.42	U	Modified EPA Method 537
BPS1-TT-MW311S-20180429	PERFLUOROHEPTANOIC ACID (PFHPA)	12.2		Modified EPA Method 537
BPS1-TT-MW311S-20180429	PERFLUOROHEXANESULFONIC ACID (PFHXS)	2.42	U	Modified EPA Method 537
BPS1-TT-MW311S-20180429	PERFLUOROHEXANOIC ACID (PFHXA)	17.2		Modified EPA Method 537
BPS1-TT-MW311S-20180429	PERFLUORONONANOIC ACID (PFNA)	2.42	U	Modified EPA Method 537
BPS1-TT-MW311S-20180429	PERFLUOROOCTANE SULFONAMIDE (FOSA)	2.42	U	Modified EPA Method 537
BPS1-TT-MW311S-20180429	PERFLUOROOCTANESULFONIC ACID (PFOS)	3.87		Modified EPA Method 537
BPS1-TT-MW311S-20180429	PERFLUOROPENTANOIC ACID (PFPEA)	16.8		Modified EPA Method 537
BPS1-TT-MW311S-20180429	PERFLUOROTETRADECANOIC ACID (PFTEA)	2.42	U	Modified EPA Method 537
BPS1-TT-MW311S-20180429	PERFLUOROTRIDECANOIC ACID (PFTRIA)	2.42	U	Modified EPA Method 537
BPS1-TT-MW311S-20180429	PERFLUOROUNDECANOIC ACID (PFUNA)	2.42	U	Modified EPA Method 537
BPS1-TT-MW312S-20180429	6:2 FLUOROTELOMER SULFONATE (6:2FTS)	2.45	U	Modified EPA Method 537
BPS1-TT-MW312S-20180429	8:2 FLUOROTELOMER SULFONATE (8:2FTS)	2.45	U	Modified EPA Method 537
BPS1-TT-MW312S-20180429	N-ETHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NEFOSA)	2.45	U	Modified EPA Method 537
BPS1-TT-MW312S-20180429	N-METHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NMFOSA)	2.45	U	Modified EPA Method 537
BPS1-TT-MW312S-20180429	PENTADECALUOROOCTANOIC ACID (PFOA)	26	J+	Modified EPA Method 537
BPS1-TT-MW312S-20180429	PERFLUOROBUTANESULFONIC ACID (PFBS)	2.45	U	Modified EPA Method 537
BPS1-TT-MW312S-20180429	PERFLUOROBUTANOIC ACID (PFBA)	14.5	J+	Modified EPA Method 537
BPS1-TT-MW312S-20180429	PERFLUORODECANESULFONIC ACID (PFDS)	2.45	U	Modified EPA Method 537
BPS1-TT-MW312S-20180429	PERFLUORODECANOIC ACID (PFDA)	2.45	UJ	Modified EPA Method 537
BPS1-TT-MW312S-20180429	PERFLUORODODECANOIC ACID (PFDOA)	2.45	U	Modified EPA Method 537
BPS1-TT-MW312S-20180429	PERFLUOROHEPTANESULFONIC ACID (PFHPS)	2.45	U	Modified EPA Method 537
BPS1-TT-MW312S-20180429	PERFLUOROHEPTANOIC ACID (PFHPA)	11.5		Modified EPA Method 537
BPS1-TT-MW312S-20180429	PERFLUOROHEXANESULFONIC ACID (PFHXS)	1.74	J	Modified EPA Method 537
BPS1-TT-MW312S-20180429	PERFLUOROHEXANOIC ACID (PFHXA)	21	J+	Modified EPA Method 537
BPS1-TT-MW312S-20180429	PERFLUORONONANOIC ACID (PFNA)	8.48		Modified EPA Method 537
BPS1-TT-MW312S-20180429	PERFLUOROOCTANE SULFONAMIDE (FOSA)	2.45	U	Modified EPA Method 537
BPS1-TT-MW312S-20180429	PERFLUOROOCTANESULFONIC ACID (PFOS)	3.72	J+	Modified EPA Method 537
BPS1-TT-MW312S-20180429	PERFLUOROPENTANOIC ACID (PFPEA)	39.8		Modified EPA Method 537
BPS1-TT-MW312S-20180429	PERFLUOROTETRADECANOIC ACID (PFTEA)	2.45	U	Modified EPA Method 537
BPS1-TT-MW312S-20180429	PERFLUOROTRIDECANOIC ACID (PFTRIA)	2.45	U	Modified EPA Method 537
BPS1-TT-MW312S-20180429	PERFLUOROUNDECANOIC ACID (PFUNA)	2.45	U	Modified EPA Method 537
BPS1-TT-MW312S-20180429-D (Dup)	6:2 FLUOROTELOMER SULFONATE (6:2FTS)	2.41	U	Modified EPA Method 537
BPS1-TT-MW312S-20180429-D (Dup)	8:2 FLUOROTELOMER SULFONATE (8:2FTS)	2.41	U	Modified EPA Method 537
BPS1-TT-MW312S-20180429-D (Dup)	N-ETHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NEFOSA)	2.41	U	Modified EPA Method 537
BPS1-TT-MW312S-20180429-D (Dup)	N-METHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NMFOSA)	2.41	U	Modified EPA Method 537
BPS1-TT-MW312S-20180429-D (Dup)	PENTADECALUOROOCTANOIC ACID (PFOA)	11.6	J+	Modified EPA Method 537
BPS1-TT-MW312S-20180429-D (Dup)	PERFLUOROBUTANESULFONIC ACID (PFBS)	2.41	U	Modified EPA Method 537
BPS1-TT-MW312S-20180429-D (Dup)	PERFLUOROBUTANOIC ACID (PFBA)	12.3		Modified EPA Method 537
BPS1-TT-MW312S-20180429-D (Dup)	PERFLUORODECANESULFONIC ACID (PFDS)	2.41	U	Modified EPA Method 537
BPS1-TT-MW312S-20180429-D (Dup)	PERFLUORODECANOIC ACID (PFDA)	2.41	U	Modified EPA Method 537
BPS1-TT-MW312S-20180429-D (Dup)	PERFLUORODODECANOIC ACID (PFDOA)	2.41	U	Modified EPA Method 537
BPS1-TT-MW312S-20180429-D (Dup)	PERFLUOROHEPTANESULFONIC ACID (PFHPS)	2.41	U	Modified EPA Method 537
BPS1-TT-MW312S-20180429-D (Dup)	PERFLUOROHEPTANOIC ACID (PFHPA)	12.3		Modified EPA Method 537
BPS1-TT-MW312S-20180429-D (Dup)	PERFLUOROHEXANESULFONIC ACID (PFHXS)	2.41	U	Modified EPA Method 537
BPS1-TT-MW312S-20180429-D (Dup)	PERFLUOROHEXANOIC ACID (PFHXA)	16.7		Modified EPA Method 537

