

Groundwater Sample Results, Electronic Data Deliverable, Data Validation Report, and the Sample Location Report, SDG 1803122

Naval Weapons Industrial Reserve Plant Bethpage Bethpage, New York

August 2019

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"BP-TT-FRB08-20180918", "Modified EPA 537", "Initial", "1803122-01", "Vista", "375-22-
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"BP-TT-FRB09-20180919", "Modified EPA 537", "Initial", "1803122-02", "Vista", "13C2-PFTeDA", "13
PFTeDA","71.4","%R","","-99","NA","","IS","71.4","","-99","NA","YES","100","","0.120","0.001","-99",""
"BP-TT-FRB10-20180920", "Modified EPA 537", "Initial", "1803122-03", "Vista", "375-22-
4","PFBA","5.34","ng/L","ÚU","2.93","LOD","","TRG","","","8.56","LOQ","YES","-99","","0.117","0.001","5.34",""
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"BP-TT-FRB10-20180920", "Modified EPA 537", "Initial", "1803122-03", "Vista", "2991-50-
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"B8J0002-BLK1", "Modified EPA 537", "Initial", "B8J0002-BLK1", "Vista", "307-55-
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"B8J0002-BLK1","Modified EPA 537","Initial","B8J0002-BLK1","Vista","72629-94-
8","PFTrDA","5.00","ng/L","UU","2.74","LOD","","TRG","","","8.00","LOQ","YES","-99","","0.125","0.001","5.00",
"B8J0002-BLK1", "Modified EPA 537", "Initial", "B8J0002-BLK1", "Vista", "376-06-
7","PFTeDA","5.00","ng/L","UU","2.74","LOD","","TRG","","","8.00","LOQ","YES","-99","","0.125","0.001","5.00",
"B8J0002-BLK1", "Modified EPA 537", "Initial", "B8J0002-BLK1", "Vista", "13C3-PFBA", "13C3-
PFBA","99.0","%R","","-99","NA","","IS","99.0","","-99","NA","YES","100","","0.125","0.001","-99",""
"B8J0002-BLK1", "Modified EPA 537", "Initial", "B8J0002-BLK1", "Vista", "13C3-PFPeA", "13C3-
PFPeA","96.1","%R","","-99","NA","","IS","96.1","","-99","NA","YES","100","","0.125","0.001","-99",""
"B8J0002-BLK1", "Modified EPA 537", "Initial", "B8J0002-BLK1", "Vista", "13C3-PFBS", "13C3-
PFBS","102","%R","","-99","NA","","IS","102","","-99","NA","YES","100","","0.125","0.001","-99",""
"B8J0002-BLK1", "Modified EPA 537", "Initial", "B8J0002-BLK1", "Vista", "13C2-PFHxA", 
PFHxA","96.7","%R","","-99","NA","","IS","96.7","","-99","NA","YES","100","","0.125","0.001","-99",""
"B8J0002-BLK1", "Modified EPA 537", "Initial", "B8J0002-BLK1", "Vista", "13C4-PFHpA", 
PFHpA","93.1","%R","","-99","NA","","IS","93.1","","-99","NA","YES","100","","0.125","0.001","-99",""
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"B8J0002-BLK1", "Modified EPA 537", "Initial", "B8J0002-BLK1", "Vista", "18O2-PFHxS", "18O2-

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PFHxS","99.9","%R","","-99","NA","","IS","99.9","","-99","NA","YES","100","","0.125","0.001","-99",""
"B8J0002-BLK1", "Modified EPA 537", "Initial", "B8J0002-BLK1", "Vista", "13C2-6:2 FTS", "13C2-6:2
FTS","110","%R","","-99","NA","","IS","110","","-99","NA","YES","100","","0.125","0.001","-99",""
"B8J0002-BLK1", "Modified EPA 537", "Initial", "B8J0002-BLK1", "Vista", "13C2-PFOA", "13C2-PFOA"
PFOA","91.1","%R","","-99","NA","","IS","91.1","","-99","NA","YES","100","","0.125","0.001","-99",""
"B8J0002-BLK1", "Modified EPA 537", "Initial", "B8J0002-BLK1", "Vista", "13C5-PFNA", "13C5-
PFNA","83.7","%R","","-99","NA","","IS","83.7","","-99","NA","YES","100","","0.125","0.001","-99",""
"B8J0002-BLK1", "Modified EPA 537", "Initial", "B8J0002-BLK1", "Vista", "13C8-PFOSA", "13C8-
PFOSA","19.3","%R","H","-99","NA","","IS","19.3","","-99","NA","YES","100","","0.125","0.001","-99",""
"B8J0002-BLK1","Modified EPA 537","Initial","B8J0002-BLK1","Vista","13C8-PFOS","13C8-
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PFDA","72.0","%R","","-99","NA","","IS","72.0","","-99","NA","YES","100","","0.125","0.001","-99",""
"B8J0002-BLK1", "Modified EPA 537", "Initial", "B8J0002-BLK1", "Vista", "13C2-8:2 FTS", "13C2-8:2
FTS","110","%R","","-99","NA","","IS","110","","-99","NA","YES","100","","0.125","0.001","-99",""
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MeFOSAA", "63.6", "%R", "", "-99", "NA", "", "IS", "63.6", "", "-99", "NA", "YES", "100", "", "0.125", "0.001", "-99", ""
"B8J0002-BLK1", "Modified EPA 537", "Initial", "B8J0002-BLK1", "Vista", "d5-EtFOSAA", "d5-
EtFOSAA","72.0","%R","","-99","NA","","IS","72.0","","-99","NA","YES","100","","0.125","0.001","-99",""
"B8J0002-BLK1", "Modified EPA 537", "Initial", "B8J0002-BLK1", "Vista", "13C2-PFUnA", "13C2-
PFUnA","64.4","%R","","-99","NA","","IS","64.4","","-99","NA","YES","100","","0.125","0.001","-99",""
"B8J0002-BLK1", "Modified EPA 537", "Initial", "B8J0002-BLK1", "Vista", "13C2-PFDoA", 
PFDoA","65.4","%R","","-99","NA","","IS","65.4","","-99","NA","YES","100","","0.125","0.001","-99",""
"B8J0002-BLK1", "Modified EPA 537", "Initial", "B8J0002-BLK1", "Vista", "13C2-PFTeDA", "13C2-
PFTeDA","73.5","%R","","-99","NA","","IS","73.5","","-99","NA","YES","100","","0.125","0.001","-99",""
"B8J0002-BS1", "Modified EPA 537", "Initial", "B8J0002-BS1", "Vista", "375-22-
4","PFBA","68.5","ng/L","","2.74","LOD","","TRG","85.7","","8.00","LOQ","YES","80.0","","0.125","0.001","5.00","
"B8J0002-BS1", "Modified EPA 537", "Initial", "B8J0002-BS1", "Vista", "2706-90-
3","PFPeA","69.9","ng/L","","2.74","LOD","","TRG","87.3","","8.00","LOQ","YES","80.0","","0.125","0.001","5.00",
"B8J0002-BS1", "Modified EPA 537", "Initial", "B8J0002-BS1", "Vista", "375-73-
5","PFBS","70.4","ng/L","","2.74","LOD","","TRG","88.0","","8.00","LOQ","YES","80.0","","0.125","0.001","5.00","
"B8J0002-BS1", "Modified EPA 537", "Initial", "B8J0002-BS1", "Vista", "307-24-
4","PFHxA","72.8","ng/L","","2.74","LOD","","TRG","91.0","","8.00","LOQ","YES","80.0","","0.125","0.001","5.00",
"B8J0002-BS1", "Modified EPA 537", "Initial", "B8J0002-BS1", "Vista", "375-85-
9","PFHpA","70.7","ng/L","","2.74","LOD","","TRG","88.4","","8.00","LOQ","YES","80.0","","0.125","0.001","5.00",
"B8J0002-BS1", "Modified EPA 537", "Initial", "B8J0002-BS1", "Vista", "355-46-
4","PFHxS","71.7","ng/L","","2.74","LOD","","TRG","89.7","","8.00","LOQ","YES","80.0","","0.125","0.001","5.00",
"B8J0002-BS1", "Modified EPA 537", "Initial", "B8J0002-BS1", "Vista", "27619-97-2", "6:2
FTS","75.8","ng/L","","2.74","LOD","","TRG","94.8","","8.00","LOQ","YES","80.0","","0.125","0.001","5.00",""
"B8J0002-BS1", "Modified EPA 537", "Initial", "B8J0002-BS1", "Vista", "335-67-
1","PFOA","67.6","ng/L","","2.74","LOD","","TRG","84.5","","8.00","LOQ","YES","80.0","","0.125","0.001","5.00","
"B8J0002-BS1", "Modified EPA 537", "Initial", "B8J0002-BS1", "Vista", "375-92-
8","PFHpS","75.1","ng/L","","2.74","LOD","","TRG","93.9","","8.00","LOQ","YES","80.0","","0.125","0.001","5.00",
"B8J0002-BS1", "Modified EPA 537", "Initial", "B8J0002-BS1", "Vista", "375-95-
1","PFNA","70.4","ng/L","","2.74","LOD","","TRG","88.1","","8.00","LOQ","YES","80.0","","0.125","0.001","5.00","
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"B8J0002-BS1", "Modified EPA 537", "Initial", "B8J0002-BS1", "Vista", "754-91-
6","PFOSA","66.2","ng/L","Q","2.74","LOD","","TRG","82.8","","8.00","LOQ","YES","80.0","","0.125","0.001","5.0
"B8J0002-BS1", "Modified EPA 537", "Initial", "B8J0002-BS1", "Vista", "1763-23-
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"B8J0002-BS1", "Modified EPA 537", "Initial", "B8J0002-BS1", "Vista", "335-76-
2","PFDA","69.7","ng/L","","2.74","LOD","","TRG","87.1","","8.00","LOQ","YES","80.0","","0.125","0.001","5.00","
"B8J0002-BS1", "Modified EPA 537", "Initial", "B8J0002-BS1", "Vista", "39108-34-4", "8:2
FTS","83.9","ng/L","","2.74","LOD","","TRG","105","","8.00","LOQ","YES","80.0","","0.125","0.001","5.00",""
"B8J0002-BS1", "Modified EPA 537", "Initial", "B8J0002-BS1", "Vista", "2355-31-
9","MeFOSAA","68.9","ng/L","","2.74","LOD","","TRG","86.1","","8.00","LOQ","YES","80.0","","0.125","0.001","5.
"B8J0002-BS1", "Modified EPA 537", "Initial", "B8J0002-BS1", "Vista", "2991-50-
6","EtFOSAA","68.5","ng/L","","2.74","LOD","","TRG","85.6","","8.00","LOQ","YES","80.0","","0.125","0.001","5.0
"B8J0002-BS1", "Modified EPA 537", "Initial", "B8J0002-BS1", "Vista", "2058-94-
8","PFUnA","68.8","ng/L","","2.74","LOD","","TRG","86.0","","8.00","LOQ","YES","80.0","","0.125","0.001","5.00",
"B8J0002-BS1", "Modified EPA 537", "Initial", "B8J0002-BS1", "Vista", "335-77-
3","PFDS","69.7","ng/L","","2.74","LOD","","TRG","87.2","","8.00","LOQ","YES","80.0","","0.125","0.001","5.00","
"B8J0002-BS1", "Modified EPA 537", "Initial", "B8J0002-BS1", "Vista", "307-55-
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11 1111
"B8J0002-BS1", "Modified EPA 537", "Initial", "B8J0002-BS1", "Vista", "376-06-
7","PFTeDA","71.3","ng/L","","2.74","LOD","","TRG","89.1","","8.00","LOQ","YES","80.0","","0.125","0.001","5.00
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PFHxA","95.0","%R","","-99","NA","","IS","95.0","","-99","NA","YES","100","","0.125","0.001","-99",""
"B8J0002-BS1", "Modified EPA 537", "Initial", "B8J0002-BS1", "Vista", "13C4-PFHpA", "1
PFHpA","93.7","%R","","-99","NA","","IS","93.7","","-99","NA","YES","100","","0.125","0.001","-99",""
PFHxS","96.0","%R","","-99","NA","","IS","96.0","","-99","NA","YES","100","","0.125","0.001","-99",""
"B8J0002-BS1", "Modified EPA 537", "Initial", "B8J0002-BS1", "Vista", "13C2-6:2 FTS", "13C2-6:2
FTS","105","%R","","-99","NA","","IS","105","","-99","NA","YES","100","","0.125","0.001","-99",""
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PFOA","92.0","%R","","-99","NA","","IS","92.0","","-99","NA","YES","100","","0.125","0.001","-99",""
"B8J0002-BS1", "Modified EPA 537", "Initial", "B8J0002-BS1", "Vista", "13C5-PFNA", "13C5-
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"B8J0002-BS1", "Modified EPA 537", "Initial", "B8J0002-BS1", "Vista", "13C8-PFOSA", "1
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"B8J0002-BS1", "Modified EPA 537", "Initial", "B8J0002-BS1", "Vista", "13C8-PFOS", "13C8-
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      "B8J0002-BSD1","Modified EPA 537","Initial","B8J0002-BSD1","Vista","754-91-
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2159 Wynnton Pointe, Duluth, GA 30097

