UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 4

Laboratory Services & Applied Science Division
980 College Station Road
Athens, Georgia 30605-2720

October 25, 2019

R4-LSASD-ASB-ESS

MEMORANDUM

SUBJECT: Provisional Release of Data
Assessment of Resuspended Sediments as a Source of PFAS to the Upper Coosa River Basin
LSASD Project # 19-0457

FROM: Nathan Barlet, Environmental Engineer
U.S. EPA Region 4, Laboratory Services & Applied Science Division
Applied Science Branch, Environmental Sampling Section

THRU: Stacey Box, Chief
U.S. EPA Region 4, Laboratory Services & Applied Science Division
Applied Science Branch, Environmental Sampling Section

TO: Brian Smith, Chief
U.S. EPA Region 4, Water Division
Safe Drinking Water Branch

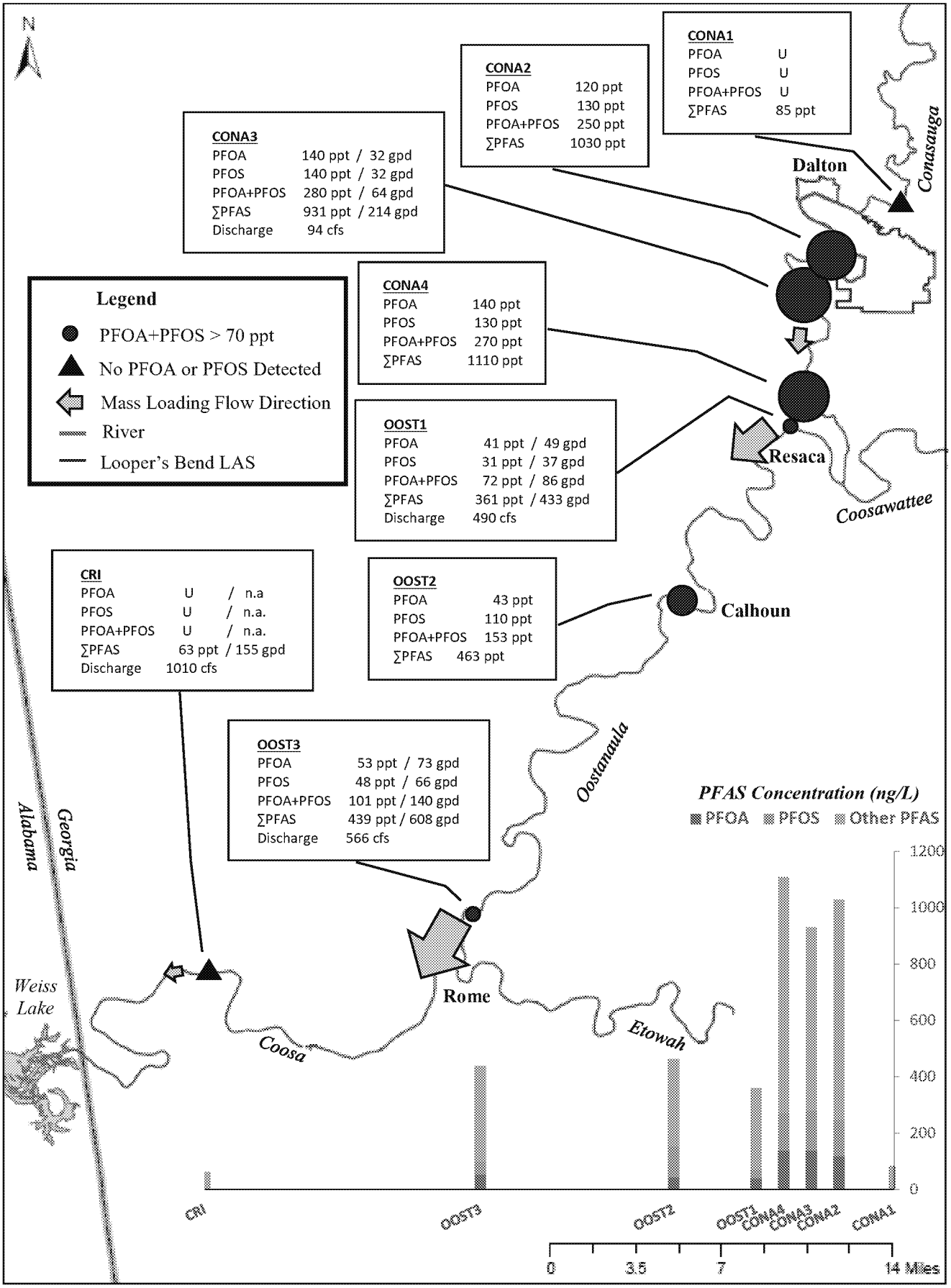
Per your request, data and preliminary analyses for the subject project are attached prior to release of the final report. Provisionally released data are results that have been produced and verified by the laboratory and provided to the project leader, but the project leader has not completed the data assessment or final report. Additional quality concerns may be identified by the project leader during the data assessment which could impact the usability of the data. Distribution of this data outside of the Agency and making decisions based on provisionally released data are not recommended until the data assessment and final report have been completed.

Attachment

cc: Becky Allenbach
Shawneille Campbell-Dunbar
Renea Hall
Danny France
John Deatrick
Sandra Aker

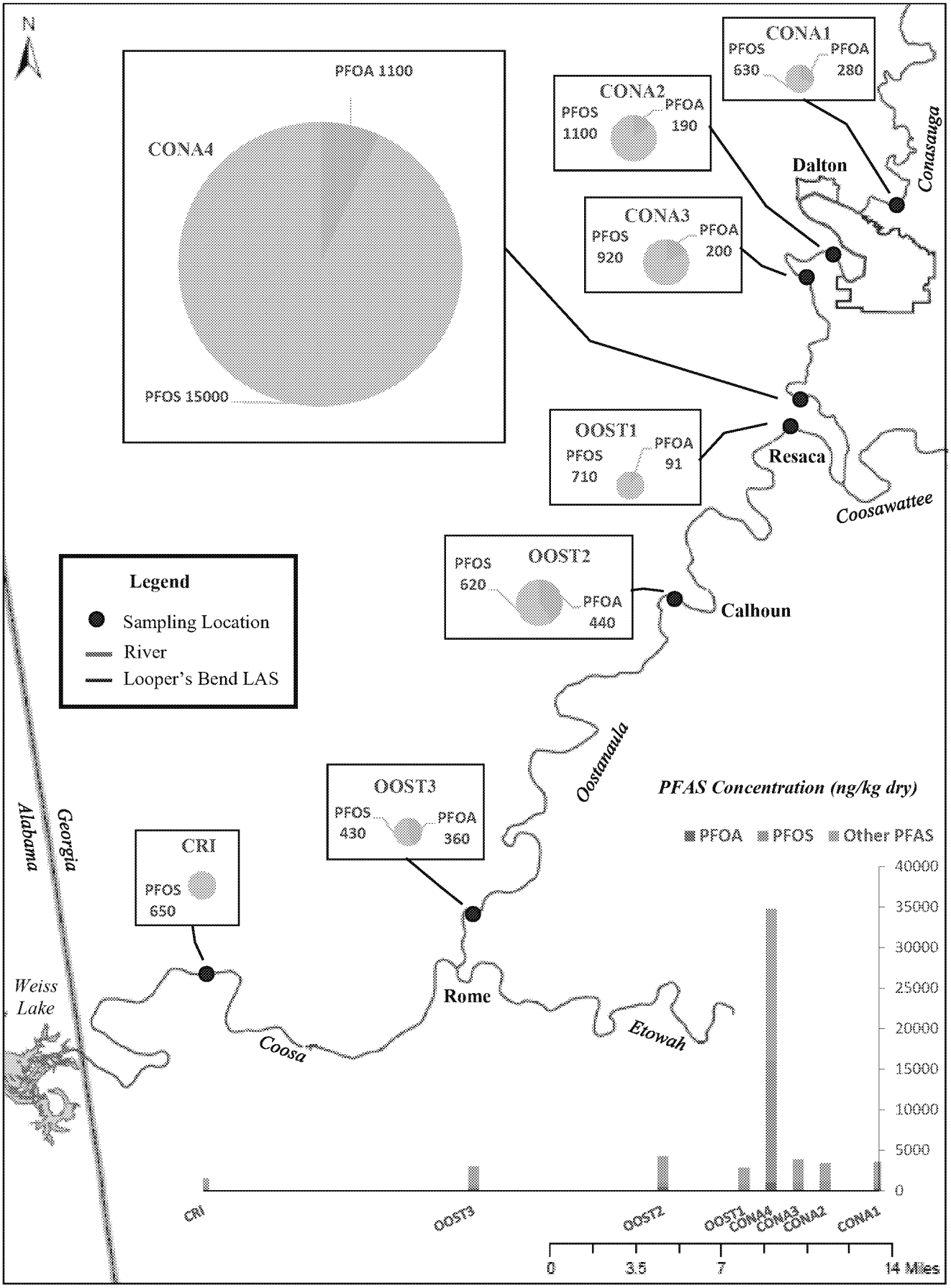
THIS PAGE IS INTENTIONALLY LEFT BLANK

Distribution of PFASs in Surface Water Collected Throughout Upper Coosa River Basin

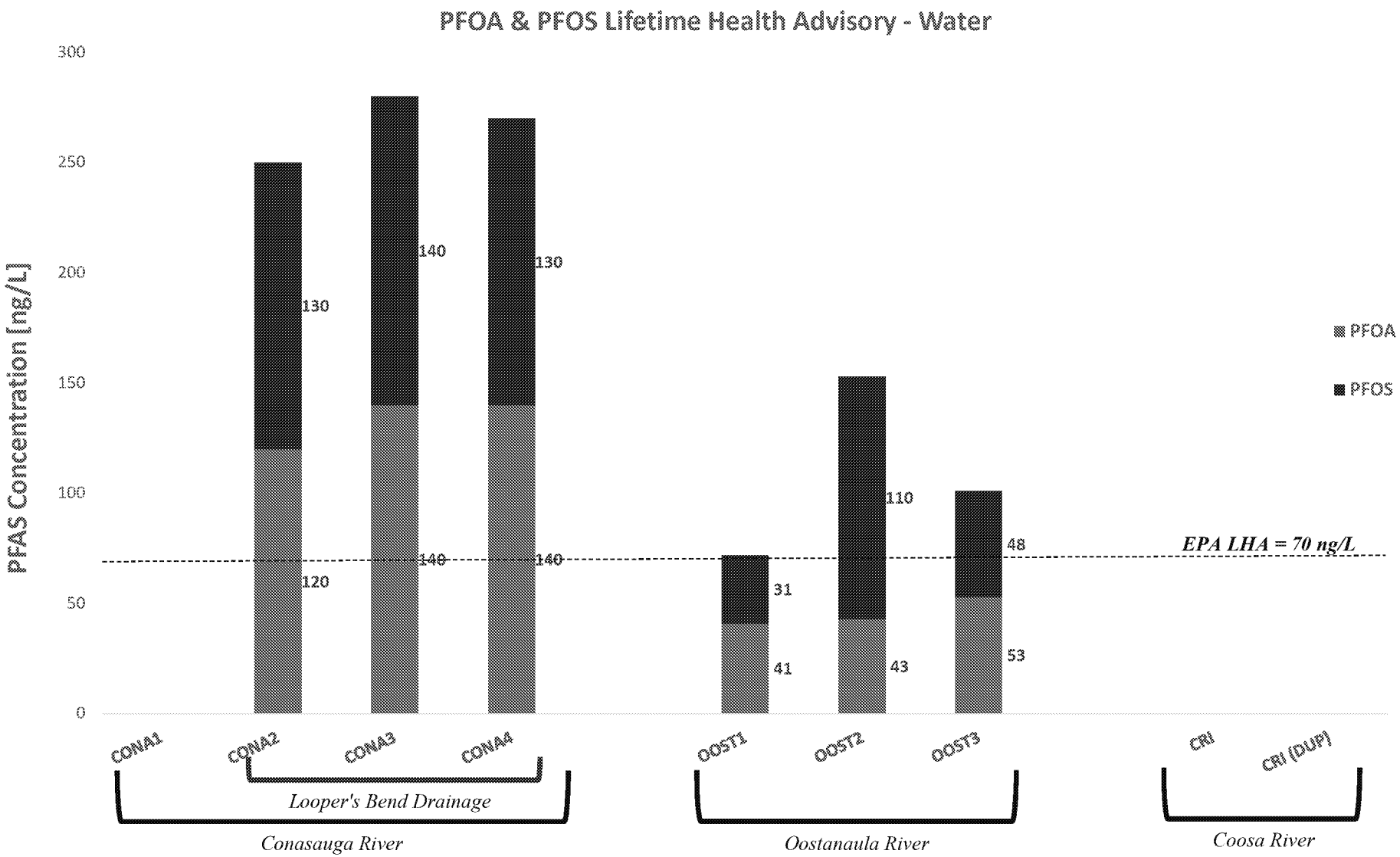


PFAS concentrations are in ng/L (ppt) and mass loading rates are in grams per day (gpd). Flow directional arrows and sampling locations are shown in relative proportion based on total PFAS loading and PFOA+PFOS, respectively.

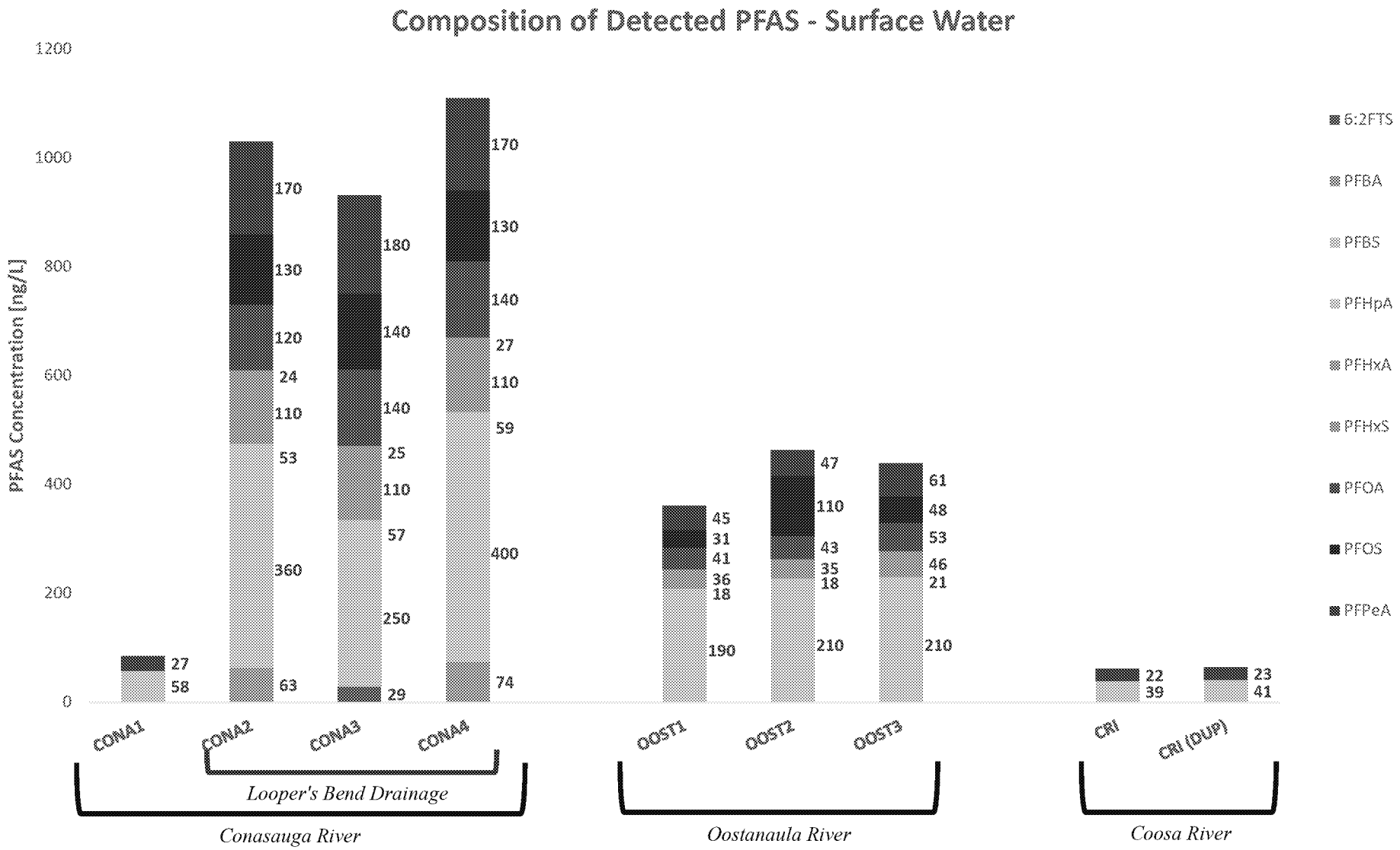
Distribution of PFASs in Sediments Collected from the Upper Coosa River Basin



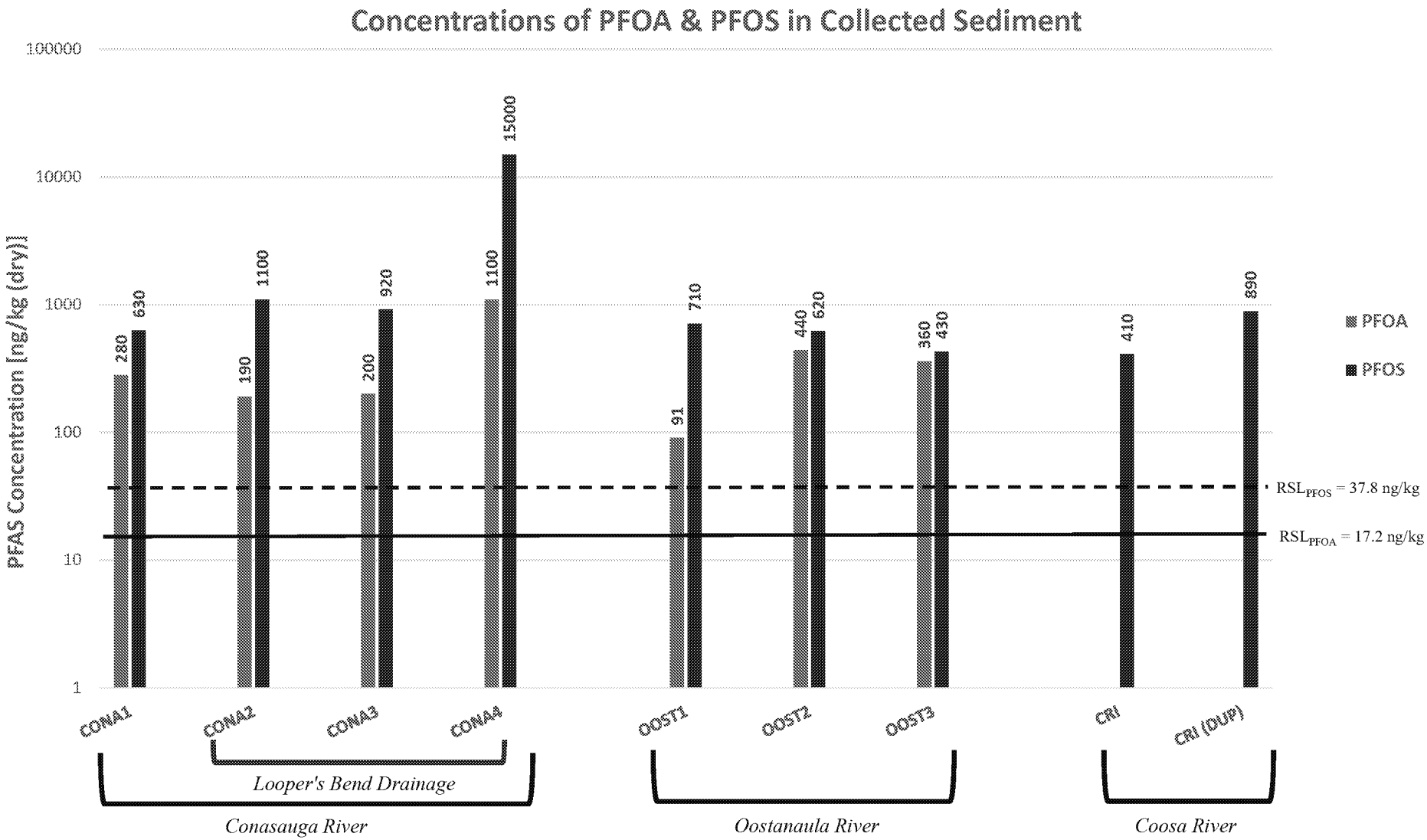
All PFAS concentrations are in ng/kg *dry* (ppt). Pie charts are shown in relative proportions based on combined PFOA and PFOS.



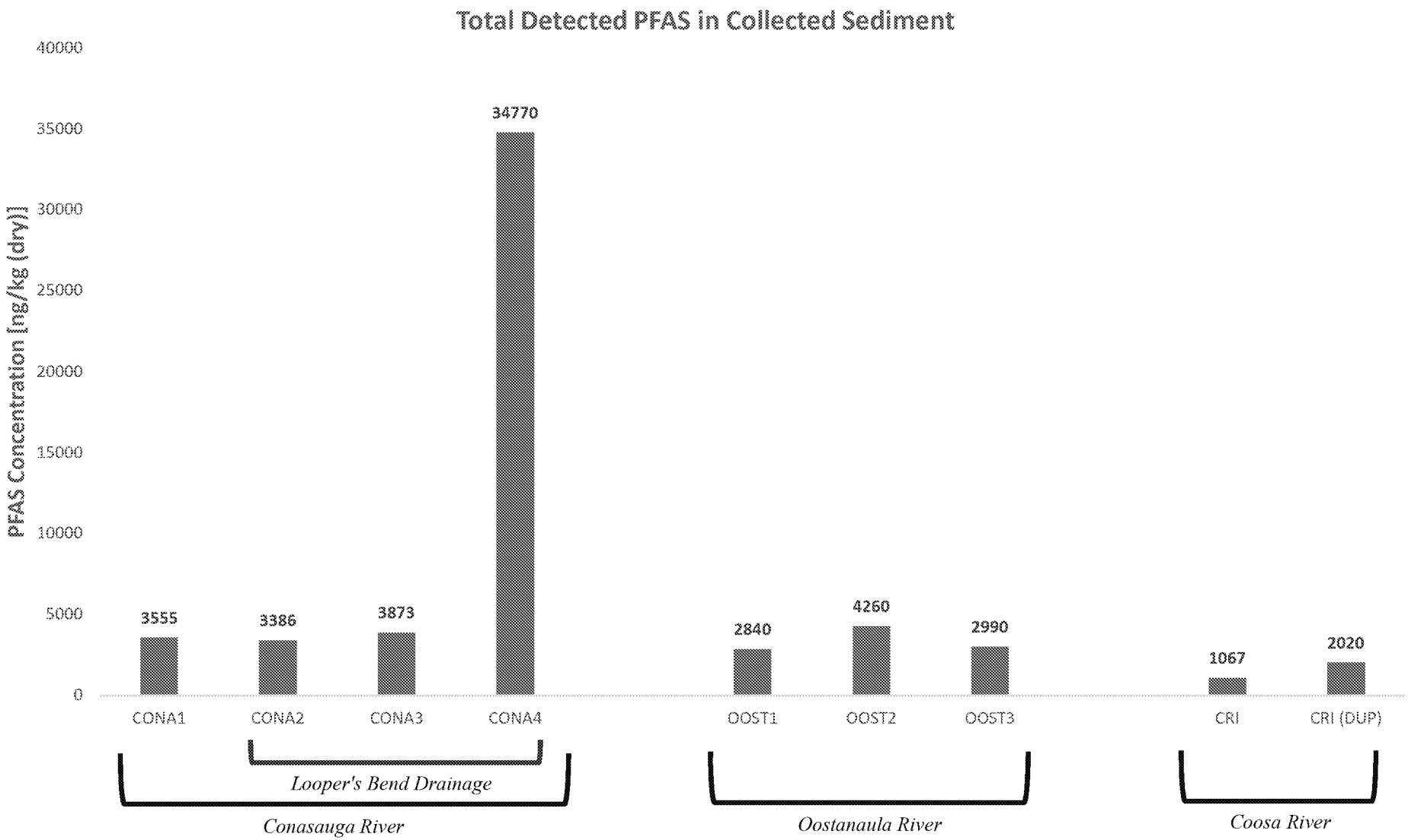
All PFAS concentrations are in ng/L (ppt). Surface water samples collected adjacent to and downstream of Looper's Bend land applications site on the Conasauga River had the highest individual and combined concentrations of PFOA and PFOS. Neither compound was detected at or above the minimum reporting limits at the most upstream sight (CONA1) or downstream on (CRI). All sites with positive detections of PFOA and PFOS were above EPA's recommended health advisory for lifetime exposure of 70 ng/L.



All PFAS concentrations are in ng/L (ppt). Surface water samples collected adjacent to and downstream of Looper's Bend land applications site on the Conasauga River had the highest diversity of distinct PFAS compounds present (n = 8).

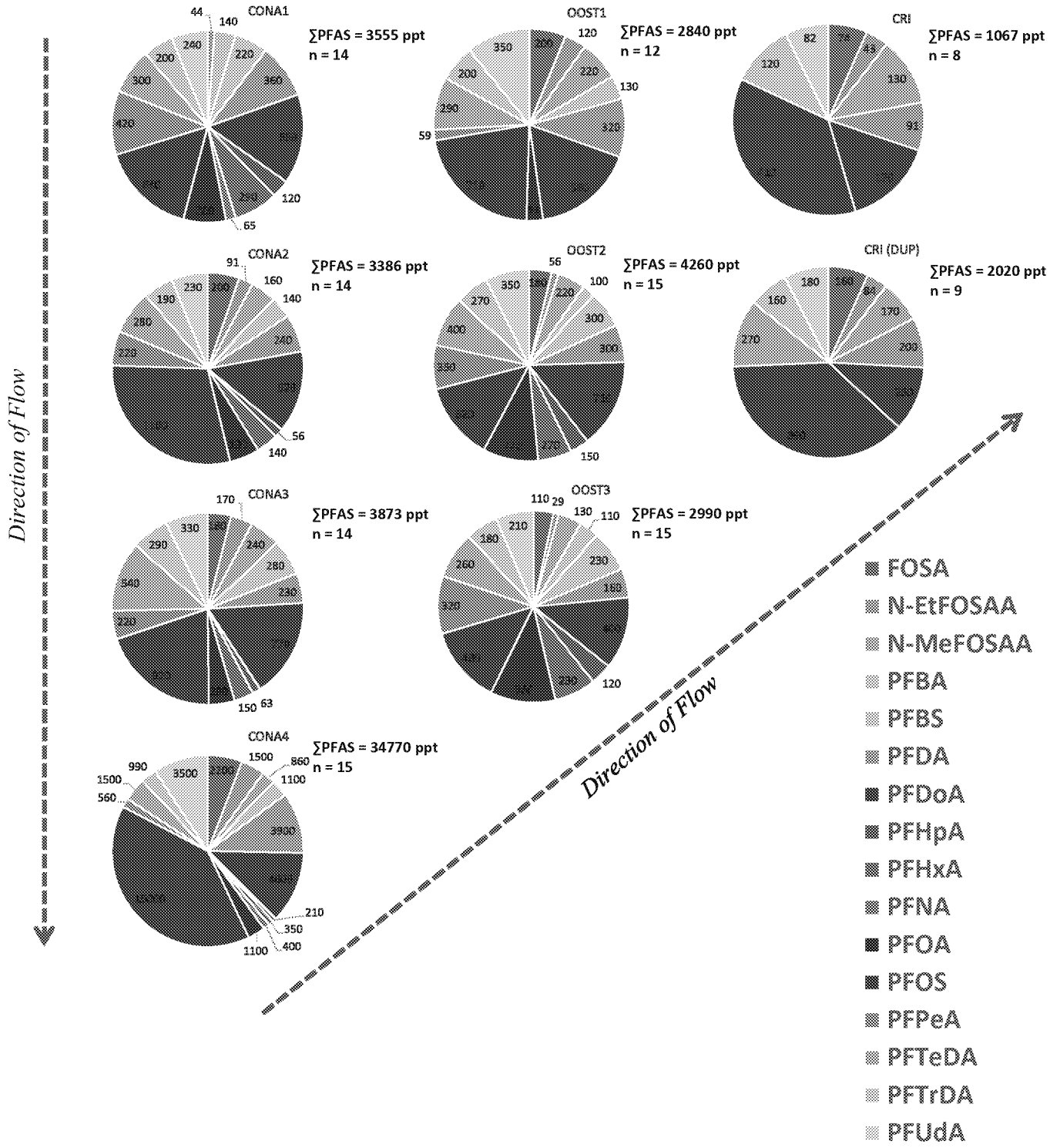


All PFAS concentrations are in ng/kg *dry* (ppt). The chart is shown in log scale to capture full range of concentrations. Significantly elevated concentrations of PFOS observed at CONA4 downstream of Looper's Bend may be due to the presence of high levels of total organic carbon. No PFOA was detected at or above the minimum reporting limit at CRI. All sites had concentrations above the calculated RSLs for PFOS (37.8 ng/kg) and PFOA (17.2 ng/kg).