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Sample ID	Analyte	Result (ng/L)	Final Qualifier	Method
BPS1-TT-MW312S-20180429-D (Dup)	PERFLUORONONANOIC ACID (PFNA)	2.41	U	Modified EPA Method 537
BPS1-TT-MW312S-20180429-D (Dup)	PERFLUOROOCTANE SULFONAMIDE (FOSA)	2.41	U	Modified EPA Method 537
BPS1-TT-MW312S-20180429-D (Dup)	PERFLUOROOCTANESULFONIC ACID (PFOS)	1.33	J	Modified EPA Method 537
BPS1-TT-MW312S-20180429-D (Dup)	PERFLUOROPENTANOIC ACID (PFPEA)	15.9		Modified EPA Method 537
BPS1-TT-MW312S-20180429-D (Dup)	PERFLUOROTETRADECANOIC ACID (PFTEA)	2.41	U	Modified EPA Method 537
BPS1-TT-MW312S-20180429-D (Dup)	PERFLUOROTRIDECANOIC ACID (PFTRIA)	2.41	U	Modified EPA Method 537
BPS1-TT-MW312S-20180429-D (Dup)	PERFLUOROUNDECANOIC ACID (PFUNA)	2.41	U	Modified EPA Method 537
BPS1-TT-MW313S-20180425	6:2 FLUOROTELOMER SULFONATE (6:2FTS)	2.44	U	Modified EPA Method 537
BPS1-TT-MW313S-20180425	8:2 FLUOROTELOMER SULFONATE (8:2FTS)	2.44	U	Modified EPA Method 537
BPS1-TT-MW313S-20180425	N-ETHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NEFOSA)	2.44	U	Modified EPA Method 537
BPS1-TT-MW313S-20180425	N-METHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NMFOSA)	2.44	U	Modified EPA Method 537
BPS1-TT-MW313S-20180425	PENTADECALUOROOCTANOIC ACID (PFOA)	3.63	J	Modified EPA Method 537
BPS1-TT-MW313S-20180425	PERFLUOROBUTANESULFONIC ACID (PFBS)	2.44	U	Modified EPA Method 537
BPS1-TT-MW313S-20180425	PERFLUOROBUTANOIC ACID (PFBA)	6.77		Modified EPA Method 537
BPS1-TT-MW313S-20180425	PERFLUORODECANESULFONIC ACID (PFDS)	2.44	U	Modified EPA Method 537
BPS1-TT-MW313S-20180425	PERFLUORODECANOIC ACID (PFDA)	2.44	U	Modified EPA Method 537
BPS1-TT-MW313S-20180425	PERFLUORODODECANOIC ACID (PFDOA)	2.44	U	Modified EPA Method 537
BPS1-TT-MW313S-20180425	PERFLUOROHEPTANESULFONIC ACID (PFHPS)	2.44	U	Modified EPA Method 537
BPS1-TT-MW313S-20180425	PERFLUROHEPTANOIC ACID (PFHPA)	2.72	J	Modified EPA Method 537
BPS1-TT-MW313S-20180425	PERFLUROHEXANESULFONIC ACID (PFHXS)	2.44	U	Modified EPA Method 537
BPS1-TT-MW313S-20180425	PERFLUROHEXANOIC ACID (PFHXA)	6.58		Modified EPA Method 537
BPS1-TT-MW313S-20180425	PERFLURONONANOIC ACID (PFNA)	3.61	J	Modified EPA Method 537
BPS1-TT-MW313S-20180425	PERFLUOROOCTANE SULFONAMIDE (FOSA)	2.44	U	Modified EPA Method 537
BPS1-TT-MW313S-20180425	PERFLUOROOCTANESULFONIC ACID (PFOS)	6.97		Modified EPA Method 537
BPS1-TT-MW313S-20180425	PERFLUOROPENTANOIC ACID (PFPEA)	10.2		Modified EPA Method 537
BPS1-TT-MW313S-20180425	PERFLUOROTETRADECANOIC ACID (PFTEA)	2.44	U	Modified EPA Method 537
BPS1-TT-MW313S-20180425	PERFLUOROTRIDECANOIC ACID (PFTRIA)	2.44	U	Modified EPA Method 537
BPS1-TT-MW313S-20180425	PERFLUOROUNDECANOIC ACID (PFUNA)	2.44	U	Modified EPA Method 537
BPS1-TT-MW314S-20180430	6:2 FLUOROTELOMER SULFONATE (6:2FTS)	6.45		Modified EPA Method 537
BPS1-TT-MW314S-20180430	8:2 FLUOROTELOMER SULFONATE (8:2FTS)	2.45	U	Modified EPA Method 537
BPS1-TT-MW314S-20180430	N-ETHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NEFOSA)	2.45	U	Modified EPA Method 537
BPS1-TT-MW314S-20180430	N-METHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NMFOSA)	2.45	U	Modified EPA Method 537
BPS1-TT-MW314S-20180430	PENTADECALUOROOCTANOIC ACID (PFOA)	7.94		Modified EPA Method 537
BPS1-TT-MW314S-20180430	PERFLUOROBUTANESULFONIC ACID (PFBS)	2.45	U	Modified EPA Method 537
BPS1-TT-MW314S-20180430	PERFLUOROBUTANOIC ACID (PFBA)	7.6	J+	Modified EPA Method 537
BPS1-TT-MW314S-20180430	PERFLUORODECANESULFONIC ACID (PFDS)	2.45	U	Modified EPA Method 537
BPS1-TT-MW314S-20180430	PERFLUORODECANOIC ACID (PFDA)	2.45	U	Modified EPA Method 537
BPS1-TT-MW314S-20180430	PERFLUORODODECANOIC ACID (PFDOA)	2.45	U	Modified EPA Method 537
BPS1-TT-MW314S-20180430	PERFLUROHEPTANESULFONIC ACID (PFHPS)	2.45	U	Modified EPA Method 537
BPS1-TT-MW314S-20180430	PERFLUROHEPTANOIC ACID (PFHPA)	13.7		Modified EPA Method 537
BPS1-TT-MW314S-20180430	PERFLUROHEXANESULFONIC ACID (PFHXS)	2.45	U	Modified EPA Method 537
BPS1-TT-MW314S-20180430	PERFLUROHEXANOIC ACID (PFHXA)	16.3	J+	Modified EPA Method 537
BPS1-TT-MW314S-20180430	PERFLURONONANOIC ACID (PFNA)	1.68	J	Modified EPA Method 537
BPS1-TT-MW314S-20180430	PERFLUOROOCTANE SULFONAMIDE (FOSA)	2.45	U	Modified EPA Method 537
BPS1-TT-MW314S-20180430	PERFLUOROOCTANESULFONIC ACID (PFOS)	3.28	J	Modified EPA Method 537
BPS1-TT-MW314S-20180430	PERFLUOROPENTANOIC ACID (PFPEA)	16.6		Modified EPA Method 537
BPS1-TT-MW314S-20180430	PERFLUOROTETRADECANOIC ACID (PFTEA)	2.45	U	Modified EPA Method 537
BPS1-TT-MW314S-20180430	PERFLUOROTRIDECANOIC ACID (PFTRIA)	2.45	U	Modified EPA Method 537
BPS1-TT-MW314S-20180430	PERFLUOROUNDECANOIC ACID (PFUNA)	2.45	U	Modified EPA Method 537
BPS1-TT-MW314I-20180430	6:2 FLUOROTELOMER SULFONATE (6:2FTS)	2.42	U	Modified EPA Method 537
BPS1-TT-MW314I-20180430	8:2 FLUOROTELOMER SULFONATE (8:2FTS)	2.42	U	Modified EPA Method 537
BPS1-TT-MW314I-20180430	N-ETHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NEFOSA)	2.42	U	Modified EPA Method 537
BPS1-TT-MW314I-20180430	N-METHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NMFOSA)	2.42	U	Modified EPA Method 537
BPS1-TT-MW314I-20180430	PENTADECALUOROOCTANOIC ACID (PFOA)	16.8	J+	Modified EPA Method 537
BPS1-TT-MW314I-20180430	PERFLUOROBUTANESULFONIC ACID (PFBS)	1.63	J-	Modified EPA Method 537
BPS1-TT-MW314I-20180430	PERFLUOROBUTANOIC ACID (PFBA)	16.7	J+	Modified EPA Method 537
BPS1-TT-MW314I-20180430	PERFLURODECANESULFONIC ACID (PFDS)	1.52	J	Modified EPA Method 537
BPS1-TT-MW314I-20180430	PERFLURODECANOIC ACID (PFDA)	2.81	J+	Modified EPA Method 537
BPS1-TT-MW314I-20180430	PERFLURODODECANOIC ACID (PFDOA)	2.42	U	Modified EPA Method 537
BPS1-TT-MW314I-20180430	PERFLUROHEPTANESULFONIC ACID (PFHPS)	2.42	U	Modified EPA Method 537
BPS1-TT-MW314I-20180430	PERFLUROHEPTANOIC ACID (PFHPA)	21.5		Modified EPA Method 537
BPS1-TT-MW314I-20180430	PERFLUROHEXANESULFONIC ACID (PFHXS)	3.76	J	Modified EPA Method 537
BPS1-TT-MW314I-20180430	PERFLUROHEXANOIC ACID (PFHXA)	35	J+	Modified EPA Method 537
BPS1-TT-MW314I-20180430	PERFLURONONANOIC ACID (PFNA)	10	J+	Modified EPA Method 537
BPS1-TT-MW314I-20180430	PERFLUOROOCTANE SULFONAMIDE (FOSA)	2.42	U	Modified EPA Method 537
BPS1-TT-MW314I-20180430	PERFLUOROOCTANESULFONIC ACID (PFOS)	12.5		Modified EPA Method 537
BPS1-TT-MW314I-20180430	PERFLUOROPENTANOIC ACID (PFPEA)	50.6		Modified EPA Method 537
BPS1-TT-MW314I-20180430	PERFLUOROTETRADECANOIC ACID (PFTEA)	2.42	U	Modified EPA Method 537
BPS1-TT-MW314I-20180430	PERFLUOROTRIDECANOIC ACID (PFTRIA)	2.42	U	Modified EPA Method 537
BPS1-TT-MW314I-20180430	PERFLUOROUNDECANOIC ACID (PFUNA)	2.14	J+	Modified EPA Method 537