(770) 232-0130 (770) 232-5082 (Fax) www.datavalidator.com

DATA VALIDATION SUMMARY REPORT - RADIOCHEMISTRY

COMPANY: Tetra Tech, Inc., Norfolk, VA

PROJECT NAME: Basewide Radiological Groundwater Investigation, Naval

Weapons Industrial Reserve Plant (NWIRP), Bethpage, NY

SITE NAME: CTO-WE09

CONTRACTED LAB: Vista Analytical Laboratory

CONTRACT NO.: N62470-16-D-9008

QA/QC LEVEL: EPA Stage 4

ANALYTICAL METHODS: EPA 537 Modified

VALIDATION GUIDELINES: Sampling and Analysis Plan for Per- and polyfluoroalkyl

Substances Investigation, February 2018, QSM 5.1, and

Professional Judgment

SAMPLE MATRIX: Water

TYPES OF ANALYSES: Per- and Polyfluoroalkyl Substances (PFAS) Using Liquid

Chromatography Tandem Mass Spectrometry (LC/MS/MS)

DATA VALIDATION DATE: March 12, 2019 DATA REVIEWER(S): Thomas B. Granat

SDG NUMBER: 1803122

SAMPLING DATE(S): September 18-20, 2018

SAMPLES:

Client Sample ID	<u>Laboratory ID</u>	<u>PFAS</u>
BP-TT-FRB08-20180918	1803122-01	X
BP-TT-FRB09-20180919	1803122-02	X
BP-TT-FRB10-20180920	1803122-03	X

Qualifier	Definition
No qualifier	Confirmed identification. The analyte was positively identified at the reported value. The reported concentration is within the calibrated range of the instrument and the result is not affected by any deficiencies in the associated quality control criteria.
J	The analyte was detected at the reported concentration; the quantitation is an estimate.
J-	The analyte was detected at the reported concentration; the quantitation is an estimate and may be biased low.
J+	The analyte was detected at the reported concentration; the quantitation is an estimate and may be biased high.
U	Not considered detected. The associated number is the reported concentration.
UJ	Not considered detected. The associated number is the reported concentration, which may be inaccurate.
X	The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance or rejection of the data should be decided by the project team (which should include a project chemist), but exclusion of the data is recommended.

DATA VALIDATION SUMMARY

Vista Analytical Laboratory – SDG: 1803122

PFAS (Per- and polyfluoroalkyl substances)

SUMMARY

I.) General:

The samples were extracted and analyzed by LC/MS/MS for a selected list of PFAS using the PFAS Isotope Dilution Method (Modified EPA Method 537). The results for PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Results for all other analytes include the linear isomers only.

II.) Overall Assessment of Data:

All laboratory data were acceptable with qualifications.

MAJOR ISSUES

There were no major problems for this fraction of the SDG.

MINOR ISSUES

I.) Laboratory Data Package:

The required documentation was present and complete. The laboratory presented a complete and accurate case narrative in the data package. The data package contains results for all samples and method types listed on the COC.

II.) Sample Receipt, Preservation, and Holding Times:

The samples were received intact with proper COC documentation and signatures. The samples were received within the method temperature requirements and were stored securely in accordance with Vista standard operating procedures and EPA methodology. The samples were extracted and analyzed within the method hold times.

III.) LC-MS Tune:

All LC-MS Tune criteria were met. No data qualification was necessary.

IV.) Initial Calibration (ICAL) and Initial Calibration Verification (ICV):

All Initial Calibration and Initial Calibration Verification criteria were met. No data qualification was

SDG: 1803122

necessary.

V.) Continuing Calibration (CCV):

All Continuing Calibration Verification criteria were met. No data qualification was necessary.

VI.) CRDL / CRQL standards:

All CRDL / CRQL standards criteria were met. No data qualification was necessary.

VII.) Blanks:

Calibration Blanks:

There were no detections in the calibration blanks. No data qualification was necessary.

Preparation Blanks:

There were no detections in the preparation blanks. No data qualification was necessary.

Equipment Blanks:

There were no equipment blanks identified in this SDG. No data qualification was necessary.

Field Blanks:

The three SDG samples were field reagent blanks. There were no detections in the field reagent blanks. No data qualification was necessary.

VIII.) Matrix Spike / Matrix Spike Duplicate (MS / MSD):

Since the only SDG samples were field QC samples, MS / MSD analyses were not performed. No data qualification was necessary.

IV.) Duplicate Sample Analysis:

Since the only SDG samples were field QC samples, MD analysis was not performed. No data qualification was necessary.

X.) Laboratory Control Samples (LCS):

All LCS/LCSD Recovery and RPD criteria were met. No data qualification was necessary.

XI.) Field Duplicates:

There were no field duplicates identified in the SDG. No data qualification was necessary.

XII.) Internal Standards Performance (ISTD):

ISTD percent recoveries (%R) for 13C8-PFOSA were below the QC lower limit of 50%. Below are the associated analytes:

Client Sample ID	<u>Lab ID</u>	<u>Analyte</u>	ISTD %R	Qualifier	Code
BP-TT-FRB08-20180918	1803122-01	PFOSA	16.1	UJ	N
BP-TT-FRB09-20180919	1803122-02	PFOSA	20.8	UJ	N
BP-TT-FRB10-20180920	1803122-03	PFOSA	25.5	UJ	N

The above associated analyte results were qualified as estimated (UJ) with reason code N.

XIII.) Ion Transitions:

Proper Ion transitions were used to quantify the analytes. No data qualification was necessary.

XIV.) Ion Ratio:

There were no detections in the SDG samples. No data qualification was necessary.

XV.) Reporting limits (RLs):

All LOQs were less than the project quantitation limits for the applicable analytes. No data qualification was necessary.

XVI.) Instrument Performance criteria (Stage 4):

All Instrument Performance criteria were met. No data qualification was necessary.

XVII.) Sample Calculation Verification (Stage 4):

All analyte results were non-detects.

Appendix A

Data Qualification Summary Table (DQST) with Qualification Codes

SDG: 1803122

SAMPLE_ID	SAMP_DATE	LAB_ID	PARAMETER	LAB_RES	LAB_QUAL	VAL_RES	VAL_QUAL	VAL_REASON_CODE
BP-TT-FRB08-20180918	9/18/2018 0:00	1803122-01	PFOSA	5.43	UU	5.43	UJ	N
BP-TT-FRB09-20180919	9/19/2018 0:00	1803122-02	PFOSA	5.21	UU	5.21	UJ	N
BP-TT-FRB10-20180920	9/20/2018 0:00	1803122-03	PFOSA	5.34	UU	5.34	UJ	N