All PFAS concentrations are in ng/kg *dry* (ppt). Significantly elevated concentrations of total PFASs observed at CONA4 downstream of Looper's Bend may be due to the presence of high levels of total organic carbon.

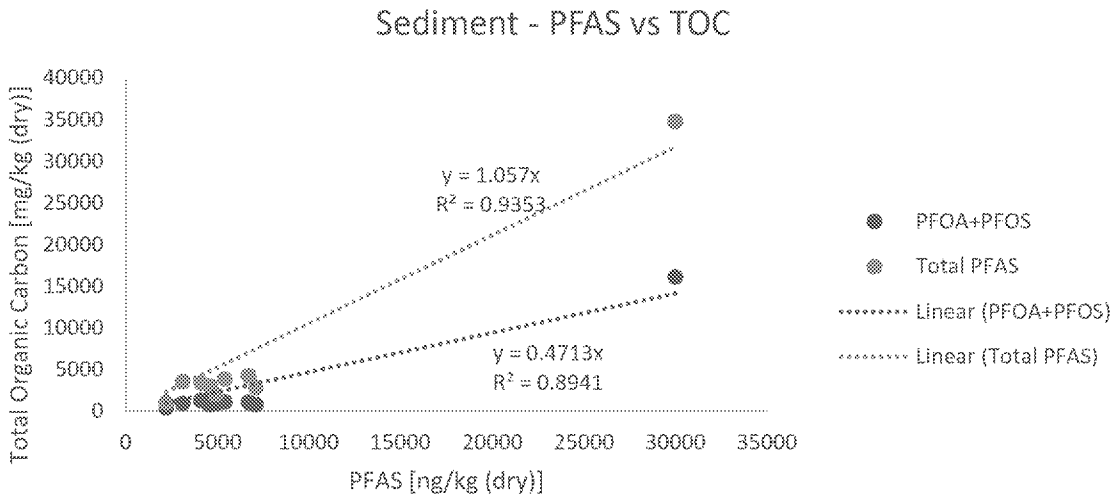
Composition of PFASs in Sediment

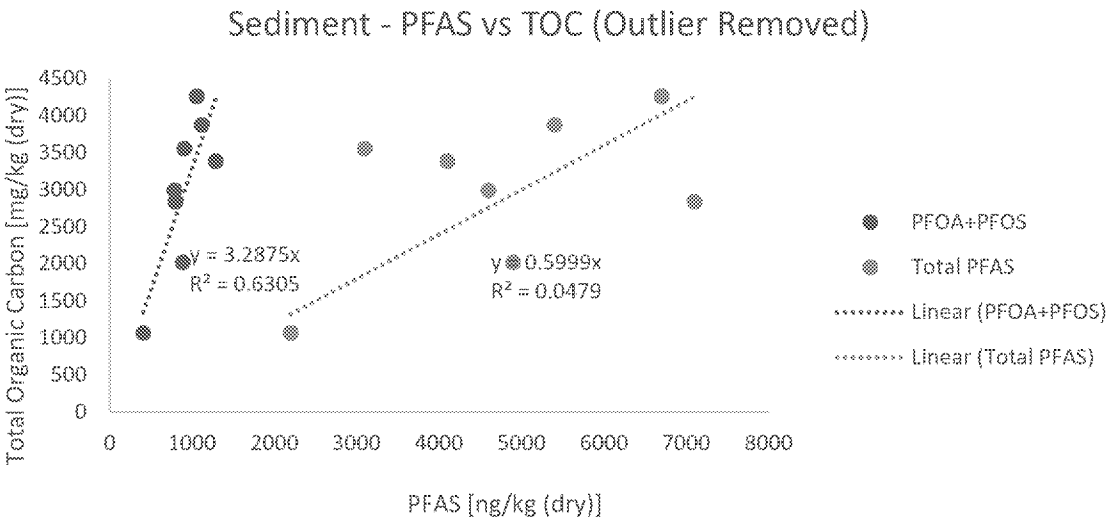


PFAS concentrations are in ng/kg *dry* (ppt). The concentration of total PFAS and number of distinct compounds are listed with each corresponding pie chart.

Comparison of PFAS Concentrations in Sediment and Total Organic Carbon (TOC)

Analyte	Units	Sampling Stations								
		CONA1	CONA2	CONA3	CONA4	OOST1	OOST2	OOST3	CRI	CRI (DUP)
TOC	mg/kg (dry)	3100	4100	5400	30000	7100	6700	4600	2200	4900
PFOA+PFOS	ng/kg (dry)	910	1290	1120	16100	801	1060	790	410	890
Total PFAS		3555	3386	3873	34770	2840	4260	2990	1067	2020





A positive relationship of sediment retention of PFASs with the presence of total organic carbon was observed. The highest PFAS concentrations found in sediment collected at CONA4 also had TOC concentations signifcantly higher than all other sediment samples collected during this study.

Sampling Locations

Station ID	Water Body	Approximate Coordinates (DD.ddddd)		Site Description
		Latitude	Longitude	
CONA1*	Conasauga River	34.70872	-84.86403	Conasauga River at Airport Rd in Dalton, GA
CONA2	Conasauga River	34.67950	-84.90906	Conasauga River at Looper's Bridge Rd in Dalton, GA
CONA3*	Conasauga River	34.66705	-84.92823	Conasauga River at Tilton Bridge Rd in Dalton, GA
CONA4	Conasauga River	34.59325	-84.93432	Conasauga River at Hwy 136 near Resaca, GA
OOST1	Oostanaula River	34.57750	-84.94177	Oostanaula River at Hwy 3 in Resaca, GA
OOST2	Oostanaula River	34.47481	-85.02025	Oostanaula River at Hwy 156 near Calhoun, GA
OOST3*	Oostanaula River	34.28716	-85.16331	Oostanaula River at Armuchee Connector near Rome, GA
CRI*	Coosa River	34.24871	-85.35548	Coosa River at Hwy 100 near AL-GA State Line

*Additional surface water samples will be collected at these sites to assess PFAS loading associated with the suspended sediment fraction.

***In-Situ* Water Quality Measurements**

Station ID	Date (m/dd/yyyy)	Time (hh:mm)	Temperature (°C)	pH (S.U.)	Specific Conductance (µS/cm)	Dissolved Oxygen (mg/L)	Turbidity (FNU)
CONA1	9/17/2019	10:20	24.2	7.68	240	6.65	9.0
CONA2	9/17/2019	17:55	28.0	7.89	247	8.43	20
CONA3	9/17/2019	12:55	27.6	7.78	248	7.48	22
CONA4	9/17/2019	14:30	28.4	7.89	249	7.86	20
OOST1	9/17/2019	9:03	25.6	7.37	103	6.64	13
OOST2	9/16/2019	16:46	28.2	7.69	110	8.20	11
OOST3	9/16/2019	14:50	28.3	7.88	154	8.33	14
CRI	9/16/2019	12:30	27.9	7.60	203	7.65	9.3

Concentration of PFASs Detected in Surface Water

Analyte	Units	Sampling Stations								
		CONA1	CONA2	CONA3	CONA4	OOST1	OOST2	OOST3	CRI	CRI (DUP)
6:2FTS	ng/L	U	U	29 J,Q-2	U	U	U	U	U	U
PFBA		U	63	U	74	U	U	U	U	U
PFBS		58	360	250	400	190	210	210	39	41
PFHpA		U	53	57	59	18 J,Q-2	18 J,Q-2	21 J,Q-2	U	U
PFHxA		U	110	110	110	36 J,Q-2	35 J,Q-2	46	U	U
PFHxS		U	24 J,Q-2	25 J,Q-2	27 J,Q-2	U	U	U	U	U
PFOA		U	120	140	140	41	43	53	U	U
PFOS		U	130	140	130	31 J,Q-2	110	48	U	U
PFPeA		27 J,Q-2	170	180	170	45	47	61	22 J,Q-2	23 J,Q-2
PFOA+PFOS		U	250	280	270	72	153	101	U	U
Total		85	1030	931	1110	361	463	439	61	64

Qualifirer:	Description:
U	The analyte was not detected at or above the reporting limit.
J	The identification of the analyte is acceptable; the reported value is an estimate.
Q-2	Result greater than the minimum detection limit (MDL) but less than the minimum reporting li

* Values in red are above LHA for combined PFOA and PFOS (70 ng/L).

Concentrations of PFASs Detected in Sediment

Analyte	Units	Sampling Stations								
		CONA1	CONA2	CONA3	CONA4	OOST1	OOST2	OOST3	CRI	CRI (DUP)
FOSA	ng/kg (dry)	U	200	180	2200	200	180	110 J,Q-2	74 J,Q-2	160
N-EtFOSAA		44 J,Q-2,Y-2	91 J,Q-2,Y-2	170 J,Y-2	1500 J,Y-2	120 J,Q-2,Y-2	56 J,Q-2,Y-2	29 J,Q-2,Y-2	43 J,Q-2,Y-2	84 J,Q-2,Y-2
N-MeFOSAA		U	160	240	860	220	220	130	120 J,Q-2	170
PFBA		140	U	U	U	U	100 J,Q-2	110 J,Q-2	U	U
PFBS		220	140	280	1100	130	300	230	U	U
PFDA		360	240	230	3900	320	300	160	91 J,Q-2	200
PFDoA		590	520	770	4600	560	710	400	170	260
PFHpA		120 J,Q-2	56 J,Q-2	63 J,Q-2	210 J,Q-2	U	150	120 J,Q-2	U	U
PFHxA		290	140	150	350	U	270	230	U	U
PFNA		65 J,Q-2	U	U	400	U	U	U	U	U
PFOA		240	190	260	1100	91 J,Q-2	440	360	U	U
PFOS		630	1100	920	15000	710	620	430	410	890
PFPeA		420	220	220	560	59 J,Q-2	350	320	U	U
PFTeDA		300 J,Q-2,Y-2	280 J,Q-2,Y-2	540 J,Y-2	1500 J,Y-2	290 J,Q-2,Y-2	400 J,Q-2,Y-2	260 J,Q-2,Y-2	U,Y-2	270 J,Q-2,Y-2
PFTrDA		200 J,QR-2	190 J,QR-2	290 J,QR-2	990 J,QR-2	200 J,QR-2	270 J,QR-2	180 J,QR-2	120 J,Q-2,QR-2	160 J,QR-2
PFUdA		240	230	330	3500	350	350	210	82 J,Q-2	180
PFOA+PFOS		910	1290	1120	16100	801	1060	790	410	890
Total		3555	3386	3873	34770	2840	4260	2990	1067	2020

Qualifirer:	Description:
U	The analyte was not detected at or above the reporting limit.
J	The identification of the analyte is acceptable; the reported value is an estimate.
Q-2	Result greater than the minimum detection limit (MDL) but less than the minimum reporting limit (MRL).
QR-2	MRL verification recovery greater than upper control limits.
Y-2	Data for N-EtFOSAA and PFTeDA should be limited to screening purposes only.

* Values in red are above RSLs for PFOA (17.2 ng/kg) and PFOS (37.8 ng/kg) calculated for this study.

PFAS Mass Loading Rates in Surface Water

Parameter	Units	Sampling Stations				
		CONA3	OOST1	OOST3	CRI	CRI (DUP)
6:2FTS	ng/L	29 J,Q-2	U	U	U	U
PFBS		250	190	210	39	41
PFHpA		57	18 J,Q-2	21 J,Q-2	U	U
PFHxA		110	36 J,Q-2	46	U	U
PFHxS		25 J,Q-2	U	U	U	U
PFOA		140	41	53	U	U
PFOS		140	31 J,Q-2	48	U	U
PFPeA		180	45	61	22 J,Q-2	23 J,Q-2
PFOA+PFOS		280	72	101	U	U
Total		931	361	439	61	64
Sample Date	m/dd/yyyy	9/17/2019	9/17/2019	9/16/2019	9/16/2019	9/16/2019
Sample Time	hh:mm	13:00	9:00	15:00	12:45	13:00
Gage ID	USGS ########	USGS 02387000	USGS 02387500	USGS 02388500	USGS 02397000	USGS 02397000
Discharge	ft^3/s	94	490	566	1010	1010
Mass Loading						
6:2FTS	g/day	7	NA	NA	NA	NA
PFBS		57	228	291	96	101
PFHpA		13	22	29	NA	NA
PFHxA		25	43	64	NA	NA
PFHxS		6	NA	NA	NA	NA
PFOA		32	49	73	NA	NA
PFOS		32	37	66	NA	NA
PFPeA		41	54	84	54	57
PFOA+PFOS		64	86	140	NA	NA
Total		214	433	608	151	158

Qualifirer:	Description:
U	The analyte was not detected at or above the reporting limit.
J	The identification of the analyte is acceptable; the reported value is an estimate.
Q-2	Result greater than the minimum detection limit (MDL) but less than the minimum reporting limit (MRL).
NA	Mass loading rate was not calculated due to undetected analyte.

TOC & TSS - Surface Water

Analyte	Units	Sampling Stations				
		CONA1	CONA3	OOST3	CRI	CRI (DUP)
Total Organic Carbon	mg/L	1.5	2.7	1.9	2	2.8
Total Suspended Solids	mg/L	9.1	9.7	14	29	8.3

TOC & % Solids - Sediment

Analyte	Units	Sampling Stations								
		CONA1	CONA2	CONA3	CONA4	OOST1	OOST2	OOST3	CRI	CRI (DUP)
Total Organic Carbon	mg/kg (dry)	3100 **J,Q-2**	4100 **J,Q-2**	5400 **J,Q-2**	30000	7100 **J,Q-2**	6700 **J,Q-2**	4600 **J,Q-2**	2200 **J,Q-2**	4900 **J,Q-2**
Percent Solids	%	76	76	74	28	65	69	74	71	68

Qualifirer:	**Description:**
J	The identification of the analyte is acceptable; the reported value is an estimate.
Q-2	Result greater than the minimum detection limit (MDL) but less than the minimum reporting limit (MRL).

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Diana Burdette

October 22, 2019

4LSASD-LSB

MEMORANDUM

SUBJECT: FINAL Analytical Report
Project: 19-0457, PFAS Sediment Screening - Conasauga R

FROM: Diana Burdette
OCS Analyst

THRU: Jeffrey Hendel, Chief
LSB Organic Chemistry Section

TO: Nathan Barlet

Attached are the final results for the analytical groups listed below. This report shall not be reproduced except in full without approval of the Region 4 laboratory. These analyses were performed in accordance with the Laboratory Services Branch's Laboratory Operations and Quality Assurance Manual (LSB LOQAM) found at www.epa.gov/region4/sesd/asbsop. Any unique project data quality objectives specified in writing by the data requestor have also been incorporated into the data unless otherwise noted in the Report Narrative. Chemistry data have been verified based on the LSB LOQAM specifications and have been qualified by this laboratory if the applicable quality control criteria were not met. Verification is defined in Chapter 5 of the LSB LOQAM. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report. The reported results are accurate within the limits of the method(s) and are representative only of the samples as received by the laboratory.

Analyses Included in this report:	Method Used:	Accreditations:
Semi Volatile Organics (SVOA)		
PFAS	ASBPROC-800PFAS (Water)	

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Diana Burdette

Sample Disposal Policy

Due to limited space for long term sample storage, LSB's policy is to dispose of samples on a periodic schedule. Air samples collected in summa canisters will be disposed of 30 days following the issuance of this report. All other sample media including original samples, sample extracts and or digestates will be disposed of, in accordance with applicable regulations, 60 days from the date of this report.

This sample disposal policy does not apply to criminal samples which are held until the laboratory is notified by the criminal investigators that case development and litigation are complete.

These samples may be held in the laboratory's custody for a longer period of time. If samples require storage beyond the 60-day period, please contact the Sample Control Coordinator by e-mail at R4SampleCustody@epa.gov.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Diana Burdette

SAMPLES INCLUDED IN THIS REPORT

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
19-0457-equip-blk-1-0916	E193805-01	Equipment Rinse Blank	9/16/19 18:30	9/18/19 13:32
19-0457-equip-blk-2-0916	E193805-02	Equipment Rinse Blank	9/17/19 10:30	9/18/19 13:32
19-0457-field-blk-1-0916	E193805-03	Field Blank	9/16/19 15:30	9/18/19 13:32
19-0457-field-blk-2-0916	E193805-04	Field Blank	9/17/19 16:20	9/18/19 13:32
19-0457-filter-spike-0916	E193805-05	Other	9/18/19 12:10	9/18/19 13:32
19-0457-trip-blk-1-0916	E193805-06	Trip Blank - Water	9/16/19 15:20	9/18/19 13:32
19-0457-CONA1-0916	E193805-07	Surface Water	9/17/19 10:40	9/18/19 13:32
19-0457-CONA1-F-0916	E193805-08	Surface Water	9/17/19 10:40	9/18/19 13:32
19-0457-CONA2-0916	E193805-10	Surface Water	9/17/19 18:00	9/18/19 13:32
19-0457-CONA3-0916	E193805-12	Surface Water	9/17/19 13:00	9/18/19 13:32
19-0457-CONA3-F-0916	E193805-13	Surface Water	9/17/19 13:00	9/18/19 13:32
19-0457-CONA4-0916	E193805-15	Surface Water	9/17/19 14:40	9/18/19 13:32
19-0457-CRI-0916	E193805-17	Surface Water	9/16/19 12:45	9/18/19 13:32
19-0457-CRI-DUP-0916	E193805-18	Surface Water	9/16/19 13:00	9/18/19 13:32
19-0457-CRI-F-0916	E193805-19	Surface Water	9/16/19 12:45	9/18/19 13:32
19-0457-CRI-F-DUP-0916	E193805-20	Surface Water	9/16/19 13:00	9/18/19 13:32
19-0457-OOST1-0916	E193805-23	Surface Water	9/17/19 09:00	9/18/19 13:32
19-0457-OOST2-0916	E193805-25	Surface Water	9/16/19 16:45	9/18/19 13:32
19-0457-OOST3-0916	E193805-27	Surface Water	9/16/19 15:00	9/18/19 13:32
19-0457-OOST3-F-0916	E193805-28	Surface Water	9/16/19 15:00	9/18/19 13:32

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Diana Burdette

DATA QUALIFIER DEFINITIONS

U	The analyte was not detected at or above the reporting limit.
CR	Less than MDL and MRL, Data system set to display the concentration of a known spiked sample
CRa	Less than MDL and MRL, Data system set to display the concentration of a known spiked sample.
J	The identification of the analyte is acceptable; the reported value is an estimate.
Q-2	Result greater than MDL but less than MRL.
QS-3	Surrogate recovery is lower than established control limits.
QS-5	Surrogate recovery is higher than established control limits
Y-2	Data should be limited to screening purposes only

ACRONYMS AND ABBREVIATIONS

CAS Chemical Abstracts Service

Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.

MDL Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.

MRL Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.

TIC Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.

ACCREDITATIONS:

ISO ASB is accredited by ISO/IEC 17025, including an amplification for forensic accreditation through ANSI-ASQ National Accreditation Board.

Refer to the certificate and scope of accreditation AT-1644 at:
http://www.epa.gov/aboutepa/about-region-4s-science-and-ecosystem-support-division-sesd

NR The EPA Region 4 Laboratory has not requested accreditation for this test.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID: 19-0457-equip-blk-1-0916 **Lab ID:** E193805-01

Station ID: **Matrix:** Equipment Rinse Blank

Date Collected: 9/16/19 18:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
757124-72-4	4:2FTS	37	U	ng/L	37	10/01/19 10:53	10/08/19 20:51	ASBPROC-800PFAS
27619-97-2	6:2FTS	38	U	ng/L	38	10/01/19 10:53	10/08/19 20:51	ASBPROC-800PFAS
39108-34-4	8:2FTS	38	U	ng/L	38	10/01/19 10:53	10/08/19 20:51	ASBPROC-800PFAS
754-91-6	FOSA	40	U	ng/L	40	10/01/19 10:53	10/08/19 20:51	ASBPROC-800PFAS
13252-13-6	HFPO-DA	40	U	ng/L	40	10/01/19 10:53	10/08/19 20:51	ASBPROC-800PFAS
2991-50-6	N-EtFOSAA	160	U, J, Y-2	ng/L	160	10/01/19 10:53	10/08/19 20:51	ASBPROC-800PFAS
2355-31-9	N-MeFOSAA	160	U	ng/L	160	10/01/19 10:53	10/08/19 20:51	ASBPROC-800PFAS
375-22-4	PFBA	40	U	ng/L	40	10/01/19 10:53	10/08/19 20:51	ASBPROC-800PFAS
375-73-5	PFBS	35	U	ng/L	35	10/01/19 10:53	10/08/19 20:51	ASBPROC-800PFAS
335-76-2	PFDA	160	U	ng/L	160	10/01/19 10:53	10/08/19 20:51	ASBPROC-800PFAS
307-55-1	PFDoA	40	U	ng/L	40	10/01/19 10:53	10/08/19 20:51	ASBPROC-800PFAS
335-77-3	PFDS	39	U	ng/L	39	10/01/19 10:53	10/08/19 20:51	ASBPROC-800PFAS
375-85-9	PFHpA	40	U	ng/L	40	10/01/19 10:53	10/08/19 20:51	ASBPROC-800PFAS
375-92-8	PFHpS	38	U	ng/L	38	10/01/19 10:53	10/08/19 20:51	ASBPROC-800PFAS
307-24-4	PFHxA	40	U	ng/L	40	10/01/19 10:53	10/08/19 20:51	ASBPROC-800PFAS
355-46-4	PFHxS	36	U	ng/L	36	10/01/19 10:53	10/08/19 20:51	ASBPROC-800PFAS
375-95-1	PFNA	40	U	ng/L	40	10/01/19 10:53	10/08/19 20:51	ASBPROC-800PFAS
68259-12-1	PFNS	38	U	ng/L	38	10/01/19 10:53	10/08/19 20:51	ASBPROC-800PFAS
335-67-1	PFOA	40	U	ng/L	40	10/01/19 10:53	10/08/19 20:51	ASBPROC-800PFAS
1763-23-1	PFOS	37	U	ng/L	37	10/01/19 10:53	10/08/19 20:51	ASBPROC-800PFAS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID: 19-0457-equip-blk-1-0916 **Lab ID:** E193805-01

Station ID: **Matrix:** Equipment Rinse Blank

Date Collected: 9/16/19 18:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2706-90-3	PFPeA	40	U	ng/L	40	10/01/19 10:53	10/08/19 20:51	ASBPROC-800PFAS
2706-91-4	PFPeS	38	U	ng/L	38	10/01/19 10:53	10/08/19 20:51	ASBPROC-800PFAS
376-06-7	PFTeDA	160	U, J, QS-5, Y-2	ng/L	160	10/01/19 10:53	10/08/19 20:51	ASBPROC-800PFAS
72629-94-8	PFTrDA	40	U	ng/L	40	10/01/19 10:53	10/08/19 20:51	ASBPROC-800PFAS
2058-94-8	PFUdA	40	U	ng/L	40	10/01/19 10:53	10/08/19 20:51	ASBPROC-800PFAS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID: 19-0457-equip-blk-2-0916 **Lab ID:** E193805-02

Station ID: **Matrix:** Equipment Rinse Blank

Date Collected: 9/17/19 10:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
757124-72-4	4:2FTS	37	U	ng/L	37	10/01/19 10:53	10/08/19 21:11	ASBPROC-800PFAS
27619-97-2	6:2FTS	38	U	ng/L	38	10/01/19 10:53	10/08/19 21:11	ASBPROC-800PFAS
39108-34-4	8:2FTS	38	U	ng/L	38	10/01/19 10:53	10/08/19 21:11	ASBPROC-800PFAS
754-91-6	FOSA	40	U	ng/L	40	10/01/19 10:53	10/08/19 21:11	ASBPROC-800PFAS
13252-13-6	HFPO-DA	40	U	ng/L	40	10/01/19 10:53	10/08/19 21:11	ASBPROC-800PFAS
2991-50-6	N-EtFOSAA	160	U, J, Y-2	ng/L	160	10/01/19 10:53	10/08/19 21:11	ASBPROC-800PFAS
2355-31-9	N-MeFOSAA	160	U	ng/L	160	10/01/19 10:53	10/08/19 21:11	ASBPROC-800PFAS
375-22-4	PFBA	40	U	ng/L	40	10/01/19 10:53	10/08/19 21:11	ASBPROC-800PFAS
375-73-5	PFBS	35	U	ng/L	35	10/01/19 10:53	10/08/19 21:11	ASBPROC-800PFAS
335-76-2	PFDA	160	U	ng/L	160	10/01/19 10:53	10/08/19 21:11	ASBPROC-800PFAS
307-55-1	PFDoA	40	U	ng/L	40	10/01/19 10:53	10/08/19 21:11	ASBPROC-800PFAS
335-77-3	PFDS	39	U	ng/L	39	10/01/19 10:53	10/08/19 21:11	ASBPROC-800PFAS
375-85-9	PFHpA	40	U	ng/L	40	10/01/19 10:53	10/08/19 21:11	ASBPROC-800PFAS
375-92-8	PFHpS	38	U	ng/L	38	10/01/19 10:53	10/08/19 21:11	ASBPROC-800PFAS
307-24-4	PFHxA	40	U	ng/L	40	10/01/19 10:53	10/08/19 21:11	ASBPROC-800PFAS
355-46-4	PFHxS	36	U	ng/L	36	10/01/19 10:53	10/08/19 21:11	ASBPROC-800PFAS
375-95-1	PFNA	40	U	ng/L	40	10/01/19 10:53	10/08/19 21:11	ASBPROC-800PFAS
68259-12-1	PFNS	38	U	ng/L	38	10/01/19 10:53	10/08/19 21:11	ASBPROC-800PFAS
335-67-1	PFOA	40	U	ng/L	40	10/01/19 10:53	10/08/19 21:11	ASBPROC-800PFAS
1763-23-1	PFOS	37	U	ng/L	37	10/01/19 10:53	10/08/19 21:11	ASBPROC-800PFAS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID: 19-0457-equip-blk-2-0916 **Lab ID:** E193805-02

Station ID: **Matrix:** Equipment Rinse Blank

Date Collected: 9/17/19 10:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2706-90-3	PFPeA	40	U	ng/L	40	10/01/19 10:53	10/08/19 21:11	ASBPROC-800PFAS
2706-91-4	PFPeS	38	U	ng/L	38	10/01/19 10:53	10/08/19 21:11	ASBPROC-800PFAS
376-06-7	PFTeDA	160	U, J, QS-5, Y-2	ng/L	160	10/01/19 10:53	10/08/19 21:11	ASBPROC-800PFAS
72629-94-8	PFTrDA	40	U	ng/L	40	10/01/19 10:53	10/08/19 21:11	ASBPROC-800PFAS
2058-94-8	PFUdA	40	U	ng/L	40	10/01/19 10:53	10/08/19 21:11	ASBPROC-800PFAS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID: 19-0457-field-blk-1-0916 **Lab ID:** E193805-03