TABLE 5
SURFACE WATER AND GROUNDWATER PFAS DATA
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Sample ID	Analyte	Result (ng/L)	Final Qualifier	Method
BP-MH-SW4001-SOUTH-20180427	6:2 FLUOROTELOMER SULFONATE (6:2FTS)	14.4		Modified EPA Method 537
BP-MH-SW4001-SOUTH-20180427	8:2 FLUOROTELOMER SULFONATE (8:2FTS)	6.67		Modified EPA Method 537
BP-MH-SW4001-SOUTH-20180427	N-ETHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NEFOSA)	2.43	U	Modified EPA Method 537
BP-MH-SW4001-SOUTH-20180427	N-METHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NMFOSA)	2.43	U	Modified EPA Method 537
BP-MH-SW4001-SOUTH-20180427	PENTADECALUOROOCTANOIC ACID (PFOA)	20.7	J+	Modified EPA Method 537
BP-MH-SW4001-SOUTH-20180427	PERFLUOROBUTANESULFONIC ACID (PFBS)	2.18	J	Modified EPA Method 537
BP-MH-SW4001-SOUTH-20180427	PERFLUOROBUTANOIC ACID (PFBA)	17.3		Modified EPA Method 537
BP-MH-SW4001-SOUTH-20180427	PERFLUORODECANESULFONIC ACID (PFDS)	2.43	U	Modified EPA Method 537
BP-MH-SW4001-SOUTH-20180427	PERFLUORODECANOIC ACID (PFDA)	1.56	J+	Modified EPA Method 537
BP-MH-SW4001-SOUTH-20180427	PERFLUORODODECANOIC ACID (PFDOA)	2.43	U	Modified EPA Method 537
BP-MH-SW4001-SOUTH-20180427	PERFLUOROHEPTANESULFONIC ACID (PFHPS)	2.43	U	Modified EPA Method 537
BP-MH-SW4001-SOUTH-20180427	PERFLUOROHEPTANOIC ACID (PFHPA)	18.1		Modified EPA Method 537
BP-MH-SW4001-SOUTH-20180427	PERFLUOROHEXANESULFONIC ACID (PFHXS)	2.94	J	Modified EPA Method 537
BP-MH-SW4001-SOUTH-20180427	PERFLUOROHEXANOIC ACID (PFHXA)	30		Modified EPA Method 537
BP-MH-SW4001-SOUTH-20180427	PERFLUORONONANOIC ACID (PFNA)	9.66	J+	Modified EPA Method 537
BP-MH-SW4001-SOUTH-20180427	PERFLUOROOCTANE SULFONAMIDE (FOSA)	2.43	U	Modified EPA Method 537
BP-MH-SW4001-SOUTH-20180427	PERFLUOROOCTANESULFONIC ACID (PFOS)	15.6		Modified EPA Method 537
BP-MH-SW4001-SOUTH-20180427	PERFLUOROPENTANOIC ACID (PFPEA)	38.3		Modified EPA Method 537
BP-MH-SW4001-SOUTH-20180427	PERFLUOROTETRADECANOIC ACID (PFTEA)	2.43	U	Modified EPA Method 537
BP-MH-SW4001-SOUTH-20180427	PERFLUOROTRIDECANOIC ACID (PFTRIA)	2.43	U	Modified EPA Method 537
BP-MH-SW4001-SOUTH-20180427	PERFLUOROUNDECANOIC ACID (PFUNA)	2.43	U	Modified EPA Method 537
BP-MH-SW4001-SOUTH-20180501	6:2 FLUOROTELOMER SULFONATE (6:2FTS)	16		Modified EPA Method 537
BP-MH-SW4001-SOUTH-20180501	8:2 FLUOROTELOMER SULFONATE (8:2FTS)	6.07		Modified EPA Method 537
BP-MH-SW4001-SOUTH-20180501	N-ETHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NEFOSA)	2.47	U	Modified EPA Method 537
BP-MH-SW4001-SOUTH-20180501	N-METHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NMFOSA)	2.47	U	Modified EPA Method 537
BP-MH-SW4001-SOUTH-20180501	PENTADECALUOROOCTANOIC ACID (PFOA)	19.5		Modified EPA Method 537
BP-MH-SW4001-SOUTH-20180501	PERFLUOROBUTANESULFONIC ACID (PFBS)	2.01	J	Modified EPA Method 537
BP-MH-SW4001-SOUTH-20180501	PERFLUOROBUTANOIC ACID (PFBA)	17.0		Modified EPA Method 537
BP-MH-SW4001-SOUTH-20180501	PERFLUORODECANESULFONIC ACID (PFDS)	2.47	U	Modified EPA Method 537
BP-MH-SW4001-SOUTH-20180501	PERFLUORODECANOIC ACID (PFDA)	1.50	J	Modified EPA Method 537
BP-MH-SW4001-SOUTH-20180501	PERFLUORODODECANOIC ACID (PFDOA)	2.47	U	Modified EPA Method 537
BP-MH-SW4001-SOUTH-20180501	PERFLUOROHEPTANESULFONIC ACID (PFHPS)	2.47	U	Modified EPA Method 537
BP-MH-SW4001-SOUTH-20180501	PERFLUOROHEPTANOIC ACID (PFHPA)	18.5		Modified EPA Method 537
BP-MH-SW4001-SOUTH-20180501	PERFLUOROHEXANESULFONIC ACID (PFHXS)	4.95		Modified EPA Method 537
BP-MH-SW4001-SOUTH-20180501	PERFLUOROHEXANOIC ACID (PFHXA)	30.2		Modified EPA Method 537