Appendix B

Laboratory Sample Results



Sample ID: BP-TT-FRB08-20180918 PFAS Isotope Dilution Method

Client Data
Name: Tetra

Name: Tetra Tech Project: Bethpage Matrix: QC Water

Date Collected: 18-Sep-18 07:30

Laboratory Data

Lab Sample: 1803122-01

Date Received: 21-Sep-18 09:09

Column: BEH C18

PFBA	Project: Betnpage		Date Cor	iecieu. 18-8	ep-18 07:30	Date	Received:	21-Sep-18	3 09:09			
PPPA 2706-90-3 ND 2.98 5.43 8.69 U BSJ0002 02-0ct-18 0.115 L 18-0ct-18 17:12 PPHX 307-244 ND 2.98 5.43 8.69 U BSJ0002 02-0ct-18 0.115 L 18-0ct-18 17:12 PPHX 307-244 ND 2.98 5.43 8.69 U BSJ0002 02-0ct-18 0.115 L 18-0ct-18 17:12 PPHX 375-85-9 ND 2.98 5.43 8.69 U BSJ0002 02-0ct-18 0.115 L 18-0ct-18 17:12 PPHX 355-46-4 ND 2.98 5.43 8.69 U BSJ0002 02-0ct-18 0.115 L 18-0ct-18 17:12 PPOA 335-67-1 ND 2.98 5.43 8.69 U BSJ0002 02-0ct-18 0.115 L 18-0ct-18 17:12 PPOA 335-67-1 ND 2.98 5.43 8.69 U BSJ0002 02-0ct-18 0.115 L 18-0ct-18 17:12 PPNA 375-95-8 ND 2.98 5.43 8.69 U BSJ0002 02-0ct-18 0.115 L 18-0ct-18 17:12 PPNA 375-95-8 ND 2.98 5.43 8.69 U BSJ0002 02-0ct-18 0.115 L 18-0ct-18 17:12 PPNA 375-95-1 ND 2.98 5.43 8.69 U BSJ0002 02-0ct-18 0.115 L 18-0ct-18 17:12 PPOS 754-91-6 ND 2.98 5.43 8.69 U BSJ0002 02-0ct-18 0.115 L 18-0ct-18 17:12 PPOS 754-91-6 ND 2.98 5.43 8.69 U BSJ0002 02-0ct-18 0.115 L 18-0ct-18 17:12 PPDA 335-76-2 ND 2.98 5.43 8.69 U BSJ0002 02-0ct-18 0.115 L 18-0ct-18 17:12 PPDA 335-76-2 ND 2.98 5.43 8.69 U BSJ0002 02-0ct-18 0.115 L 18-0ct-18 17:12 PPTWA 2.991-50-6 ND 2.98 5.43 8.69 U BSJ0002 02-0ct-18 0.115 L 18-0ct-18 17:12 PPTWA 2.991-50-6 ND 2.98 5.43 8.69 U BSJ0002 02-0ct-18 0.115 L 18-0ct-18 17:12 PPTWA 2.991-50-6 ND 2.98 5.43 8.69 U BSJ0002 02-0ct-18 0.115 L 18-0ct-18 17:12 PPTWA 2.991-50-6 ND 2.98 5.43 8.69 U BSJ0002 02-0ct-18 0.115 L 18-0ct-18 17:12 PPTWA 2.991-50-6 ND 2.98 5.43 8.69 U BSJ0002 02-0ct-18 0.115 L 18-0ct-18 17:12 PPTWA 2.991-50-6 ND 2.98 5.43 8.69 U BSJ0002 02-0ct-18 0.115 L 18-0ct-18 17:12 PPTWA 2.991-50-6 ND	Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBS 375-73-5	PFBA	375-22-4	ND	2.98	5.43	8.69	U	B8J0002	02-Oct-18	0.115 L	18-Oct-18 17:12	. 1
PEHAA 307-24-4 ND 2.98 5.43 8.69 U B810002 02-0ct-18 0.115 L 18-0ct-18 17:12 PEHAA 378-85-9 ND 2.98 5.43 8.69 U B810002 02-0ct-18 0.115 L 18-0ct-18 17:12 PEHAS 355-46-4 ND 2.98 5.43 8.69 U B810002 02-0ct-18 0.115 L 18-0ct-18 17:12 PEFOA 335-67-1 ND 2.98 5.43 8.69 U B810002 02-0ct-18 0.115 L 18-0ct-18 17:12 PEHAS 375-92-8 ND 2.98 5.43 8.69 U B810002 02-0ct-18 0.115 L 18-0ct-18 17:12 PEHAS 375-92-8 ND 2.98 5.43 8.69 U B810002 02-0ct-18 0.115 L 18-0ct-18 17:12 PEHAS 375-95-1 ND 2.98 5.43 8.69 U B810002 02-0ct-18 0.115 L 18-0ct-18 17:12 PEOSA 754-91-6 ND 2.98 5.43 8.69 U B810002 02-0ct-18 0.115 L 18-0ct-18 17:12 PEOSA 754-91-6 ND 2.98 5.43 8.69 U B810002 02-0ct-18 0.115 L 18-0ct-18 17:12 PEDA 335-76-2 ND 2.98 5.43 8.69 U B810002 02-0ct-18 0.115 L 18-0ct-18 17:12 PEDA 335-76-2 ND 2.98 5.43 8.69 U B810002 02-0ct-18 0.115 L 18-0ct-18 17:12 PEDA 335-76-2 ND 2.98 5.43 8.69 U B810002 02-0ct-18 0.115 L 18-0ct-18 17:12 PEDA 335-76-2 ND 2.98 5.43 8.69 U B810002 02-0ct-18 0.115 L 18-0ct-18 17:12 PEDA 335-76-3 ND 2.98 5.43 8.69 U B810002 02-0ct-18 0.115 L 18-0ct-18 17:12 PEDA 2355-31-9 ND 2.98 5.43 8.69 U B810002 02-0ct-18 0.115 L 18-0ct-18 17:12 PEDA 2088-94-8 ND 2.98 5.43 8.69 U B810002 02-0ct-18 0.115 L 18-0ct-18 17:12 PEDA 2088-94-8 ND 2.98 5.43 8.69 U B810002 02-0ct-18 0.115 L 18-0ct-18 17:12 PEDA 335-77-3 ND 2.98 5.43 8.69 U B810002 02-0ct-18 0.115 L 18-0ct-18 17:12 PEDA 335-77-3 ND 2.98 5.43 8.69 U B810002 02-0ct-18 0.115 L 18-0ct-18 17:12 PEDA 376-0c-7 ND 2.98 5.43 8.69 U B810002 02-0ct-18 0.115 L 18-0ct-18 17:12 PEDA 376-0c-7 ND 2.98 5.43 8.69 U B810002 02-0ct-18 0.115 L 18-0ct-18 17:12 PEDA 376-0c-7 ND 2.98 5.43 8.69 U B810002 02-0ct-18 0.115 L 18-0ct-18 17:12 1302-PPTA 1S 96-0 ND 80000 02-0ct-18 0.115 L 18-0ct-18 17:12 1302-PPTA 1S 96-0 ND 80000 02-0ct-18 0.115 L 18-0ct-18 17:12 1302-PPTA 1S 96-0 ND 80000 02-0ct-18 0.115 L 18-0ct-18 17:12 1302-PPTA 1S 96-0 ND 80000 02-0ct-18 0.115 L 18-0ct-18 17:12 1302-PPTA 1S 96-0 ND 80000 02-0ct-18 0.115 L 18-0ct-18 17:12 1302-PPTA 1S 96-0 ND 80000 02-0ct-18 0.115 L 18-0ct-18 17	PFPeA	2706-90-3	ND	2.98	5.43	8.69	U	B8J0002	02-Oct-18	0.115 L	18-Oct-18 17:12	. 1
PFIHA 307-24-4 ND 2-98 5.43 8.69 U BRJ0002 02-0ct-18 0.115.1 18-0ct-18 17:12 PFIHA 378-85-9 ND 2-98 5.43 8.69 U BRJ0002 02-0ct-18 0.115.1 18-0ct-18 17:12 PFIHS 355-46-4 ND 2-98 5.43 8.69 U BRJ0002 02-0ct-18 0.115.1 18-0ct-18 17:12 PFIGA 335-46-1 ND 2-98 5.43 8.69 U BRJ0002 02-0ct-18 0.115.1 18-0ct-18 17:12 PFIGA 335-67-1 ND 2-98 5.43 8.69 U BRJ0002 02-0ct-18 0.115.1 18-0ct-18 17:12 PFIHS 378-92-8 ND 2-98 5.43 8.69 U BRJ0002 02-0ct-18 0.115.1 18-0ct-18 17:12 PFIMA 375-95-1 ND 2-98 5.43 8.69 U BRJ0002 02-0ct-18 0.115.1 18-0ct-18 17:12 PFIMA 375-95-1 ND 2-98 5.43 8.69 U BRJ0002 02-0ct-18 0.115.1 18-0ct-18 17:12 PFIMA 375-96-1 ND 2-98 5.43 8.69 U BRJ0002 02-0ct-18 0.115.1 18-0ct-18 17:12 PFIMA 335-76-2 ND 2-98 5.43 8.69 U BRJ0002 02-0ct-18 0.115.1 18-0ct-18 17:12 PFIMA 335-76-2 ND 2-98 5.43 8.69 U BRJ0002 02-0ct-18 0.115.1 18-0ct-18 17:12 PFIMA 335-76-2 ND 2-98 5.43 8.69 U BRJ0002 02-0ct-18 0.115.1 18-0ct-18 17:12 PFIMA 2355-31-9 ND 2-98 5.43 8.69 U BRJ0002 02-0ct-18 0.115.1 18-0ct-18 17:12 PFIMA 258-94-8 ND 2-98 5.43 8.69 U BRJ0002 02-0ct-18 0.115.1 18-0ct-18 17:12 PFIMA 2088-94-8 ND 2-98 5.43 8.69 U BRJ0002 02-0ct-18 0.115.1 18-0ct-18 17:12 PFIMA 2088-94-8 ND 2-98 5.43 8.69 U BRJ0002 02-0ct-18 0.115.1 18-0ct-18 17:12 PFIMA 2088-94-8 ND 2-98 5.43 8.69 U BRJ0002 02-0ct-18 0.115.1 18-0ct-18 17:12 PFIMA 2088-94-8 ND 2-98 5.43 8.69 U BRJ0002 02-0ct-18 0.115.1 18-0ct-18 17:12 PFIMA 2088-94-8 ND 2-98 5.43 8.69 U BRJ0002 02-0ct-18 0.115.1 18-0ct-18 17:12 PFIMA 2088-94-8 ND 2-98 5.43 8.69 U BRJ0002 02-0ct-18 0.115.1 18-0ct-18 17:12 PFIMA 2088-94-8 ND 2-98 5.43 8.69 U BRJ0002 02-0ct-18 0.115.1 18-0ct-18 17:12 PFIMA 2088-94-8 ND 2-98 5.43 8.69 U BRJ0002 02-0ct-18 0.115.1 18-0ct-18 17:12 PFIMA 2088-94-8 ND 2-98 5.43 8.69 U BRJ0002 02-0ct-18 0.115.1 18-0ct-18 17:12 PFIMA 2088-94-8 ND 2-98 5.43 8.69 U BRJ0002 02-0ct-18 0.115.1 18-0ct-18 17:12 113-12 PFIMA 18 9-05-3 ND 2-98 5.43 8.69 U BRJ0002 02-0ct-18 0.115.1 18-0ct-18 17:12 113-12 PFIMA 18 9-05-3 ND 2-98 5.43 8.69 U BRJ0002 02-0ct-18 0.115.1 18-0ct-18 17:12 13-0ct-18 17:12 1	PFBS	375-73-5	ND	2.98	5.43	8.69	U	B8J0002	02-Oct-18		18-Oct-18 17:12	. 1
PFHNS 355-46-4	PFHxA	307-24-4		2.98	5.43	8.69	U	B8J0002	02-Oct-18	0.115 L	18-Oct-18 17:12	. 1
FETS 27619-97-2 ND 2.98 5.43 8.69 U B810002 02-Oct-18 0.115 L 18-Oct-18 17:12	PFHpA	375-85-9	ND	2.98	5.43	8.69	U	B8J0002	02-Oct-18	0.115 L	18-Oct-18 17:12	1
PFOA 335-67-1 ND 2.98 5.43 8.69 U B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 PFTNA 375-92-8 ND 2.98 5.43 8.69 U B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 PFTNA 375-95-1 ND 2.98 5.43 8.69 U B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 PFOSA 754-91-6 ND 2.98 5.43 8.69 U B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 PFOSA 754-91-6 ND 2.98 5.43 8.69 U B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 PFOSA 335-76-2 ND 2.98 5.43 8.69 U B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 PFOSA 335-76-2 ND 2.98 5.43 8.69 U B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 PFOSA 335-76-2 ND 2.98 5.43 8.69 U B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 PFOSA 235-31-9 ND 2.98 5.43 8.69 U B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 PFOSA 235-31-9 ND 2.98 5.43 8.69 U B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 PFOSA 291-50-6 ND 2.98 5.43 8.69 U B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 PFOSA 291-50-6 ND 2.98 5.43 8.69 U B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 PFOSA 335-77-3 ND 2.98 5.43 8.69 U B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 PFOSA 335-77-3 ND 2.98 5.43 8.69 U B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 PFOSA 375-75 ND 2.98 5.43 8.69 U B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 PFOSA 375-0c-7 ND 2.98 5.43 8.69 U B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 PFOSA 375-0c-7 ND 2.98 5.43 8.69 U B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 PFOSA 375-0c-7 ND 2.98 5.43 8.69 U B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 PFOSA 375-0c-7 ND 2.98 5.43 8.69 U B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 PFOSA 375-0c-7 ND 2.98 5.43 8.69 U B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 PFOSA 375-0c-7 ND 2.98 5.43 8.69 U B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 PFOSA 375-0c-7 ND 2.98 5.43 8.69 U B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 PFOSA 375-0c-7 ND 2.98 5.43 8.69 U B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 PFOSA 375-0c-7 ND 2.98 5.43 8.69 U B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 PFOSA 375-0c-7 ND 2.98 5.43 8.69 U B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 PFOSA 385-0c-7 ND 2.98 5.43 8.69 U B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 PFOSA 385-0c-7 ND 2.98 5.43 8.69 U BRJ0002 02-O	PFHxS	355-46-4	ND	2.98	5.43	8.69	U	B8J0002	02-Oct-18	0.115 L	18-Oct-18 17:12	1
PFHpS	6:2 FTS	27619-97-2	ND	2.98	5.43	8.69	U	B8J0002	02-Oct-18	0.115 L	18-Oct-18 17:12	1
PFNA 375-95-1 ND 2.98 5.43 8.69 U B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 PFOS 1763-23-1 ND 2.98 5.43 8.69 U B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 PFOS 1763-23-1 ND 2.98 5.43 8.69 U B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 PFDA 335-76-2 ND 2.98 5.43 8.69 U B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 PFDA 335-76-2 ND 2.98 5.43 8.69 U B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 MeFOSAA 2355-31-9 ND 2.98 5.43 8.69 U B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 E1FOSAA 2991-50-6 ND 2.98 5.43 8.69 U B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 PFDA 258-335-73-3 ND 2.98 5.43 8.69 U B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 PFDA 307-55-1 ND 2.98 5.43 8.69 U B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 PFDA 307-55-1 ND 2.98 5.43 8.69 U B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 PFDA 307-55-1 ND 2.98 5.43 8.69 U B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 PFDA 376-06-7 ND 2.98 5.43 8.69 U B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 PFDA 376-06-7 ND 2.98 5.43 8.69 U B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 PFDA 376-06-7 ND 2.98 5.43 8.69 U B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 PFDA 376-06-7 ND 2.98 5.43 8.69 U B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 PFDA 376-06-7 ND 2.98 5.43 8.69 U B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 PFDA 376-06-7 ND 2.98 5.43 8.69 U B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 PFDA 376-06-7 ND 2.98 5.43 8.69 U B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 PFDA 376-06-7 ND 2.98 5.43 8.69 U B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 PFDA 376-06-7 ND 2.98 5.43 8.69 U B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 PFDA 376-06-7 ND 2.98 5.43 8.69 U B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 PFDA 376-06-7 ND 2.98 5.43 8.69 U B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 PFDA 376-06-7 ND 3.98 5.00 SPD 5.00	PFOA	335-67-1	ND	2.98	5.43	8.69	U	B8J0002	02-Oct-18	0.115 L	18-Oct-18 17:12	1
PFOSA 754-91-6 ND 2.98 5.43 8.69 U B810002 02-Oct-18 0.115 L 18-Oct-18 17:12 PFDS 1763-23-1 ND 2.98 5.43 8.69 U B810002 02-Oct-18 0.115 L 18-Oct-18 17:12 PFDA 335-76-2 ND 2.98 5.43 8.69 U B810002 02-Oct-18 0.115 L 18-Oct-18 17:12 PFDA 335-76-2 ND 2.98 5.43 8.69 U B810002 02-Oct-18 0.115 L 18-Oct-18 17:12 REFOSAA 2355-31-9 ND 2.98 5.43 8.69 U B810002 02-Oct-18 0.115 L 18-Oct-18 17:12 EIFOSAA 2991-50-6 ND 2.98 5.43 8.69 U B810002 02-Oct-18 0.115 L 18-Oct-18 17:12 PFUBA 2058-94-8 ND 2.98 5.43 8.69 U B810002 02-Oct-18 0.115 L 18-Oct-18 17:12 PFDS 335-77-3 ND 2.98 5.43 8.69 U B810002 02-Oct-18 0.115 L 18-Oct-18 17:12 PFDA 307-55-1 ND 2.98 5.43 8.69 U B810002 02-Oct-18 0.115 L 18-Oct-18 17:12 PFDA 307-55-1 ND 2.98 5.43 8.69 U B810002 02-Oct-18 0.115 L 18-Oct-18 17:12 PFTDA 307-55-1 ND 2.98 5.43 8.69 U B810002 02-Oct-18 0.115 L 18-Oct-18 17:12 PFTDA 376-06-7 ND 2.98 5.43 8.69 U B810002 02-Oct-18 0.115 L 18-Oct-18 17:12 PFTEDA 376-06-7 ND 2.98 5.43 8.69 U B810002 02-Oct-18 0.115 L 18-Oct-18 17:12 PFTEDA 376-06-7 ND 2.98 5.43 8.69 U B810002 02-Oct-18 0.115 L 18-Oct-18 17:12 Labeled Standards Type % Recovery Limits Qualifiers Bath Extracted Samp Size Analyzed Dit 13 PFTEDA 1S 96.0 50-150 B810002 02-Oct-18 0.115 L 18-Oct-18 17:12 13C3-PFBA 1S 96.7 50-150 B810002 02-Oct-18 0.115 L 18-Oct-18 17:12 13C2-PFBA 1S 96.9 50-150 B810002 02-Oct-18 0.115 L 18-Oct-18 17:12 13C2-PFBA 1S 96.9 50-150 B810002 02-Oct-18 0.115 L 18-Oct-18 17:12 13C2-PFDA 1S 96.1 50-150 B810002 02-Oct-18 0.115 L 18-Oct-18 17:12 13C2-PFDA 1S 96.1 50-150 B810002 02-Oct-18 0.115 L 18-Oct-18 17:12 13C	PFHpS	375-92-8	ND	2.98	5.43	8.69	U	B8J0002	02-Oct-18	0.115 L	18-Oct-18 17:12	1