Station ID: **Matrix:** Field Blank

Date Collected: 9/16/19 15:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
757124-72-4	4:2FTS	37	U	ng/L	37	10/01/19 10:53	10/08/19 21:31	ASBPROC-800PFAS
27619-97-2	6:2FTS	38	U	ng/L	38	10/01/19 10:53	10/08/19 21:31	ASBPROC-800PFAS
39108-34-4	8:2FTS	38	U	ng/L	38	10/01/19 10:53	10/08/19 21:31	ASBPROC-800PFAS
754-91-6	FOSA	40	U	ng/L	40	10/01/19 10:53	10/08/19 21:31	ASBPROC-800PFAS
13252-13-6	HFPO-DA	40	U	ng/L	40	10/01/19 10:53	10/08/19 21:31	ASBPROC-800PFAS
2991-50-6	N-EtFOSAA	160	U, J, Y-2	ng/L	160	10/01/19 10:53	10/08/19 21:31	ASBPROC-800PFAS
2355-31-9	N-MeFOSAA	160	U	ng/L	160	10/01/19 10:53	10/08/19 21:31	ASBPROC-800PFAS
375-22-4	PFBA	40	U	ng/L	40	10/01/19 10:53	10/08/19 21:31	ASBPROC-800PFAS
375-73-5	PFBS	35	U	ng/L	35	10/01/19 10:53	10/08/19 21:31	ASBPROC-800PFAS
335-76-2	PFDA	160	U	ng/L	160	10/01/19 10:53	10/08/19 21:31	ASBPROC-800PFAS
307-55-1	PFDoA	40	U	ng/L	40	10/01/19 10:53	10/08/19 21:31	ASBPROC-800PFAS
335-77-3	PFDS	38	U	ng/L	38	10/01/19 10:53	10/08/19 21:31	ASBPROC-800PFAS
375-85-9	PFHpA	40	U	ng/L	40	10/01/19 10:53	10/08/19 21:31	ASBPROC-800PFAS
375-92-8	PFHpS	38	U	ng/L	38	10/01/19 10:53	10/08/19 21:31	ASBPROC-800PFAS
307-24-4	PFHxA	40	U	ng/L	40	10/01/19 10:53	10/08/19 21:31	ASBPROC-800PFAS
355-46-4	PFHxS	36	U	ng/L	36	10/01/19 10:53	10/08/19 21:31	ASBPROC-800PFAS
375-95-1	PFNA	40	U	ng/L	40	10/01/19 10:53	10/08/19 21:31	ASBPROC-800PFAS
68259-12-1	PFNS	38	U	ng/L	38	10/01/19 10:53	10/08/19 21:31	ASBPROC-800PFAS
335-67-1	PFOA	40	U	ng/L	40	10/01/19 10:53	10/08/19 21:31	ASBPROC-800PFAS
1763-23-1	PFOS	37	U	ng/L	37	10/01/19 10:53	10/08/19 21:31	ASBPROC-800PFAS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID: 19-0457-field-blk-1-0916 **Lab ID:** E193805-03

Station ID: **Matrix:** Field Blank

Date Collected: 9/16/19 15:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2706-90-3	PFPeA	40	U	ng/L	40	10/01/19 10:53	10/08/19 21:31	ASBPROC-800PFAS
2706-91-4	PFPeS	37	U	ng/L	37	10/01/19 10:53	10/08/19 21:31	ASBPROC-800PFAS
376-06-7	PFTeDA	160	U, J, QS-5, Y-2	ng/L	160	10/01/19 10:53	10/08/19 21:31	ASBPROC-800PFAS
72629-94-8	PFTrDA	40	U	ng/L	40	10/01/19 10:53	10/08/19 21:31	ASBPROC-800PFAS
2058-94-8	PFUdA	40	U	ng/L	40	10/01/19 10:53	10/08/19 21:31	ASBPROC-800PFAS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID: 19-0457-field-blk-2-0916 **Lab ID:** E193805-04

Station ID: **Matrix:** Field Blank

Date Collected: 9/17/19 16:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
757124-72-4	4:2FTS	37	U	ng/L	37	10/01/19 10:53	10/08/19 21:51	ASBPROC-800PFAS
27619-97-2	6:2FTS	38	U	ng/L	38	10/01/19 10:53	10/08/19 21:51	ASBPROC-800PFAS
39108-34-4	8:2FTS	38	U	ng/L	38	10/01/19 10:53	10/08/19 21:51	ASBPROC-800PFAS
754-91-6	FOSA	40	U	ng/L	40	10/01/19 10:53	10/08/19 21:51	ASBPROC-800PFAS
13252-13-6	HFPO-DA	40	U	ng/L	40	10/01/19 10:53	10/08/19 21:51	ASBPROC-800PFAS
2991-50-6	N-EtFOSAA	160	U, J, Y-2	ng/L	160	10/01/19 10:53	10/08/19 21:51	ASBPROC-800PFAS
2355-31-9	N-MeFOSAA	160	U	ng/L	160	10/01/19 10:53	10/08/19 21:51	ASBPROC-800PFAS
375-22-4	PFBA	40	U	ng/L	40	10/01/19 10:53	10/08/19 21:51	ASBPROC-800PFAS
375-73-5	PFBS	35	U	ng/L	35	10/01/19 10:53	10/08/19 21:51	ASBPROC-800PFAS
335-76-2	PFDA	160	U	ng/L	160	10/01/19 10:53	10/08/19 21:51	ASBPROC-800PFAS
307-55-1	PFDoA	40	U	ng/L	40	10/01/19 10:53	10/08/19 21:51	ASBPROC-800PFAS
335-77-3	PFDS	38	U	ng/L	38	10/01/19 10:53	10/08/19 21:51	ASBPROC-800PFAS
375-85-9	PFHpA	40	U	ng/L	40	10/01/19 10:53	10/08/19 21:51	ASBPROC-800PFAS
375-92-8	PFHpS	38	U	ng/L	38	10/01/19 10:53	10/08/19 21:51	ASBPROC-800PFAS
307-24-4	PFHxA	40	U	ng/L	40	10/01/19 10:53	10/08/19 21:51	ASBPROC-800PFAS
355-46-4	PFHxS	36	U	ng/L	36	10/01/19 10:53	10/08/19 21:51	ASBPROC-800PFAS
375-95-1	PFNA	40	U	ng/L	40	10/01/19 10:53	10/08/19 21:51	ASBPROC-800PFAS
68259-12-1	PFNS	38	U	ng/L	38	10/01/19 10:53	10/08/19 21:51	ASBPROC-800PFAS
335-67-1	PFOA	40	U	ng/L	40	10/01/19 10:53	10/08/19 21:51	ASBPROC-800PFAS
1763-23-1	PFOS	37	U	ng/L	37	10/01/19 10:53	10/08/19 21:51	ASBPROC-800PFAS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID: 19-0457-field-blk-2-0916 **Lab ID:** E193805-04

Station ID: **Matrix:** Field Blank

Date Collected: 9/17/19 16:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2706-90-3	PFPeA	40	U	ng/L	40	10/01/19 10:53	10/08/19 21:51	ASBPROC-800PFAS
2706-91-4	PFPeS	38	U	ng/L	38	10/01/19 10:53	10/08/19 21:51	ASBPROC-800PFAS
376-06-7	PFTeDA	160	U, J, QS-5, Y-2	ng/L	160	10/01/19 10:53	10/08/19 21:51	ASBPROC-800PFAS
72629-94-8	PFTrDA	40	U	ng/L	40	10/01/19 10:53	10/08/19 21:51	ASBPROC-800PFAS
2058-94-8	PFUdA	40	U	ng/L	40	10/01/19 10:53	10/08/19 21:51	ASBPROC-800PFAS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID: 19-0457-filter-spike-0916 **Lab ID:** E193805-05
Station ID: **Matrix:** Other

Date Collected: 9/18/19 12:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
757124-72-4	4:2FTS	410	J, Y-2	ng/L	37	10/01/19 10:53	10/08/19 22:11	ASBPROC-800PFAS
27619-97-2	6:2FTS	420	J, Y-2	ng/L	37	10/01/19 10:53	10/08/19 22:11	ASBPROC-800PFAS
39108-34-4	8:2FTS	250	J, Y-2	ng/L	37	10/01/19 10:53	10/08/19 22:11	ASBPROC-800PFAS
754-91-6	FOSA	150	J, Y-2	ng/L	39	10/01/19 10:53	10/08/19 22:11	ASBPROC-800PFAS
13252-13-6	HFPO-DA	360	J, Y-2	ng/L	39	10/01/19 10:53	10/08/19 22:11	ASBPROC-800PFAS
2991-50-6	N-EtFOSAA	66	J, CR, Y-2	ng/L	62	10/01/19 10:53	10/08/19 22:11	ASBPROC-800PFAS
2355-31-9	N-MeFOSAA	110	J, CR, Y-2	ng/L	54	10/01/19 10:53	10/08/19 22:11	ASBPROC-800PFAS
375-22-4	PFBA	430	J, Y-2	ng/L	39	10/01/19 10:53	10/08/19 22:11	ASBPROC-800PFAS
375-73-5	PFBS	370	J, Y-2	ng/L	35	10/01/19 10:53	10/08/19 22:11	ASBPROC-800PFAS
335-76-2	PFDA	300	J, Y-2	ng/L	160	10/01/19 10:53	10/08/19 22:11	ASBPROC-800PFAS
307-55-1	PFDoA	44	J, Y-2	ng/L	39	10/01/19 10:53	10/08/19 22:11	ASBPROC-800PFAS
335-77-3	PFDS	80	J, Y-2	ng/L	38	10/01/19 10:53	10/08/19 22:11	ASBPROC-800PFAS
375-85-9	PFHpA	430	J, Y-2	ng/L	39	10/01/19 10:53	10/08/19 22:11	ASBPROC-800PFAS
375-92-8	PFHpS	400	J, Y-2	ng/L	37	10/01/19 10:53	10/08/19 22:11	ASBPROC-800PFAS
307-24-4	PFHxA	440	J, Y-2	ng/L	39	10/01/19 10:53	10/08/19 22:11	ASBPROC-800PFAS
355-46-4	PFHxS	410	J, Y-2	ng/L	36	10/01/19 10:53	10/08/19 22:11	ASBPROC-800PFAS
375-95-1	PFNA	400	J, Y-2	ng/L	39	10/01/19 10:53	10/08/19 22:11	ASBPROC-800PFAS
68259-12-1	PFNS	180	J, Y-2	ng/L	37	10/01/19 10:53	10/08/19 22:11	ASBPROC-800PFAS
335-67-1	PFOA	450	J, Y-2	ng/L	39	10/01/19 10:53	10/08/19 22:11	ASBPROC-800PFAS
1763-23-1	PFOS	330	J, Y-2	ng/L	36	10/01/19 10:53	10/08/19 22:11	ASBPROC-800PFAS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID: 19-0457-filter-spike-0916 **Lab ID:** E193805-05

Station ID: **Matrix:** Other

Date Collected: 9/18/19 12:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2706-90-3	PFPeA	430	J, Y-2	ng/L	39	10/01/19 10:53	10/08/19 22:11	ASBPROC-800PFAS
2706-91-4	PFPeS	410	J, Y-2	ng/L	37	10/01/19 10:53	10/08/19 22:11	ASBPROC-800PFAS
376-06-7	PFTeDA	69	J, CRa, QS-5, Y-2	ng/L	59	10/01/19 10:53	10/08/19 22:11	ASBPROC-800PFAS
72629-94-8	PFTrDA	29	J, Q-2, Y-2	ng/L	39	10/01/19 10:53	10/08/19 22:11	ASBPROC-800PFAS
2058-94-8	PFUdA	140	J, Y-2	ng/L	39	10/01/19 10:53	10/08/19 22:11	ASBPROC-800PFAS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID: 19-0457-trip-blk-1-0916 **Lab ID:** E193805-06

Station ID: **Matrix:** Trip Blank - Water

Date Collected: 9/16/19 15:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
757124-72-4	4:2FTS	37	U	ng/L	37	10/01/19 10:53	10/08/19 22:31	ASBPROC-800PFAS
27619-97-2	6:2FTS	38	U	ng/L	38	10/01/19 10:53	10/08/19 22:31	ASBPROC-800PFAS
39108-34-4	8:2FTS	38	U	ng/L	38	10/01/19 10:53	10/08/19 22:31	ASBPROC-800PFAS
754-91-6	FOSA	40	U	ng/L	40	10/01/19 10:53	10/08/19 22:31	ASBPROC-800PFAS
13252-13-6	HFPO-DA	40	U	ng/L	40	10/01/19 10:53	10/08/19 22:31	ASBPROC-800PFAS
2991-50-6	N-EtFOSAA	160	U, J, Y-2	ng/L	160	10/01/19 10:53	10/08/19 22:31	ASBPROC-800PFAS
2355-31-9	N-MeFOSAA	160	U	ng/L	160	10/01/19 10:53	10/08/19 22:31	ASBPROC-800PFAS
375-22-4	PFBA	40	U	ng/L	40	10/01/19 10:53	10/08/19 22:31	ASBPROC-800PFAS
375-73-5	PFBS	35	U	ng/L	35	10/01/19 10:53	10/08/19 22:31	ASBPROC-800PFAS
335-76-2	PFDA	160	U	ng/L	160	10/01/19 10:53	10/08/19 22:31	ASBPROC-800PFAS
307-55-1	PFDoA	40	U	ng/L	40	10/01/19 10:53	10/08/19 22:31	ASBPROC-800PFAS
335-77-3	PFDS	38	U	ng/L	38	10/01/19 10:53	10/08/19 22:31	ASBPROC-800PFAS
375-85-9	PFHpA	40	U	ng/L	40	10/01/19 10:53	10/08/19 22:31	ASBPROC-800PFAS
375-92-8	PFHpS	38	U	ng/L	38	10/01/19 10:53	10/08/19 22:31	ASBPROC-800PFAS
307-24-4	PFHxA	40	U	ng/L	40	10/01/19 10:53	10/08/19 22:31	ASBPROC-800PFAS
355-46-4	PFHxS	36	U	ng/L	36	10/01/19 10:53	10/08/19 22:31	ASBPROC-800PFAS
375-95-1	PFNA	40	U	ng/L	40	10/01/19 10:53	10/08/19 22:31	ASBPROC-800PFAS
68259-12-1	PFNS	38	U	ng/L	38	10/01/19 10:53	10/08/19 22:31	ASBPROC-800PFAS
335-67-1	PFOA	40	U	ng/L	40	10/01/19 10:53	10/08/19 22:31	ASBPROC-800PFAS
1763-23-1	PFOS	37	U	ng/L	37	10/01/19 10:53	10/08/19 22:31	ASBPROC-800PFAS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID: 19-0457-trip-blk-1-0916 **Lab ID:** E193805-06

Station ID: **Matrix:** Trip Blank - Water

Date Collected: 9/16/19 15:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2706-90-3	PFPeA	40	U	ng/L	40	10/01/19 10:53	10/08/19 22:31	ASBPROC-800PFAS
2706-91-4	PFPeS	37	U	ng/L	37	10/01/19 10:53	10/08/19 22:31	ASBPROC-800PFAS
376-06-7	PFTeDA	160	U, J, QS-5, Y-2	ng/L	160	10/01/19 10:53	10/08/19 22:31	ASBPROC-800PFAS
72629-94-8	PFTrDA	40	U	ng/L	40	10/01/19 10:53	10/08/19 22:31	ASBPROC-800PFAS
2058-94-8	PFUdA	40	U	ng/L	40	10/01/19 10:53	10/08/19 22:31	ASBPROC-800PFAS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID: 19-0457-CONA1-0916 **Lab ID:** E193805-07

Station ID: CONA1 **Matrix:** Surface Water

Date Collected: 9/17/19 10:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
757124-72-4	4:2FTS	37	U	ng/L	37	10/01/19 10:53	10/08/19 22:51	ASBPROC-800PFAS
27619-97-2	6:2FTS	38	U	ng/L	38	10/01/19 10:53	10/08/19 22:51	ASBPROC-800PFAS
39108-34-4	8:2FTS	38	U	ng/L	38	10/01/19 10:53	10/08/19 22:51	ASBPROC-800PFAS
754-91-6	FOSA	40	U	ng/L	40	10/01/19 10:53	10/08/19 22:51	ASBPROC-800PFAS
13252-13-6	HFPO-DA	40	U	ng/L	40	10/01/19 10:53	10/08/19 22:51	ASBPROC-800PFAS
2991-50-6	N-EtFOSAA	160	U, J, Y-2	ng/L	160	10/01/19 10:53	10/08/19 22:51	ASBPROC-800PFAS
2355-31-9	N-MeFOSAA	160	U	ng/L	160	10/01/19 10:53	10/08/19 22:51	ASBPROC-800PFAS
375-22-4	PFBA	40	U	ng/L	40	10/01/19 10:53	10/08/19 22:51	ASBPROC-800PFAS
375-73-5	PFBS	58		ng/L	35	10/01/19 10:53	10/08/19 22:51	ASBPROC-800PFAS
335-76-2	PFDA	160	U	ng/L	160	10/01/19 10:53	10/08/19 22:51	ASBPROC-800PFAS
307-55-1	PFDoA	40	U	ng/L	40	10/01/19 10:53	10/08/19 22:51	ASBPROC-800PFAS
335-77-3	PFDS	39	U	ng/L	39	10/01/19 10:53	10/08/19 22:51	ASBPROC-800PFAS
375-85-9	PFHpA	40	U	ng/L	40	10/01/19 10:53	10/08/19 22:51	ASBPROC-800PFAS
375-92-8	PFHpS	38	U	ng/L	38	10/01/19 10:53	10/08/19 22:51	ASBPROC-800PFAS
307-24-4	PFHxA	40	U	ng/L	40	10/01/19 10:53	10/08/19 22:51	ASBPROC-800PFAS
355-46-4	PFHxS	36	U	ng/L	36	10/01/19 10:53	10/08/19 22:51	ASBPROC-800PFAS
375-95-1	PFNA	40	U	ng/L	40	10/01/19 10:53	10/08/19 22:51	ASBPROC-800PFAS
68259-12-1	PFNS	38	U	ng/L	38	10/01/19 10:53	10/08/19 22:51	ASBPROC-800PFAS
335-67-1	PFOA	40	U	ng/L	40	10/01/19 10:53	10/08/19 22:51	ASBPROC-800PFAS
1763-23-1	PFOS	37	U	ng/L	37	10/01/19 10:53	10/08/19 22:51	ASBPROC-800PFAS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID: 19-0457-CONA1-0916 **Lab ID:** E193805-07

Station ID: CONA1 **Matrix:** Surface Water

Date Collected: 9/17/19 10:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2706-90-3	PFPeA	27	J, Q-2	ng/L	40	10/01/19 10:53	10/08/19 22:51	ASBPROC-800PFAS
2706-91-4	PFPeS	38	U	ng/L	38	10/01/19 10:53	10/08/19 22:51	ASBPROC-800PFAS
376-06-7	PFTeDA	160	U, J, QS-5, Y-2	ng/L	160	10/01/19 10:53	10/08/19 22:51	ASBPROC-800PFAS
72629-94-8	PFTrDA	40	U	ng/L	40	10/01/19 10:53	10/08/19 22:51	ASBPROC-800PFAS
2058-94-8	PFUdA	40	U	ng/L	40	10/01/19 10:53	10/08/19 22:51	ASBPROC-800PFAS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID: 19-0457-CONA1-F-0916 **Lab ID:** E193805-08
Station ID: CONA1 **Matrix:** Surface Water

Date Collected: 9/17/19 10:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
757124-72-4	4:2FTS	37	U	ng/L	37	10/01/19 10:53	10/08/19 23:11	ASBPROC-800PFAS
27619-97-2	6:2FTS	38	U	ng/L	38	10/01/19 10:53	10/08/19 23:11	ASBPROC-800PFAS
39108-34-4	8:2FTS	38	U	ng/L	38	10/01/19 10:53	10/08/19 23:11	ASBPROC-800PFAS
754-91-6	FOSA	40	U	ng/L	40	10/01/19 10:53	10/08/19 23:11	ASBPROC-800PFAS
13252-13-6	HFPO-DA	40	U	ng/L	40	10/01/19 10:53	10/08/19 23:11	ASBPROC-800PFAS
2991-50-6	N-EtFOSAA	160	U, J, Y-2	ng/L	160	10/01/19 10:53	10/08/19 23:11	ASBPROC-800PFAS
2355-31-9	N-MeFOSAA	160	U	ng/L	160	10/01/19 10:53	10/08/19 23:11	ASBPROC-800PFAS
375-22-4	PFBA	40	U	ng/L	40	10/01/19 10:53	10/08/19 23:11	ASBPROC-800PFAS
375-73-5	PFBS	68		ng/L	35	10/01/19 10:53	10/08/19 23:11	ASBPROC-800PFAS
335-76-2	PFDA	160	U	ng/L	160	10/01/19 10:53	10/08/19 23:11	ASBPROC-800PFAS
307-55-1	PFDoA	40	U	ng/L	40	10/01/19 10:53	10/08/19 23:11	ASBPROC-800PFAS
335-77-3	PFDS	38	U	ng/L	38	10/01/19 10:53	10/08/19 23:11	ASBPROC-800PFAS
375-85-9	PFHpA	40	U	ng/L	40	10/01/19 10:53	10/08/19 23:11	ASBPROC-800PFAS
375-92-8	PFHpS	38	U	ng/L	38	10/01/19 10:53	10/08/19 23:11	ASBPROC-800PFAS
307-24-4	PFHxA	40	U	ng/L	40	10/01/19 10:53	10/08/19 23:11	ASBPROC-800PFAS
355-46-4	PFHxS	36	U	ng/L	36	10/01/19 10:53	10/08/19 23:11	ASBPROC-800PFAS
375-95-1	PFNA	40	U	ng/L	40	10/01/19 10:53	10/08/19 23:11	ASBPROC-800PFAS
68259-12-1	PFNS	38	U	ng/L	38	10/01/19 10:53	10/08/19 23:11	ASBPROC-800PFAS
335-67-1	PFOA	40	U	ng/L	40	10/01/19 10:53	10/08/19 23:11	ASBPROC-800PFAS
1763-23-1	PFOS	37	U	ng/L	37	10/01/19 10:53	10/08/19 23:11	ASBPROC-800PFAS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID: 19-0457-CONA1-F-0916 **Lab ID:** E193805-08

Station ID: CONA1 **Matrix:** Surface Water

Date Collected: 9/17/19 10:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2706-90-3	PFPeA	27	J, Q-2	ng/L	40	10/01/19 10:53	10/08/19 23:11	ASBPROC-800PFAS
2706-91-4	PFPeS	37	U	ng/L	37	10/01/19 10:53	10/08/19 23:11	ASBPROC-800PFAS
376-06-7	PFTeDA	160	U, J, QS-5, Y-2	ng/L	160	10/01/19 10:53	10/08/19 23:11	ASBPROC-800PFAS
72629-94-8	PFTrDA	40	U	ng/L	40	10/01/19 10:53	10/08/19 23:11	ASBPROC-800PFAS
2058-94-8	PFUdA	40	U	ng/L	40	10/01/19 10:53	10/08/19 23:11	ASBPROC-800PFAS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID: 19-0457-CONA2-0916 **Lab ID:** E193805-10
Station ID: CONA2 **Matrix:** Surface Water

Date Collected: 9/17/19 18:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
757124-72-4	4:2FTS	37	U	ng/L	37	10/01/19 10:53	10/08/19 23:31	ASBPROC-800PFAS
27619-97-2	6:2FTS	38	U	ng/L	38	10/01/19 10:53	10/08/19 23:31	ASBPROC-800PFAS
39108-34-4	8:2FTS	38	U	ng/L	38	10/01/19 10:53	10/08/19 23:31	ASBPROC-800PFAS
754-91-6	FOSA	40	U	ng/L	40	10/01/19 10:53	10/08/19 23:31	ASBPROC-800PFAS
13252-13-6	HFPO-DA	40	U	ng/L	40	10/01/19 10:53	10/08/19 23:31	ASBPROC-800PFAS
2991-50-6	N-EtFOSAA	160	U, J, Y-2	ng/L	160	10/01/19 10:53	10/08/19 23:31	ASBPROC-800PFAS
2355-31-9	N-MeFOSAA	160	U	ng/L	160	10/01/19 10:53	10/08/19 23:31	ASBPROC-800PFAS
375-22-4	PFBA	63		ng/L	40	10/01/19 10:53	10/08/19 23:31	ASBPROC-800PFAS
375-73-5	PFBS	360		ng/L	35	10/01/19 10:53	10/08/19 23:31	ASBPROC-800PFAS
335-76-2	PFDA	160	U	ng/L	160	10/01/19 10:53	10/08/19 23:31	ASBPROC-800PFAS
307-55-1	PFDoA	40	U	ng/L	40	10/01/19 10:53	10/08/19 23:31	ASBPROC-800PFAS
335-77-3	PFDS	38	U	ng/L	38	10/01/19 10:53	10/08/19 23:31	ASBPROC-800PFAS
375-85-9	PFHpA	53		ng/L	40	10/01/19 10:53	10/08/19 23:31	ASBPROC-800PFAS
375-92-8	PFHpS	38	U	ng/L	38	10/01/19 10:53	10/08/19 23:31	ASBPROC-800PFAS
307-24-4	PFHxA	110		ng/L	40	10/01/19 10:53	10/08/19 23:31	ASBPROC-800PFAS
355-46-4	PFHxS	24	J, Q-2	ng/L	36	10/01/19 10:53	10/08/19 23:31	ASBPROC-800PFAS
375-95-1	PFNA	40	U	ng/L	40	10/01/19 10:53	10/08/19 23:31	ASBPROC-800PFAS
68259-12-1	PFNS	38	U	ng/L	38	10/01/19 10:53	10/08/19 23:31	ASBPROC-800PFAS
335-67-1	PFOA	120		ng/L	40	10/01/19 10:53	10/08/19 23:31	ASBPROC-800PFAS
1763-23-1	PFOS	130		ng/L	37	10/01/19 10:53	10/08/19 23:31	ASBPROC-800PFAS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID: 19-0457-CONA2-0916 **Lab ID:** E193805-10
Station ID: CONA2 **Matrix:** Surface Water

Date Collected: 9/17/19 18:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2706-90-3	PFPeA	170		ng/L	40	10/01/19 10:53	10/08/19 23:31	ASBPROC-800PFAS
2706-91-4	PFPeS	37	U	ng/L	37	10/01/19 10:53	10/08/19 23:31	ASBPROC-800PFAS
376-06-7	PFTeDA	160	U, J, QS-5, Y-2	ng/L	160	10/01/19 10:53	10/08/19 23:31	ASBPROC-800PFAS
72629-94-8	PFTrDA	40	U	ng/L	40	10/01/19 10:53	10/08/19 23:31	ASBPROC-800PFAS
2058-94-8	PFUdA	40	U	ng/L	40	10/01/19 10:53	10/08/19 23:31	ASBPROC-800PFAS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID: 19-0457-CONA3-0916 **Lab ID:** E193805-12
Station ID: CONA3 **Matrix:** Surface Water

Date Collected: 9/17/19 13:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
757124-72-4	4:2FTS	37	U	ng/L	37	10/01/19 10:53	10/08/19 23:51	ASBPROC-800PFAS
27619-97-2	6:2FTS	29	J, Q-2	ng/L	38	10/01/19 10:53	10/08/19 23:51	ASBPROC-800PFAS
39108-34-4	8:2FTS	38	U	ng/L	38	10/01/19 10:53	10/08/19 23:51	ASBPROC-800PFAS
754-91-6	FOSA	40	U	ng/L	40	10/01/19 10:53	10/08/19 23:51	ASBPROC-800PFAS
13252-13-6	HFPO-DA	40	U	ng/L	40	10/01/19 10:53	10/08/19 23:51	ASBPROC-800PFAS
2991-50-6	N-EtFOSAA	160	U, J, Y-2	ng/L	160	10/01/19 10:53	10/08/19 23:51	ASBPROC-800PFAS
2355-31-9	N-MeFOSAA	160	U	ng/L	160	10/01/19 10:53	10/08/19 23:51	ASBPROC-800PFAS
375-22-4	PFBA	40	U	ng/L	40	10/01/19 10:53	10/08/19 23:51	ASBPROC-800PFAS
375-73-5	PFBS	250		ng/L	35	10/01/19 10:53	10/08/19 23:51	ASBPROC-800PFAS
335-76-2	PFDA	160	U	ng/L	160	10/01/19 10:53	10/08/19 23:51	ASBPROC-800PFAS
307-55-1	PFDoA	40	U	ng/L	40	10/01/19 10:53	10/08/19 23:51	ASBPROC-800PFAS
335-77-3	PFDS	39	U	ng/L	39	10/01/19 10:53	10/08/19 23:51	ASBPROC-800PFAS
375-85-9	PFHpA	57		ng/L	40	10/01/19 10:53	10/08/19 23:51	ASBPROC-800PFAS
375-92-8	PFHpS	38	U	ng/L	38	10/01/19 10:53	10/08/19 23:51	ASBPROC-800PFAS
307-24-4	PFHxA	110		ng/L	40	10/01/19 10:53	10/08/19 23:51	ASBPROC-800PFAS
355-46-4	PFHxS	25	J, Q-2	ng/L	36	10/01/19 10:53	10/08/19 23:51	ASBPROC-800PFAS
375-95-1	PFNA	40	U	ng/L	40	10/01/19 10:53	10/08/19 23:51	ASBPROC-800PFAS
68259-12-1	PFNS	38	U	ng/L	38	10/01/19 10:53	10/08/19 23:51	ASBPROC-800PFAS
335-67-1	PFOA	140		ng/L	40	10/01/19 10:53	10/08/19 23:51	ASBPROC-800PFAS
1763-23-1	PFOS	140		ng/L	37	10/01/19 10:53	10/08/19 23:51	ASBPROC-800PFAS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID: 19-0457-CONA3-0916 **Lab ID:** E193805-12
Station ID: CONA3 **Matrix:** Surface Water