BP-MH-SW4001-SOUTH-20180501	PERFLUORONONANOIC ACID (PFNA)	7.96		Modified EPA Method 537
BP-MH-SW4001-SOUTH-20180501	PERFLUOROOCTANE SULFONAMIDE (FOSA)	2.47	U	Modified EPA Method 537
BP-MH-SW4001-SOUTH-20180501	PERFLUOROOCTANESULFONIC ACID (PFOS)	14.5		Modified EPA Method 537
BP-MH-SW4001-SOUTH-20180501	PERFLUOROPENTANOIC ACID (PFPEA)	39.3		Modified EPA Method 537
BP-MH-SW4001-SOUTH-20180501	PERFLUOROTETRADECANOIC ACID (PFTEA)	2.47	U	Modified EPA Method 537
BP-MH-SW4001-SOUTH-20180501	PERFLUOROTRIDECANOIC ACID (PFTRIA)	2.47	U	Modified EPA Method 537
BP-MH-SW4001-SOUTH-20180501	PERFLUOROUNDECANOIC ACID (PFUNA)	1.65	J	Modified EPA Method 537
BP-MH-SW4001-SOUTH-20180501-D (Dup)	6:2 FLUOROTELOMER SULFONATE (6:2FTS)	15.9		Modified EPA Method 537
BP-MH-SW4001-SOUTH-20180501-D (Dup)	8:2 FLUOROTELOMER SULFONATE (8:2FTS)	7.59		Modified EPA Method 537
BP-MH-SW4001-SOUTH-20180501-D (Dup)	N-ETHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NEFOSA)	2.37	U	Modified EPA Method 537
BP-MH-SW4001-SOUTH-20180501-D (Dup)	N-METHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NMFOSA)	2.37	U	Modified EPA Method 537
BP-MH-SW4001-SOUTH-20180501-D (Dup)	PENTADECALUOROOCTANOIC ACID (PFOA)	20.0		Modified EPA Method 537
BP-MH-SW4001-SOUTH-20180501-D (Dup)	PERFLUOROBUTANESULFONIC ACID (PFBS)	2.22	J	Modified EPA Method 537
BP-MH-SW4001-SOUTH-20180501-D (Dup)	PERFLUOROBUTANOIC ACID (PFBA)	16.4		Modified EPA Method 537
BP-MH-SW4001-SOUTH-20180501-D (Dup)	PERFLUORODECANESULFONIC ACID (PFDS)	2.37	U	Modified EPA Method 537
BP-MH-SW4001-SOUTH-20180501-D (Dup)	PERFLUORODECANOIC ACID (PFDA)	2.37	U	Modified EPA Method 537
BP-MH-SW4001-SOUTH-20180501-D (Dup)	PERFLUORODODECANOIC ACID (PFDOA)	2.37	U	Modified EPA Method 537
BP-MH-SW4001-SOUTH-20180501-D (Dup)	PERFLUOROHEPTANESULFONIC ACID (PFHPS)	2.37	U	Modified EPA Method 537
BP-MH-SW4001-SOUTH-20180501-D (Dup)	PERFLUOROHEPTANOIC ACID (PFHPA)	20.1		Modified EPA Method 537
BP-MH-SW4001-SOUTH-20180501-D (Dup)	PERFLUOROHEXANESULFONIC ACID (PFHXS)	4.81		Modified EPA Method 537
BP-MH-SW4001-SOUTH-20180501-D (Dup)	PERFLUOROHEXANOIC ACID (PFHXA)	29.1		Modified EPA Method 537
BP-MH-SW4001-SOUTH-20180501-D (Dup)	PERFLUORONONANOIC ACID (PFNA)	8.71		Modified EPA Method 537
BP-MH-SW4001-SOUTH-20180501-D (Dup)	PERFLUOROOCTANE SULFONAMIDE (FOSA)	2.37	U	Modified EPA Method 537
BP-MH-SW4001-SOUTH-20180501-D (Dup)	PERFLUOROOCTANESULFONIC ACID (PFOS)	16.1		Modified EPA Method 537
BP-MH-SW4001-SOUTH-20180501-D (Dup)	PERFLUOROPENTANOIC ACID (PFPEA)	37.8		Modified EPA Method 537
BP-MH-SW4001-SOUTH-20180501-D (Dup)	PERFLUOROTETRADECANOIC ACID (PFTEA)	2.37	U	Modified EPA Method 537
BP-MH-SW4001-SOUTH-20180501-D (Dup)	PERFLUOROTRIDECANOIC ACID (PFTRIA)	2.37	U	Modified EPA Method 537
BP-MH-SW4001-SOUTH-20180501-D (Dup)	PERFLUOROUNDECANOIC ACID (PFUNA)	2.03	J	Modified EPA Method 537
BP-TT-SW4002-20180427	6:2 FLUOROTELOMER SULFONATE (6:2FTS)	2.44	J	Modified EPA Method 537
BP-TT-SW4002-20180427	8:2 FLUOROTELOMER SULFONATE (8:2FTS)	2.45	U	Modified EPA Method 537
BP-TT-SW4002-20180427	N-ETHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NEFOSA)	2.45	U	Modified EPA Method 537
BP-TT-SW4002-20180427	N-METHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NMFOSA)	2.45	U	Modified EPA Method 537
BP-TT-SW4002-20180427	PENTADECALUOROOCTANOIC ACID (PFOA)	4.21	J+	Modified EPA Method 537
BP-TT-SW4002-20180427	PERFLUOROBUTANESULFONIC ACID (PFBS)	2.45	U	Modified EPA Method 537
BP-TT-SW4002-20180427	PERFLUOROBUTANOIC ACID (PFBA)	2.45	U	Modified EPA Method 537