PFOS 1763-23-1 ND 2.98 5.43 8.69 U B8J0002 02-0ct-18 0.115 L 18-Oct-18 17:12 82 FTS 39108-34-4 ND 2.98 5.43 8.69 U B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 MeFOSAA 2355-31-9 ND 2.98 5.43 8.69 U B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 EFOSAA 2991-50-6 ND 2.98 5.43 8.69 U B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 PFUAA 2058-94-8 ND 2.98 5.43 8.69 U B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 PFDA 307-55-1 ND 2.98 5.43 8.69 U B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 PFTDA 307-55-1 ND 2.98 5.43 8.69 U B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 PFTEDA 376-06-7<	PFNA	375-95-1	ND	2.98	5.43	8.69	U	B8J0002	02-Oct-18	0.115 L	18-Oct-18 17:12	1
PFDA 335-76-2 ND 2.98 5.43 8.69 U B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 8.2 FTS 39108-34-4 ND 2.98 5.43 8.69 U B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 EFOSAA 2355-31-9 ND 2.98 5.43 8.69 U B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 EFOSAA 2991-50-6 ND 2.98 5.43 8.69 U B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 PFUBA 2058-94-8 ND 2.98 5.43 8.69 U B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 PFDA 307-55-1 ND 2.98 5.43 8.69 U B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 PFTDA 76C9-94-8 ND 2.98 5.43 8.69 U B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 PFTEDA 75C	PFOSA	754-91-6	ND	2.98	5.43	8.69	U	B8J0002	02-Oct-18	0.115 L	18-Oct-18 17:12	1
R2 FTS	PFOS	1763-23-1	ND	2.98	5.43	8.69	U	B8J0002	02-Oct-18	0.115 L	18-Oct-18 17:12	. 1
MeFOSAA 2355-31-9 ND 2.98 5.43 8.69 U B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 EIFOSAA 2991-50-6 ND 2.98 5.43 8.69 U B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 PFUNA 2058-94-8 ND 2.98 5.43 8.69 U B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 PFDS 335-77-3 ND 2.98 5.43 8.69 U B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 PFDOA 307-55-1 ND 2.98 5.43 8.69 U B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 PFTDA 7262-94-8 ND 2.98 5.43 8.69 U B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 PFTDA 376-06-7 ND 2.98 5.43 8.69 U B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 PFTDA 376-06-7 ND 2.98 5.43 8.69 U B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 PFTDA 376-06-7 ND 2.98 5.43 8.69 U B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 PFTDA 376-06-7 ND 2.98 5.43 8.69 U B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 PFTDA 376-06-7 ND 2.98 5.43 8.69 U B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 PFTDA 376-06-7 ND 2.98 5.43 8.69 U B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 PFTDA 376-06-7 ND 2.98 5.43 8.69 U B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 PFTDA 376-06-7 ND 2.98 5.43 8.69 U BRJ0002 02-Oct-18 0.115 L 18-Oct-18 17:12 PFTDA 376-06-7 ND 376-06-7 ND 38J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 PFTDA 376-06-7 ND 376-06-7 ND 38J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 PFTDA 376-06-7 ND 376-06	PFDA	335-76-2	ND	2.98	5.43	8.69	U	B8J0002	02-Oct-18	0.115 L	18-Oct-18 17:12	. 1
EEFOSAA 2991-50-6 ND 2.98 5.43 8.69 U B8J0002 02-0ct-18 0.115 L 18-Oct-18 17:12 PFUNA 2058-94-8 ND 2.98 5.43 8.69 U B8J0002 20-Oct-18 0.115 L 18-Oct-18 17:12 PFDOA 335-77-3 ND 2.98 5.43 8.69 U B8J0002 20-Oct-18 0.115 L 18-Oct-18 17:12 PFDOA 307-55-1 ND 2.98 5.43 8.69 U B8J0002 20-Oct-18 0.115 L 18-Oct-18 17:12 PFTDA 72629-94-8 ND 2.98 5.43 8.69 U B8J0002 20-Oct-18 0.115 L 18-Oct-18 17:12 PFTEDA 376-06-7 ND 2.98 5.43 8.69 U B8J0002 20-Oct-18 0.115 L 18-Oct-18 17:12 Labeled Standards Type *Recovery Limits Qualifiers Batch Extracted Samp Size Analyzed Del-Tall 15.12 18-Oct-18 17:12 <	8:2 FTS	39108-34-4	ND	2.98	5.43	8.69	U	B8J0002	02-Oct-18	0.115 L	18-Oct-18 17:12	1
PFUnA 2058-94-8 ND 2.98 5.43 8.69 U B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12	MeFOSAA	2355-31-9	ND	2.98	5.43	8.69	U	B8J0002	02-Oct-18	0.115 L	18-Oct-18 17:12	1
PFDS 335-77-3 ND 2.98 5.43 8.69 U B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12	EtFOSAA	2991-50-6	ND	2.98	5.43	8.69	U	B8J0002	02-Oct-18	0.115 L	18-Oct-18 17:12	1
PFDOA 307-55-1 ND 2.98 5.43 8.69 U B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12	PFUnA	2058-94-8	ND	2.98	5.43	8.69	U	B8J0002	02-Oct-18	0.115 L	18-Oct-18 17:12	. 1
PFTrDA 72629-94-8 ND 2.98 5.43 8.69 U B8J0002 02-0ct-18 0.115 L 18-Oct-18 17:12 - 18-Dct-18 17:12 - 18-Dct	PFDS	335-77-3	ND	2.98	5.43	8.69	U	B8J0002	02-Oct-18	0.115 L	18-Oct-18 17:12	. 1
PFTEDA 376-06-7 ND 2.98 5.43 8.69 U B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12	PFDoA	307-55-1	ND	2.98	5.43	8.69	U	B8J0002	02-Oct-18	0.115 L	18-Oct-18 17:12	. 1
Labeled Standards Type % Recovery Limits Qualifiers Batch Extracted Samp Size Analyzed Dil	PFTrDA	72629-94-8	ND	2.98	5.43	8.69	U	B8J0002	02-Oct-18	0.115 L	18-Oct-18 17:12	1
13C3-PFBA IS 96.4 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 13C3-PFPeA IS 96.0 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 13C3-PFBS IS 96.7 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 13C2-PFHxA IS 96.9 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 13C2-PFHxA IS 96.9 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 13C2-PFHxA IS 95.3 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 13C2-PFHxS IS 98.0 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 13C2-PFOA IS 85.1 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 13C2-PFOA IS 85.1 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 13	PFTeDA	376-06-7	ND	2.98	5.43	8.69	U	B8J0002	02-Oct-18	0.115 L	18-Oct-18 17:12	. 1
13C3-PFPeA IS 96.0 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 13C3-PFBS IS 96.7 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 13C2-PFHxA IS 96.9 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 13C4-PFHpA IS 95.3 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 18O2-PFHxS IS 98.0 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 13C2-6:2 FTS IS 107 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 13C2-PFOA IS 85.1 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 13C8-PFOSA IS 77.9 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 13C8-PFOSA IS 16.1 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 13C2-PFDA IS 65.3 50 - 150 B8J0002 02-Oct-18	Labeled Standards	Туре	% Recovery		Limits		Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBS IS 96.7 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 13C2-PFHxA IS 96.9 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 13C4-PFHpA IS 95.3 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 18O2-PFHxS IS 98.0 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 13C2-6:2 FTS IS 107 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 13C2-PFOA IS 85.1 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 13C8-PFNA IS 77.9 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 13C8-PFOSA IS 16.1 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 13C2-PFDA IS 99.1 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 13C2-PFDA IS 65.3 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 13C2-8:2 FTS IS 112 50 - 150 B8J0002 02-Oct-18 0.115 L <	13C3-PFBA	IS	96.4		50 - 150			B8J0002	02-Oct-18	0.115 L	18-Oct-18 17:12	. 1
13C2-PFHxA IS 96.9 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 13C4-PFHpA IS 95.3 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 18O2-PFHxS IS 98.0 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 13C2-6:2 FTS IS 107 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 13C2-PFOA IS 85.1 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 13C5-PFNA IS 77.9 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 13C8-PFOSA IS 16.1 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 13C2-PFDA IS 99.1 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 13C2-PFDA IS 65.3 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 13C2-8:2 FTS IS 112 50 - 150 B8J0002 02-Oct-18	13C3-PFPeA	IS	96.0		50 - 150			B8J0002	02-Oct-18	0.115 L	18-Oct-18 17:12	. 1
13C4-PFHpA IS 95.3 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 18O2-PFHxS IS 98.0 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 13C2-6:2 FTS IS 107 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 13C2-PFOA IS 85.1 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 13C5-PFNA IS 77.9 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 13C8-PFOSA IS 16.1 50 - 150 H B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 13C2-PFDA IS 99.1 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 13C2-PFDA IS 65.3 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 13C2-8:2 FTS IS 112 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 d3-MeFOSAA IS 68.1 50 - 150 B8J0002 02-Oct-1	13C3-PFBS				50 - 150			B8J0002	02-Oct-18	0.115 L	18-Oct-18 17:12	. 1
18O2-PFHxS IS 98.0 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 13C2-6:2 FTS IS 107 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 13C2-PFOA IS 85.1 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 13C5-PFNA IS 77.9 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 13C8-PFOSA IS 16.1 50 - 150 H B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 13C2-PFOS IS 99.1 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 13C2-PFDA IS 65.3 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 13C2-8:2 FTS IS 112 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 d3-MeFOSAA IS 68.1 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 d5-EtFOSAA IS 69.4 50 - 150 B8J0002 02-Oct-1	13C2-PFHxA	IS	96.9		50 - 150			B8J0002	02-Oct-18	0.115 L	18-Oct-18 17:12	. 1
13C2-6:2 FTS IS 107 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 13C2-PFOA IS 85.1 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 13C5-PFNA IS 77.9 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 13C8-PFOSA IS 16.1 50 - 150 H B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 13C2-PFOA IS 99.1 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 13C2-PFDA IS 65.3 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 13C2-8:2 FTS IS 112 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 d3-MeFOSAA IS 68.1 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 d5-EtFOSAA IS 69.4 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12	13C4-PFHpA				50 - 150			B8J0002	02-Oct-18	0.115 L	18-Oct-18 17:12	1
13C2-PFOA IS 85.1 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 13C5-PFNA IS 77.9 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 13C8-PFOSA IS 16.1 50 - 150 H B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 13C8-PFOS IS 99.1 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 13C2-PFDA IS 65.3 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 13C2-8:2 FTS IS 112 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 d3-MeFOSAA IS 68.1 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 d5-EtFOSAA IS 69.4 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12	18O2-PFHxS	IS			50 - 150			B8J0002	02-Oct-18	0.115 L	18-Oct-18 17:12	. 1
13C5-PFNA IS 77.9 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 13C8-PFOSA IS 16.1 50 - 150 H B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 13C8-PFOS IS 99.1 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 13C2-PFDA IS 65.3 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 13C2-8:2 FTS IS 112 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 d3-MeFOSAA IS 68.1 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 d5-EtFOSAA IS 69.4 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12	13C2-6:2 FTS							B8J0002	02-Oct-18	0.115 L	18-Oct-18 17:12	. 1
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13C8-PFOS IS 99.1 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 13C2-PFDA IS 65.3 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 13C2-8:2 FTS IS 112 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 d3-MeFOSAA IS 68.1 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 d5-EtFOSAA IS 69.4 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12		IS			50 - 150			B8J0002	02-Oct-18	0.115 L	18-Oct-18 17:12	2 1
13C2-PFDA IS 65.3 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 13C2-8:2 FTS IS 112 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 d3-MeFOSAA IS 68.1 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 d5-EtFOSAA IS 69.4 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12		IS					Н		02-Oct-18	0.115 L	18-Oct-18 17:12	2 1
13C2-8:2 FTS IS 112 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 d3-MeFOSAA IS 68.1 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 d5-EtFOSAA IS 69.4 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12								B8J0002	02-Oct-18		18-Oct-18 17:12	. 1
d3-MeFOSAA IS 68.1 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 d5-EtFOSAA IS 69.4 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12	13C2-PFDA	IS			50 - 150			B8J0002	02-Oct-18	0.115 L	18-Oct-18 17:12	. 1
d5-EtFOSAA IS 69.4 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12								B8J0002			18-Oct-18 17:12	. 1
	d3-MeFOSAA	IS	68.1		50 - 150			B8J0002	02-Oct-18	0.115 L	18-Oct-18 17:12	. 1
13C2-PFUnA IS 66.2 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12	d5-EtFOSAA		69.4		50 - 150			B8J0002	02-Oct-18	0.115 L	18-Oct-18 17:12	. 1
	13C2-PFUnA	IS	66.2		50 - 150			B8J0002	02-Oct-18	0.115 L	18-Oct-18 17:12	. 1