Date Collected: 9/17/19 13:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2706-90-3	PFPeA	180		ng/L	40	10/01/19 10:53	10/08/19 23:51	ASBPROC-800PFAS
2706-91-4	PFPeS	38	U	ng/L	38	10/01/19 10:53	10/08/19 23:51	ASBPROC-800PFAS
376-06-7	PFTeDA	160	U, J, QS-5, Y-2	ng/L	160	10/01/19 10:53	10/08/19 23:51	ASBPROC-800PFAS
72629-94-8	PFTrDA	40	U	ng/L	40	10/01/19 10:53	10/08/19 23:51	ASBPROC-800PFAS
2058-94-8	PFUdA	40	U	ng/L	40	10/01/19 10:53	10/08/19 23:51	ASBPROC-800PFAS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID: 19-0457-CONA3-F-0916 **Lab ID:** E193805-13
Station ID: CONA3 **Matrix:** Surface Water

Date Collected: 9/17/19 13:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
757124-72-4	4:2FTS	37	U	ng/L	37	10/01/19 10:53	10/09/19 0:51	ASBPROC-800PFAS
27619-97-2	6:2FTS	38	U	ng/L	38	10/01/19 10:53	10/09/19 0:51	ASBPROC-800PFAS
39108-34-4	8:2FTS	38	U	ng/L	38	10/01/19 10:53	10/09/19 0:51	ASBPROC-800PFAS
754-91-6	FOSA	40	U	ng/L	40	10/01/19 10:53	10/09/19 0:51	ASBPROC-800PFAS
13252-13-6	HFPO-DA	40	U	ng/L	40	10/01/19 10:53	10/09/19 0:51	ASBPROC-800PFAS
2991-50-6	N-EtFOSAA	160	U, J, Y-2	ng/L	160	10/01/19 10:53	10/09/19 0:51	ASBPROC-800PFAS
2355-31-9	N-MeFOSAA	160	U	ng/L	160	10/01/19 10:53	10/09/19 0:51	ASBPROC-800PFAS
375-22-4	PFBA	42	J, QS-3	ng/L	40	10/01/19 10:53	10/09/19 0:51	ASBPROC-800PFAS
375-73-5	PFBS	330		ng/L	35	10/01/19 10:53	10/09/19 0:51	ASBPROC-800PFAS
335-76-2	PFDA	160	U	ng/L	160	10/01/19 10:53	10/09/19 0:51	ASBPROC-800PFAS
307-55-1	PFDoA	40	U	ng/L	40	10/01/19 10:53	10/09/19 0:51	ASBPROC-800PFAS
335-77-3	PFDS	38	U	ng/L	38	10/01/19 10:53	10/09/19 0:51	ASBPROC-800PFAS
375-85-9	PFHpA	53		ng/L	40	10/01/19 10:53	10/09/19 0:51	ASBPROC-800PFAS
375-92-8	PFHpS	38	U	ng/L	38	10/01/19 10:53	10/09/19 0:51	ASBPROC-800PFAS
307-24-4	PFHxA	100		ng/L	40	10/01/19 10:53	10/09/19 0:51	ASBPROC-800PFAS
355-46-4	PFHxS	19	J, Q-2	ng/L	36	10/01/19 10:53	10/09/19 0:51	ASBPROC-800PFAS
375-95-1	PFNA	40	U	ng/L	40	10/01/19 10:53	10/09/19 0:51	ASBPROC-800PFAS
68259-12-1	PFNS	38	U	ng/L	38	10/01/19 10:53	10/09/19 0:51	ASBPROC-800PFAS
335-67-1	PFOA	120		ng/L	40	10/01/19 10:53	10/09/19 0:51	ASBPROC-800PFAS
1763-23-1	PFOS	100		ng/L	37	10/01/19 10:53	10/09/19 0:51	ASBPROC-800PFAS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID: 19-0457-CONA3-F-0916 **Lab ID:** E193805-13

Station ID: CONA3 **Matrix:** Surface Water

Date Collected: 9/17/19 13:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2706-90-3	PFPeA	160		ng/L	40	10/01/19 10:53	10/09/19 0:51	ASBPROC-800PFAS
2706-91-4	PFPeS	37	U	ng/L	37	10/01/19 10:53	10/09/19 0:51	ASBPROC-800PFAS
376-06-7	PFTeDA	160	U, J, QS-5, Y-2	ng/L	160	10/01/19 10:53	10/09/19 0:51	ASBPROC-800PFAS
72629-94-8	PFTrDA	40	U	ng/L	40	10/01/19 10:53	10/09/19 0:51	ASBPROC-800PFAS
2058-94-8	PFUdA	40	U	ng/L	40	10/01/19 10:53	10/09/19 0:51	ASBPROC-800PFAS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID: 19-0457-CONA4-0916 **Lab ID:** E193805-15
Station ID: CONA4 **Matrix:** Surface Water

Date Collected: 9/17/19 14:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
757124-72-4	4:2FTS	37	U	ng/L	37	10/01/19 10:53	10/09/19 1:11	ASBPROC-800PFAS
27619-97-2	6:2FTS	38	U	ng/L	38	10/01/19 10:53	10/09/19 1:11	ASBPROC-800PFAS
39108-34-4	8:2FTS	38	U	ng/L	38	10/01/19 10:53	10/09/19 1:11	ASBPROC-800PFAS
754-91-6	FOSA	40	U	ng/L	40	10/01/19 10:53	10/09/19 1:11	ASBPROC-800PFAS
13252-13-6	HFPO-DA	40	U	ng/L	40	10/01/19 10:53	10/09/19 1:11	ASBPROC-800PFAS
2991-50-6	N-EtFOSAA	160	U, J, Y-2	ng/L	160	10/01/19 10:53	10/09/19 1:11	ASBPROC-800PFAS
2355-31-9	N-MeFOSAA	160	U	ng/L	160	10/01/19 10:53	10/09/19 1:11	ASBPROC-800PFAS
375-22-4	PFBA	74		ng/L	40	10/01/19 10:53	10/09/19 1:11	ASBPROC-800PFAS
375-73-5	PFBS	400		ng/L	35	10/01/19 10:53	10/09/19 1:11	ASBPROC-800PFAS
335-76-2	PFDA	160	U	ng/L	160	10/01/19 10:53	10/09/19 1:11	ASBPROC-800PFAS
307-55-1	PFDoA	40	U	ng/L	40	10/01/19 10:53	10/09/19 1:11	ASBPROC-800PFAS
335-77-3	PFDS	39	U	ng/L	39	10/01/19 10:53	10/09/19 1:11	ASBPROC-800PFAS
375-85-9	PFHpA	59		ng/L	40	10/01/19 10:53	10/09/19 1:11	ASBPROC-800PFAS
375-92-8	PFHpS	38	U	ng/L	38	10/01/19 10:53	10/09/19 1:11	ASBPROC-800PFAS
307-24-4	PFHxA	110		ng/L	40	10/01/19 10:53	10/09/19 1:11	ASBPROC-800PFAS
355-46-4	PFHxS	27	J, Q-2	ng/L	36	10/01/19 10:53	10/09/19 1:11	ASBPROC-800PFAS
375-95-1	PFNA	40	U	ng/L	40	10/01/19 10:53	10/09/19 1:11	ASBPROC-800PFAS
68259-12-1	PFNS	38	U	ng/L	38	10/01/19 10:53	10/09/19 1:11	ASBPROC-800PFAS
335-67-1	PFOA	140		ng/L	40	10/01/19 10:53	10/09/19 1:11	ASBPROC-800PFAS
1763-23-1	PFOS	130		ng/L	37	10/01/19 10:53	10/09/19 1:11	ASBPROC-800PFAS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID: 19-0457-CONA4-0916 **Lab ID:** E193805-15
Station ID: CONA4 **Matrix:** Surface Water

Date Collected: 9/17/19 14:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2706-90-3	PFPeA	170		ng/L	40	10/01/19 10:53	10/09/19 1:11	ASBPROC-800PFAS
2706-91-4	PFPeS	38	U	ng/L	38	10/01/19 10:53	10/09/19 1:11	ASBPROC-800PFAS
376-06-7	PFTeDA	160	U, J, QS-5, Y-2	ng/L	160	10/01/19 10:53	10/09/19 1:11	ASBPROC-800PFAS
72629-94-8	PFTrDA	40	U	ng/L	40	10/01/19 10:53	10/09/19 1:11	ASBPROC-800PFAS
2058-94-8	PFUdA	40	U	ng/L	40	10/01/19 10:53	10/09/19 1:11	ASBPROC-800PFAS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID: 19-0457-CRI-0916 **Lab ID:** E193805-17
Station ID: CRI **Matrix:** Surface Water

Date Collected: 9/16/19 12:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
757124-72-4	4:2FTS	37	U	ng/L	37	10/01/19 10:53	10/09/19 1:31	ASBPROC-800PFAS
27619-97-2	6:2FTS	38	U	ng/L	38	10/01/19 10:53	10/09/19 1:31	ASBPROC-800PFAS
39108-34-4	8:2FTS	38	U	ng/L	38	10/01/19 10:53	10/09/19 1:31	ASBPROC-800PFAS
754-91-6	FOSA	40	U	ng/L	40	10/01/19 10:53	10/09/19 1:31	ASBPROC-800PFAS
13252-13-6	HFPO-DA	40	U	ng/L	40	10/01/19 10:53	10/09/19 1:31	ASBPROC-800PFAS
2991-50-6	N-EtFOSAA	160	U, J, Y-2	ng/L	160	10/01/19 10:53	10/09/19 1:31	ASBPROC-800PFAS
2355-31-9	N-MeFOSAA	160	U	ng/L	160	10/01/19 10:53	10/09/19 1:31	ASBPROC-800PFAS
375-22-4	PFBA	40	U	ng/L	40	10/01/19 10:53	10/09/19 1:31	ASBPROC-800PFAS
375-73-5	PFBS	39		ng/L	35	10/01/19 10:53	10/09/19 1:31	ASBPROC-800PFAS
335-76-2	PFDA	160	U	ng/L	160	10/01/19 10:53	10/09/19 1:31	ASBPROC-800PFAS
307-55-1	PFDoA	40	U	ng/L	40	10/01/19 10:53	10/09/19 1:31	ASBPROC-800PFAS
335-77-3	PFDS	38	U	ng/L	38	10/01/19 10:53	10/09/19 1:31	ASBPROC-800PFAS
375-85-9	PFHpA	40	U	ng/L	40	10/01/19 10:53	10/09/19 1:31	ASBPROC-800PFAS
375-92-8	PFHpS	38	U	ng/L	38	10/01/19 10:53	10/09/19 1:31	ASBPROC-800PFAS
307-24-4	PFHxA	40	U	ng/L	40	10/01/19 10:53	10/09/19 1:31	ASBPROC-800PFAS
355-46-4	PFHxS	36	U	ng/L	36	10/01/19 10:53	10/09/19 1:31	ASBPROC-800PFAS
375-95-1	PFNA	40	U	ng/L	40	10/01/19 10:53	10/09/19 1:31	ASBPROC-800PFAS
68259-12-1	PFNS	38	U	ng/L	38	10/01/19 10:53	10/09/19 1:31	ASBPROC-800PFAS
335-67-1	PFOA	40	U	ng/L	40	10/01/19 10:53	10/09/19 1:31	ASBPROC-800PFAS
1763-23-1	PFOS	37	U	ng/L	37	10/01/19 10:53	10/09/19 1:31	ASBPROC-800PFAS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID: 19-0457-CRI-0916 **Lab ID:** E193805-17

Station ID: CRI **Matrix:** Surface Water

Date Collected: 9/16/19 12:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2706-90-3	PFPeA	22	J, Q-2	ng/L	40	10/01/19 10:53	10/09/19 1:31	ASBPROC-800PFAS
2706-91-4	PFPeS	37	U	ng/L	37	10/01/19 10:53	10/09/19 1:31	ASBPROC-800PFAS
376-06-7	PFTeDA	160	U, J, QS-5, Y-2	ng/L	160	10/01/19 10:53	10/09/19 1:31	ASBPROC-800PFAS
72629-94-8	PFTrDA	40	U	ng/L	40	10/01/19 10:53	10/09/19 1:31	ASBPROC-800PFAS
2058-94-8	PFUdA	40	U	ng/L	40	10/01/19 10:53	10/09/19 1:31	ASBPROC-800PFAS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID: 19-0457-CRI-DUP-0916 **Lab ID:** E193805-18
Station ID: CRI **Matrix:** Surface Water

Date Collected: 9/16/19 13:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
757124-72-4	4:2FTS	37	U	ng/L	37	10/01/19 10:53	10/09/19 1:51	ASBPROC-800PFAS
27619-97-2	6:2FTS	38	U	ng/L	38	10/01/19 10:53	10/09/19 1:51	ASBPROC-800PFAS
39108-34-4	8:2FTS	38	U	ng/L	38	10/01/19 10:53	10/09/19 1:51	ASBPROC-800PFAS
754-91-6	FOSA	40	U	ng/L	40	10/01/19 10:53	10/09/19 1:51	ASBPROC-800PFAS
13252-13-6	HFPO-DA	40	U	ng/L	40	10/01/19 10:53	10/09/19 1:51	ASBPROC-800PFAS
2991-50-6	N-EtFOSAA	160	U, J, Y-2	ng/L	160	10/01/19 10:53	10/09/19 1:51	ASBPROC-800PFAS
2355-31-9	N-MeFOSAA	160	U	ng/L	160	10/01/19 10:53	10/09/19 1:51	ASBPROC-800PFAS
375-22-4	PFBA	40	U	ng/L	40	10/01/19 10:53	10/09/19 1:51	ASBPROC-800PFAS
375-73-5	PFBS	41		ng/L	35	10/01/19 10:53	10/09/19 1:51	ASBPROC-800PFAS
335-76-2	PFDA	160	U	ng/L	160	10/01/19 10:53	10/09/19 1:51	ASBPROC-800PFAS
307-55-1	PFDoA	40	U	ng/L	40	10/01/19 10:53	10/09/19 1:51	ASBPROC-800PFAS
335-77-3	PFDS	38	U	ng/L	38	10/01/19 10:53	10/09/19 1:51	ASBPROC-800PFAS
375-85-9	PFHpA	40	U	ng/L	40	10/01/19 10:53	10/09/19 1:51	ASBPROC-800PFAS
375-92-8	PFHpS	38	U	ng/L	38	10/01/19 10:53	10/09/19 1:51	ASBPROC-800PFAS
307-24-4	PFHxA	40	U	ng/L	40	10/01/19 10:53	10/09/19 1:51	ASBPROC-800PFAS
355-46-4	PFHxS	36	U	ng/L	36	10/01/19 10:53	10/09/19 1:51	ASBPROC-800PFAS
375-95-1	PFNA	40	U	ng/L	40	10/01/19 10:53	10/09/19 1:51	ASBPROC-800PFAS
68259-12-1	PFNS	38	U	ng/L	38	10/01/19 10:53	10/09/19 1:51	ASBPROC-800PFAS
335-67-1	PFOA	40	U	ng/L	40	10/01/19 10:53	10/09/19 1:51	ASBPROC-800PFAS
1763-23-1	PFOS	37	U	ng/L	37	10/01/19 10:53	10/09/19 1:51	ASBPROC-800PFAS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID: 19-0457-CRI-DUP-0916 **Lab ID:** E193805-18

Station ID: CRI **Matrix:** Surface Water

Date Collected: 9/16/19 13:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2706-90-3	PFPeA	23	J, Q-2	ng/L	40	10/01/19 10:53	10/09/19 1:51	ASBPROC-800PFAS
2706-91-4	PFPeS	37	U	ng/L	37	10/01/19 10:53	10/09/19 1:51	ASBPROC-800PFAS
376-06-7	PFTeDA	160	U, J, QS-5, Y-2	ng/L	160	10/01/19 10:53	10/09/19 1:51	ASBPROC-800PFAS
72629-94-8	PFTrDA	40	U	ng/L	40	10/01/19 10:53	10/09/19 1:51	ASBPROC-800PFAS
2058-94-8	PFUdA	40	U	ng/L	40	10/01/19 10:53	10/09/19 1:51	ASBPROC-800PFAS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID: 19-0457-CRI-F-0916 **Lab ID:** E193805-19
Station ID: CRI **Matrix:** Surface Water

Date Collected: 9/16/19 12:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
757124-72-4	4:2FTS	37	U	ng/L	37	10/01/19 10:53	10/09/19 2:11	ASBPROC-800PFAS
27619-97-2	6:2FTS	38	U	ng/L	38	10/01/19 10:53	10/09/19 2:11	ASBPROC-800PFAS
39108-34-4	8:2FTS	38	U	ng/L	38	10/01/19 10:53	10/09/19 2:11	ASBPROC-800PFAS
754-91-6	FOSA	40	U	ng/L	40	10/01/19 10:53	10/09/19 2:11	ASBPROC-800PFAS
13252-13-6	HFPO-DA	40	U	ng/L	40	10/01/19 10:53	10/09/19 2:11	ASBPROC-800PFAS
2991-50-6	N-EtFOSAA	160	U, J, Y-2	ng/L	160	10/01/19 10:53	10/09/19 2:11	ASBPROC-800PFAS
2355-31-9	N-MeFOSAA	160	U	ng/L	160	10/01/19 10:53	10/09/19 2:11	ASBPROC-800PFAS
375-22-4	PFBA	40	U	ng/L	40	10/01/19 10:53	10/09/19 2:11	ASBPROC-800PFAS
375-73-5	PFBS	41		ng/L	35	10/01/19 10:53	10/09/19 2:11	ASBPROC-800PFAS
335-76-2	PFDA	160	U	ng/L	160	10/01/19 10:53	10/09/19 2:11	ASBPROC-800PFAS
307-55-1	PFDoA	40	U	ng/L	40	10/01/19 10:53	10/09/19 2:11	ASBPROC-800PFAS
335-77-3	PFDS	38	U	ng/L	38	10/01/19 10:53	10/09/19 2:11	ASBPROC-800PFAS
375-85-9	PFHpA	40	U	ng/L	40	10/01/19 10:53	10/09/19 2:11	ASBPROC-800PFAS
375-92-8	PFHpS	38	U	ng/L	38	10/01/19 10:53	10/09/19 2:11	ASBPROC-800PFAS
307-24-4	PFHxA	40	U	ng/L	40	10/01/19 10:53	10/09/19 2:11	ASBPROC-800PFAS
355-46-4	PFHxS	36	U	ng/L	36	10/01/19 10:53	10/09/19 2:11	ASBPROC-800PFAS
375-95-1	PFNA	40	U	ng/L	40	10/01/19 10:53	10/09/19 2:11	ASBPROC-800PFAS
68259-12-1	PFNS	38	U	ng/L	38	10/01/19 10:53	10/09/19 2:11	ASBPROC-800PFAS
335-67-1	PFOA	40	U	ng/L	40	10/01/19 10:53	10/09/19 2:11	ASBPROC-800PFAS
1763-23-1	PFOS	37	U	ng/L	37	10/01/19 10:53	10/09/19 2:11	ASBPROC-800PFAS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID: 19-0457-CRI-F-0916 **Lab ID:** E193805-19

Station ID: CRI **Matrix:** Surface Water

Date Collected: 9/16/19 12:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2706-90-3	PFPeA	25	J, Q-2	ng/L	40	10/01/19 10:53	10/09/19 2:11	ASBPROC-800PFAS
2706-91-4	PFPeS	37	U	ng/L	37	10/01/19 10:53	10/09/19 2:11	ASBPROC-800PFAS
376-06-7	PFTeDA	160	U, J, QS-5, Y-2	ng/L	160	10/01/19 10:53	10/09/19 2:11	ASBPROC-800PFAS
72629-94-8	PFTrDA	40	U	ng/L	40	10/01/19 10:53	10/09/19 2:11	ASBPROC-800PFAS
2058-94-8	PFUdA	40	U	ng/L	40	10/01/19 10:53	10/09/19 2:11	ASBPROC-800PFAS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID: 19-0457-CRI-F-DUP-0916 **Lab ID:** E193805-20

Station ID: CRI **Matrix:** Surface Water

Date Collected: 9/16/19 13:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
757124-72-4	4:2FTS	37	U	ng/L	37	10/01/19 10:53	10/09/19 2:31	ASBPROC-800PFAS
27619-97-2	6:2FTS	38	U	ng/L	38	10/01/19 10:53	10/09/19 2:31	ASBPROC-800PFAS
39108-34-4	8:2FTS	38	U	ng/L	38	10/01/19 10:53	10/09/19 2:31	ASBPROC-800PFAS
754-91-6	FOSA	40	U	ng/L	40	10/01/19 10:53	10/09/19 2:31	ASBPROC-800PFAS
13252-13-6	HFPO-DA	40	U	ng/L	40	10/01/19 10:53	10/09/19 2:31	ASBPROC-800PFAS
2991-50-6	N-EtFOSAA	160	U, J, Y-2	ng/L	160	10/01/19 10:53	10/09/19 2:31	ASBPROC-800PFAS
2355-31-9	N-MeFOSAA	160	U	ng/L	160	10/01/19 10:53	10/09/19 2:31	ASBPROC-800PFAS
375-22-4	PFBA	40	U	ng/L	40	10/01/19 10:53	10/09/19 2:31	ASBPROC-800PFAS
375-73-5	PFBS	35		ng/L	35	10/01/19 10:53	10/09/19 2:31	ASBPROC-800PFAS
335-76-2	PFDA	160	U	ng/L	160	10/01/19 10:53	10/09/19 2:31	ASBPROC-800PFAS
307-55-1	PFDoA	40	U	ng/L	40	10/01/19 10:53	10/09/19 2:31	ASBPROC-800PFAS
335-77-3	PFDS	38	U	ng/L	38	10/01/19 10:53	10/09/19 2:31	ASBPROC-800PFAS
375-85-9	PFHpA	40	U	ng/L	40	10/01/19 10:53	10/09/19 2:31	ASBPROC-800PFAS
375-92-8	PFHpS	38	U	ng/L	38	10/01/19 10:53	10/09/19 2:31	ASBPROC-800PFAS
307-24-4	PFHxA	40	U	ng/L	40	10/01/19 10:53	10/09/19 2:31	ASBPROC-800PFAS
355-46-4	PFHxS	36	U	ng/L	36	10/01/19 10:53	10/09/19 2:31	ASBPROC-800PFAS
375-95-1	PFNA	40	U	ng/L	40	10/01/19 10:53	10/09/19 2:31	ASBPROC-800PFAS
68259-12-1	PFNS	38	U	ng/L	38	10/01/19 10:53	10/09/19 2:31	ASBPROC-800PFAS
335-67-1	PFOA	40	U	ng/L	40	10/01/19 10:53	10/09/19 2:31	ASBPROC-800PFAS
1763-23-1	PFOS	37	U	ng/L	37	10/01/19 10:53	10/09/19 2:31	ASBPROC-800PFAS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID: 19-0457-CRI-F-DUP-0916 **Lab ID:** E193805-20

Station ID: CRI **Matrix:** Surface Water

Date Collected: 9/16/19 13:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2706-90-3	PFPeA	26	J, Q-2	ng/L	40	10/01/19 10:53	10/09/19 2:31	ASBPROC-800PFAS
2706-91-4	PFPeS	37	U	ng/L	37	10/01/19 10:53	10/09/19 2:31	ASBPROC-800PFAS
376-06-7	PFTeDA	160	U, J, QS-5, Y-2	ng/L	160	10/01/19 10:53	10/09/19 2:31	ASBPROC-800PFAS
72629-94-8	PFTrDA	40	U	ng/L	40	10/01/19 10:53	10/09/19 2:31	ASBPROC-800PFAS
2058-94-8	PFUdA	40	U	ng/L	40	10/01/19 10:53	10/09/19 2:31	ASBPROC-800PFAS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID: 19-0457-OOST1-0916 **Lab ID:** E193805-23
Station ID: OOST1 **Matrix:** Surface Water

Date Collected: 9/17/19 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
757124-72-4	4:2FTS	37	U	ng/L	37	10/01/19 10:53	10/09/19 2:51	ASBPROC-800PFAS
27619-97-2	6:2FTS	38	U	ng/L	38	10/01/19 10:53	10/09/19 2:51	ASBPROC-800PFAS
39108-34-4	8:2FTS	38	U	ng/L	38	10/01/19 10:53	10/09/19 2:51	ASBPROC-800PFAS
754-91-6	FOSA	40	U	ng/L	40	10/01/19 10:53	10/09/19 2:51	ASBPROC-800PFAS
13252-13-6	HFPO-DA	40	U	ng/L	40	10/01/19 10:53	10/09/19 2:51	ASBPROC-800PFAS
2991-50-6	N-EtFOSAA	160	U, J, Y-2	ng/L	160	10/01/19 10:53	10/09/19 2:51	ASBPROC-800PFAS
2355-31-9	N-MeFOSAA	160	U	ng/L	160	10/01/19 10:53	10/09/19 2:51	ASBPROC-800PFAS
375-22-4	PFBA	40	U	ng/L	40	10/01/19 10:53	10/09/19 2:51	ASBPROC-800PFAS
375-73-5	PFBS	190		ng/L	35	10/01/19 10:53	10/09/19 2:51	ASBPROC-800PFAS
335-76-2	PFDA	160	U	ng/L	160	10/01/19 10:53	10/09/19 2:51	ASBPROC-800PFAS
307-55-1	PFDoA	40	U	ng/L	40	10/01/19 10:53	10/09/19 2:51	ASBPROC-800PFAS
335-77-3	PFDS	38	U	ng/L	38	10/01/19 10:53	10/09/19 2:51	ASBPROC-800PFAS
375-85-9	PFHpA	18	J, Q-2	ng/L	40	10/01/19 10:53	10/09/19 2:51	ASBPROC-800PFAS
375-92-8	PFHpS	38	U	ng/L	38	10/01/19 10:53	10/09/19 2:51	ASBPROC-800PFAS
307-24-4	PFHxA	36	J, Q-2	ng/L	40	10/01/19 10:53	10/09/19 2:51	ASBPROC-800PFAS
355-46-4	PFHxS	36	U	ng/L	36	10/01/19 10:53	10/09/19 2:51	ASBPROC-800PFAS
375-95-1	PFNA	40	U	ng/L	40	10/01/19 10:53	10/09/19 2:51	ASBPROC-800PFAS
68259-12-1	PFNS	38	U	ng/L	38	10/01/19 10:53	10/09/19 2:51	ASBPROC-800PFAS
335-67-1	PFOA	41		ng/L	40	10/01/19 10:53	10/09/19 2:51	ASBPROC-800PFAS
1763-23-1	PFOS	31	J, Q-2	ng/L	37	10/01/19 10:53	10/09/19 2:51	ASBPROC-800PFAS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID: 19-0457-OOST1-0916 **Lab ID:** E193805-23

Station ID: OOST1 **Matrix:** Surface Water

Date Collected: 9/17/19 9:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2706-90-3	PFPeA	45		ng/L	40	10/01/19 10:53	10/09/19 2:51	ASBPROC-800PFAS
2706-91-4	PFPeS	37	U	ng/L	37	10/01/19 10:53	10/09/19 2:51	ASBPROC-800PFAS
376-06-7	PFTeDA	160	U, J, QS-5, Y-2	ng/L	160	10/01/19 10:53	10/09/19 2:51	ASBPROC-800PFAS
72629-94-8	PFTrDA	40	U	ng/L	40	10/01/19 10:53	10/09/19 2:51	ASBPROC-800PFAS
2058-94-8	PFUdA	40	U	ng/L	40	10/01/19 10:53	10/09/19 2:51	ASBPROC-800PFAS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID: 19-0457-OOST2-0916 **Lab ID:** E193805-25
Station ID: OOST2 **Matrix:** Surface Water