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Sample ID	Analyte	Result (ng/L)	Final Qualifier	Method
BP-TT-SW4002-20180427	PERFLUORODECANESULFONIC ACID (PFDS)	2.45	U	Modified EPA Method 537
BP-TT-SW4002-20180427	PERFLUORODECANOIC ACID (PFDA)	1.41	J	Modified EPA Method 537
BP-TT-SW4002-20180427	PERFLUORODODECANOIC ACID (PFDOA)	2.45	U	Modified EPA Method 537
BP-TT-SW4002-20180427	PERFLUOROHEPTANESULFONIC ACID (PFHPS)	2.45	U	Modified EPA Method 537
BP-TT-SW4002-20180427	PERFLUOROHEPTANOIC ACID (PFHPA)	3.84	J	Modified EPA Method 537
BP-TT-SW4002-20180427	PERFLUOROHEXANESULFONIC ACID (PFHXS)	2.45	U	Modified EPA Method 537
BP-TT-SW4002-20180427	PERFLUOROHEXANOIC ACID (PFHXA)	5.96		Modified EPA Method 537
BP-TT-SW4002-20180427	PERFLUORONONANOIC ACID (PFNA)	2.33	J	Modified EPA Method 537
BP-TT-SW4002-20180427	PERFLUOROOCTANE SULFONAMIDE (FOSA)	2.45	U	Modified EPA Method 537
BP-TT-SW4002-20180427	PERFLUOROOCTANESULFONIC ACID (PFOS)	2.45	U	Modified EPA Method 537
BP-TT-SW4002-20180427	PERFLUOROPENTANOIC ACID (PFPEA)	5.08		Modified EPA Method 537
BP-TT-SW4002-20180427	PERFLUOROTETRADECANOIC ACID (PFTEA)	2.45	U	Modified EPA Method 537
BP-TT-SW4002-20180427	PERFLUOROTRIDECANOIC ACID (PFTRIA)	2.45	U	Modified EPA Method 537
BP-TT-SW4002-20180427	PERFLUOROUNDECANOIC ACID (PFUNA)	2.45	U	Modified EPA Method 537
BP-TT-SW4002-20180501	6:2 FLUOROTELOMER SULFONATE (6:2FTS)	16		Modified EPA Method 537
BP-TT-SW4002-20180501	8:2 FLUOROTELOMER SULFONATE (8:2FTS)	8.77		Modified EPA Method 537
BP-TT-SW4002-20180501	N-ETHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NEFOSA)	2.42	U	Modified EPA Method 537
BP-TT-SW4002-20180501	N-METHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NMFOSA)	2.42	U	Modified EPA Method 537
BP-TT-SW4002-20180501	PENTADEC AFLUOROOCTANOIC ACID (PFOA)	21.4		Modified EPA Method 537
BP-TT-SW4002-20180501	PERFLUOROBUTANESULFONIC ACID (PFBS)	2.14	J	Modified EPA Method 537
BP-TT-SW4002-20180501	PERFLUOROBUTANOIC ACID (PFBA)	15.9		Modified EPA Method 537
BP-TT-SW4002-20180501	PERFLUORODECANESULFONIC ACID (PFDS)	2.42	U	Modified EPA Method 537
BP-TT-SW4002-20180501	PERFLUORODECANOIC ACID (PFDA)	1.48	J	Modified EPA Method 537
BP-TT-SW4002-20180501	PERFLUORODODECANOIC ACID (PFDOA)	2.42	U	Modified EPA Method 537
BP-TT-SW4002-20180501	PERFLUOROHEPTANESULFONIC ACID (PFHPS)	2.42	U	Modified EPA Method 537
BP-TT-SW4002-20180501	PERFLUOROHEPTANOIC ACID (PFHPA)	21.7		Modified EPA Method 537
BP-TT-SW4002-20180501	PERFLUOROHEXANESULFONIC ACID (PFHXS)	4.9		Modified EPA Method 537
BP-TT-SW4002-20180501	PERFLUOROHEXANOIC ACID (PFHXA)	28.9		Modified EPA Method 537
BP-TT-SW4002-20180501	PERFLUORONONANOIC ACID (PFNA)	9.45		Modified EPA Method 537
BP-TT-SW4002-20180501	PERFLUOROOCTANE SULFONAMIDE (FOSA)	2.42	U	Modified EPA Method 537
BP-TT-SW4002-20180501	PERFLUOROOCTANESULFONIC ACID (PFOS)	19		Modified EPA Method 537
BP-TT-SW4002-20180501	PERFLUOROPENTANOIC ACID (PFPEA)	37.9		Modified EPA Method 537
BP-TT-SW4002-20180501	PERFLUOROTETRADECANOIC ACID (PFTEA)	2.42	U	Modified EPA Method 537
BP-TT-SW4002-20180501	PERFLUOROTRIDECANOIC ACID (PFTRIA)	2.42	U	Modified EPA Method 537
BP-TT-SW4002-20180501	PERFLUOROUNDECANOIC ACID (PFUNA)	2.54	J	Modified EPA Method 537
BP-TT-SW4004-20180427	6:2 FLUOROTELOMER SULFONATE (6:2FTS)	2.46	U	Modified EPA Method 537
BP-TT-SW4004-20180427	8:2 FLUOROTELOMER SULFONATE (8:2FTS)	2.46	U	Modified EPA Method 537
BP-TT-SW4004-20180427	N-ETHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NEFOSA)	2.46	U	Modified EPA Method 537
BP-TT-SW4004-20180427	N-METHYLPERFLUOROOCTANE SULFONAMIDOACETATE(NMFOSA)	2.46	U	Modified EPA Method 537
BP-TT-SW4004-20180427	PENTADEC AFLUOROOCTANOIC ACID (PFOA)	3.17	J	Modified EPA Method 537
BP-TT-SW4004-20180427	PERFLUOROBUTANESULFONIC ACID (PFBS)	2.46	U	Modified EPA Method 537
BP-TT-SW4004-20180427	PERFLUOROBUTANOIC ACID (PFBA)	2.46	U	Modified EPA Method 537
BP-TT-SW4004-20180427	PERFLUORODECANESULFONIC ACID (PFDS)	2.46	U	Modified EPA Method 537
BP-TT-SW4004-20180427	PERFLUORODECANOIC ACID (PFDA)	2.08	J	Modified EPA Method 537
BP-TT-SW4004-20180427	PERFLUORODODECANOIC ACID (PFDOA)	2.46	U	Modified EPA Method 537
BP-TT-SW4004-20180427	PERFLUOROHEPTANESULFONIC ACID (PFHPS)	2.46	U	Modified EPA Method 537
BP-TT-SW4004-20180427	PERFLUOROHEPTANOIC ACID (PFHPA)	1.59	J	Modified EPA Method 537
BP-TT-SW4004-20180427	PERFLUOROHEXANESULFONIC ACID (PFHXS)	2.46	U	Modified EPA Method 537
BP-TT-SW4004-20180427	PERFLUOROHEXANOIC ACID (PFHXA)	2.46	U	Modified EPA Method 537
BP-TT-SW4004-20180427	PERFLUORONONANOIC ACID (PFNA)	2.08	J	Modified EPA Method 537
BP-TT-SW4004-20180427	PERFLUOROOCTANE SULFONAMIDE (FOSA)	2.46	U	Modified EPA Method 537
BP-TT-SW4004-20180427	PERFLUOROOCTANESULFONIC ACID (PFOS)	1.37	J	Modified EPA Method 537
BP-TT-SW4004-20180427	PERFLUOROPENTANOIC ACID (PFPEA)	2.46	U	Modified EPA Method 537
BP-TT-SW4004-20180427	PERFLUOROTETRADECANOIC ACID (PFTEA)	2.46	U	Modified EPA Method 537
BP-TT-SW4004-20180427	PERFLUOROTRIDECANOIC ACID (PFTRIA)	2.46	U	Modified EPA Method 537
BP-TT-SW4004-20180427	PERFLUOROUNDECANOIC ACID (PFUNA)	2.46	U	Modified EPA Method 537