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Sample ID: BP-TT-FRB08-20180918 PFAS Isotope Dilution Method

Client Data Laboratory Data

Name: Tetra Tech Matrix: QC Water Lab Sample: 1803122-01 Column: BEH C18

Project: Bethpage Date Collected: 18-Sep-18 07:30 Date Received: 21-Sep-18 09:09

% Recovery Limits **Labeled Standards** Type Qualifiers **Batch** Extracted Samp Size Analyzed Dilution IS 13C2-PFDoA 64.2 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 13C2-PFTeDA IS 71.8 50 - 150 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12

DL - Detection Limit LOD - Limit of Detection

LOQ - Limit of quantitation

Results reported to the DL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

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Sample ID: BP-TT-FRB09-20180919 PFAS Isotope Dilution Method Client Data Laboratory Data Name: Tetra Tech Matrix: OC Water Lab Sample: 1803122-02 Column: BEH C18 Project: Date Collected: 19-Sep-18 09:30 Bethpage Date Received: 21-Sep-18 09:09 Conc. (ng/L) DLLOD LOQ Batch Extracted Samp Size **CAS Number Qualifiers** Analyzed Dilution Analyte U **PFBA** 375-22-4 ND 2.84 5.21 8.30 B8J0002 02-Oct-18 0.120 L 18-Oct-18 17:23 **PFPeA** 2706-90-3 ND 5.21 8.30 U B8J0002 2.84 02-Oct-18 0.120 L 18-Oct-18 17:23 **PFBS** U 375-73-5 ND 2.84 5.21 8.30 B8J0002 02-Oct-18 0.120 L 18-Oct-18 17:23 307-24-4 ND 5.21 U **PFHxA** 2.84 8.30 B8J0002 02-Oct-18 0.120 L 18-Oct-18 17:23 5.21 U **PFHpA** 375-85-9 ND 2.84 8.30 B8J0002 02-Oct-18 0.120 L 18-Oct-18 17:23 **PFHxS** 355-46-4 ND 2.84 5.21 8.30 U B8J0002 02-Oct-18 0.120 L 18-Oct-18 17:23 U 6:2 FTS 27619-97-2 ND 2.84 5.21 8.30 B8J0002 02-Oct-18 0.120 L 18-Oct-18 17:23 **PFOA** U 335-67-1 ND 2.84 5.21 8.30 B8J0002 02-Oct-18 0.120 L 18-Oct-18 17:23 375-92-8 2.84 5.21 8.30 U **PFHpS** ND B8J0002 02-Oct-18 0.120 L 18-Oct-18 17:23 PFNA 375-95-1 ND 2.84 5.21 U B8J0002 02-Oct-18 0.120 L 8.30 18-Oct-18 17:23 **PFOSA** 754-91-6 ND 2.84 5.21 8.30 U B8J0002 02-Oct-18 0.120 L 18-Oct-18 17:23 **PFOS** 1763-23-1 ND 2.84 5.21 U B8J0002 02-Oct-18 8.30 0.120 L 18-Oct-18 17:23 1 **PFDA** 335-76-2 ND 2.84 5.21 8.30 U B8J0002 02-Oct-18 0.120 L 18-Oct-18 17:23 8:2 FTS 39108-34-4 2.84 5.21 8.30 U B8J0002 02-Oct-18 0.120 L ND 18-Oct-18 17:23 MeFOSAA 2355-31-9 ND 2.84 5.21 8.30 U 0.120 L B8J0002 02-Oct-18 18-Oct-18 17:23 **EtFOSAA** 2991-50-6 ND 2.84 5.21 8.30 U B8J0002 02-Oct-18 0.120 L 18-Oct-18 17:23 ND 2.84 5.21 U **PFUnA** 2058-94-8 8.30 B8J0002 02-Oct-18 0.120 L 18-Oct-18 17:23 **PFDS** 335-77-3 ND 2.84 5.21 8.30 U B8J0002 02-Oct-18 0.120 L 18-Oct-18 17:23 2.84 5.21 8.30 U 02-Oct-18 **PFDoA** 307-55-1 ND B8J0002 0.120 L 18-Oct-18 17:23 **PFTrDA** 72629-94-8 ND 2.84 5.21 8.30 U B8J0002 02-Oct-18 0.120 L 18-Oct-18 17:23 U **PFTeDA** 376-06-7 ND 2.84 5.21 8.30 B8J0002 02-Oct-18 0.120 L 18-Oct-18 17:23 Dilution **Labeled Standards** Type % Recovery Limits Qualifiers **Batch** Extracted Samp Size Analyzed 13C3-PFBA IS 97.8 50 - 150 B8J0002 02-Oct-18 0.120 L 18-Oct-18 17:23 1 13C3-PFPeA IS 96.5 50 - 150 B8J0002 02-Oct-18 0.120 L 18-Oct-18 17:23 13C3-PFBS IS 96.0 50 - 150 B8J0002 02-Oct-18 0.120 L 18-Oct-18 17:23 1 IS 93.8 50 - 150 B8J0002 13C2-PFHxA 02-Oct-18 0.120 L 18-Oct-18 17:23 IS 13C4-PFHpA 94.3 50 - 150 B8J0002 02-Oct-18 0.120 L 18-Oct-18 17:23 IS 18O2-PFHxS 99.2 50 - 150 B8J0002 02-Oct-18 0.120 L 18-Oct-18 17:23 IS 99.9 13C2-6:2 FTS 50 - 150 B8J0002 02-Oct-18 0.120 L 18-Oct-18 17:23 13C2-PFOA IS 85.8 50 - 150 B8J0002 02-Oct-18 0.120 L 18-Oct-18 17:23 IS 13C5-PFNA 80.9 50 - 150 B8J0002 02-Oct-18 0.120 L 18-Oct-18 17:23 13C8-PFOSA IS 20.8 50 - 150 Η B8J0002 02-Oct-18 0.120 L 18-Oct-18 17:23 IS 13C8-PFOS 90.9 50 - 150 B8J0002 02-Oct-18 0.120 L 18-Oct-18 17:23 1 13C2-PFDA IS 66.2 50 - 150 B8J0002 02-Oct-18 0.120 L 18-Oct-18 17:23 1