Date Collected: 9/16/19 16:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
757124-72-4	4:2FTS	37	U	ng/L	37	10/01/19 10:53	10/09/19 3:11	ASBPROC-800PFAS
27619-97-2	6:2FTS	38	U	ng/L	38	10/01/19 10:53	10/09/19 3:11	ASBPROC-800PFAS
39108-34-4	8:2FTS	38	U	ng/L	38	10/01/19 10:53	10/09/19 3:11	ASBPROC-800PFAS
754-91-6	FOSA	40	U	ng/L	40	10/01/19 10:53	10/09/19 3:11	ASBPROC-800PFAS
13252-13-6	HFPO-DA	40	U	ng/L	40	10/01/19 10:53	10/09/19 3:11	ASBPROC-800PFAS
2991-50-6	N-EtFOSAA	160	U, J, Y-2	ng/L	160	10/01/19 10:53	10/09/19 3:11	ASBPROC-800PFAS
2355-31-9	N-MeFOSAA	160	U	ng/L	160	10/01/19 10:53	10/09/19 3:11	ASBPROC-800PFAS
375-22-4	PFBA	40	U	ng/L	40	10/01/19 10:53	10/09/19 3:11	ASBPROC-800PFAS
375-73-5	PFBS	210		ng/L	35	10/01/19 10:53	10/09/19 3:11	ASBPROC-800PFAS
335-76-2	PFDA	160	U	ng/L	160	10/01/19 10:53	10/09/19 3:11	ASBPROC-800PFAS
307-55-1	PFDoA	40	U	ng/L	40	10/01/19 10:53	10/09/19 3:11	ASBPROC-800PFAS
335-77-3	PFDS	38	U	ng/L	38	10/01/19 10:53	10/09/19 3:11	ASBPROC-800PFAS
375-85-9	PFHpA	18	J, Q-2	ng/L	40	10/01/19 10:53	10/09/19 3:11	ASBPROC-800PFAS
375-92-8	PFHpS	38	U	ng/L	38	10/01/19 10:53	10/09/19 3:11	ASBPROC-800PFAS
307-24-4	PFHxA	35	J, Q-2	ng/L	40	10/01/19 10:53	10/09/19 3:11	ASBPROC-800PFAS
355-46-4	PFHxS	36	U	ng/L	36	10/01/19 10:53	10/09/19 3:11	ASBPROC-800PFAS
375-95-1	PFNA	40	U	ng/L	40	10/01/19 10:53	10/09/19 3:11	ASBPROC-800PFAS
68259-12-1	PFNS	38	U	ng/L	38	10/01/19 10:53	10/09/19 3:11	ASBPROC-800PFAS
335-67-1	PFOA	43		ng/L	40	10/01/19 10:53	10/09/19 3:11	ASBPROC-800PFAS
1763-23-1	PFOS	110		ng/L	37	10/01/19 10:53	10/09/19 3:11	ASBPROC-800PFAS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID: 19-0457-OOST2-0916 **Lab ID:** E193805-25
Station ID: OOST2 **Matrix:** Surface Water

Date Collected: 9/16/19 16:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2706-90-3	PFPeA	47		ng/L	40	10/01/19 10:53	10/09/19 3:11	ASBPROC-800PFAS
2706-91-4	PFPeS	37 U		ng/L	37	10/01/19 10:53	10/09/19 3:11	ASBPROC-800PFAS
376-06-7	PFTeDA	160 U, J, QS-5, Y-2		ng/L	160	10/01/19 10:53	10/09/19 3:11	ASBPROC-800PFAS
72629-94-8	PFTrDA	40 U		ng/L	40	10/01/19 10:53	10/09/19 3:11	ASBPROC-800PFAS
2058-94-8	PFUdA	40 U		ng/L	40	10/01/19 10:53	10/09/19 3:11	ASBPROC-800PFAS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID: 19-0457-OOST3-0916 **Lab ID:** E193805-27
Station ID: OOST3 **Matrix:** Surface Water

Date Collected: 9/16/19 15:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
757124-72-4	4:2FTS	37	U	ng/L	37	10/01/19 10:53	10/09/19 3:31	ASBPROC-800PFAS
27619-97-2	6:2FTS	38	U	ng/L	38	10/01/19 10:53	10/09/19 3:31	ASBPROC-800PFAS
39108-34-4	8:2FTS	38	U	ng/L	38	10/01/19 10:53	10/09/19 3:31	ASBPROC-800PFAS
754-91-6	FOSA	40	U	ng/L	40	10/01/19 10:53	10/09/19 3:31	ASBPROC-800PFAS
13252-13-6	HFPO-DA	40	U	ng/L	40	10/01/19 10:53	10/09/19 3:31	ASBPROC-800PFAS
2991-50-6	N-EtFOSAA	160	U, J, Y-2	ng/L	160	10/01/19 10:53	10/09/19 3:31	ASBPROC-800PFAS
2355-31-9	N-MeFOSAA	160	U	ng/L	160	10/01/19 10:53	10/09/19 3:31	ASBPROC-800PFAS
375-22-4	PFBA	40	U	ng/L	40	10/01/19 10:53	10/09/19 3:31	ASBPROC-800PFAS
375-73-5	PFBS	210		ng/L	35	10/01/19 10:53	10/09/19 3:31	ASBPROC-800PFAS
335-76-2	PFDA	160	U	ng/L	160	10/01/19 10:53	10/09/19 3:31	ASBPROC-800PFAS
307-55-1	PFDoA	40	U	ng/L	40	10/01/19 10:53	10/09/19 3:31	ASBPROC-800PFAS
335-77-3	PFDS	38	U	ng/L	38	10/01/19 10:53	10/09/19 3:31	ASBPROC-800PFAS
375-85-9	PFHpA	21	J, Q-2	ng/L	40	10/01/19 10:53	10/09/19 3:31	ASBPROC-800PFAS
375-92-8	PFHpS	38	U	ng/L	38	10/01/19 10:53	10/09/19 3:31	ASBPROC-800PFAS
307-24-4	PFHxA	46		ng/L	40	10/01/19 10:53	10/09/19 3:31	ASBPROC-800PFAS
355-46-4	PFHxS	36	U	ng/L	36	10/01/19 10:53	10/09/19 3:31	ASBPROC-800PFAS
375-95-1	PFNA	40	U	ng/L	40	10/01/19 10:53	10/09/19 3:31	ASBPROC-800PFAS
68259-12-1	PFNS	38	U	ng/L	38	10/01/19 10:53	10/09/19 3:31	ASBPROC-800PFAS
335-67-1	PFOA	53		ng/L	40	10/01/19 10:53	10/09/19 3:31	ASBPROC-800PFAS
1763-23-1	PFOS	48		ng/L	37	10/01/19 10:53	10/09/19 3:31	ASBPROC-800PFAS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID: 19-0457-OOST3-0916 **Lab ID:** E193805-27
Station ID: OOST3 **Matrix:** Surface Water

Date Collected: 9/16/19 15:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2706-90-3	PFPeA	61		ng/L	40	10/01/19 10:53	10/09/19 3:31	ASBPROC-800PFAS
2706-91-4	PFPeS	37 U		ng/L	37	10/01/19 10:53	10/09/19 3:31	ASBPROC-800PFAS
376-06-7	PFTeDA	160 U, J, QS-5, Y-2		ng/L	160	10/01/19 10:53	10/09/19 3:31	ASBPROC-800PFAS
72629-94-8	PFTrDA	40 U		ng/L	40	10/01/19 10:53	10/09/19 3:31	ASBPROC-800PFAS
2058-94-8	PFUdA	40 U		ng/L	40	10/01/19 10:53	10/09/19 3:31	ASBPROC-800PFAS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID: 19-0457-OOST3-F-0916 **Lab ID:** E193805-28
Station ID: OOST3 **Matrix:** Surface Water

Date Collected: 9/16/19 15:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
757124-72-4	4:2FTS	37	U	ng/L	37	10/01/19 10:53	10/09/19 3:51	ASBPROC-800PFAS
27619-97-2	6:2FTS	38	U	ng/L	38	10/01/19 10:53	10/09/19 3:51	ASBPROC-800PFAS
39108-34-4	8:2FTS	38	U	ng/L	38	10/01/19 10:53	10/09/19 3:51	ASBPROC-800PFAS
754-91-6	FOSA	40	U	ng/L	40	10/01/19 10:53	10/09/19 3:51	ASBPROC-800PFAS
13252-13-6	HFPO-DA	40	U	ng/L	40	10/01/19 10:53	10/09/19 3:51	ASBPROC-800PFAS
2991-50-6	N-EtFOSAA	160	U, J, Y-2	ng/L	160	10/01/19 10:53	10/09/19 3:51	ASBPROC-800PFAS
2355-31-9	N-MeFOSAA	160	U	ng/L	160	10/01/19 10:53	10/09/19 3:51	ASBPROC-800PFAS
375-22-4	PFBA	40	U, J, QS-3	ng/L	40	10/01/19 10:53	10/09/19 3:51	ASBPROC-800PFAS
375-73-5	PFBS	100	J, QS-3	ng/L	35	10/01/19 10:53	10/09/19 3:51	ASBPROC-800PFAS
335-76-2	PFDA	160	U	ng/L	160	10/01/19 10:53	10/09/19 3:51	ASBPROC-800PFAS
307-55-1	PFDoA	40	U	ng/L	40	10/01/19 10:53	10/09/19 3:51	ASBPROC-800PFAS
335-77-3	PFDS	38	U	ng/L	38	10/01/19 10:53	10/09/19 3:51	ASBPROC-800PFAS
375-85-9	PFHpA	20	J, Q-2	ng/L	40	10/01/19 10:53	10/09/19 3:51	ASBPROC-800PFAS
375-92-8	PFHpS	38	U	ng/L	38	10/01/19 10:53	10/09/19 3:51	ASBPROC-800PFAS
307-24-4	PFHxA	35	J, Q-2	ng/L	40	10/01/19 10:53	10/09/19 3:51	ASBPROC-800PFAS
355-46-4	PFHxS	36	U	ng/L	36	10/01/19 10:53	10/09/19 3:51	ASBPROC-800PFAS
375-95-1	PFNA	40	U	ng/L	40	10/01/19 10:53	10/09/19 3:51	ASBPROC-800PFAS
68259-12-1	PFNS	38	U	ng/L	38	10/01/19 10:53	10/09/19 3:51	ASBPROC-800PFAS
335-67-1	PFOA	48		ng/L	40	10/01/19 10:53	10/09/19 3:51	ASBPROC-800PFAS
1763-23-1	PFOS	42		ng/L	37	10/01/19 10:53	10/09/19 3:51	ASBPROC-800PFAS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID: 19-0457-OOST3-F-0916 **Lab ID:** E193805-28

Station ID: OOST3 **Matrix:** Surface Water

Date Collected: 9/16/19 15:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2706-90-3	PFPeA	53		ng/L	40	10/01/19 10:53	10/09/19 3:51	ASBPROC-800PFAS
2706-91-4	PFPeS	37	U	ng/L	37	10/01/19 10:53	10/09/19 3:51	ASBPROC-800PFAS
376-06-7	PFTeDA	160	U, J, QS-5, Y-2	ng/L	160	10/01/19 10:53	10/09/19 3:51	ASBPROC-800PFAS
72629-94-8	PFTrDA	40	U	ng/L	40	10/01/19 10:53	10/09/19 3:51	ASBPROC-800PFAS
2058-94-8	PFUdA	40	U	ng/L	40	10/01/19 10:53	10/09/19 3:51	ASBPROC-800PFAS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Diana Burdette

Semi Volatile Organics (SVOA) - Quality Control
US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1910004 - S PFC										
Blank (1910004-BLK1)				Prepared: 10/01/19 Analyzed: 10/08/19						
ASBPROC-800PFAS										
4:2FTS	U	37	ng/L							U
6:2FTS	U	38	"							U
8:2FTS	U	38	"							U
FOSA	U	40	"							U
HFPO-DA	U	40	"							U
N-EtFOSAA	U	160	"							Y-2, U
N-MeFOSAA	U	160	"							U
PFBA	U	40	"							U
PFBS	U	35	"							U
PFDA	U	160	"							U
PFDoA	U	40	"							U
PFDS	U	39	"							U
PFHpA	U	40	"							U
PFHpS	U	38	"							U
PFHxA	U	40	"							U
PFHxS	U	36	"							U
PFNA	U	40	"							U
PFNS	U	38	"							U
PFOA	U	40	"							U
PFOS	U	37	"							U
PFPeA	U	40	"							U
PFPeS	U	38	"							U
PFTeDA	U	160	"							Y-2, U
PFTrDA	U	40	"							U
PFUdA	U	40	"							U
LCS (1910004-BS1)				Prepared: 10/01/19 Analyzed: 10/08/19						
ASBPROC-800PFAS										
4:2FTS	383	37	ng/L	374.00		102	67.1-125			
6:2FTS	451	38	"	380.00		119	49.2-134			
8:2FTS	453	38	"	384.00		118	56.4-136			
FOSA	423	40	"	400.00		106	57.7-148			
HFPO-DA	315	40	"	400.00		78.8	51.1-127			
N-EtFOSAA	426	160	"	400.00		106	47.2-185.3			Y-2
N-MeFOSAA	399	160	"	400.00		99.9	43.2-178			
PFBA	388	40	"	400.00		97.0	67.9-118			
PFBS	316	35	"	354.00		89.4	68.2-118			
PFDA	411	160	"	400.00		103	47.4-162			
PFDoA	441	40	"	400.00		110	56.5-155			

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Diana Burdette

Semi Volatile Organics (SVOA) - Quality Control
US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1910004 - S PFC										
LCS (1910004-BS1)				Prepared: 10/01/19 Analyzed: 10/08/19						
PFDS	385	39	ng/L	386.00		99.8	35.1-168			
PFHpA	368	40	"	400.00		92.0	72.8-116			
PFHpS	366	38	"	380.00		96.3	59.7-130			
PFHxA	364	40	"	400.00		91.0	62.6-127			
PFHxS	340	36	"	364.80		93.3	69.5-117			
PFNA	380	40	"	400.00		95.1	64.1-128.4			
PFNS	338	38	"	384.00		87.9	63.3-126			
PFOA	389	40	"	400.00		97.3	66.7-122			
PFOS	350	37	"	370.20		94.6	70.4-122			
PFPeA	377	40	"	400.00		94.2	72-115			
PFPeS	345	38	"	376.00		91.6	69-117			
PFTeDA	436	160	"	400.00		109	42.9-179			Y-2
PFTrDA	505	40	"	400.00		126	32.2-215			
PFUdA	415	40	"	400.00		104	65.8-142			
Matrix Spike (1910004-MS1)	**Source: E193805-07**			Prepared: 10/01/19 Analyzed: 10/09/19						
ASBPROC-800PFAS										
4:2FTS	357	37	ng/L	337.55	U	106	70-133			
6:2FTS	384	38	"	342.96	U	112	58-143			
8:2FTS	349	38	"	346.57	U	101	66-126			
FOSA	382	40	"	361.01	U	106	61-138			
HFPO-DA	318	40	"	361.01	U	88.1	45-129			
N-EtFOSAA	391	160	"	361.01	U	108	50-168			Y-2
N-MeFOSAA	367	160	"	361.01	U	102	47-169			
PFBA	371	40	"	361.01	U	103	60-141			
PFBS	407	35	"	319.49	58.0	109	62-135			
PFDA	385	160	"	361.01	U	107	53-156			
PFDoA	354	40	"	361.01	U	97.9	30-172			
PFDS	361	38	"	348.38	U	104	44-151			
PFHpA	377	40	"	361.01	U	104	75-122			
PFHpS	367	38	"	342.96	U	107	66-132			
PFHxA	392	40	"	361.01	U	109	64-138			
PFHxS	351	36	"	329.24	U	107	72-124			
PFNA	379	40	"	361.01	U	105	72-129			
PFNS	329	38	"	346.57	U	95.1	61-126			
PFOA	402	40	"	361.01	U	111	74-127			
PFOS	351	37	"	334.12	U	105	68-132			
PFPeA	389	40	"	361.01	26.9	100	75-122			
PFPeS	326	37	"	339.35	U	96.1	72-122			
PFTeDA	293	160	"	361.01	U	81.1	10-194			Y-2

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Diana Burdette

Semi Volatile Organics (SVOA) - Quality Control
US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1910004 - S PFC										
Matrix Spike (1910004-MS1)	**Source: E193805-07**			Prepared: 10/01/19 Analyzed: 10/09/19						
PFTrDA	357	40	ng/L	361.01	U	99.0	10-193			
PFUdA	372	40	"	361.01	U	103	44-164			
Matrix Spike Dup (1910004-MSD1)	**Source: E193805-07**			Prepared: 10/01/19 Analyzed: 10/09/19						
ASBPROC-800PFAS										
4:2FTS	343	37	ng/L	316.41	U	108	70-133	4.19	34	
6:2FTS	352	38	"	321.49	U	110	58-143	8.53	45	
8:2FTS	349	38	"	324.87	U	107	66-126	0.232	56	
FOSA	376	40	"	338.41	U	111	61-138	1.47	39	
HFPO-DA	312	40	"	338.41	U	92.2	45-129	1.84	57	
N-EtFOSAA	383	160	"	338.41	U	113	50-168	1.99	53	Y-2
N-MeFOSAA	394	160	"	338.41	U	117	47-169	7.11	65	
PFBA	375	40	"	338.41	U	111	60-141	1.15	37	
PFBS	413	35	"	299.49	58.0	118	62-135	1.42	32	
PFDA	376	160	"	338.41	U	111	53-156	2.34	57	
PFDoA	381	40	"	338.41	U	113	30-172	7.52	56	
PFDS	384	39	"	326.57	U	118	44-151	6.24	66	
PFHpA	381	40	"	338.41	U	113	75-122	0.981	26	
PFHpS	354	38	"	321.49	U	110	66-132	3.63	28	
PFHxA	384	40	"	338.41	U	114	64-138	1.96	42	
PFHxS	340	36	"	308.63	U	110	72-124	3.36	32	
PFNA	370	40	"	338.41	U	109	72-129	2.37	31	
PFNS	342	38	"	324.87	U	105	61-126	3.64	35	
PFOA	387	40	"	338.41	U	114	74-127	3.71	32	
PFOS	345	37	"	313.20	U	110	68-132	1.75	37	
PFPeA	391	40	"	338.41	26.9	108	75-122	0.539	27	
PFPeS	348	38	"	318.10	U	109	72-122	6.52	29	
PFTeDA	367	160	"	338.41	U	108	10-194	22.5	111	Y-2
PFTrDA	400	40	"	338.41	U	118	10-193	11.1	106	
PFUdA	371	40	"	338.41	U	110	44-164	0.0590	48	

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Diana Burdette

Semi Volatile Organics (SVOA) - Quality Control
US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1910004 - S PFC										
MRL Verification (1910004-PS1)				Prepared: 10/01/19 Analyzed: 10/08/19						
ASBPROC-800PFAS										
4:2FTS	36.7	37	ng/L	37.400		98.1	47.1-145			MRL-2, Q-2, J
6:2FTS	49.1	38	"	38.000		129	29.2-154			MRL-2
8:2FTS	42.0	38	"	38.400		109	36.4-156			MRL-2
FOSA	45.0	40	"	40.000		112	37.7-168			MRL-2
HFPO-DA	43.0	40	"	40.000		108	31.3-147			MRL-2
PFBA	38.9	40	"	40.000		97.3	47.9-138			MRL-2, Q-2, J
PFBS	41.7	35	"	35.400		118	48.2-138			MRL-2
PFDoA	47.6	40	"	40.000		119	36.5-175			MRL-2
PFDS	47.0	39	"	38.600		122	15.1-188			MRL-2
PFHpA	50.2	40	"	40.000		126	52.8-136			MRL-2
PFHpS	47.3	38	"	38.000		125	39.7-150			MRL-2
PFHxA	47.3	40	"	40.000		118	42.6-147			MRL-2
PFHxS	43.6	36	"	36.480		120	49.5-138			MRL-2
PFNA	47.0	40	"	40.000		118	44.1-148			MRL-2
PFNS	44.3	38	"	38.400		115	43.3-146			MRL-2
PFOA	45.4	40	"	40.000		113	46.7-142			MRL-2
PFOS	44.7	37	"	37.020		121	50.4-142			MRL-2
PFPeA	47.0	40	"	40.000		117	52-135			MRL-2
PFPeS	45.7	38	"	37.600		121	49-137			MRL-2
PFTrDA	62.9	40	"	40.000		157	12.2-235			MRL-2
PFUdA	45.5	40	"	40.000		114	45.8-162			MRL-2
MRL Verification (1910004-PS2)				Prepared: 10/01/19 Analyzed: 10/08/19						
ASBPROC-800PFAS										
N-EtFOSAA	152	160	ng/L	160.00		95.0	27.2-205			MRL-2, Q-2, Y-2, J
N-MeFOSAA	156	160	"	160.00		97.7	23.2-198			MRL-2, Q-2, J
PFDA	158	160	"	160.00		98.8	27.4-182			MRL-2, Q-2, J
PFTeDA	210	160	"	160.00		131	22.9-199			MRL-2, Y-2

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Diana Burdette

Notes and Definitions for QC Samples

U	The analyte was not detected at or above the reporting limit.
J	The identification of the analyte is acceptable; the reported value is an estimate.
MRL-2	MRL verification for Non-Potable Water matrix
Q-2	Result greater than MDL but less than MRL.
Y-2	Data should be limited to screening purposes only

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Diana Burdette

October 18, 2019

4LSASD-LSB

MEMORANDUM

SUBJECT: FINAL Analytical Report
Project: 19-0457, PFAS Sediment Screening - Conasauga R

FROM: Diana Burdette
OCS Analyst

THRU: Jeffrey Hendel, Chief
LSB Organic Chemistry Section

TO: Nathan Barlet

Attached are the final results for the analytical groups listed below. This report shall not be reproduced except in full without approval of the Region 4 laboratory. These analyses were performed in accordance with the Laboratory Services Branch's Laboratory Operations and Quality Assurance Manual (LSB LOQAM) found at www.epa.gov/region4/sesd/asbsop. Any unique project data quality objectives specified in writing by the data requestor have also been incorporated into the data unless otherwise noted in the Report Narrative. Chemistry data have been verified based on the LSB LOQAM specifications and have been qualified by this laboratory if the applicable quality control criteria were not met. Verification is defined in Chapter 5 of the LSB LOQAM. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report. The reported results are accurate within the limits of the method(s) and are representative only of the samples as received by the laboratory.

Analyses Included in this report:	Method Used:	Accreditations:
Semi Volatile Organics (SVOA)		
PFAS	ASBPROC-800PFAS (Soil)	

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Diana Burdette

Sample Disposal Policy

Due to limited space for long term sample storage, LSB's policy is to dispose of samples on a periodic schedule. Air samples collected in summa canisters will be disposed of 30 days following the issuance of this report. All other sample media including original samples, sample extracts and or digestates will be disposed of, in accordance with applicable regulations, 60 days from the date of this report.

This sample disposal policy does not apply to criminal samples which are held until the laboratory is notified by the criminal investigators that case development and litigation are complete.

These samples may be held in the laboratory's custody for a longer period of time. If samples require storage beyond the 60-day period, please contact the Sample Control Coordinator by e-mail at R4SampleCustody@epa.gov.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Diana Burdette

SAMPLES INCLUDED IN THIS REPORT

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
19-0457-CONA1-S-0916	E193805-09	Sediment	9/17/19 11:00	9/18/19 13:32
19-0457-CONA2-S-0916	E193805-11	Sediment	9/17/19 18:20	9/18/19 13:32
19-0457-CONA3-S-0916	E193805-14	Sediment	9/17/19 13:15	9/18/19 13:32
19-0457-CONA4-S-0916	E193805-16	Sediment	9/17/19 14:50	9/18/19 13:32
19-0457-CRI-S-0916	E193805-21	Sediment	9/16/19 13:30	9/18/19 13:32
19-0457-CRI-S-DUP-0916	E193805-22	Sediment	9/16/19 14:00	9/18/19 13:32
19-0457-OOST1-S-0916	E193805-24	Sediment	9/17/19 09:20	9/18/19 13:32
19-0457-OOST2-S-0916	E193805-26	Sediment	9/16/19 17:00	9/18/19 13:32
19-0457-OOST3-S-0916	E193805-29	Sediment	9/16/19 15:15	9/18/19 13:32

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Diana Burdette

DATA QUALIFIER DEFINITIONS

U	The analyte was not detected at or above the reporting limit.
J	The identification of the analyte is acceptable; the reported value is an estimate.
Q-2	Result greater than MDL but less than MRL.
QC-3	Analyte calibration criteria not met
QR-2	MRL verification recovery greater than upper control limits.
QS-5	Surrogate recovery is higher than established control limits
Y-2	Data should be limited to screening purposes only

ACRONYMS AND ABBREVIATIONS

CAS Chemical Abstracts Service

Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.

MDL Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.

MRL Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.

TIC Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.

ACCREDITATIONS:

ISO ASB is accredited by ISO/IEC 17025, including an amplification for forensic accreditation through ANSI-ASQ National Accreditation Board.

Refer to the certificate and scope of accreditation AT-1644 at:
http://www.epa.gov/aboutepa/about-region-4s-science-and-ecosystem-support-division-sesd

NR The EPA Region 4 Laboratory has not requested accreditation for this test.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID: 19-0457-CONA1-S-0916 **Lab ID:** E193805-09
Station ID: CONA1 **Matrix:** Sediment

Date Collected: 9/17/19 11:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
757124-72-4	4:2FTS	120	U	ng/kg dry	120	9/25/19 10:35	10/01/19 17:38	ASBPROC-800PFAS
27619-97-2	6:2FTS	130	U	ng/kg dry	130	9/25/19 10:35	10/01/19 17:38	ASBPROC-800PFAS
39108-34-4	8:2FTS	130	U	ng/kg dry	130	9/25/19 10:35	10/01/19 17:38	ASBPROC-800PFAS
754-91-6	FOSA	130	U	ng/kg dry	130	9/25/19 10:35	10/01/19 17:38	ASBPROC-800PFAS
13252-13-6	HFPO-DA	130	U	ng/kg dry	130	9/25/19 10:35	10/01/19 17:38	ASBPROC-800PFAS
2991-50-6	N-EtFOSAA	44	J, Q-2, Y-2	ng/kg dry	130	9/25/19 10:35	10/01/19 17:38	ASBPROC-800PFAS
2355-31-9	N-MeFOSAA	130	U	ng/kg dry	130	9/25/19 10:35	10/01/19 17:38	ASBPROC-800PFAS
375-22-4	PFBA	140		ng/kg dry	130	9/25/19 10:35	10/01/19 17:38	ASBPROC-800PFAS
375-73-5	PFBS	220		ng/kg dry	120	9/25/19 10:35	10/01/19 17:38	ASBPROC-800PFAS
335-76-2	PFDA	360		ng/kg dry	130	9/25/19 10:35	10/01/19 17:38	ASBPROC-800PFAS
307-55-1	PFDoA	590		ng/kg dry	130	9/25/19 10:35	10/01/19 17:38	ASBPROC-800PFAS
335-77-3	PFDS	130	U	ng/kg dry	130	9/25/19 10:35	10/01/19 17:38	ASBPROC-800PFAS
375-85-9	PFHpA	120	J, Q-2	ng/kg dry	130	9/25/19 10:35	10/01/19 17:38	ASBPROC-800PFAS
375-92-8	PFHpS	130	U	ng/kg dry	130	9/25/19 10:35	10/01/19 17:38	ASBPROC-800PFAS
307-24-4	PFHxA	290		ng/kg dry	130	9/25/19 10:35	10/01/19 17:38	ASBPROC-800PFAS
355-46-4	PFHxS	120	U	ng/kg dry	120	9/25/19 10:35	10/01/19 17:38	ASBPROC-800PFAS
375-95-1	PFNA	65	J, Q-2	ng/kg dry	130	9/25/19 10:35	10/01/19 17:38	ASBPROC-800PFAS
68259-12-1	PFNS	130	U	ng/kg dry	130	9/25/19 10:35	10/01/19 17:38	ASBPROC-800PFAS
335-67-1	PFOA	280		ng/kg dry	130	9/25/19 10:35	10/01/19 17:38	ASBPROC-800PFAS
1763-23-1	PFOS	630		ng/kg dry	120	9/25/19 10:35	10/01/19 17:38	ASBPROC-800PFAS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID: 19-0457-CONA1-S-0916 **Lab ID:** E193805-09

Station ID: CONA1 **Matrix:** Sediment

Date Collected: 9/17/19 11:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2706-90-3	PFPeA	420		ng/kg dry	130	9/25/19 10:35	10/01/19 17:38	ASBPROC-800PFAS
2706-91-4	PFPeS	130	U	ng/kg dry	130	9/25/19 10:35	10/01/19 17:38	ASBPROC-800PFAS
376-06-7	PFTeDA	300	J, Q-2, QC-3, QR-2, QS-5, Y-2	ng/kg dry	530	9/25/19 10:35	10/01/19 17:38	ASBPROC-800PFAS
72629-94-8	PFTrDA	200	J, QR-2	ng/kg dry	130	9/25/19 10:35	10/01/19 17:38	ASBPROC-800PFAS
2058-94-8	PFUdA	240		ng/kg dry	130	9/25/19 10:35	10/01/19 17:38	ASBPROC-800PFAS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID: 19-0457-CONA2-S-0916 **Lab ID:** E193805-11
Station ID: CONA2 **Matrix:** Sediment