J - Value estimated
J+ - Value estimated, bias high
U - Not detected
ng/L - nanograms per liter

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FIGURES

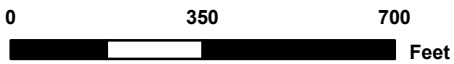
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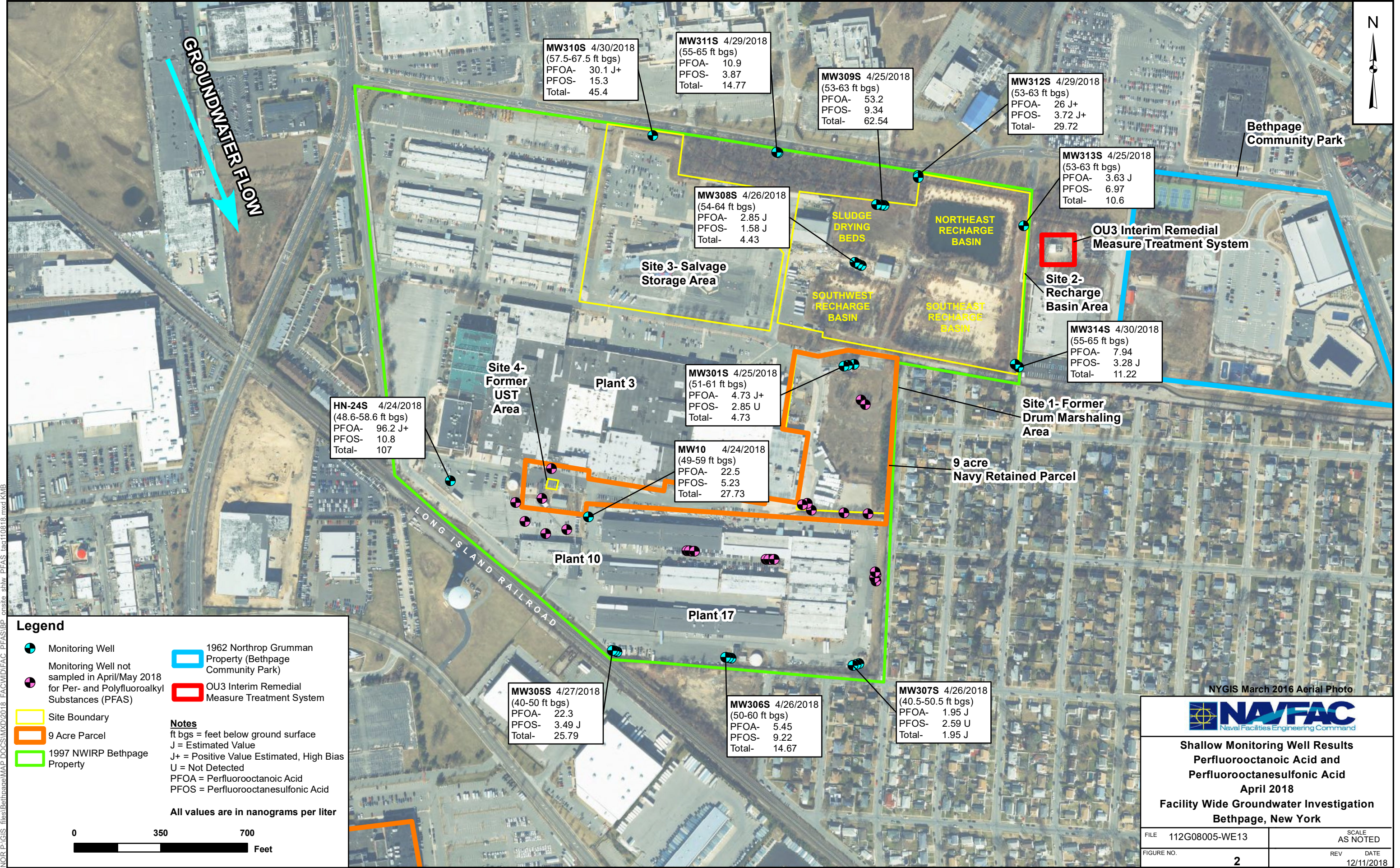
Legend

-  Manhole
-  Monitoring Well for 2018 Sampling
-  Monitoring Well not sampled in April/May 2018 for Per- and Polyfluoroalkyl Substances (PFAS)
-  Surface Water location for Sampling
-  Utility Drain Line
-  Site Boundary
-  9 Acre
-  1997 NWIRP Bethpage Property
-  1962 Northrop Grumman Property (Bethpage Community Park)
-  OU3 Interim Remedial Measure Treatment System



SAMPLING LOCATIONS
NWIRP BETHPAGE, NEW YORK

FILE	112G08005-WE13	SCALE	AS NOTED
FIGURE NO.	1	REV	DATE
			12/11/2018



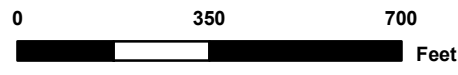
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Legend

- Monitoring Well
- Monitoring Well not sampled in April/May 2018 for Per- and Polyfluoroalkyl Substances (PFAS)
- Site Boundary
- 9 Acre Parcel
- 1997 NWIRP Bethpage Property
- 1962 Northrop Grumman Property (Bethpage Community Park)
- OU3 Interim Remedial Measure Treatment System

Notes
 ft bgs = feet below ground surface
 J = Estimated Value
 J+ = Positive Value Estimated, High Bias
 U = Not Detected
 PFOA = Perfluorooctanoic Acid
 PFOS = Perfluorooctanesulfonic Acid