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50 - 150

50 - 150

50 - 150

50 - 150

B8J0002

B8J0002

B8J0002

B8J0002

02-Oct-18

02-Oct-18

02-Oct-18

02-Oct-18

0.120 L

0.120 L

0.120 L

0.120 L

18-Oct-18 17:23

18-Oct-18 17:23

18-Oct-18 17:23

18-Oct-18 17:23

1

1

13C2-8:2 FTS

d3-MeFOSAA

d5-EtFOSAA

13C2-PFUnA

IS

IS

IS

IS

103

70.0

73.1

60.1



Sample ID: BP-TT-FRB09-20180919 PFAS Isotope Dilution Method

Client Data Laboratory Data

Lab Sample: Name: Tetra Tech Matrix: QC Water 1803122-02 Column: BEH C18

Date Collected: 19-Sep-18 09:30 Project: Bethpage Date Received: 21-Sep-18 09:09

% Recovery Limits **Labeled Standards** Type Qualifiers **Batch** Extracted Samp Size Analyzed Dilution IS 13C2-PFDoA 65.3 50 - 150 B8J0002 02-Oct-18 0.120 L 18-Oct-18 17:23 13C2-PFTeDA IS 71.4 50 - 150 B8J0002 02-Oct-18 0.120 L 18-Oct-18 17:23

DL - Detection Limit

LOD - Limit of Detection LOQ - Limit of quantitation

Results reported to the DL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

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Sample ID: BP-TT-FRB10-20180920 PFAS Isotope Dilution Method Client Data Laboratory Data Name: Tetra Tech Matrix: QC Water Lab Sample: 1803122-03 Column: BEH C18 Project: Date Collected: 20-Sep-18 09:30 Bethpage Date Received: 21-Sep-18 09:09 Conc. (ng/L) DLLOD LOQ Batch Extracted Samp Size **CAS Number Qualifiers** Analyzed Dilution Analyte U **PFBA** 375-22-4 ND 2.93 5.34 8.56 B8J0002 02-Oct-18 0.117 L 18-Oct-18 17:34 **PFPeA** 2706-90-3 ND 2.93 5.34 8.56 U B8J0002 02-Oct-18 0.117 L 18-Oct-18 17:34 **PFBS** 5.34 U 375-73-5 ND 2.93 8.56 B8J0002 02-Oct-18 0.117 L 18-Oct-18 17:34 307-24-4 ND 2.93 5.34 U **PFHxA** 8.56 B8J0002 02-Oct-18 0.117 L 18-Oct-18 17:34 5.34 U **PFHpA** 375-85-9 ND 2.93 8.56 B8J0002 02-Oct-18 0.117 L 18-Oct-18 17:34 **PFHxS** 355-46-4 ND 2.93 5.34 8.56 U B8J0002 02-Oct-18 0.117 L18-Oct-18 17:34 6:2 FTS 27619-97-2 ND 2.93 5.34 8.56 U B8J0002 02-Oct-18 0.117 L 18-Oct-18 17:34 **PFOA** U 335-67-1 ND 2.93 5.34 8.56 B8J0002 02-Oct-18 0.117 L 18-Oct-18 17:34 1 375-92-8 2.93 5.34 8.56 U **PFHpS** ND B8J0002 02-Oct-18 0.117 L 18-Oct-18 17:34 PFNA 375-95-1 ND 2.93 5.34 8.56 U B8J0002 02-Oct-18 0.117 L 18-Oct-18 17:34 1 **PFOSA** 754-91-6 ND 2.93 5.34 8.56 U B8J0002 02-Oct-18 0.117 L 18-Oct-18 17:34 **PFOS** 1763-23-1 ND 5.34 U B8J0002 02-Oct-18 2.93 8.56 0.117 L 18-Oct-18 17:34 **PFDA** 335-76-2 ND 2.93 5.34 8.56 U B8J0002 02-Oct-18 0.117 L 18-Oct-18 17:34 8:2 FTS 39108-34-4 2.93 5.34 8.56 U B8J0002 02-Oct-18 0.117 L ND 18-Oct-18 17:34 MeFOSAA 2355-31-9 ND 2.93 5.34 8.56 U B8J0002 02-Oct-18 0.117 L 18-Oct-18 17:34 **EtFOSAA** 2991-50-6 ND 2.93 5.34 8.56 U B8J0002 02-Oct-18 0.117 L 18-Oct-18 17:34 ND 2.93 5.34 U **PFUnA** 2058-94-8 8.56 B8J0002 02-Oct-18 0.117 L 18-Oct-18 17:34 **PFDS** 335-77-3 ND 2.93 5.34 8.56 U B8J0002 02-Oct-18 0.117 L 18-Oct-18 17:34 2.93 8.56 U 02-Oct-18 **PFDoA** 307-55-1 ND 5.34 B8J0002 0.117 L 18-Oct-18 17:34 **PFTrDA** 72629-94-8 ND 2.93 5.34 8.56 U B8J0002 02-Oct-18 0.117 L 18-Oct-18 17:34 U **PFTeDA** 376-06-7 ND 2.93 5.34 8.56 B8J0002 02-Oct-18 0.117 L 18-Oct-18 17:34 **Labeled Standards** Type % Recovery Limits Qualifiers **Batch** Extracted Samp Size Analyzed Dilution 13C3-PFBA IS 98.3 50 - 150 B8J0002 02-Oct-18 0.117 L 18-Oct-18 17:34 1 13C3-PFPeA IS 96.6 50 - 150 B8J0002 02-Oct-18 0.117 L 18-Oct-18 17:34 13C3-PFBS IS 98.0 50 - 150 B8J0002 02-Oct-18 0.117 L 18-Oct-18 17:34 1 IS 98.3 50 - 150 B8J0002 13C2-PFHxA 02-Oct-18 0.117 L 18-Oct-18 17:34 IS 13C4-PFHpA 93.6 50 - 150 B8J0002 02-Oct-18 0.117 L 18-Oct-18 17:34 IS 18O2-PFHxS 101 50 - 150 B8J0002 02-Oct-18 0.117 L 18-Oct-18 17:34 IS 109 13C2-6:2 FTS 50 - 150 B8J0002 02-Oct-18 0.117 L 18-Oct-18 17:34 IS 13C2-PFOA 90.1 50 - 150 B8J0002 02-Oct-18 0.117 L 18-Oct-18 17:34 IS 13C5-PFNA 81.6 50 - 150 B8J0002 02-Oct-18 0.117 L 18-Oct-18 17:34 13C8-PFOSA IS 25.5 50 - 150 Η B8J0002 02-Oct-18 0.117 L 18-Oct-18 17:34 IS 13C8-PFOS 105 50 - 150 B8J0002 02-Oct-18 0.117 L 18-Oct-18 17:34 1 13C2-PFDA IS 67.5 50 - 150 B8J0002 02-Oct-18 0.117 L 18-Oct-18 17:34 13C2-8:2 FTS IS 102 50 - 150 B8J0002 02-Oct-18 0.117 L 18-Oct-18 17:34 1 d3-MeFOSAA IS 79.5 50 - 150 B8J0002 02-Oct-18 0.117 L 18-Oct-18 17:34 d5-EtFOSAA IS 85.6 50 - 150 B8J0002 02-Oct-18 0.117 L 18-Oct-18 17:34 1 13C2-PFUnA IS 68.5 50 - 150 B8J0002 02-Oct-18 0.117 L 18-Oct-18 17:34

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Sample ID: BP-TT-FRB10-20180920 PFAS Isotope Dilution Method

Client Data Laboratory Data

Name: Tetra Tech Matrix: QC Water Lab Sample: 1803122-03 Column: BEH C18

Project: Bethpage Date Collected: 20-Sep-18 09:30 Date Received: 21-Sep-18 09:09

% Recovery Limits **Labeled Standards** Type Qualifiers **Batch** Extracted Samp Size Analyzed Dilution IS 13C2-PFDoA 73.1 50 - 150 B8J0002 02-Oct-18 0.117 L 18-Oct-18 17:34 13C2-PFTeDA IS 76.9 50 - 150 B8J0002 02-Oct-18 0.117 L 18-Oct-18 17:34

DL - Detection Limit LOD - Limit of Detection

LOQ - Limit of quantitation

Results reported to the DL.

When reported, PFHxS, PFOA, PFOS, MeFOSAA and EtFOSAA include both linear and branched isomers. Only the linear isomer is reported for all other analytes.