Date Collected: 9/17/19 18:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
757124-72-4	4:2FTS	120	U	ng/kg dry	120	9/25/19 10:35	10/01/19 17:58	ASBPROC-800PFAS
27619-97-2	6:2FTS	120	U	ng/kg dry	120	9/25/19 10:35	10/01/19 17:58	ASBPROC-800PFAS
39108-34-4	8:2FTS	130	U	ng/kg dry	130	9/25/19 10:35	10/01/19 17:58	ASBPROC-800PFAS
754-91-6	FOSA	200		ng/kg dry	130	9/25/19 10:35	10/01/19 17:58	ASBPROC-800PFAS
13252-13-6	HFPO-DA	130	U	ng/kg dry	130	9/25/19 10:35	10/01/19 17:58	ASBPROC-800PFAS
2991-50-6	N-EtFOSAA	91	J, Y-2, Q-2	ng/kg dry	130	9/25/19 10:35	10/01/19 17:58	ASBPROC-800PFAS
2355-31-9	N-MeFOSAA	160		ng/kg dry	130	9/25/19 10:35	10/01/19 17:58	ASBPROC-800PFAS
375-22-4	PFBA	130	U	ng/kg dry	130	9/25/19 10:35	10/01/19 17:58	ASBPROC-800PFAS
375-73-5	PFBS	140		ng/kg dry	120	9/25/19 10:35	10/01/19 17:58	ASBPROC-800PFAS
335-76-2	PFDA	240		ng/kg dry	130	9/25/19 10:35	10/01/19 17:58	ASBPROC-800PFAS
307-55-1	PFDoA	520		ng/kg dry	130	9/25/19 10:35	10/01/19 17:58	ASBPROC-800PFAS
335-77-3	PFDS	130	U	ng/kg dry	130	9/25/19 10:35	10/01/19 17:58	ASBPROC-800PFAS
375-85-9	PFHpA	56	J, Q-2	ng/kg dry	130	9/25/19 10:35	10/01/19 17:58	ASBPROC-800PFAS
375-92-8	PFHpS	120	U	ng/kg dry	120	9/25/19 10:35	10/01/19 17:58	ASBPROC-800PFAS
307-24-4	PFHxA	140		ng/kg dry	130	9/25/19 10:35	10/01/19 17:58	ASBPROC-800PFAS
355-46-4	PFHxS	120	U	ng/kg dry	120	9/25/19 10:35	10/01/19 17:58	ASBPROC-800PFAS
375-95-1	PFNA	130	U	ng/kg dry	130	9/25/19 10:35	10/01/19 17:58	ASBPROC-800PFAS
68259-12-1	PFNS	130	U	ng/kg dry	130	9/25/19 10:35	10/01/19 17:58	ASBPROC-800PFAS
335-67-1	PFOA	190		ng/kg dry	130	9/25/19 10:35	10/01/19 17:58	ASBPROC-800PFAS
1763-23-1	PFOS	1100		ng/kg dry	120	9/25/19 10:35	10/01/19 17:58	ASBPROC-800PFAS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID: 19-0457-CONA2-S-0916 **Lab ID:** E193805-11

Station ID: CONA2 **Matrix:** Sediment

Date Collected: 9/17/19 18:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2706-90-3	PFPeA	220		ng/kg dry	130	9/25/19 10:35	10/01/19 17:58	ASBPROC-800PFAS
2706-91-4	PFPeS	120	U	ng/kg dry	120	9/25/19 10:35	10/01/19 17:58	ASBPROC-800PFAS
376-06-7	PFTeDA	280	J, Q-2, QC-3, QR-2, QS-5, Y-2	ng/kg dry	520	9/25/19 10:35	10/01/19 17:58	ASBPROC-800PFAS
72629-94-8	PFTrDA	190	J, QR-2	ng/kg dry	130	9/25/19 10:35	10/01/19 17:58	ASBPROC-800PFAS
2058-94-8	PFUdA	230		ng/kg dry	130	9/25/19 10:35	10/01/19 17:58	ASBPROC-800PFAS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID: 19-0457-CONA3-S-0916 **Lab ID:** E193805-14
Station ID: CONA3 **Matrix:** Sediment

Date Collected: 9/17/19 13:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
757124-72-4	4:2FTS	130	U	ng/kg dry	130	9/25/19 10:35	10/01/19 18:17	ASBPROC-800PFAS
27619-97-2	6:2FTS	130	U	ng/kg dry	130	9/25/19 10:35	10/01/19 18:17	ASBPROC-800PFAS
39108-34-4	8:2FTS	130	U	ng/kg dry	130	9/25/19 10:35	10/01/19 18:17	ASBPROC-800PFAS
754-91-6	FOSA	180		ng/kg dry	140	9/25/19 10:35	10/01/19 18:17	ASBPROC-800PFAS
13252-13-6	HFPO-DA	140	U	ng/kg dry	140	9/25/19 10:35	10/01/19 18:17	ASBPROC-800PFAS
2991-50-6	N-EtFOSAA	170	J, Y-2	ng/kg dry	140	9/25/19 10:35	10/01/19 18:17	ASBPROC-800PFAS
2355-31-9	N-MeFOSAA	240		ng/kg dry	140	9/25/19 10:35	10/01/19 18:17	ASBPROC-800PFAS
375-22-4	PFBA	140	U	ng/kg dry	140	9/25/19 10:35	10/01/19 18:17	ASBPROC-800PFAS
375-73-5	PFBS	280		ng/kg dry	120	9/25/19 10:35	10/01/19 18:17	ASBPROC-800PFAS
335-76-2	PFDA	230		ng/kg dry	140	9/25/19 10:35	10/01/19 18:17	ASBPROC-800PFAS
307-55-1	PFDoA	770		ng/kg dry	140	9/25/19 10:35	10/01/19 18:17	ASBPROC-800PFAS
335-77-3	PFDS	130	U	ng/kg dry	130	9/25/19 10:35	10/01/19 18:17	ASBPROC-800PFAS
375-85-9	PFHpA	63	J, Q-2	ng/kg dry	140	9/25/19 10:35	10/01/19 18:17	ASBPROC-800PFAS
375-92-8	PFHpS	130	U	ng/kg dry	130	9/25/19 10:35	10/01/19 18:17	ASBPROC-800PFAS
307-24-4	PFHxA	150		ng/kg dry	140	9/25/19 10:35	10/01/19 18:17	ASBPROC-800PFAS
355-46-4	PFHxS	120	U	ng/kg dry	120	9/25/19 10:35	10/01/19 18:17	ASBPROC-800PFAS
375-95-1	PFNA	140	U	ng/kg dry	140	9/25/19 10:35	10/01/19 18:17	ASBPROC-800PFAS
68259-12-1	PFNS	130	U	ng/kg dry	130	9/25/19 10:35	10/01/19 18:17	ASBPROC-800PFAS
335-67-1	PFOA	200		ng/kg dry	140	9/25/19 10:35	10/01/19 18:17	ASBPROC-800PFAS
1763-23-1	PFOS	920		ng/kg dry	130	9/25/19 10:35	10/01/19 18:17	ASBPROC-800PFAS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID: 19-0457-CONA3-S-0916 **Lab ID:** E193805-14
Station ID: CONA3 **Matrix:** Sediment

Date Collected: 9/17/19 13:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2706-90-3	PFPeA	220		ng/kg dry	140	9/25/19 10:35	10/01/19 18:17	ASBPROC-800PFAS
2706-91-4	PFPeS	130	U	ng/kg dry	130	9/25/19 10:35	10/01/19 18:17	ASBPROC-800PFAS
376-06-7	PFTeDA	540	J, QC-3, QR-2, QS-5, Y-2	ng/kg dry	540	9/25/19 10:35	10/01/19 18:17	ASBPROC-800PFAS
72629-94-8	PFTrDA	290	J, QR-2	ng/kg dry	140	9/25/19 10:35	10/01/19 18:17	ASBPROC-800PFAS
2058-94-8	PFUdA	330		ng/kg dry	140	9/25/19 10:35	10/01/19 18:17	ASBPROC-800PFAS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID: 19-0457-CONA4-S-0916 **Lab ID:** E193805-16
Station ID: CONA4 **Matrix:** Sediment

Date Collected: 9/17/19 14:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
757124-72-4	4:2FTS	330	U	ng/kg dry	330	9/25/19 10:35	10/01/19 18:37	ASBPROC-800PFAS
27619-97-2	6:2FTS	330	U	ng/kg dry	330	9/25/19 10:35	10/01/19 18:37	ASBPROC-800PFAS
39108-34-4	8:2FTS	340	U	ng/kg dry	340	9/25/19 10:35	10/01/19 18:37	ASBPROC-800PFAS
754-91-6	FOSA	2200		ng/kg dry	350	9/25/19 10:35	10/01/19 18:37	ASBPROC-800PFAS
13252-13-6	HFPO-DA	350	U	ng/kg dry	350	9/25/19 10:35	10/01/19 18:37	ASBPROC-800PFAS
2991-50-6	N-EtFOSAA	1500	J, Y-2	ng/kg dry	350	9/25/19 10:35	10/01/19 18:37	ASBPROC-800PFAS
2355-31-9	N-MeFOSAA	860		ng/kg dry	350	9/25/19 10:35	10/01/19 18:37	ASBPROC-800PFAS
375-22-4	PFBA	350	U	ng/kg dry	350	9/25/19 10:35	10/01/19 18:37	ASBPROC-800PFAS
375-73-5	PFBS	1100		ng/kg dry	310	9/25/19 10:35	10/01/19 18:37	ASBPROC-800PFAS
335-76-2	PFDA	3900		ng/kg dry	350	9/25/19 10:35	10/01/19 18:37	ASBPROC-800PFAS
307-55-1	PFDoA	4600		ng/kg dry	350	9/25/19 10:35	10/01/19 18:37	ASBPROC-800PFAS
335-77-3	PFDS	340	U	ng/kg dry	340	9/25/19 10:35	10/01/19 18:37	ASBPROC-800PFAS
375-85-9	PFHpA	210	J, Q-2	ng/kg dry	350	9/25/19 10:35	10/01/19 18:37	ASBPROC-800PFAS
375-92-8	PFHpS	330	U	ng/kg dry	330	9/25/19 10:35	10/01/19 18:37	ASBPROC-800PFAS
307-24-4	PFHxA	350		ng/kg dry	350	9/25/19 10:35	10/01/19 18:37	ASBPROC-800PFAS
355-46-4	PFHxS	320	U	ng/kg dry	320	9/25/19 10:35	10/01/19 18:37	ASBPROC-800PFAS
375-95-1	PFNA	400		ng/kg dry	350	9/25/19 10:35	10/01/19 18:37	ASBPROC-800PFAS
68259-12-1	PFNS	340	U	ng/kg dry	340	9/25/19 10:35	10/01/19 18:37	ASBPROC-800PFAS
335-67-1	PFOA	1100		ng/kg dry	350	9/25/19 10:35	10/01/19 18:37	ASBPROC-800PFAS
1763-23-1	PFOS	15000		ng/kg dry	320	9/25/19 10:35	10/01/19 18:37	ASBPROC-800PFAS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID: 19-0457-CONA4-S-0916 **Lab ID:** E193805-16
Station ID: CONA4 **Matrix:** Sediment

Date Collected: 9/17/19 14:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2706-90-3	PFPeA	560		ng/kg dry	350	9/25/19 10:35	10/01/19 18:37	ASBPROC-800PFAS
2706-91-4	PFPeS	330	U	ng/kg dry	330	9/25/19 10:35	10/01/19 18:37	ASBPROC-800PFAS
376-06-7	PFTeDA	1500	J, QC-3, QR-2, QS-5, Y-2	ng/kg dry	1400	9/25/19 10:35	10/01/19 18:37	ASBPROC-800PFAS
72629-94-8	PFTrDA	990	J, QR-2	ng/kg dry	350	9/25/19 10:35	10/01/19 18:37	ASBPROC-800PFAS
2058-94-8	PFUdA	3500		ng/kg dry	350	9/25/19 10:35	10/01/19 18:37	ASBPROC-800PFAS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID: 19-0457-CRI-S-0916 **Lab ID:** E193805-21
Station ID: CRI **Matrix:** Sediment

Date Collected: 9/16/19 13:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
757124-72-4	4:2FTS	130	U	ng/kg dry	130	9/25/19 10:35	10/01/19 18:57	ASBPROC-800PFAS
27619-97-2	6:2FTS	130	U	ng/kg dry	130	9/25/19 10:35	10/01/19 18:57	ASBPROC-800PFAS
39108-34-4	8:2FTS	130	U	ng/kg dry	130	9/25/19 10:35	10/01/19 18:57	ASBPROC-800PFAS
754-91-6	FOSA	74	J, Q-2	ng/kg dry	140	9/25/19 10:35	10/01/19 18:57	ASBPROC-800PFAS
13252-13-6	HFPO-DA	140	U	ng/kg dry	140	9/25/19 10:35	10/01/19 18:57	ASBPROC-800PFAS
2991-50-6	N-EtFOSAA	43	J, Q-2, Y-2	ng/kg dry	140	9/25/19 10:35	10/01/19 18:57	ASBPROC-800PFAS
2355-31-9	N-MeFOSAA	120	J, Q-2	ng/kg dry	140	9/25/19 10:35	10/01/19 18:57	ASBPROC-800PFAS
375-22-4	PFBA	140	U	ng/kg dry	140	9/25/19 10:35	10/01/19 18:57	ASBPROC-800PFAS
375-73-5	PFBS	120	U	ng/kg dry	120	9/25/19 10:35	10/01/19 18:57	ASBPROC-800PFAS
335-76-2	PFDA	91	J, Q-2	ng/kg dry	140	9/25/19 10:35	10/01/19 18:57	ASBPROC-800PFAS
307-55-1	PFDoA	170		ng/kg dry	140	9/25/19 10:35	10/01/19 18:57	ASBPROC-800PFAS
335-77-3	PFDS	130	U	ng/kg dry	130	9/25/19 10:35	10/01/19 18:57	ASBPROC-800PFAS
375-85-9	PFHpA	140	U	ng/kg dry	140	9/25/19 10:35	10/01/19 18:57	ASBPROC-800PFAS
375-92-8	PFHpS	130	U	ng/kg dry	130	9/25/19 10:35	10/01/19 18:57	ASBPROC-800PFAS
307-24-4	PFHxA	140	U	ng/kg dry	140	9/25/19 10:35	10/01/19 18:57	ASBPROC-800PFAS
355-46-4	PFHxS	120	U	ng/kg dry	120	9/25/19 10:35	10/01/19 18:57	ASBPROC-800PFAS
375-95-1	PFNA	140	U	ng/kg dry	140	9/25/19 10:35	10/01/19 18:57	ASBPROC-800PFAS
68259-12-1	PFNS	130	U	ng/kg dry	130	9/25/19 10:35	10/01/19 18:57	ASBPROC-800PFAS
335-67-1	PFOA	140	U	ng/kg dry	140	9/25/19 10:35	10/01/19 18:57	ASBPROC-800PFAS
1763-23-1	PFOS	410		ng/kg dry	130	9/25/19 10:35	10/01/19 18:57	ASBPROC-800PFAS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID: 19-0457-CRI-S-0916 **Lab ID:** E193805-21

Station ID: CRI **Matrix:** Sediment

Date Collected: 9/16/19 13:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2706-90-3	PFPeA	140	U	ng/kg dry	140	9/25/19 10:35	10/01/19 18:57	ASBPROC-800PFAS
2706-91-4	PFPeS	130	U	ng/kg dry	130	9/25/19 10:35	10/01/19 18:57	ASBPROC-800PFAS
376-06-7	PFTeDA	540	U, J, QC-3, Y-2	ng/kg dry	540	9/25/19 10:35	10/01/19 18:57	ASBPROC-800PFAS
72629-94-8	PFTrDA	120	J, Q-2, QR-2	ng/kg dry	140	9/25/19 10:35	10/01/19 18:57	ASBPROC-800PFAS
2058-94-8	PFUdA	82	J, Q-2	ng/kg dry	140	9/25/19 10:35	10/01/19 18:57	ASBPROC-800PFAS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID: 19-0457-CRI-S-DUP-0916 **Lab ID:** E193805-22
Station ID: CRI **Matrix:** Sediment

Date Collected: 9/16/19 14:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
757124-72-4	4:2FTS	140	U	ng/kg dry	140	9/25/19 10:35	10/01/19 19:17	ASBPROC-800PFAS
27619-97-2	6:2FTS	140	U	ng/kg dry	140	9/25/19 10:35	10/01/19 19:17	ASBPROC-800PFAS
39108-34-4	8:2FTS	140	U	ng/kg dry	140	9/25/19 10:35	10/01/19 19:17	ASBPROC-800PFAS
754-91-6	FOSA	160		ng/kg dry	150	9/25/19 10:35	10/01/19 19:17	ASBPROC-800PFAS
13252-13-6	HFPO-DA	150	U	ng/kg dry	150	9/25/19 10:35	10/01/19 19:17	ASBPROC-800PFAS
2991-50-6	N-EtFOSAA	84	J, Q-2, Y-2	ng/kg dry	150	9/25/19 10:35	10/01/19 19:17	ASBPROC-800PFAS
2355-31-9	N-MeFOSAA	170		ng/kg dry	150	9/25/19 10:35	10/01/19 19:17	ASBPROC-800PFAS
375-22-4	PFBA	150	U	ng/kg dry	150	9/25/19 10:35	10/01/19 19:17	ASBPROC-800PFAS
375-73-5	PFBS	130	U	ng/kg dry	130	9/25/19 10:35	10/01/19 19:17	ASBPROC-800PFAS
335-76-2	PFDA	200		ng/kg dry	150	9/25/19 10:35	10/01/19 19:17	ASBPROC-800PFAS
307-55-1	PFDoA	260		ng/kg dry	150	9/25/19 10:35	10/01/19 19:17	ASBPROC-800PFAS
335-77-3	PFDS	140	U	ng/kg dry	140	9/25/19 10:35	10/01/19 19:17	ASBPROC-800PFAS
375-85-9	PFHpA	150	U	ng/kg dry	150	9/25/19 10:35	10/01/19 19:17	ASBPROC-800PFAS
375-92-8	PFHpS	140	U	ng/kg dry	140	9/25/19 10:35	10/01/19 19:17	ASBPROC-800PFAS
307-24-4	PFHxA	150	U	ng/kg dry	150	9/25/19 10:35	10/01/19 19:17	ASBPROC-800PFAS
355-46-4	PFHxS	130	U	ng/kg dry	130	9/25/19 10:35	10/01/19 19:17	ASBPROC-800PFAS
375-95-1	PFNA	150	U	ng/kg dry	150	9/25/19 10:35	10/01/19 19:17	ASBPROC-800PFAS
68259-12-1	PFNS	140	U	ng/kg dry	140	9/25/19 10:35	10/01/19 19:17	ASBPROC-800PFAS
335-67-1	PFOA	150	U	ng/kg dry	150	9/25/19 10:35	10/01/19 19:17	ASBPROC-800PFAS
1763-23-1	PFOS	890		ng/kg dry	140	9/25/19 10:35	10/01/19 19:17	ASBPROC-800PFAS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID: 19-0457-CRI-S-DUP-0916 **Lab ID:** E193805-22

Station ID: CRI **Matrix:** Sediment

Date Collected: 9/16/19 14:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2706-90-3	PFPeA	150	U	ng/kg dry	150	9/25/19 10:35	10/01/19 19:17	ASBPROC-800PFAS
2706-91-4	PFPeS	140	U	ng/kg dry	140	9/25/19 10:35	10/01/19 19:17	ASBPROC-800PFAS
376-06-7	PFTeDA	270	J, Q-2, QC-3, QR-2, QS-5, Y-2	ng/kg dry	590	9/25/19 10:35	10/01/19 19:17	ASBPROC-800PFAS
72629-94-8	PFTrDA	160	J, QR-2	ng/kg dry	150	9/25/19 10:35	10/01/19 19:17	ASBPROC-800PFAS
2058-94-8	PFUdA	180		ng/kg dry	150	9/25/19 10:35	10/01/19 19:17	ASBPROC-800PFAS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID: 19-0457-OOST1-S-0916 **Lab ID:** E193805-24
Station ID: OOST1 **Matrix:** Sediment

Date Collected: 9/17/19 9:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
757124-72-4	4:2FTS	140	U	ng/kg dry	140	9/25/19 10:35	10/01/19 19:37	ASBPROC-800PFAS
27619-97-2	6:2FTS	140	U	ng/kg dry	140	9/25/19 10:35	10/01/19 19:37	ASBPROC-800PFAS
39108-34-4	8:2FTS	140	U	ng/kg dry	140	9/25/19 10:35	10/01/19 19:37	ASBPROC-800PFAS
754-91-6	FOSA	200		ng/kg dry	150	9/25/19 10:35	10/01/19 19:37	ASBPROC-800PFAS
13252-13-6	HFPO-DA	150	U	ng/kg dry	150	9/25/19 10:35	10/01/19 19:37	ASBPROC-800PFAS
2991-50-6	N-EtFOSAA	120	J, Q-2, Y-2	ng/kg dry	150	9/25/19 10:35	10/01/19 19:37	ASBPROC-800PFAS
2355-31-9	N-MeFOSAA	220		ng/kg dry	150	9/25/19 10:35	10/01/19 19:37	ASBPROC-800PFAS
375-22-4	PFBA	150	U	ng/kg dry	150	9/25/19 10:35	10/01/19 19:37	ASBPROC-800PFAS
375-73-5	PFBS	130		ng/kg dry	130	9/25/19 10:35	10/01/19 19:37	ASBPROC-800PFAS
335-76-2	PFDA	320		ng/kg dry	150	9/25/19 10:35	10/01/19 19:37	ASBPROC-800PFAS
307-55-1	PFDoA	560		ng/kg dry	150	9/25/19 10:35	10/01/19 19:37	ASBPROC-800PFAS
335-77-3	PFDS	140	U	ng/kg dry	140	9/25/19 10:35	10/01/19 19:37	ASBPROC-800PFAS
375-85-9	PFHpA	150	U	ng/kg dry	150	9/25/19 10:35	10/01/19 19:37	ASBPROC-800PFAS
375-92-8	PFHpS	140	U	ng/kg dry	140	9/25/19 10:35	10/01/19 19:37	ASBPROC-800PFAS
307-24-4	PFHxA	150	U	ng/kg dry	150	9/25/19 10:35	10/01/19 19:37	ASBPROC-800PFAS
355-46-4	PFHxS	140	U	ng/kg dry	140	9/25/19 10:35	10/01/19 19:37	ASBPROC-800PFAS
375-95-1	PFNA	150	U	ng/kg dry	150	9/25/19 10:35	10/01/19 19:37	ASBPROC-800PFAS
68259-12-1	PFNS	140	U	ng/kg dry	140	9/25/19 10:35	10/01/19 19:37	ASBPROC-800PFAS
335-67-1	PFOA	91	J, Q-2	ng/kg dry	150	9/25/19 10:35	10/01/19 19:37	ASBPROC-800PFAS
1763-23-1	PFOS	710		ng/kg dry	140	9/25/19 10:35	10/01/19 19:37	ASBPROC-800PFAS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID: 19-0457-OOST1-S-0916 **Lab ID:** E193805-24
Station ID: OOST1 **Matrix:** Sediment

Date Collected: 9/17/19 9:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2706-90-3	PFPeA	59	J, Q-2	ng/kg dry	150	9/25/19 10:35	10/01/19 19:37	ASBPROC-800PFAS
2706-91-4	PFPeS	140	U	ng/kg dry	140	9/25/19 10:35	10/01/19 19:37	ASBPROC-800PFAS
376-06-7	PFTeDA	290	J, Q-2, QC-3, QR-2, QS-5, Y-2	ng/kg dry	600	9/25/19 10:35	10/01/19 19:37	ASBPROC-800PFAS
72629-94-8	PFTrDA	200	J, QR-2	ng/kg dry	150	9/25/19 10:35	10/01/19 19:37	ASBPROC-800PFAS
2058-94-8	PFUdA	350		ng/kg dry	150	9/25/19 10:35	10/01/19 19:37	ASBPROC-800PFAS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID: 19-0457-OOST2-S-0916 **Lab ID:** E193805-26
Station ID: OOST2 **Matrix:** Sediment

Date Collected: 9/16/19 17:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
757124-72-4	4:2FTS	140	U	ng/kg dry	140	9/25/19 10:35	10/01/19 19:57	ASBPROC-800PFAS
27619-97-2	6:2FTS	140	U	ng/kg dry	140	9/25/19 10:35	10/01/19 19:57	ASBPROC-800PFAS
39108-34-4	8:2FTS	140	U	ng/kg dry	140	9/25/19 10:35	10/01/19 19:57	ASBPROC-800PFAS
754-91-6	FOSA	180		ng/kg dry	140	9/25/19 10:35	10/01/19 19:57	ASBPROC-800PFAS
13252-13-6	HFPO-DA	140	U	ng/kg dry	140	9/25/19 10:35	10/01/19 19:57	ASBPROC-800PFAS
2991-50-6	N-EtFOSAA	56	J, Q-2, Y-2	ng/kg dry	140	9/25/19 10:35	10/01/19 19:57	ASBPROC-800PFAS
2355-31-9	N-MeFOSAA	220		ng/kg dry	140	9/25/19 10:35	10/01/19 19:57	ASBPROC-800PFAS
375-22-4	PFBA	100	J, Q-2	ng/kg dry	140	9/25/19 10:35	10/01/19 19:57	ASBPROC-800PFAS
375-73-5	PFBS	300		ng/kg dry	130	9/25/19 10:35	10/01/19 19:57	ASBPROC-800PFAS
335-76-2	PFDA	300		ng/kg dry	140	9/25/19 10:35	10/01/19 19:57	ASBPROC-800PFAS
307-55-1	PFDoA	710		ng/kg dry	140	9/25/19 10:35	10/01/19 19:57	ASBPROC-800PFAS
335-77-3	PFDS	140	U	ng/kg dry	140	9/25/19 10:35	10/01/19 19:57	ASBPROC-800PFAS
375-85-9	PFHpA	150		ng/kg dry	140	9/25/19 10:35	10/01/19 19:57	ASBPROC-800PFAS
375-92-8	PFHpS	140	U	ng/kg dry	140	9/25/19 10:35	10/01/19 19:57	ASBPROC-800PFAS
307-24-4	PFHxA	270		ng/kg dry	140	9/25/19 10:35	10/01/19 19:57	ASBPROC-800PFAS
355-46-4	PFHxS	130	U	ng/kg dry	130	9/25/19 10:35	10/01/19 19:57	ASBPROC-800PFAS
375-95-1	PFNA	140	U	ng/kg dry	140	9/25/19 10:35	10/01/19 19:57	ASBPROC-800PFAS
68259-12-1	PFNS	140	U	ng/kg dry	140	9/25/19 10:35	10/01/19 19:57	ASBPROC-800PFAS
335-67-1	PFOA	440		ng/kg dry	140	9/25/19 10:35	10/01/19 19:57	ASBPROC-800PFAS
1763-23-1	PFOS	620		ng/kg dry	130	9/25/19 10:35	10/01/19 19:57	ASBPROC-800PFAS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID: 19-0457-OOST2-S-0916 **Lab ID:** E193805-26

Station ID: OOST2 **Matrix:** Sediment

Date Collected: 9/16/19 17:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2706-90-3	PFPeA	350		ng/kg dry	140	9/25/19 10:35	10/01/19 19:57	ASBPROC-800PFAS
2706-91-4	PFPeS	140	U	ng/kg dry	140	9/25/19 10:35	10/01/19 19:57	ASBPROC-800PFAS
376-06-7	PFTeDA	400	J, Q-2, QC-3, QR-2, QS-5, Y-2	ng/kg dry	580	9/25/19 10:35	10/01/19 19:57	ASBPROC-800PFAS
72629-94-8	PFTrDA	270	J, QR-2	ng/kg dry	140	9/25/19 10:35	10/01/19 19:57	ASBPROC-800PFAS
2058-94-8	PFUdA	350		ng/kg dry	140	9/25/19 10:35	10/01/19 19:57	ASBPROC-800PFAS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID: 19-0457-OOST3-S-0916 **Lab ID:** E193805-29
Station ID: OOST3 **Matrix:** Sediment