All values are in nanograms per liter



MW305S 4/27/2018
 (40-50 ft bgs)
 PFOA- 22.3
 PFOS- 3.49 J
 Total- 25.79

MW306S 4/26/2018
 (50-60 ft bgs)
 PFOA- 5.45
 PFOS- 9.22
 Total- 14.67

MW307S 4/26/2018
 (40.5-50.5 ft bgs)
 PFOA- 1.95 J
 PFOS- 2.59 U
 Total- 1.95 J

HN-24S 4/24/2018
 (48.6-58.6 ft bgs)
 PFOA- 96.2 J+
 PFOS- 10.8
 Total- 107

MW10 4/24/2018
 (49-59 ft bgs)
 PFOA- 22.5
 PFOS- 5.23
 Total- 27.73

MW301S 4/25/2018
 (51-61 ft bgs)
 PFOA- 4.73 J+
 PFOS- 2.85 U
 Total- 4.73

MW308S 4/26/2018
 (54-64 ft bgs)
 PFOA- 2.85 J
 PFOS- 1.58 J
 Total- 4.43

MW310S 4/30/2018
 (57.5-67.5 ft bgs)
 PFOA- 30.1 J+
 PFOS- 15.3
 Total- 45.4

MW311S 4/29/2018
 (55-65 ft bgs)
 PFOA- 10.9
 PFOS- 3.87
 Total- 14.77

MW309S 4/25/2018
 (53-63 ft bgs)
 PFOA- 53.2
 PFOS- 9.34
 Total- 62.54

MW312S 4/29/2018
 (53-63 ft bgs)
 PFOA- 26 J+
 PFOS- 3.72 J+
 Total- 29.72

MW313S 4/25/2018
 (53-63 ft bgs)
 PFOA- 3.63 J
 PFOS- 6.97
 Total- 10.6

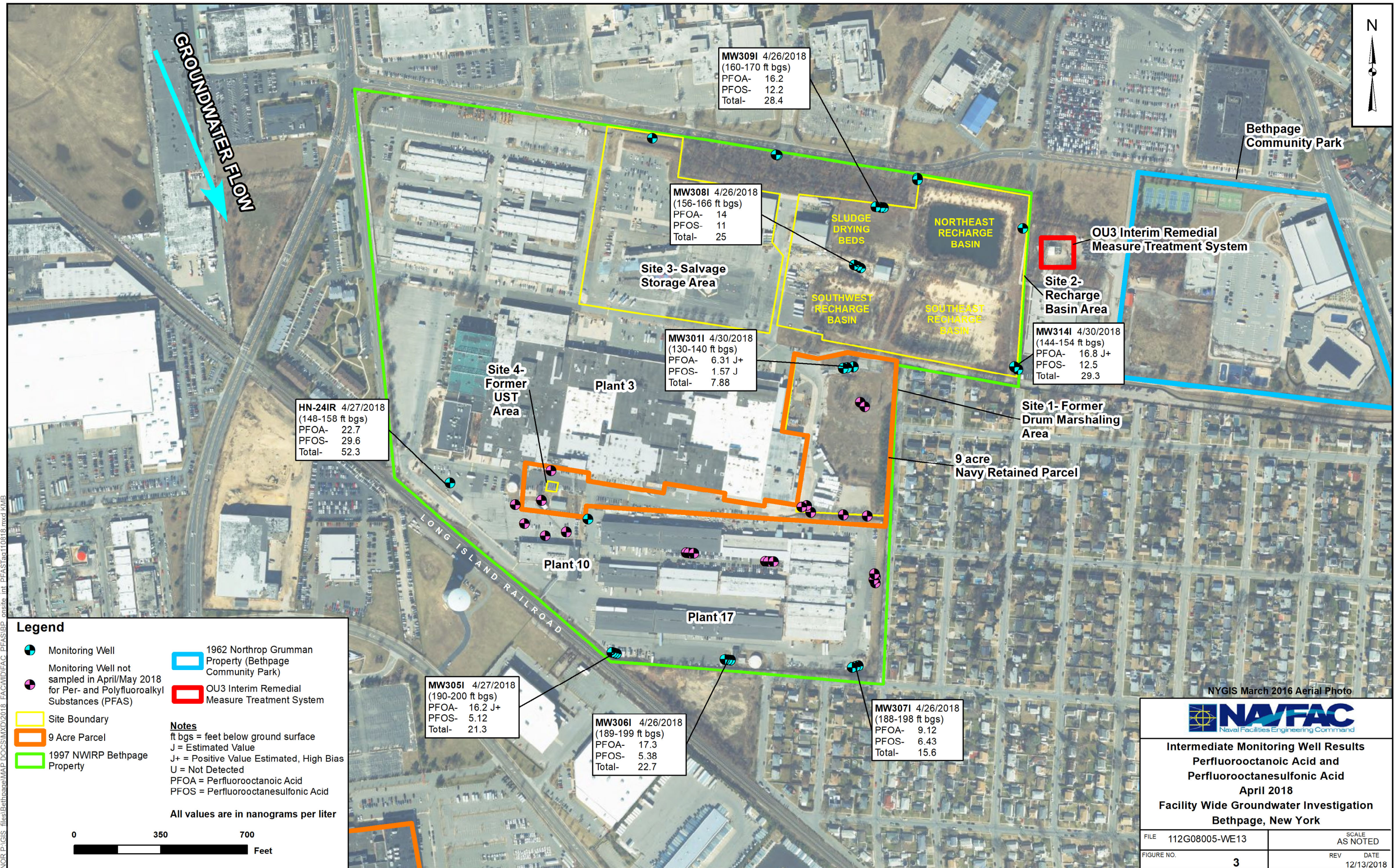
MW314S 4/30/2018
 (55-65 ft bgs)
 PFOA- 7.94
 PFOS- 3.28 J
 Total- 11.22

NYGIS March 2016 Aerial Photo

NAFAC
 Naval Facilities Engineering Command

**Shallow Monitoring Well Results
 Perfluorooctanoic Acid and
 Perfluorooctanesulfonic Acid
 April 2018
 Facility Wide Groundwater Investigation
 Bethpage, New York**

FILE 112G08005-WE13	SCALE AS NOTED
FIGURE NO. 2	REV DATE 12/11/2018



GROUNDWATER FLOW

MW309I 4/26/2018
(160-170 ft bgs)
PFOA- 16.2
PFOS- 12.2
Total- 28.4

MW308I 4/26/2018
(156-166 ft bgs)
PFOA- 14
PFOS- 11
Total- 25

MW301I 4/30/2018
(130-140 ft bgs)
PFOA- 6.31 J+
PFOS- 1.57 J
Total- 7.88

MW314I 4/30/2018
(144-154 ft bgs)
PFOA- 16.8 J+
PFOS- 12.5
Total- 29.3

HN-24IR 4/27/2018
(148-158 ft bgs)
PFOA- 22.7
PFOS- 29.6
Total- 52.3

MW305I 4/27/2018
(190-200 ft bgs)
PFOA- 16.2 J+
PFOS- 5.12
Total- 21.3

MW306I 4/26/2018
(189-199 ft bgs)
PFOA- 17.3
PFOS- 5.38
Total- 22.7

MW307I 4/26/2018
(188-198 ft bgs)
PFOA- 9.12
PFOS- 6.43
Total- 15.6

Legend

- Monitoring Well
- Monitoring Well not sampled in April/May 2018 for Per- and Polyfluoroalkyl Substances (PFAS)
- Site Boundary
- 9 Acre Parcel
- 1997 NWIRP Bethpage Property
- 1962 Northrop Grumman Property (Bethpage Community Park)
- OU3 Interim Remedial Measure Treatment System