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Appendix C

Support Documents

A. Documents Supporting Qualifications



Sample ID: BP-TT-FRB08-20180918 PFAS Isotope Dilution Method Client Data Laboratory Data Name: Tetra Tech Matrix: QC Water Lab Sample: 1803122-01 Column: BEH C18 Project: Bethpage Date Collected: 18-Sep-18 07:30 Date Received: 21-Sep-18 09:09 Conc. (ng/L) DLLOD LOQ **Batch** Extracted Samp Size **CAS Number Qualifiers** Dilution Analyte Analyzed U **PFBA** 375-22-4 ND 2.98 5.43 8.69 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 **PFPeA** 2706-90-3 ND 8.69 U B8J0002 02-Oct-18 2.98 5.43 0.115 L 18-Oct-18 17:12 PFBS U 375-73-5 ND 2.98 5.43 8.69 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 307-24-4 ND 5.43 U **PFHxA** 2.98 8.69 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 5.43 U **PFHpA** 375-85-9 ND 2.98 8.69 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 **PFHxS** 355-46-4 ND 2.98 5.43 8.69 U B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 U 6:2 FTS 27619-97-2 ND 2.98 5.43 8.69 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 PFOA U 335-67-1 ND 2.98 5.43 8.69 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 1 375-92-8 2.98 5.43 8.69 U **PFHpS** ND B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 PFNA 375-95-1 ND 5.43 8.69 U B8J0002 02-Oct-18 0.115 L 2.98 18-Oct-18 17:12 1 **PFOSA** 754-91-6 ND 2.98 5.43 8.69 U B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 **PFOS** 1763-23-1 ND 5.43 8.69 U B8J0002 02-Oct-18 2.98 0.115 L 18-Oct-18 17:12 1 PFDA 335-76-2 ND 2.98 5.43 8.69 U B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 8:2 FTS 39108-34-4 5.43 8.69 U B8J0002 02-Oct-18 0.115 L ND 2.98 18-Oct-18 17:12 1 MeFOSAA 2355-31-9 ND 2.98 5.43 8.69 U B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 **EtFOSAA** 2991-50-6 ND 2.98 5.43 8.69 U B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 ND 5.43 U **PFUnA** 2058-94-8 2.98 8.69 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 PFDS 335-77-3 ND 2.98 5.43 8.69 U B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 ND 2.98 U PFDoA 307-55-1 5.43 8.69 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 **PFTrDA** 72629-94-8 ND 2.98 5.43 8.69 U B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12 U PFTeDA 376-06-7 ND 2.98 5.43 8.69 B8J0002 02-Oct-18 0.115 L 18-Oct-18 17:12

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	96.4	50 - 150		B8J0002	02-Oct-18	0.115 L	18-Oct-18 17:12	1
13C3-PFPeA	IS	96.0	50 - 150		B8J0002	02-Oct-18	0.115 L	18-Oct-18 17:12	. 1
13C3-PFBS	IS	96.7	50 - 150		B8J0002	02-Oct-18	0.115 L	18-Oct-18 17:12	. 1
13C2-PFHxA	IS	96.9	50 - 150		B8J0002	02-Oct-18	0.115 L	18-Oct-18 17:12	. 1
13C4-PFHpA	IS	95.3	50 - 150		B8J0002	02-Oct-18	0.115 L	18-Oct-18 17:12	. 1
18O2-PFHxS	IS	98.0	50 - 150		B8J0002	02-Oct-18	0.115 L	18-Oct-18 17:12	. 1
13C2-6:2 FTS	IS	107	50 - 150		B8J0002	02-Oct-18	0.115 L	18-Oct-18 17:12	. 1
13C2-PFOA	IS	85.1	50 - 150		B8J0002	02-Oct-18	0.115 L	18-Oct-18 17:12	. 1
13C5-PFNA	IS	77.9	50 - 150		B8J0002	02-Oct-18	0.115 L	18-Oct-18 17:12	. 1
13C8-PFOSA	IS	16.1	50 - 150	H	B8J0002	02-Oct-18	0.115 L	18-Oct-18 17:12	. 1
13C8-PFOS	IS	99.1	50 - 150		B8J0002	02-Oct-18	0.115 L	18-Oct-18 17:12	1
13C2-PFDA	IS	65.3	50 - 150		B8J0002	02-Oct-18	0.115 L	18-Oct-18 17:12	. 1
13C2-8:2 FTS	IS	112	50 - 150		B8J0002	02-Oct-18	0.115 L	18-Oct-18 17:12	. 1
d3-MeFOSAA	IS	68.1	50 - 150		B8J0002	02-Oct-18	0.115 L	18-Oct-18 17:12	. 1
d5-EtFOSAA	IS	69.4	50 - 150		B8J0002	02-Oct-18	0.115 L	18-Oct-18 17:12	1
13C2-PFUnA	IS	66.2	50 - 150		B8J0002	02-Oct-18	0.115 L	18-Oct-18 17:12	. 1
									,

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Sample ID: BP-TT-FRB09-20180919 PFAS Isotope Dilution Method Client Data Laboratory Data Name: Tetra Tech Matrix: QC Water Lab Sample: 1803122-02 Column: BEH C18 Project: Bethpage Date Collected: 19-Sep-18 09:30 Date Received: 21-Sep-18 09:09 Conc. (ng/L) DLLOD LOQ Batch Extracted Samp Size **CAS Number Qualifiers** Dilution Analyte Analyzed U **PFBA** 375-22-4 ND 2.84 5.21 8.30 B8J0002 02-Oct-18 0.120 L 18-Oct-18 17:23 **PFPeA** 2706-90-3 ND 5.21 8.30 U B8J0002 02-Oct-18 2.84 0.120 L 18-Oct-18 17:23 PFBS U 375-73-5 ND 2.84 5.21 8.30 B8J0002 02-Oct-18 0.120 L 18-Oct-18 17:23 307-24-4 ND 5.21 U **PFHxA** 2.84 8.30 B8J0002 02-Oct-18 0.120 L 18-Oct-18 17:23 5.21 U **PFHpA** 375-85-9 ND 2.84 8.30 B8J0002 02-Oct-18 0.120 L 18-Oct-18 17:23 **PFHxS** 355-46-4 ND 2.84 5.21 8.30 U B8J0002 02-Oct-18 0.120 L 18-Oct-18 17:23 6:2 FTS 27619-97-2 ND 2.84 5.21 8.30 U B8J0002 02-Oct-18 0.120 L 18-Oct-18 17:23 PFOA U 335-67-1 ND 2.84 5.21 8.30 B8J0002 02-Oct-18 0.120 L 18-Oct-18 17:23 1 375-92-8 2.84 5.21 8.30 U **PFHpS** ND B8J0002 02-Oct-18 0.120 L 18-Oct-18 17:23 PFNA 375-95-1 ND 2.84 5.21 U B8J0002 02-Oct-18 0.120 L 8.30 18-Oct-18 17:23 1 **PFOSA** 754-91-6 ND 2.84 5.21 8.30 U B8J0002 02-Oct-18 0.120 L 18-Oct-18 17:23 **PFOS** 1763-23-1 ND 2.84 5.21 U B8J0002 02-Oct-18 8.30 0.120 L 18-Oct-18 17:23 1 **PFDA** 335-76-2 ND 2.84 5.21 8.30 U B8J0002 02-Oct-18 0.120 L 18-Oct-18 17:23 8:2 FTS 39108-34-4 2.84 5.21 U B8J0002 02-Oct-18 0.120 L ND 8.30 18-Oct-18 17:23 1 MeFOSAA 2355-31-9 ND 2.84 5.21 8.30 U B8J0002 0.120 L 02-Oct-18 18-Oct-18 17:23 **EtFOSAA** 2991-50-6 ND 2.84 5.21 8.30 U B8J0002 02-Oct-18 0.120 L 18-Oct-18 17:23 ND 2.84 5.21 U **PFUnA** 2058-94-8 8.30 B8J0002 02-Oct-18 0.120 L 18-Oct-18 17:23 PFDS 335-77-3 ND 2.84 5.21 8.30 U B8J0002 02-Oct-18 0.120 L 18-Oct-18 17:23 2.84 5.21 8.30 U PFDoA 307-55-1 ND B8J0002 02-Oct-18 0.120 L 18-Oct-18 17:23 **PFTrDA** 72629-94-8 ND 2.84 5.21 8.30 U B8J0002 02-Oct-18 0.120 L 18-Oct-18 17:23 U **PFTeDA** 376-06-7 ND 2.84 5.21 8.30 B8J0002 02-Oct-18 0.120 L 18-Oct-18 17:23

Labeled Standards	Туре	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C3-PFBA	IS	97.8	50 - 150		B8J0002	02-Oct-18	0.120 L	18-Oct-18 17:23	1
13C3-PFPeA	IS	96.5	50 - 150		B8J0002	02-Oct-18	0.120 L	18-Oct-18 17:23	1
13C3-PFBS	IS	96.0	50 - 150		B8J0002	02-Oct-18	0.120 L	18-Oct-18 17:23	1
13C2-PFHxA	IS	93.8	50 - 150		B8J0002	02-Oct-18	0.120 L	18-Oct-18 17:23	1
13C4-PFHpA	IS	94.3	50 - 150		B8J0002	02-Oct-18	0.120 L	18-Oct-18 17:23	1
18O2-PFHxS	IS	99.2	50 - 150		B8J0002	02-Oct-18	0.120 L	18-Oct-18 17:23	1
13C2-6:2 FTS	IS	99.9	50 - 150		B8J0002	02-Oct-18	0.120 L	18-Oct-18 17:23	1
13C2-PFOA	IS	85.8	50 - 150		B8J0002	02-Oct-18	0.120 L	18-Oct-18 17:23	1
13C5-PFNA	IS	80.9	50 - 150		B8J0002	02-Oct-18	0.120 L	18-Oct-18 17:23	1
13C8-PFOSA	(IS)	20.8	50 - 150	H	B8J0002	02-Oct-18	0.120 L	18-Oct-18 17:23	1
13C8-PFOS	IS	90.9	50 - 150		B8J0002	02-Oct-18	0.120 L	18-Oct-18 17:23	1
13C2-PFDA	IS	66.2	50 - 150		B8J0002	02-Oct-18	0.120 L	18-Oct-18 17:23	1
13C2-8:2 FTS	IS	103	50 - 150		B8J0002	02-Oct-18	0.120 L	18-Oct-18 17:23	1
d3-MeFOSAA	IS	70.0	50 - 150		B8J0002	02-Oct-18	0.120 L	18-Oct-18 17:23	1
d5-EtFOSAA	IS	73.1	50 - 150		B8J0002	02-Oct-18	0.120 L	18-Oct-18 17:23	1
13C2-PFUnA	IS	60.1	50 - 150		B8J0002	02-Oct-18	0.120 L	18-Oct-18 17:23	1