Date Collected: 9/16/19 15:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
757124-72-4	4:2FTS	120	U	ng/kg dry	120	9/25/19 10:35	10/01/19 20:17	ASBPROC-800PFAS
27619-97-2	6:2FTS	130	U	ng/kg dry	130	9/25/19 10:35	10/01/19 20:17	ASBPROC-800PFAS
39108-34-4	8:2FTS	130	U	ng/kg dry	130	9/25/19 10:35	10/01/19 20:17	ASBPROC-800PFAS
754-91-6	FOSA	110	J, Q-2	ng/kg dry	130	9/25/19 10:35	10/01/19 20:17	ASBPROC-800PFAS
13252-13-6	HFPO-DA	130	U	ng/kg dry	130	9/25/19 10:35	10/01/19 20:17	ASBPROC-800PFAS
2991-50-6	N-EtFOSAA	29	J, Q-2, Y-2	ng/kg dry	130	9/25/19 10:35	10/01/19 20:17	ASBPROC-800PFAS
2355-31-9	N-MeFOSAA	130		ng/kg dry	130	9/25/19 10:35	10/01/19 20:17	ASBPROC-800PFAS
375-22-4	PFBA	110	J, Q-2	ng/kg dry	130	9/25/19 10:35	10/01/19 20:17	ASBPROC-800PFAS
375-73-5	PFBS	230		ng/kg dry	120	9/25/19 10:35	10/01/19 20:17	ASBPROC-800PFAS
335-76-2	PFDA	160		ng/kg dry	130	9/25/19 10:35	10/01/19 20:17	ASBPROC-800PFAS
307-55-1	PFDoA	400		ng/kg dry	130	9/25/19 10:35	10/01/19 20:17	ASBPROC-800PFAS
335-77-3	PFDS	130	U	ng/kg dry	130	9/25/19 10:35	10/01/19 20:17	ASBPROC-800PFAS
375-85-9	PFHpA	120	J, Q-2	ng/kg dry	130	9/25/19 10:35	10/01/19 20:17	ASBPROC-800PFAS
375-92-8	PFHpS	130	U	ng/kg dry	130	9/25/19 10:35	10/01/19 20:17	ASBPROC-800PFAS
307-24-4	PFHxA	230		ng/kg dry	130	9/25/19 10:35	10/01/19 20:17	ASBPROC-800PFAS
355-46-4	PFHxS	120	U	ng/kg dry	120	9/25/19 10:35	10/01/19 20:17	ASBPROC-800PFAS
375-95-1	PFNA	130	U	ng/kg dry	130	9/25/19 10:35	10/01/19 20:17	ASBPROC-800PFAS
68259-12-1	PFNS	130	U	ng/kg dry	130	9/25/19 10:35	10/01/19 20:17	ASBPROC-800PFAS
335-67-1	PFOA	360		ng/kg dry	130	9/25/19 10:35	10/01/19 20:17	ASBPROC-800PFAS
1763-23-1	PFOS	430		ng/kg dry	120	9/25/19 10:35	10/01/19 20:17	ASBPROC-800PFAS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Diana Burdette

Semi Volatile Organics

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID: 19-0457-OOST3-S-0916 **Lab ID:** E193805-29
Station ID: OOST3 **Matrix:** Sediment

Date Collected: 9/16/19 15:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2706-90-3	PFPeA	320		ng/kg dry	130	9/25/19 10:35	10/01/19 20:17	ASBPROC-800PFAS
2706-91-4	PFPeS	120	U	ng/kg dry	120	9/25/19 10:35	10/01/19 20:17	ASBPROC-800PFAS
376-06-7	PFTeDA	260	J, Q-2, QC-3, QR-2, QS-5, Y-2	ng/kg dry	530	9/25/19 10:35	10/01/19 20:17	ASBPROC-800PFAS
72629-94-8	PFTrDA	180	J, QR-2	ng/kg dry	130	9/25/19 10:35	10/01/19 20:17	ASBPROC-800PFAS
2058-94-8	PFUdA	210		ng/kg dry	130	9/25/19 10:35	10/01/19 20:17	ASBPROC-800PFAS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Diana Burdette

Semi Volatile Organics (SVOA) - Quality Control
US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1909053 - S PFC										
Blank (1909053-BLK1)				Prepared: 09/25/19 Analyzed: 10/01/19						
ASBPROC-800PFAS										
4:2FTS	U	94	ng/kg dry							U
6:2FTS	U	95	"							U
8:2FTS	U	96	"							U
FOSA	U	100	"							U
HFPO-DA	U	100	"							U
N-EtFOSAA	U	100	"							U, Y-2
N-MeFOSAA	U	100	"							U
PFBA	U	100	"							U
PFBS	U	88	"							U
PFDA	U	100	"							U
PFDoA	U	100	"							U
PFDS	U	96	"							U
PFHpA	U	100	"							U
PFHpS	U	95	"							U
PFHxA	U	100	"							U
PFHxS	U	91	"							U
PFNA	U	100	"							U
PFNS	U	96	"							U
PFOA	U	100	"							U
PFOS	U	93	"							U
PFPeA	U	100	"							U
PFPeS	U	94	"							U
PFTeDA	U	400	"							U, QC-3, Y-2
PFTrDA	U	100	"							U
PFUdA	U	100	"							U
LCS (1909053-BS1)				Prepared: 09/25/19 Analyzed: 10/01/19						
ASBPROC-800PFAS										
4:2FTS	1050	94	ng/kg dry	935.00		112	70-130			
6:2FTS	1060	95	"	950.00		112	70-130			
8:2FTS	933	96	"	960.00		97.2	70-130			
FOSA	1110	100	"	1000.0		111	70-130			
HFPO-DA	877	100	"	1000.0		87.7	70-130			
N-EtFOSAA	1210	100	"	1000.0		121	70-130			Y-2
N-MeFOSAA	1100	100	"	1000.0		110	70-130			
PFBA	1050	100	"	1000.0		105	70-130			
PFBS	926	88	"	885.00		105	70-130			
PFDA	1080	100	"	1000.0		108	70-130			

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Diana Burdette

Semi Volatile Organics (SVOA) - Quality Control
US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1909053 - S PFC										
LCS (1909053-BS1)				Prepared: 09/25/19 Analyzed: 10/01/19						
PFDoA	1140	100	ng/kg dry	1000.0		114	70-130			
PFDS	1060	96	"	965.00		110	70-130			
PFHpA	1050	100	"	1000.0		105	70-130			
PFHpS	1020	95	"	950.00		107	70-130			
PFHxA	1100	100	"	1000.0		110	70-130			
PFHxS	1020	91	"	912.00		111	70-130			
PFNA	1090	100	"	1000.0		109	70-130			
PFNS	977	96	"	960.00		102	70-130			
PFOA	1060	100	"	1000.0		106	70-130			
PFOS	955	93	"	925.50		103	70-130			
PFPeA	1050	100	"	1000.0		105	70-130			
PFPeS	931	94	"	940.00		99.1	70-130			
PFTeDA	1160	400	"	1000.0		116	70-130			QC-3, Y-2
PFTrDA	1190	100	"	1000.0		119	70-130			
PFUdA	1120	100	"	1000.0		112	70-130			
Matrix Spike (1909053-MS1)		**Source: E193805-09**		Prepared: 09/25/19 Analyzed: 10/01/19						
ASBPROC-800PFAS										
4:2FTS	1390	120	ng/kg dry	1230.3	U	113	70-133			
6:2FTS	1440	120	"	1250.0	U	116	58-143			
8:2FTS	1240	130	"	1263.2	U	98.0	66-126			
FOSA	1410	130	"	1315.8	U	107	61-138			
HFPO-DA	1030	130	"	1315.8	U	78.0	45-129			
N-EtFOSAA	1300	130	"	1315.8	44.3	95.6	50-168			Y-2
N-MeFOSAA	1280	130	"	1315.8	U	97.3	47-169			
PFBA	1390	130	"	1315.8	140	94.7	60-141			
PFBS	1390	120	"	1164.5	223	100	62-135			
PFDA	1580	130	"	1315.8	363	92.6	53-156			
PFDoA	1740	130	"	1315.8	594	87.4	30-172			
PFDS	1160	130	"	1269.7	U	91.4	44-151			
PFHpA	1410	130	"	1315.8	121	97.6	75-122			
PFHpS	1190	120	"	1250.0	U	95.1	66-132			
PFHxA	1590	130	"	1315.8	286	99.1	64-138			
PFHxS	1230	120	"	1200.0	U	102	70-130			
PFNA	1310	130	"	1315.8	64.6	94.3	72-129			
PFNS	1120	130	"	1263.2	U	88.9	61-126			
PFOA	1590	130	"	1315.8	278	99.9	74-127			
PFOS	1830	120	"	1217.8	627	98.9	68-132			
PFPeA	1670	130	"	1315.8	415	95.4	75-122			

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Diana Burdette

Semi Volatile Organics (SVOA) - Quality Control
US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1909053 - S PFC										
Matrix Spike (1909053-MS1)	**Source: E193805-09**			Prepared: 09/25/19 Analyzed: 10/01/19						
PFPeS	1170	120	ng/kg dry	1236.8	U	94.6	72-122			
PFTeDA	1340	530	"	1315.8	305	78.8	70-130			QC-3, Y-2
PFTrDA	1360	130	"	1315.8	202	88.3	10-193			
PFUdA	1480	130	"	1315.8	240	93.9	44-164			
Matrix Spike Dup (1909053-MSD1)	**Source: E193805-09**			Prepared: 09/25/19 Analyzed: 10/01/19						
ASBPROC-800PFAS										
4:2FTS	1260	120	ng/kg dry	1198.7	U	105	70-133	9.93	34	
6:2FTS	1310	120	"	1217.9	U	108	58-143	9.56	45	
8:2FTS	1210	120	"	1230.8	U	98.6	66-126	2.03	56	
FOSA	1460	130	"	1282.1	U	114	61-138	3.34	39	
HFPO-DA	1030	130	"	1282.1	U	80.0	45-129	0.0570	57	
N-EtFOSAA	1360	130	"	1282.1	44.3	102	50-168	4.14	53	Y-2
N-MeFOSAA	1350	130	"	1282.1	U	106	47-169	5.60	65	
PFBA	1360	130	"	1282.1	140	95.4	60-141	1.71	37	
PFBS	1390	110	"	1134.6	223	103	62-135	0.264	32	
PFDA	1610	130	"	1282.1	363	97.2	53-156	1.68	57	
PFDoA	1740	130	"	1282.1	594	89.3	30-172	0.314	56	
PFDS	1260	120	"	1237.2	U	102	44-151	8.35	66	
PFHpA	1370	130	"	1282.1	121	97.3	75-122	2.63	26	
PFHpS	1220	120	"	1217.9	U	99.8	66-132	2.20	28	
PFHxA	1570	130	"	1282.1	286	99.9	64-138	1.47	42	
PFHxS	1190	120	"	1169.2	U	102	70-130	3.15	20	
PFNA	1310	130	"	1282.1	64.6	96.9	72-129	0.126	31	
PFNS	1140	120	"	1230.8	U	92.6	61-126	1.54	35	
PFOA	1500	130	"	1282.1	278	95.1	74-127	6.20	32	
PFOS	1870	120	"	1186.5	627	105	68-132	1.90	37	
PFPeA	1640	130	"	1282.1	415	95.7	75-122	1.72	27	
PFPeS	1150	120	"	1205.1	U	95.3	72-122	1.82	29	
PFTeDA	1570	510	"	1282.1	305	98.4	70-130	15.5	30	QC-3, Y-2
PFTrDA	1420	130	"	1282.1	202	95.1	10-193	4.07	106	
PFUdA	1480	130	"	1282.1	240	96.8	44-164	0.403	48	

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Diana Burdette

Semi Volatile Organics (SVOA) - Quality Control
US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1909053 - S PFC										
MRL Verification (1909053-PS1)				Prepared: 09/25/19 Analyzed: 10/01/19						
ASBPROC-800PFAS										
4:2FTS	112	94	ng/kg dry	93.500		119	50-150			MRL-3
6:2FTS	116	95	"	95.000		122	50-150			MRL-3
8:2FTS	86.3	96	"	96.000		89.9	50-150			J, MRL-3, Q-2
FOSA	116	100	"	100.00		116	50-150			MRL-3
HFPO-DA	92.4	100	"	100.00		92.4	50-150			J, MRL-3, Q-2
N-EtFOSAA	113	100	"	100.00		113	50-150			MRL-3, Y-2
N-MeFOSAA	119	100	"	100.00		119	50-150			MRL-3
PFBA	111	100	"	100.00		111	50-150			MRL-3
PFBS	101	88	"	88.500		115	50-150			MRL-3
PFDA	113	100	"	100.00		113	50-150			MRL-3
PFDoA	127	100	"	100.00		127	50-150			MRL-3
PFDS	126	96	"	96.500		131	50-150			MRL-3
PFHpA	102	100	"	100.00		102	50-150			MRL-3
PFHpS	102	95	"	95.000		107	50-150			MRL-3
PFHxA	119	100	"	100.00		119	50-150			MRL-3
PFHxS	103	91	"	91.200		113	50-150			MRL-3
PFNA	97.4	100	"	100.00		97.4	50-150			J, MRL-3, Q-2
PFNS	97.1	96	"	96.000		101	50-150			MRL-3
PFOA	102	100	"	100.00		102	50-150			MRL-3
PFOS	91.8	93	"	92.550		99.1	50-150			J, MRL-3, Q-2
PFPeA	112	100	"	100.00		112	50-150			MRL-3
PFPeS	92.8	94	"	94.000		98.8	50-150			J, MRL-3, Q-2
PFTeDA	210	400	"	100.00		210	50-150			J, MRL-3, Q-2, QC-3, QR-2, Y-2
PFTrDA	156	100	"	100.00		156	50-150			MRL-3, QR-2
PFUdA	107	100	"	100.00		107	50-150			MRL-3

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Diana Burdette

Notes and Definitions for QC Samples

U	The analyte was not detected at or above the reporting limit.
J	The identification of the analyte is acceptable; the reported value is an estimate.
MRL-3	MRL verification for Soil matrix
Q-2	Result greater than MDL but less than MRL.
QC-3	Analyte calibration criteria not met
QR-2	MRL verification recovery greater than upper control limits.
Y-2	Data should be limited to screening purposes only

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Jeffrey Hendel

October 18, 2019

MEMORANDUM

SUBJECT: FINAL Analytical Report
Project: 19-0457, PFAS Sediment Screening - Conasauga R

FROM: Jeffrey Hendel
LSB Organic Chemistry Section Chief

THRU: Sandra Aker, Chief
Laboratory Services Branch

TO: Nathan Barlet

Attached are the final results for the analytical groups listed below. This report shall not be reproduced except in full without approval of the Region 4 laboratory. These analyses were performed in accordance with the Laboratory Services Branch's Laboratory Operations and Quality Assurance Manual (LSB LOQAM) found at www.epa.gov/region4/sesd/asbsop. Any unique project data quality objectives specified in writing by the data requestor have also been incorporated into the data unless otherwise noted in the Report Narrative. Chemistry data have been verified based on the LSB LOQAM specifications and have been qualified by this laboratory if the applicable quality control criteria were not met. Verification is defined in Chapter 5 of the LSB LOQAM. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report. The reported results are accurate within the limits of the method(s) and are representative only of the samples as received by the laboratory.

Analyses Included in this report:	Method Used:	Accreditations:
Semi Volatile Organics (SVOA)		
PFAS	ASBPROC-800PFAS (Water)	

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Jeffrey Hendel

Sample Disposal Policy

Due to limited space for long term sample storage, LSB's policy is to dispose of samples on a periodic schedule. Air samples collected in summa canisters will be disposed of 30 days following the issuance of this report. All other sample media including original samples, sample extracts and or digestates will be disposed of, in accordance with applicable regulations, 60 days from the date of this report.

This sample disposal policy does not apply to criminal samples which are held until the laboratory is notified by the criminal investigators that case development and litigation are complete.

These samples may be held in the laboratory's custody for a longer period of time. If samples require storage beyond the 60-day period, please contact the Sample Control Coordinator by e-mail at R4SampleCustody@epa.gov.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Jeffrey Hendel

SAMPLES INCLUDED IN THIS REPORT

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
19-0457-buck-blk-0911	E193703-01	Equipment Rinse Blank	9/11/19 14:38	9/11/19 16:58
19-0457-filter-blk-0911	E193703-02	Equipment Rinse Blank	9/11/19 16:10	9/11/19 16:58
19-0457-ponar-blk-0911	E193703-03	Equipment Rinse Blank	9/11/19 14:45	9/11/19 16:58

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Jeffrey Hendel

DATA QUALIFIER DEFINITIONS

U	The analyte was not detected at or above the reporting limit.
J	The identification of the analyte is acceptable; the reported value is an estimate.
QC-1	Analyte concentration low in continuing calibration verification standard
QC-3	Analyte calibration criteria not met
QC-5	Calibration check standard less than method control limits.
Y-2	Data should be limited to screening purposes only

ACRONYMS AND ABBREVIATIONS

CAS Chemical Abstracts Service

Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.

MDL Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.

MRL Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.

TIC Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.

ACCREDITATIONS:

ISO ASB is accredited by ISO/IEC 17025, including an amplification for forensic accreditation through ANSI-ASQ National Accreditation Board.

Refer to the certificate and scope of accreditation AT-1644 at:
http://www.epa.gov/aboutepa/about-region-4s-science-and-ecosystem-support-division-sesd

NR The EPA Region 4 Laboratory has not requested accreditation for this test.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID: 19-0457-buck-blk-0911 **Lab ID:** E193703-01

Station ID: **Matrix:** Equipment Rinse Blank

Date Collected: 9/11/19 14:38

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
757124-72-4	4:2FTS	37	U	ng/L	37	9/13/19 16:45	9/19/19 1:14	ASBPROC-800PFAS
27619-97-2	6:2FTS	38	U	ng/L	38	9/13/19 16:45	9/19/19 1:14	ASBPROC-800PFAS
39108-34-4	8:2FTS	38	U	ng/L	38	9/13/19 16:45	9/19/19 1:14	ASBPROC-800PFAS
754-91-6	FOSA	40	U	ng/L	40	9/13/19 16:45	9/19/19 1:14	ASBPROC-800PFAS
13252-13-6	HFPO-DA	40	U	ng/L	40	9/13/19 16:45	9/19/19 1:14	ASBPROC-800PFAS
2991-50-6	N-EtFOSAA	160	U, J, Y-2	ng/L	160	9/13/19 16:45	9/23/19 17:58	ASBPROC-800PFAS
2355-31-9	N-MeFOSAA	160	U	ng/L	160	9/13/19 16:45	9/19/19 1:14	ASBPROC-800PFAS
375-22-4	PFBA	40	U	ng/L	40	9/13/19 16:45	9/19/19 1:14	ASBPROC-800PFAS
375-73-5	PFBS	35	U	ng/L	35	9/13/19 16:45	9/19/19 1:14	ASBPROC-800PFAS
335-76-2	PFDA	160	U	ng/L	160	9/13/19 16:45	9/19/19 1:14	ASBPROC-800PFAS
307-55-1	PFDoA	40	U	ng/L	40	9/13/19 16:45	9/19/19 1:14	ASBPROC-800PFAS
335-77-3	PFDS	38	U	ng/L	38	9/13/19 16:45	9/19/19 1:14	ASBPROC-800PFAS
375-85-9	PFHpA	40	U	ng/L	40	9/13/19 16:45	9/19/19 1:14	ASBPROC-800PFAS
375-92-8	PFHpS	38	U	ng/L	38	9/13/19 16:45	9/19/19 1:14	ASBPROC-800PFAS
307-24-4	PFHxA	40	U	ng/L	40	9/13/19 16:45	9/19/19 1:14	ASBPROC-800PFAS
355-46-4	PFHxS	36	U	ng/L	36	9/13/19 16:45	9/19/19 1:14	ASBPROC-800PFAS
375-95-1	PFNA	40	U	ng/L	40	9/13/19 16:45	9/19/19 1:14	ASBPROC-800PFAS
68259-12-1	PFNS	38	U	ng/L	38	9/13/19 16:45	9/19/19 1:14	ASBPROC-800PFAS
335-67-1	PFOA	40	U	ng/L	40	9/13/19 16:45	9/19/19 1:14	ASBPROC-800PFAS
1763-23-1	PFOS	37	U	ng/L	37	9/13/19 16:45	9/19/19 1:14	ASBPROC-800PFAS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID: 19-0457-buck-blk-0911 **Lab ID:** E193703-01

Station ID: **Matrix:** Equipment Rinse Blank

Date Collected: 9/11/19 14:38

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2706-90-3	PFPeA	40	U	ng/L	40	9/13/19 16:45	9/19/19 1:14	ASBPROC-800PFAS
2706-91-4	PFPeS	37	U	ng/L	37	9/13/19 16:45	9/19/19 1:14	ASBPROC-800PFAS
376-06-7	PFTeDA	160	U, J, QC-1, QC-3, QC-5, Y-2	ng/L	160	9/13/19 16:45	9/23/19 17:58	ASBPROC-800PFAS
72629-94-8	PFTrDA	40	U, J, QC-3	ng/L	40	9/13/19 16:45	9/19/19 1:14	ASBPROC-800PFAS
2058-94-8	PFUdA	40	U	ng/L	40	9/13/19 16:45	9/19/19 1:14	ASBPROC-800PFAS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID: 19-0457-filter-blk-0911 **Lab ID:** E193703-02

Station ID: **Matrix:** Equipment Rinse Blank

Date Collected: 9/11/19 16:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
757124-72-4	4:2FTS	38	U	ng/L	38	9/13/19 16:45	9/19/19 1:34	ASBPROC-800PFAS
27619-97-2	6:2FTS	38	U	ng/L	38	9/13/19 16:45	9/19/19 1:34	ASBPROC-800PFAS
39108-34-4	8:2FTS	39	U	ng/L	39	9/13/19 16:45	9/19/19 1:34	ASBPROC-800PFAS
754-91-6	FOSA	40	U	ng/L	40	9/13/19 16:45	9/19/19 1:34	ASBPROC-800PFAS
13252-13-6	HFPO-DA	40	U	ng/L	40	9/13/19 16:45	9/19/19 1:34	ASBPROC-800PFAS
2991-50-6	N-EtFOSAA	160	U, J, Y-2	ng/L	160	9/13/19 16:45	9/20/19 22:53	ASBPROC-800PFAS
2355-31-9	N-MeFOSAA	160	U	ng/L	160	9/13/19 16:45	9/19/19 1:34	ASBPROC-800PFAS
375-22-4	PFBA	40	U	ng/L	40	9/13/19 16:45	9/19/19 1:34	ASBPROC-800PFAS
375-73-5	PFBS	36	U	ng/L	36	9/13/19 16:45	9/19/19 1:34	ASBPROC-800PFAS
335-76-2	PFDA	160	U	ng/L	160	9/13/19 16:45	9/19/19 1:34	ASBPROC-800PFAS
307-55-1	PFDoA	40	U	ng/L	40	9/13/19 16:45	9/19/19 1:34	ASBPROC-800PFAS
335-77-3	PFDS	39	U	ng/L	39	9/13/19 16:45	9/19/19 1:34	ASBPROC-800PFAS
375-85-9	PFHpA	40	U	ng/L	40	9/13/19 16:45	9/19/19 1:34	ASBPROC-800PFAS
375-92-8	PFHpS	38	U	ng/L	38	9/13/19 16:45	9/19/19 1:34	ASBPROC-800PFAS
307-24-4	PFHxA	40	U	ng/L	40	9/13/19 16:45	9/19/19 1:34	ASBPROC-800PFAS
355-46-4	PFHxS	37	U	ng/L	37	9/13/19 16:45	9/19/19 1:34	ASBPROC-800PFAS
375-95-1	PFNA	40	U	ng/L	40	9/13/19 16:45	9/19/19 1:34	ASBPROC-800PFAS
68259-12-1	PFNS	39	U	ng/L	39	9/13/19 16:45	9/19/19 1:34	ASBPROC-800PFAS
335-67-1	PFOA	40	U	ng/L	40	9/13/19 16:45	9/19/19 1:34	ASBPROC-800PFAS
1763-23-1	PFOS	37	U	ng/L	37	9/13/19 16:45	9/19/19 1:34	ASBPROC-800PFAS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID: 19-0457-filter-blk-0911 **Lab ID:** E193703-02

Station ID: **Matrix:** Equipment Rinse Blank

Date Collected: 9/11/19 16:10

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2706-90-3	PFPeA	40	U	ng/L	40	9/13/19 16:45	9/19/19 1:34	ASBPROC-800PFAS
2706-91-4	PFPeS	38	U	ng/L	38	9/13/19 16:45	9/19/19 1:34	ASBPROC-800PFAS
376-06-7	PFTeDA	160	U, J, QC-1, QC-3, Y-2	ng/L	160	9/13/19 16:45	9/20/19 22:53	ASBPROC-800PFAS
72629-94-8	PFTrDA	40	U, J, QC-3	ng/L	40	9/13/19 16:45	9/19/19 1:34	ASBPROC-800PFAS
2058-94-8	PFUdA	40	U	ng/L	40	9/13/19 16:45	9/19/19 1:34	ASBPROC-800PFAS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID: 19-0457-ponar-blk-0911 **Lab ID:** E193703-03

Station ID: **Matrix:** Equipment Rinse Blank

Date Collected: 9/11/19 14:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
757124-72-4	4:2FTS	38	U	ng/L	38	9/13/19 16:45	9/19/19 1:54	ASBPROC-800PFAS
27619-97-2	6:2FTS	38	U	ng/L	38	9/13/19 16:45	9/19/19 1:54	ASBPROC-800PFAS
39108-34-4	8:2FTS	39	U	ng/L	39	9/13/19 16:45	9/19/19 1:54	ASBPROC-800PFAS
754-91-6	FOSA	40	U	ng/L	40	9/13/19 16:45	9/19/19 1:54	ASBPROC-800PFAS
13252-13-6	HFPO-DA	40	U	ng/L	40	9/13/19 16:45	9/19/19 1:54	ASBPROC-800PFAS
2991-50-6	N-EtFOSAA	160	U, J, Y-2	ng/L	160	9/13/19 16:45	9/20/19 23:13	ASBPROC-800PFAS
2355-31-9	N-MeFOSAA	160	U	ng/L	160	9/13/19 16:45	9/19/19 1:54	ASBPROC-800PFAS
375-22-4	PFBA	40	U	ng/L	40	9/13/19 16:45	9/19/19 1:54	ASBPROC-800PFAS
375-73-5	PFBS	36	U	ng/L	36	9/13/19 16:45	9/19/19 1:54	ASBPROC-800PFAS
335-76-2	PFDA	160	U	ng/L	160	9/13/19 16:45	9/19/19 1:54	ASBPROC-800PFAS
307-55-1	PFDoA	40	U	ng/L	40	9/13/19 16:45	9/19/19 1:54	ASBPROC-800PFAS
335-77-3	PFDS	39	U	ng/L	39	9/13/19 16:45	9/19/19 1:54	ASBPROC-800PFAS
375-85-9	PFHpA	40	U	ng/L	40	9/13/19 16:45	9/19/19 1:54	ASBPROC-800PFAS
375-92-8	PFHpS	38	U	ng/L	38	9/13/19 16:45	9/19/19 1:54	ASBPROC-800PFAS
307-24-4	PFHxA	40	U	ng/L	40	9/13/19 16:45	9/19/19 1:54	ASBPROC-800PFAS
355-46-4	PFHxS	37	U	ng/L	37	9/13/19 16:45	9/19/19 1:54	ASBPROC-800PFAS
375-95-1	PFNA	40	U	ng/L	40	9/13/19 16:45	9/19/19 1:54	ASBPROC-800PFAS
68259-12-1	PFNS	39	U	ng/L	39	9/13/19 16:45	9/19/19 1:54	ASBPROC-800PFAS
335-67-1	PFOA	40	U	ng/L	40	9/13/19 16:45	9/19/19 1:54	ASBPROC-800PFAS
1763-23-1	PFOS	37	U	ng/L	37	9/13/19 16:45	9/19/19 1:54	ASBPROC-800PFAS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Jeffrey Hendel

Semi Volatile Organics

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID: 19-0457-ponar-blk-0911 **Lab ID:** E193703-03

Station ID: **Matrix:** Equipment Rinse Blank

Date Collected: 9/11/19 14:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
2706-90-3	PFPeA	40	U	ng/L	40	9/13/19 16:45	9/19/19 1:54	ASBPROC-800PFAS
2706-91-4	PFPeS	38	U	ng/L	38	9/13/19 16:45	9/19/19 1:54	ASBPROC-800PFAS
376-06-7	PFTeDA	160	U, J, Y-2, QC-1, QC-3	ng/L	160	9/13/19 16:45	9/20/19 23:13	ASBPROC-800PFAS
72629-94-8	PFTrDA	40	U, J, QC-3	ng/L	40	9/13/19 16:45	9/19/19 1:54	ASBPROC-800PFAS
2058-94-8	PFUdA	40	U	ng/L	40	9/13/19 16:45	9/19/19 1:54	ASBPROC-800PFAS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Jeffrey Hendel