Notes
ft bgs = feet below ground surface
J = Estimated Value
J+ = Positive Value Estimated, High Bias
U = Not Detected
PFOA = Perfluorooctanoic Acid
PFOS = Perfluorooctanesulfonic Acid

All values are in nanograms per liter

0 350 700
Feet

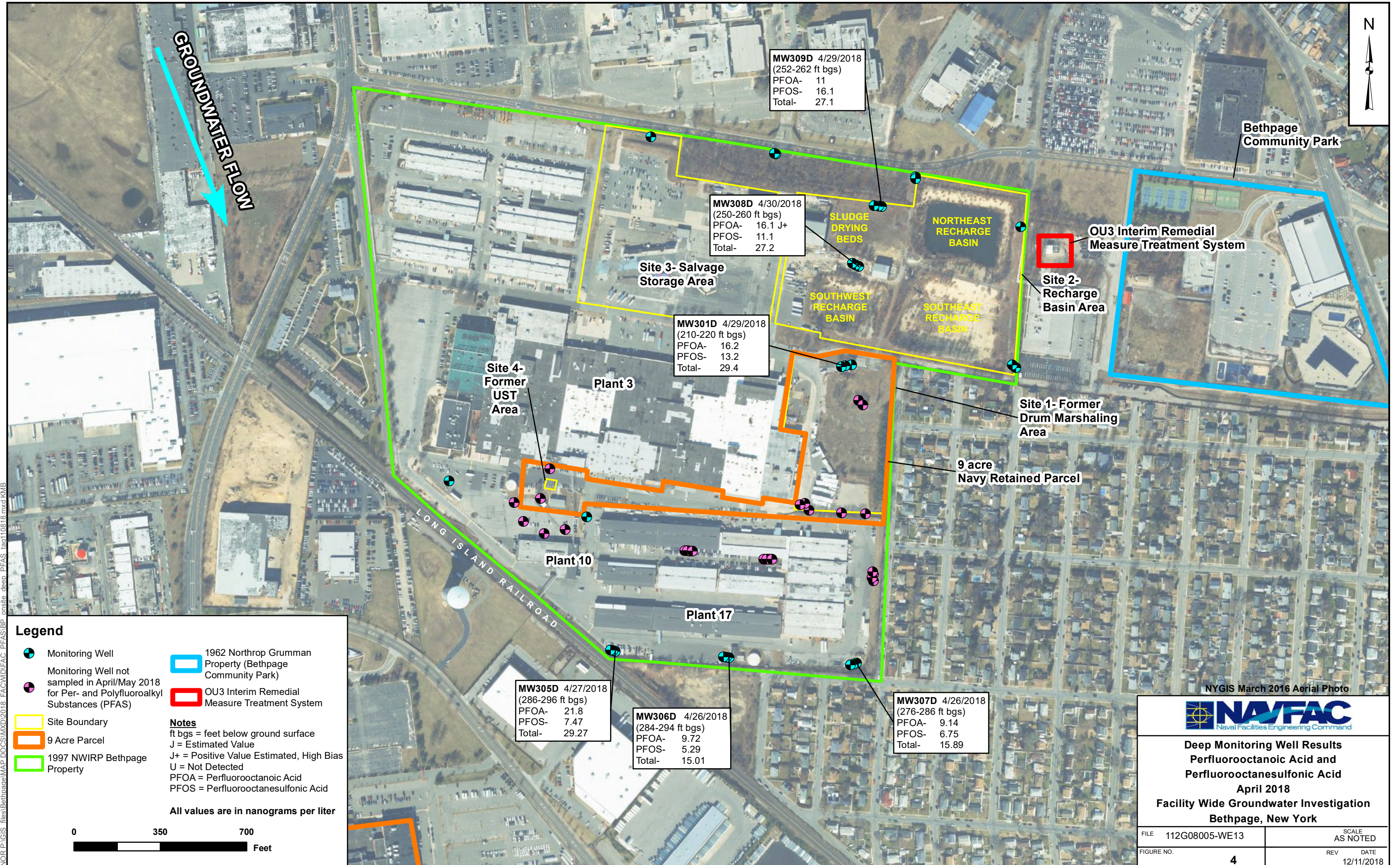
NYGIS March 2016 Aerial Photo



Intermediate Monitoring Well Results
Perfluorooctanoic Acid and
Perfluorooctanesulfonic Acid
April 2018
Facility Wide Groundwater Investigation
Bethpage, New York

FILE	112G08005-WE13	SCALE	AS NOTED
FIGURE NO.	3	REV	DATE
			12/13/2018

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GROUNDWATER FLOW



Bethpage Community Park

MW309D 4/29/2018
(252-262 ft bgs)
PFOA- 11
PFOS- 16.1
Total- 27.1

MW308D 4/30/2018
(250-260 ft bgs)
PFOA- 16.1 J+
PFOS- 11.1
Total- 27.2

MW301D 4/29/2018
(210-220 ft bgs)
PFOA- 16.2
PFOS- 13.2
Total- 29.4

MW305D 4/27/2018
(286-296 ft bgs)
PFOA- 21.8
PFOS- 7.47
Total- 29.27

MW306D 4/26/2018
(284-294 ft bgs)
PFOA- 9.72
PFOS- 5.29
Total- 15.01

MW307D 4/26/2018
(276-286 ft bgs)
PFOA- 9.14
PFOS- 6.75
Total- 15.89

Legend

- Monitoring Well
- Monitoring Well not sampled in April/May 2018 for Per- and Polyfluoroalkyl Substances (PFAS)
- Site Boundary
- 9 Acre Parcel
- 1997 NWIRP Bethpage Property
- 1962 Northrop Grumman Property (Bethpage Community Park)
- OU3 Interim Remedial Measure Treatment System

Notes
ft bgs = feet below ground surface
J = Estimated Value
J+ = Positive Value Estimated, High Bias
U = Not Detected
PFOA = Perfluorooctanoic Acid
PFOS = Perfluorooctanesulfonic Acid

All values are in nanograms per liter

0 350 700 Feet

NYGIS March 2016 Aerial Photo



Deep Monitoring Well Results
Perfluorooctanoic Acid and
Perfluorooctanesulfonic Acid
April 2018
Facility Wide Groundwater Investigation
Bethpage, New York

FILE	112G08005-WE13	SCALE	AS NOTED
FIGURE NO.	4	REV	DATE
			12/11/2018

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