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Sample ID: BP-TT-FRB10-2	0180920								PFAS Iso	tope Dilution N	Method
Client Data					Labo	oratory Data					
Name: Tetra Tech		Matrix:	QC V	Vater	Lab	Sample:	1803122-0)3	Column:	BEH C18	
Project: Bethpage		Date Coll	ected: 20-S	ep-18 09:30	Date	Received:	21-Sep-18	3 09:09			
Analyte	CAS Number	Conc. (ng/L)	DL	LOD	LOQ	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	ND	2.93	5.34	8.56	U	B8J0002	02-Oct-18	0.117 L	18-Oct-18 17:34	1
PFPeA	2706-90-3	ND	2.93	5.34	8.56	U	B8J0002	02-Oct-18	0.117 L	18-Oct-18 17:34	
PFBS	375-73-5	ND	2.93	5.34	8.56	U	B8J0002	02-Oct-18	0.117 L	18-Oct-18 17:34	
PFHxA	307-24-4	ND	2.93	5.34	8.56	U	B8J0002	02-Oct-18	0.117 L	18-Oct-18 17:34	
PFHpA	375-85-9	ND	2.93	5.34	8.56	U	B8J0002	02-Oct-18	0.117 L	18-Oct-18 17:34	
PFHxS	355-46-4	ND	2.93	5.34	8.56	U	B8J0002	02-Oct-18	0.117 L	18-Oct-18 17:34	
6:2 FTS	27619-97-2	ND	2.93	5.34	8.56	U	B8J0002	02-Oct-18	0.117 L	18-Oct-18 17:34	
PFOA	335-67-1	ND	2.93	5.34	8.56	U	B8J0002	02-Oct-18	0.117 L	18-Oct-18 17:34	
PFHpS	375-92-8	ND	2.93	5.34	8.56	U	B8J0002	02-Oct-18	0.117 L	18-Oct-18 17:34	
PFNA	375-95-1	ND	2.93	5.34	8.56	U	B8J0002	02-Oct-18	0.117 L	18-Oct-18 17:34	
PFOSA	754-91-6	ND	2.93	5.34	8.56	U	B8J0002	02-Oct-18	0.117 L	18-Oct-18 17:34	
PFOS	1763-23-1	ND	2.93	5.34	8.56	U	B8J0002	02-Oct-18	0.117 L	18-Oct-18 17:34	
PFDA	335-76-2	ND	2.93	5.34	8.56	U	B8J0002	02-Oct-18	0.117 L	18-Oct-18 17:34	
8:2 FTS	39108-34-4	ND	2.93	5.34	8.56	U	B8J0002	02-Oct-18	0.117 L	18-Oct-18 17:34	
MeFOSAA	2355-31-9	ND	2.93	5.34	8.56	U	B8J0002	02-Oct-18	0.117 L	18-Oct-18 17:34	
EtFOSAA	2991-50-6	ND	2.93	5.34	8.56	U	B8J0002	02-Oct-18	0.117 L	18-Oct-18 17:34	
PFUnA	2058-94-8	ND	2.93	5.34	8.56	U	B8J0002	02-Oct-18	0.117 L	18-Oct-18 17:34	
PFDS	335-77-3	ND	2.93	5.34	8.56	U	B8J0002	02-Oct-18	0.117 L	18-Oct-18 17:34	
PFDoA	307-55-1	ND	2.93	5.34	8.56	U	B8J0002	02-Oct-18	0.117 L	18-Oct-18 17:34	
PFTrDA	72629-94-8	ND	2.93	5.34	8.56	U	B8J0002	02-Oct-18	0.117 L	18-Oct-18 17:34	
PFTeDA	376-06-7	ND	2.93	5.34	8.56	U	B8J0002	02-Oct-18	0.117 L	18-Oct-18 17:34	
Labeled Standards	Туре	% Recovery	2.55	Limits	0.00	Qualifiers	Batch	Extracted	Samp Size		Dilution
13C3-PFBA	IS	98.3		50 - 150			B8J0002	02-Oct-18	0.117 L	18-Oct-18 17:34	1
13C3-PFPeA	IS	96.6		50 - 150			B8J0002	02-Oct-18	0.117 L	18-Oct-18 17:34	
13C3-PFBS	IS	98.0		50 - 150			B8J0002	02-Oct-18	0.117 L	18-Oct-18 17:34	
13C2-PFHxA	IS	98.3		50 - 150			B8J0002	02-Oct-18	0.117 L	18-Oct-18 17:34	
13C4-PFHpA	IS	93.6		50 - 150			B8J0002	02-Oct-18	0.117 L	18-Oct-18 17:34	
18O2-PFHxS	IS	101		50 - 150			B8J0002	02-Oct-18	0.117 L	18-Oct-18 17:34	
13C2-6:2 FTS	IS	109		50 - 150			B8J0002	02-Oct-18	0.117 L	18-Oct-18 17:34	
13C2-PFOA	IS	90.1		50 - 150				02-Oct-18		18-Oct-18 17:34	
13C5-PFNA	IS	81.6		50 - 150			B8J0002	02-Oct-18	0.117 L	18-Oct-18 17:34	
13C8-PFOSA	IS	25.5		50 - 150		H	B8J0002	02-Oct-18	0.117 L	18-Oct-18 17:34	
13C8-PFOS	IS	105		50 - 150			B8J0002	02-Oct-18	0.117 L	18-Oct-18 17:34	
13C2-PFDA	IS	67.5		50 - 150			B8J0002	02-Oct-18	0.117 L	18-Oct-18 17:34	
13C2-8:2 FTS	IS	102		50 - 150			B8J0002	02-Oct-18	0.117 L	18-Oct-18 17:34	
d3-MeFOSAA	IS	79.5		50 - 150			B8J0002	02-Oct-18	0.117 L	18-Oct-18 17:34	
d5-EtFOSAA	IS	85.6		50 - 150			B8J0002	02-Oct-18	0.117 L 0.117 L	18-Oct-18 17:34 18-Oct-18 17:34	
13C2-PFUnA	IS	68.5		50 - 150			B8J0002	02-Oct-18	0.117 L	18-Oct-18 17:34	
1502 11 011/1	15	00.5		30 - 130			D030002	02-001-10	0.11/ L	10-061-10 17.34	1

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Appendix C

Support Documents

B. Chain of Custody (COC)

Chain of Custody Record

l Dorado Hills, CA 95762 116) 673-1520 • Fax (916)673-0106	Regu	latory Pro	ogram:	bw 🗆	NPDES		□RCRA	☑Dthe	, .		1	80	3	16	26	2	Vista 6,0°
Client Contact	Project Ma					Sit	te Contact:			,	IDa	te:	-	, ,			Vista Analytical Laborator
etraTech	Tel/Fax: (7	57) 466-49	09			+-	b Contact:						FedEx				Page 1 of 1
00 Lake Wright Dr Suite 102			urnaround			П			TT	TT		П		T		\Box	Chuck Meyer
orfolk, VA 23502	□ CALENDAR			ING DAYS		1	(N	0				1					For Lab Use Only:
57) 466-4909			ent from Belov	v 21		12	Comp Fed										Walk-in Client:
oject Name: Bethpage	1 5	2 we				5		17									Lab Sampling:
te:		2 da				ample (Y	MSE Mod	×	1						11		Job / SDG No.:
0#		1 da	y			를	SDE 537		mar I								300 / 3DG NO.:
Sample Identification	Sample Date	Sample Time	Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered S	Perform MS / MSD (Y / N) PFAS (NYSDEC 21-Compound List) EPA 537 Modified	र्था ८									Samula Samifa Nata
₩ BP-TT-FRB08-20180918	9/18/2018	7:30	G	QC	2	N	****					Ħ					Sample Specific Notes: Field Reagent Blank
• BPSI-TT-MW301S-20180918	9/18/2018	10:45	G	GW	2	N	N X	*	TT	+	+	$\dagger \dagger$	\top	\forall	+	+	
BB-TT-DUP05-20180918	9/18/2018	12:00	G	QC	2	Ν	N X	9	11	11	\top	T	\top	\top	+		Duplicate
BP-HN-MW27I-20180918	9/18/2018	8:55	G	GW	2	N	N X	-/			+	H	\top	+	$\dagger \dagger$	+	
BPSI-TT-MW301D-20180918	9/18/2018	12:10	G	GW	2	N	N X	1		11	1	\Box	\top	\top	\forall	-	
BPSI-TT-MW301I-20180918	9/18/2018	10:40	G	GW	2	N	N X	7		11	T	T			+	+	
a BP-MH-SW4001-20180918	9/18/2018	12:15	G	GW	2	N	N X	1	$\dagger \dagger$	$\top \top$	+		\top	\vdash	+	+	
₂ BP-TT-SW4004-20180918	9/18/2018	12:50	G	GW	2	N	N X	1	\Box	11	\top	\Box	\top	\top	\forall	+	
6 BP-TT-SW4002-20180918	9/18/2018	13:20	G	GW	2	N	N X	V			\top	П			\top		
BPSI-TT-MW312I-20180918	9/18/2018	16:00	G	GW	2	N	N X	1		11	\top	\Box			77	1	
* BPSI-TT-MW312S-20180918	9/18/2018	15:25	G	GW	2	N	N X	V		\Box	T	П		\top	\top		
₩ BP-TT-FRB09-20180919	9/19/2019	9:30	G	QC	2	N	N X										Field Reagent Blank
* BPSI-TT-MW310S-20180919	9/19/2018	10:30	G	GW	2	N	их	7				П			П		
BPSI-TT-MW311S-20180919	9/19/2018	11:10	G -	GW	2	N	N X	V									
BPSI-TT-MW311I-20180919	9/19/2018	11:10	G	GW	6	N	Y X	1						T			
a BPSI-TT-MW314S-20180919	9/19/2018	14:40	G	GW	2	N	N X	. 1							\Box	7	
BPSI-TT-MW314D-20180919	9/19/2018	16:20	G	GW	2	N	N X	1	1		1				\Box		
• BP-TT-EB03-20180919	9/19/2018	15:00	G	AQ	2	N	Y X	V				П	\top		11	1	
BPSI-TT-MW313S-2018020	9/20/2018	9:45	G	GW	2	N	N X	-/									
» BB-TT-DUP06-20180920	9/20/2018	12:00	G	GW	2	N	N X	1									Duplicate
BP-TT-FRB10-20180920	920/2019	9:30	G	QC	2	N	N X										Field Reagent Blank
*BPSI-TT-MW307D-2018020	920/2019	15:20	G	GW	2	N	N X	1						T	\prod		
FXACT COPY OF THE ORIG	INAL																
09.2V	18															T	
	-0-					Ц											
· WD#1803120						Ц											
* ONY FRB'S To	(S W	OH	Total # Co	ntainers	48												
ssible Hazard Identification:	o-maion, o	ODIOI. (1 4242 1310			٦	Sample Dis	posal	A fee	may be	2556	ssed	ifsam	nles	are re	rained	l longer than 1 month)
e any samples from a listed EPA Hazardous Waste? Pleamments Section if the lab is to dispose of the sample.	ise List any E	PA Waste	Codes for	the samp	le in the	,		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,,,,,	may be		,,,,,,,	ıı sair	pics	210 10	anieu	ronger than I monthly
Non-Hazard Flammable Likin Irritant	∟Poison B		LUnknow	n			CReturn to	Client		П	snosal	by Lab		С	Archive	for	Months
d Ex Tracking: 7732 8315 7719																	
Custody Seals Intact:	Custody Sea	al No.:		Data off	- 82 9	1		Coole	Temp	. (°C): O	bs'd:		-	Corr'd			_ Therm ID No.:
linguished by:	Company:	Tetra Tech		Date/Tim	(S	4	Replayery	10	V	nu	11	2 0	ompar	y: V	AL		Date/Times/21/18 1034
linquished by:	Company:			Date/Tim			Received by	<i>j</i> :	grad. R	-	-	C	ompar	ny:	1		Date/Time:/
linguished by:	Company:			Date/Tim	e:	-	Received in	Labora	atory by	r		-	ompar	W.		-	Date/Time:

Appendix C

Support Documents

C. Calculations for Stage 4

The results for the 4 SDG field reagent blanks were all non-detects.

SDG: 1803122

DODCMD_ID	INSTALLATION_ID	SDG SITE_NAME	NORM_SITE_NAME	LOCATION_NAME	LOCATION_TYPE_DESC	COORD_X	COORD_Y	CONTRACT_ID	DO_CTO_NUMBER	CONTR_NAME	SAMPLE_NAME	SAMPLE_MATRIX_DESC	SAMPLE_TYPE_DESC	COLLECT_DATE	ANALYTICAL_METHOD	ANALYTICAL_METHOD_GRP_DESC
MID_ATLANTIC	BETHPAGE_NWIRP	1803122						N6247016D9008	WE13	TETRA TECH NUS, INC.	BP-TT-FRB08-20180918	Water for QC samples	Field Reagent Blank	18-Sep-18	537_MOD	Perfluoroalkyl Compounds
MID_ATLANTIC	BETHPAGE_NWIRP	1803122	Ī		Ī			N6247016D9008	WE13	TETRA TECH NUS, INC.	BP-TT-FRB09-20180919	Water for QC samples	Field Reagent Blank	19-Sep-18	537_MOD	Perfluoroalkyl Compounds
MID ATLANTIC	BETHPAGE NWIRP	1803122	Ĭ			Ĭ	Ĭ	N6247016D9008	WF13	TETRA TECH NUS. INC.	BP-TT-FRB10-20180920	Water for OC samples	Field Reagent Blank	20-Sep-18	537 MOD	Perfluoroalkyl Compounds