Semi Volatile Organics (SVOA) - Quality Control
US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1909026 - S PFC										
Blank (1909026-BLK1)				Prepared: 09/13/19 Analyzed: 09/18/19						
ASBPROC-800PFAS										
4:2FTS	U	37	ng/L							U
6:2FTS	U	38	"							U
8:2FTS	U	38	"							U
FOSA	U	40	"							U
HFPO-DA	U	40	"							U
N-EtFOSAA	U	160	"							Y-2, U
N-MeFOSAA	U	160	"							U
PFBA	U	40	"							U
PFBS	U	35	"							U
PFDA	U	160	"							U
PFDoA	U	40	"							U
PFDS	U	39	"							U
PFHpA	U	40	"							U
PFHpS	U	38	"							U
PFHxA	U	40	"							U
PFHxS	U	36	"							U
PFNA	U	40	"							U
PFNS	U	38	"							U
PFOA	U	40	"							U
PFOS	U	37	"							U
PFPeA	U	40	"							U
PFPeS	U	38	"							U
PFTeDA	U	160	"							QC-1, QC-3, Y-2, U
PFTrDA	U	40	"							QC-3, U
PFUdA	U	40	"							U
LCS (1909026-BS1)				Prepared: 09/13/19 Analyzed: 09/18/19						
ASBPROC-800PFAS										
4:2FTS	467	37	ng/L	374.00		125	67.1-125			
6:2FTS	457	38	"	380.00		120	49.2-134			
8:2FTS	414	38	"	384.00		108	56.4-136			
FOSA	422	40	"	400.00		105	57.7-148			
HFPO-DA	366	40	"	400.00		91.4	51.1-127			
N-EtFOSAA	453	160	"	400.00		113	47.2-185.3			Y-2
N-MeFOSAA	426	160	"	400.00		107	43.2-178			
PFBA	451	40	"	400.00		113	67.9-118			
PFBS	414	35	"	354.00		117	68.2-118			

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Jeffrey Hendel

Semi Volatile Organics (SVOA) - Quality Control
US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1909026 - S PFC										
LCS (1909026-BS1)				Prepared: 09/13/19 Analyzed: 09/18/19						
PFDA	456	160	ng/L	400.00		114	47.4-162			
PFDoA	442	40	"	400.00		110	56.5-155			
PFDS	445	39	"	386.00		115	35.1-168			
PFHpA	461	40	"	400.00		115	72.8-116			
PFHpS	441	38	"	380.00		116	59.7-130			
PFHxA	484	40	"	400.00		121	62.6-127			
PFHxS	437	36	"	364.80		120	69.5-117			QL-2
PFNA	460	40	"	400.00		115	64.1-128.4			
PFNS	402	38	"	384.00		105	63.3-126			
PFOA	457	40	"	400.00		114	66.7-122			
PFOS	414	37	"	370.20		112	70.4-122			
PFPeA	459	40	"	400.00		115	72-115			
PFPeS	434	38	"	376.00		115	69-117			
PFTeDA	484	160	"	400.00		121	42.9-179			QC-1, QC-3, Y-2
PFTrDA	485	40	"	400.00		121	32.2-215			QC-3
PFUdA	477	40	"	400.00		119	65.8-142			
Matrix Spike (1909026-MS1)		**Source: E193701-01**		Prepared: 09/13/19 Analyzed: 09/19/19						
ASBPROC-800PFAS										
4:2FTS	456	38	ng/L	382.41	U	119	70-133			
6:2FTS	474	38	"	388.55	U	122	58-143			
8:2FTS	438	39	"	392.64	U	112	66-126			
FOSA	458	40	"	409.00	U	112	61-138			
HFPO-DA	919	40	"	409.00	549	90.3	45-129			
N-MeFOSAA	491	160	"	409.00	U	120	47-169			
PFBA	461	40	"	409.00	U	113	60-141			
PFBS	412	36	"	361.96	U	114	62-135			
PFDA	493	160	"	409.00	U	121	53-156			
PFDoA	466	40	"	409.00	U	114	30-172			
PFDS	467	39	"	394.68	U	118	44-151			
PFHpA	495	40	"	409.00	18.8	117	75-122			
PFHpS	454	38	"	388.55	U	117	66-132			
PFHxA	501	40	"	409.00	U	123	64-138			
PFHxS	454	37	"	373.01	U	122	72-124			
PFNA	487	40	"	409.00	U	119	72-129			
PFNS	409	39	"	392.64	U	104	61-126			
PFOA	498	40	"	409.00	U	122	74-127			
PFOS	443	37	"	378.53	U	117	68-132			

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Jeffrey Hendel

Semi Volatile Organics (SVOA) - Quality Control
US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1909026 - S PFC										
Matrix Spike (1909026-MS1)	**Source: E193701-01**			Prepared: 09/13/19 Analyzed: 09/19/19						
PFPeA	508	40	ng/L	409.00	30.4	117	75-122			
PFPeS	442	38	"	384.46	U	115	72-122			
PFTrDA	528	40	"	409.00	U	129	10-193			QC-3
PFUdA	486	40	"	409.00	U	119	44-164			
Matrix Spike Dup (1909026-MSD1)	**Source: E193701-01**			Prepared: 09/13/19 Analyzed: 09/19/19						
ASBPROC-800PFAS										
4:2FTS	455	37	ng/L	374.75	U	121	70-133	0.310	34	
6:2FTS	508	38	"	380.76	U	133	58-143	6.84	45	
8:2FTS	431	38	"	384.77	U	112	66-126	1.75	56	
FOSA	451	40	"	400.80	U	112	61-138	1.68	39	
HFPO-DA	899	40	"	400.80	549	87.2	45-129	2.19	57	
N-MeFOSAA	490	160	"	400.80	U	122	47-169	0.216	65	
PFBA	467	40	"	400.80	U	117	60-141	1.24	37	
PFBS	424	35	"	354.71	U	120	62-135	2.88	32	
PFDA	468	160	"	400.80	U	117	53-156	5.32	57	
PFDoA	479	40	"	400.80	U	120	30-172	2.76	56	
PFDS	457	39	"	386.77	U	118	44-151	2.03	66	
PFHpA	492	40	"	400.80	18.8	118	75-122	0.722	26	
PFHpS	453	38	"	380.76	U	119	66-132	0.248	28	
PFHxA	490	40	"	400.80	U	122	64-138	2.28	42	
PFHxS	441	37	"	365.53	U	121	72-124	2.87	32	
PFNA	487	40	"	400.80	U	121	72-129	0.0107	31	
PFNS	402	38	"	384.77	U	104	61-126	1.82	35	
PFOA	489	40	"	400.80	U	122	74-127	1.97	32	
PFOS	441	37	"	370.94	U	119	68-132	0.375	37	
PFPeA	498	40	"	400.80	30.4	117	75-122	1.96	27	
PFPeS	446	38	"	376.75	U	118	72-122	0.874	29	
PFTrDA	509	40	"	400.80	U	127	10-193	3.69	106	QC-3
PFUdA	507	40	"	400.80	U	126	44-164	4.14	48	

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Jeffrey Hendel

Semi Volatile Organics (SVOA) - Quality Control
US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1909026 - S PFC										
MRL Verification (1909026-PS1)				Prepared: 09/13/19 Analyzed: 09/18/19						
ASBPROC-800PFAS										
4:2FTS	44.4	37	ng/L	37.400		119	47.1-145			MRL-2
6:2FTS	42.5	38	"	38.000		112	29.2-154			MRL-2
8:2FTS	37.0	38	"	38.400		96.3	36.4-156			MRL-2, Q-2, J
FOSA	37.8	40	"	40.000		94.5	37.7-168			MRL-2, Q-2, J
HFPO-DA	26.1	40	"	40.000		65.3	31.3-147			MRL-2, Q-2, J
PFBA	43.4	40	"	40.000		108	47.9-138			MRL-2
PFBS	36.4	35	"	35.400		103	48.2-138			MRL-2
PFDoA	37.6	40	"	40.000		94.0	36.5-175			MRL-2, Q-2, J
PFDS	39.8	39	"	38.600		103	15.1-188			MRL-2
PFHpA	42.5	40	"	40.000		106	52.8-136			MRL-2
PFHpS	39.3	38	"	38.000		103	39.7-150			MRL-2
PFHxA	45.9	40	"	40.000		115	42.6-147			MRL-2
PFHxS	44.9	36	"	36.480		123	49.5-138			MRL-2
PFNA	40.5	40	"	40.000		101	44.1-148			MRL-2
PFNS	41.2	38	"	38.400		107	43.3-146			MRL-2
PFOA	42.2	40	"	40.000		106	46.7-142			MRL-2
PFOS	43.3	37	"	37.020		117	50.4-142			MRL-2
PFPeA	40.9	40	"	40.000		102	52-135			MRL-2
PFPeS	36.2	38	"	37.600		96.4	49-137			MRL-2, Q-2, J
PFTrDA	43.8	40	"	40.000		109	12.2-235			MRL-2, QC-3
PFUdA	38.9	40	"	40.000		97.2	45.8-162			MRL-2, Q-2, J
MRL Verification (1909026-PS2)				Prepared: 09/13/19 Analyzed: 09/20/19						
ASBPROC-800PFAS										
N-EtFOSAA	133	160	ng/L	160.00		83.0	27.2-205			MRL-2, Q-2, Y-2, J
N-MeFOSAA	150	160	"	160.00		93.6	23.2-198			MRL-2, Q-2, J
PFDA	164	160	"	160.00		103	27.4-182			MRL-2
PFTeDA	90.9	160	"	160.00		56.8	22.9-199			MRL-2, Q-2, QC-1, QC-3, J, Y-2

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Jeffrey Hendel

Notes and Definitions for QC Samples

U	The analyte was not detected at or above the reporting limit.
J	The identification of the analyte is acceptable; the reported value is an estimate.
MRL-2	MRL verification for Non-Potable Water matrix
Q-2	Result greater than MDL but less than MRL.
QC-1	Analyte concentration low in continuing calibration verification standard
QC-3	Analyte calibration criteria not met
QL-2	Laboratory Control Spike Recovery greater than method control limits
Y-2	Data should be limited to screening purposes only

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Floyd Wellborn

October 22, 2019

MEMORANDUM

SUBJECT: FINAL Analytical Report
Project: 19-0457, PFAS Sediment Screening - Conasauga R

FROM: Floyd Wellborn
LSB Inorganic Chemistry Section Chief

THRU: Sandra Aker, Chief
Laboratory Services Branch

TO: Nathan Barlet

Attached are the final results for the analytical groups listed below. This report shall not be reproduced except in full without approval of the Region 4 laboratory. These analyses were performed in accordance with the Laboratory Services Branch's Laboratory Operations and Quality Assurance Manual (LSB LOQAM) found at www.epa.gov/region4/sesd/asbsop. Any unique project data quality objectives specified in writing by the data requestor have also been incorporated into the data unless otherwise noted in the Report Narrative. Chemistry data have been verified based on the LSB LOQAM specifications and have been qualified by this laboratory if the applicable quality control criteria were not met. Verification is defined in Chapter 5 of the LSB LOQAM. For a listing of specific data qualifiers and explanations, please refer to the Data Qualifier Definitions included in this report. The reported results are accurate within the limits of the method(s) and are representative only of the samples as received by the laboratory.

Analyses Included in this report:	Method Used:	Accreditations:
Classical/Nutrient Analyses (CNA)		
Classical/Nutrients	ASB 107C (Soil)	ISO
Classical/Nutrients	SM 5310B (Water)	ISO
Solids	USGS I-3765-85 (Water)	ISO
Physical Properties (PHYSP)		
Physical Properties	EPA 200.2 (Soil)	ISO

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Floyd Wellborn

Report Narrative for Work Order: E193805 Analysis: CNA

10/21/19 FW: These results are re-reported at the request of the project leader to include estimated results for TOC in soil down to the MDL. No other results were changed. This report replaces E193805 CNA PHYSP FINAL 10 10 19 1452.

Sample Disposal Policy

Due to limited space for long term sample storage, LSB's policy is to dispose of samples on a periodic schedule. Air samples collected in summa canisters will be disposed of 30 days following the issuance of this report. All other sample media including original samples, sample extracts and or digestates will be disposed of, in accordance with applicable regulations, 60 days from the date of this report.

This sample disposal policy does not apply to criminal samples which are held until the laboratory is notified by the criminal investigators that case development and litigation are complete.

These samples may be held in the laboratory's custody for a longer period of time. If samples require storage beyond the 60-day period, please contact the Sample Control Coordinator by e-mail at R4SampleCustody@epa.gov.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Floyd Wellborn

SAMPLES INCLUDED IN THIS REPORT

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
19-0457-CONA1-0916	E193805-07	Surface Water	9/17/19 10:40	9/18/19 13:32
19-0457-CONA1-S-0916	E193805-09	Sediment	9/17/19 11:00	9/18/19 13:32
19-0457-CONA2-S-0916	E193805-11	Sediment	9/17/19 18:20	9/18/19 13:32
19-0457-CONA3-0916	E193805-12	Surface Water	9/17/19 13:00	9/18/19 13:32
19-0457-CONA3-S-0916	E193805-14	Sediment	9/17/19 13:15	9/18/19 13:32
19-0457-CONA4-S-0916	E193805-16	Sediment	9/17/19 14:50	9/18/19 13:32
19-0457-CRI-0916	E193805-17	Surface Water	9/16/19 12:45	9/18/19 13:32
19-0457-CRI-DUP-0916	E193805-18	Surface Water	9/16/19 13:00	9/18/19 13:32
19-0457-CRI-S-0916	E193805-21	Sediment	9/16/19 13:30	9/18/19 13:32
19-0457-CRI-S-DUP-0916	E193805-22	Sediment	9/16/19 14:00	9/18/19 13:32
19-0457-OOST1-S-0916	E193805-24	Sediment	9/17/19 09:20	9/18/19 13:32
19-0457-OOST2-S-0916	E193805-26	Sediment	9/16/19 17:00	9/18/19 13:32
19-0457-OOST3-0916	E193805-27	Surface Water	9/16/19 15:00	9/18/19 13:32
19-0457-OOST3-S-0916	E193805-29	Sediment	9/16/19 15:15	9/18/19 13:32

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Floyd Wellborn

DATA QUALIFIER DEFINITIONS

J The identification of the analyte is acceptable; the reported value is an estimate.

Q-2 Result greater than MDL but less than MRL.

ACRONYMS AND ABBREVIATIONS

CAS Chemical Abstracts Service

Note: Analytes with no known CAS identifiers have been assigned codes beginning with "E", the EPA ID as assigned by the EPA Substance Registry System (www.epa.gov/srs), or beginning with "R4-", a unique identifier assigned by the EPA Region 4 laboratory.

MDL Method Detection Limit - The minimum concentration of a substance (an analyte) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero.

MRL Minimum Reporting Limit - Analyte concentration that corresponds to the lowest demonstrated level of acceptable quantitation. The MRL is sample-specific and accounts for preparation weights and volumes, dilutions, and moisture content of soil/sediments.

TIC Tentatively Identified Compound - An analyte identified based on a match with the instrument software's mass spectral library. A calibration standard has not been analyzed to confirm the compound's identification or the estimated concentration reported.

ACCREDITATIONS:

ISO ASB is accredited by ISO/IEC 17025, including an amplification for forensic accreditation through ANSI-ASQ National Accreditation Board.

Refer to the certificate and scope of accreditation AT-1644 at:
http://www.epa.gov/aboutepa/about-region-4s-science-and-ecosystem-support-division-sesd

NR The EPA Region 4 Laboratory has not requested accreditation for this test.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Floyd Wellborn

Classical/Nutrient Analyses

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID: 19-0457-CONA1-0916 **Lab ID:** E193805-07
Station ID: CONA1 **Matrix:** Surface Water

Date Collected: 9/17/19 10:40

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E701250	Total Organic Carbon	1.5		mg/L	1.0	10/07/19 9:47	10/07/19 13:05	SM 5310B
E1642818	Total Suspended Solids	9.1		mg/L	5.0	9/20/19 16:15	9/23/19 8:15	USGS I-3765-85

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Floyd Wellborn

Classical/Nutrient Analyses

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID: 19-0457-CONA1-S-0916 **Lab ID:** E193805-09
Station ID: CONA1 **Matrix:** Sediment

Date Collected: 9/17/19 11:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E701250	Total Organic Carbon	3100	J, Q-2	mg/kg dry	12000	10/07/19 16:22	10/09/19 14:04	ASB 107C

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Floyd Wellborn

Physical Properties

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID: 19-0457-CONA1-S-0916 **Lab ID:** E193805-09
Station ID: CONA1 **Matrix:** Sediment

Date Collected: 9/17/19 11:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	76		%	0.0	10/04/19 14:47	10/07/19 8:40	EPA 200.2

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Floyd Wellborn

Classical/Nutrient Analyses

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID: 19-0457-CONA2-S-0916 **Lab ID:** E193805-11
Station ID: CONA2 **Matrix:** Sediment

Date Collected: 9/17/19 18:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E701250	Total Organic Carbon	4100	J, Q-2	mg/kg dry	12000	10/07/19 16:22	10/09/19 14:37	ASB 107C

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Floyd Wellborn

Physical Properties

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID: 19-0457-CONA2-S-0916 **Lab ID:** E193805-11
Station ID: CONA2 **Matrix:** Sediment

Date Collected: 9/17/19 18:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	76		%	0.0	10/04/19 14:47	10/07/19 8:40	EPA 200.2

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Floyd Wellborn

Classical/Nutrient Analyses

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID: 19-0457-CONA3-0916 **Lab ID:** E193805-12
Station ID: CONA3 **Matrix:** Surface Water

Date Collected: 9/17/19 13:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E701250	Total Organic Carbon	2.7		mg/L	1.0	10/07/19 9:47	10/07/19 14:15	SM 5310B
E1642818	Total Suspended Solids	9.7		mg/L	5.0	9/20/19 16:15	9/23/19 8:15	USGS I-3765-85

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Floyd Wellborn

Classical/Nutrient Analyses

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID: 19-0457-CONA3-S-0916 **Lab ID:** E193805-14
Station ID: CONA3 **Matrix:** Sediment

Date Collected: 9/17/19 13:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E701250	Total Organic Carbon	5400	J, Q-2	mg/kg dry	12000	10/07/19 16:22	10/09/19 14:46	ASB 107C

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Floyd Wellborn

Physical Properties

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID: 19-0457-CONA3-S-0916 **Lab ID:** E193805-14
Station ID: CONA3 **Matrix:** Sediment

Date Collected: 9/17/19 13:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	74		%	0.0	10/04/19 14:47	10/07/19 8:40	EPA 200.2

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Floyd Wellborn

Classical/Nutrient Analyses

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID: 19-0457-CONA4-S-0916 **Lab ID:** E193805-16
Station ID: CONA4 **Matrix:** Sediment

Date Collected: 9/17/19 14:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E701250	Total Organic Carbon	30000		mg/kg dry	12000	10/07/19 16:22	10/09/19 14:59	ASB 107C

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Floyd Wellborn

Physical Properties

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID: 19-0457-CONA4-S-0916 **Lab ID:** E193805-16
Station ID: CONA4 **Matrix:** Sediment

Date Collected: 9/17/19 14:50

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	28		%	0.0	10/04/19 14:47	10/07/19 8:40	EPA 200.2

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Floyd Wellborn

Classical/Nutrient Analyses

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID: 19-0457-CRI-0916 **Lab ID:** E193805-17
Station ID: CRI **Matrix:** Surface Water

Date Collected: 9/16/19 12:45

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E701250	Total Organic Carbon	2.0		mg/L	1.0	10/07/19 9:47	10/07/19 14:40	SM 5310B
E1642818	Total Suspended Solids	29		mg/L	5.0	9/20/19 16:15	9/23/19 8:15	USGS I-3765-85

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Floyd Wellborn

Classical/Nutrient Analyses

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID: 19-0457-CRI-DUP-0916 **Lab ID:** E193805-18
Station ID: CRI **Matrix:** Surface Water

Date Collected: 9/16/19 13:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E701250	Total Organic Carbon	2.8		mg/L	1.0	10/07/19 9:47	10/07/19 14:59	SM 5310B
E1642818	Total Suspended Solids	8.3		mg/L	5.0	9/20/19 16:15	9/23/19 8:15	USGS I-3765-85

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Floyd Wellborn

Classical/Nutrient Analyses

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID: 19-0457-CRI-S-0916 **Lab ID:** E193805-21
Station ID: CRI **Matrix:** Sediment

Date Collected: 9/16/19 13:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E701250	Total Organic Carbon	2200	J, Q-2	mg/kg dry	12000	10/07/19 16:22	10/09/19 15:11	ASB 107C

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Floyd Wellborn

Physical Properties

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID: 19-0457-CRI-S-0916 **Lab ID:** E193805-21
Station ID: CRI **Matrix:** Sediment

Date Collected: 9/16/19 13:30

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	71		%	0.0	10/04/19 14:47	10/07/19 8:40	EPA 200.2

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Floyd Wellborn

Classical/Nutrient Analyses

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID: 19-0457-CRI-S-DUP-0916 **Lab ID:** E193805-22
Station ID: CRI **Matrix:** Sediment

Date Collected: 9/16/19 14:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E701250	Total Organic Carbon	4900	J, Q-2	mg/kg dry	12000	10/07/19 16:22	10/09/19 15:20	ASB 107C

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Floyd Wellborn

Physical Properties

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID: 19-0457-CRI-S-DUP-0916 **Lab ID:** E193805-22
Station ID: CRI **Matrix:** Sediment

Date Collected: 9/16/19 14:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	68		%	0.0	10/04/19 14:47	10/07/19 8:40	EPA 200.2

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Floyd Wellborn

Classical/Nutrient Analyses

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID: 19-0457-OOST1-S-0916 **Lab ID:** E193805-24
Station ID: OOST1 **Matrix:** Sediment

Date Collected: 9/17/19 9:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E701250	Total Organic Carbon	7100	J, Q-2	mg/kg dry	12000	10/07/19 16:22	10/09/19 15:29	ASB 107C

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Floyd Wellborn

Physical Properties

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID: 19-0457-OOST1-S-0916 **Lab ID:** E193805-24
Station ID: OOST1 **Matrix:** Sediment

Date Collected: 9/17/19 9:20

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	65		%	0.0	10/04/19 14:47	10/07/19 8:40	EPA 200.2

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Floyd Wellborn

Classical/Nutrient Analyses

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID: 19-0457-OOST2-S-0916 **Lab ID:** E193805-26
Station ID: OOST2 **Matrix:** Sediment

Date Collected: 9/16/19 17:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E701250	Total Organic Carbon	6700	J, Q-2	mg/kg dry	12000	10/07/19 16:22	10/09/19 15:40	ASB 107C

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Floyd Wellborn

Physical Properties

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID: 19-0457-OOST2-S-0916 **Lab ID:** E193805-26
Station ID: OOST2 **Matrix:** Sediment

Date Collected: 9/16/19 17:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	69		%	0.0	10/04/19 14:47	10/07/19 8:40	EPA 200.2

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Floyd Wellborn

Classical/Nutrient Analyses

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID: 19-0457-OOST3-0916 **Lab ID:** E193805-27
Station ID: OOST3 **Matrix:** Surface Water

Date Collected: 9/16/19 15:00

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E701250	Total Organic Carbon	1.9		mg/L	1.0	10/07/19 9:47	10/07/19 15:18	SM 5310B
E1642818	Total Suspended Solids	14		mg/L	5.0	9/20/19 16:15	9/23/19 8:15	USGS I-3765-85

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Floyd Wellborn

Classical/Nutrient Analyses

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID: 19-0457-OOST3-S-0916 **Lab ID:** E193805-29
Station ID: OOST3 **Matrix:** Sediment

Date Collected: 9/16/19 15:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E701250	Total Organic Carbon	4600	J, Q-2	mg/kg dry	12000	10/07/19 16:22	10/09/19 15:51	ASB 107C

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Floyd Wellborn

Physical Properties

Project: 19-0457, PFAS Sediment Screening - Conasauga R

Sample ID: 19-0457-OOST3-S-0916 **Lab ID:** E193805-29
Station ID: OOST3 **Matrix:** Sediment

Date Collected: 9/16/19 15:15

CAS Number	Analyte	Results	Qualifiers	Units	MRL	Prepared	Analyzed	Method
E1642941	% Solids	74		%	0.0	10/04/19 14:47	10/07/19 8:40	EPA 200.2

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Floyd Wellborn

Classical/Nutrient Analyses (CNA) - Quality Control
US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1910005 - C 2540 Solids										
Blank (1910005-BLK1)				Prepared: 09/20/19 Analyzed: 09/23/19						
USGS I-3765-85										
Total Suspended Solids	U	5.0	mg/L							U
LCS (1910005-BS1)				Prepared: 09/20/19 Analyzed: 09/23/19						
USGS I-3765-85										
Total Suspended Solids	90.000	5.0	mg/L	100.00		90.0	77.1-110			
LCS Dup (1910005-BSD1)				Prepared: 09/20/19 Analyzed: 09/23/19						
USGS I-3765-85										
Total Suspended Solids	87.400	5.0	mg/L	100.00		87.4	77.1-110	2.93	10	
Duplicate (1910005-DUP1)		**Source: E193805-27**		Prepared: 09/20/19 Analyzed: 09/23/19						
USGS I-3765-85										
Total Suspended Solids	15.400	5.0	mg/L		14.400			6.71	10	
MRL Verification (1910005-PS1)				Prepared: 09/20/19 Analyzed: 09/23/19						
USGS I-3765-85										
Total Suspended Solids	4.5000	5.0	mg/L	5.0000		90.0	57.1-130			MRL-2, U
Batch 1910021 - C 415 TOC Wtr										
Blank (1910021-BLK1)				Prepared & Analyzed: 10/07/19						
SM 5310B										
Total Organic Carbon	U	1.0	mg/L							U
LCS (1910021-BS1)				Prepared & Analyzed: 10/07/19						
SM 5310B										
Total Organic Carbon	47.410	1.0	mg/L	50.000		94.8	90-110			
LCS (1910021-BS2)				Prepared & Analyzed: 10/07/19						
SM 5310B										
Total Organic Carbon	5.0390	1.0	mg/L	5.0000		101	90-110			
LCS Dup (1910021-BSD1)				Prepared & Analyzed: 10/07/19						
SM 5310B										
Total Organic Carbon	47.270	1.0	mg/L	50.000		94.5	90-110	0.296	10	

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Floyd Wellborn

Classical/Nutrient Analyses (CNA) - Quality Control
US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1910021 - C 415 TOC Wtr										
Matrix Spike (1910021-MS1)		**Source: E193805-07**		Prepared & Analyzed: 10/07/19						
SM 5310B										
Total Organic Carbon	48.560	1.0	mg/L	50.000	1.4830	94.2	90-110			
Matrix Spike Dup (1910021-MSD1)		**Source: E193805-07**		Prepared & Analyzed: 10/07/19						
SM 5310B										
Total Organic Carbon	47.900	1.0	mg/L	50.000	1.4830	92.8	90-110	1.37	10	
MRL Verification (1910021-PS1)				Prepared & Analyzed: 10/07/19						
SM 5310B										
Total Organic Carbon	1.0800	1.0	mg/L	1.0000		108	70-130			MRL-2
Batch 1910023 - C ASB107C TOC										
Blank (1910023-BLK1)				Prepared: 10/07/19 Analyzed: 10/09/19						
ASB 107C										
Total Organic Carbon	U	12000	mg/kg dry							U
LCS (1910023-BS1)				Prepared: 10/07/19 Analyzed: 10/09/19						
ASB 107C										
Total Organic Carbon	40460	12000	mg/kg dry	40328		100	90-110			
Matrix Spike (1910023-MS1)		**Source: E193805-09**		Prepared: 10/07/19 Analyzed: 10/09/19						
ASB 107C										
Total Organic Carbon	42968	12000	mg/kg dry	39996	3136.9	99.6	90-110			
Matrix Spike Dup (1910023-MSD1)		**Source: E193805-09**		Prepared: 10/07/19 Analyzed: 10/09/19						
ASB 107C										
Total Organic Carbon	44938	12000	mg/kg dry	39776	3136.9	105	90-110	5.38	20	
MRL Verification (1910023-PS1)				Prepared: 10/07/19 Analyzed: 10/09/19						
ASB 107C										
Total Organic Carbon	11700	12000	mg/kg dry	12000		97.5	85-115			MRL-3, J

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Floyd Wellborn

Physical Properties (PHYSP) - Quality Control
US-EPA, Region 4, LSASD

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1910019 - M % Solids										
Duplicate (1910019-DUP1)		**Source: E193805-29**		Prepared: 10/04/19 Analyzed: 10/07/19						
EPA 200.2										
% Solids	72.423	0.0	%		73.703			1.75	10	

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region 4 Laboratory Services and Applied Science Division
980 College Station Road, Athens, Georgia 30605-2700
D.A.R.T. Id: 19-0457
Project: 19-0457, PFAS Sediment Screening - Conasauga R - Reported by Floyd Wellborn

Notes and Definitions for QC Samples

U	The analyte was not detected at or above the reporting limit.
J	The identification of the analyte is acceptable; the reported value is an estimate.
MRL-2	MRL verification for Non-Potable Water matrix
MRL-3	MRL verification for Soil matrix

END OF PROVISIONAL RELEASE OF DATA