

ANALYTICAL REPORT

Eurofins TestAmerica, Michigan
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Laboratory Job ID: 190-26820-1

Client Project/Site: Bronson WWTP

For:

City of Bronson
141 S Matteson Street
Bronson, Michigan 49028

Attn: Brandon Mersman

Sue Schafer

Authorized for release by:
9/23/2021 6:46:44 PM

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Results relate only to the items tested and the sample(s) as received by the laboratory.



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Sample Summary

Client: City of Bronson
Project/Site: Bronson WWTP

Job ID: 190-26820-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
190-26820-1	EFFLUENT	Water	09/08/21 13:58	09/10/21 08:00
190-26820-2	STORAGE DIGESTOR	Solid	09/08/21 13:50	09/10/21 08:00

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Case Narrative

Client: City of Bronson
Project/Site: Bronson WWTP

Job ID: 190-26820-1

Job ID: 190-26820-1

Laboratory: Eurofins TestAmerica, Michigan

Narrative

Job Narrative 190-26820-1

Comments

No additional comments.

Receipt

The samples were received on 9/10/2021 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.9° C.

LCMS

Method 537 (modified): The "I" qualifier means the transition mass ratio for 8:2 FTS was outside of the established ratio limits. The qualitative identification of the analyte has some degree of uncertainty. However, analyst judgment was used to positively identify the analyte. The percent difference was within control limits; therefore there is no impact on the data due to the mass ration outside established ratio limits (CCVL 320-526594/2).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

Method 3535: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 320-524846.

Method: 3535_PFC
Matrix: Aqueous

Method 3535: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 320-526555.

Method: 3535_PFC/PFC_IDA
Matrix: Water
preparation batch 320-526555

Method SHAKE: The following sample was yellow after extraction/final volume:

STORAGE DIGESTOR (190-26820-2)

PFC_IDA
Solid
<AnalyticalBatch>

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Client Sample Results

Client: City of Bronson
Project/Site: Bronson WWTP

Job ID: 190-26820-1

Client Sample ID: EFFLUENT

Lab Sample ID: 190-26820-1

Date Collected: 09/08/21 13:58

Matrix: Water

Date Received: 09/10/21 08:00

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
9CI-PF3ONS	<1.6		1.6	ng/L		09/19/21 20:16	09/20/21 16:51	1
11CI-PF3OUdS	<1.6		1.6	ng/L		09/19/21 20:16	09/20/21 16:51	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<1.6		1.6	ng/L		09/19/21 20:16	09/20/21 16:51	1
4:2 FTS	<1.6		1.6	ng/L		09/19/21 20:16	09/20/21 16:51	1
6:2 FTS	<4.0		4.0	ng/L		09/19/21 20:16	09/20/21 16:51	1
8:2 FTS	<1.6		1.6	ng/L		09/19/21 20:16	09/20/21 16:51	1
HFPO-DA (GenX)	<3.2		3.2	ng/L		09/19/21 20:16	09/20/21 16:51	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<4.0		4.0	ng/L		09/19/21 20:16	09/20/21 16:51	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<4.0		4.0	ng/L		09/19/21 20:16	09/20/21 16:51	1
Perfluorobutanesulfonic acid (PFBS)	33		1.6	ng/L		09/19/21 20:16	09/20/21 16:51	1
Perfluorobutanoic acid (PFBA)	7.8		4.0	ng/L		09/19/21 20:16	09/20/21 16:51	1
Perfluorodecanesulfonic acid (PFDS)	<1.6		1.6	ng/L		09/19/21 20:16	09/20/21 16:51	1
Perfluorodecanoic acid (PFDA)	<1.6		1.6	ng/L		09/19/21 20:16	09/20/21 16:51	1
Perfluorododecanoic acid (PFDoA)	<1.6		1.6	ng/L		09/19/21 20:16	09/20/21 16:51	1
Perfluoroheptanesulfonic Acid (PFHpS)	<1.6		1.6	ng/L		09/19/21 20:16	09/20/21 16:51	1
Perfluoroheptanoic acid (PFHpA)	<1.6		1.6	ng/L		09/19/21 20:16	09/20/21 16:51	1
Perfluorohexanesulfonic acid (PFHxS)	<1.6		1.6	ng/L		09/19/21 20:16	09/20/21 16:51	1
Perfluorohexanoic acid (PFHxA)	14		1.6	ng/L		09/19/21 20:16	09/20/21 16:51	1
Perfluorononanesulfonic acid (PFNS)	<1.6		1.6	ng/L		09/19/21 20:16	09/20/21 16:51	1
Perfluorononanoic acid (PFNA)	<1.6		1.6	ng/L		09/19/21 20:16	09/20/21 16:51	1
Perfluorooctanesulfonamide (FOSA)	<1.6		1.6	ng/L		09/19/21 20:16	09/20/21 16:51	1
Perfluorooctanesulfonic acid (PFOS)	5.7		1.6	ng/L		09/19/21 20:16	09/20/21 16:51	1
Perfluorooctanoic acid (PFOA)	4.2		1.6	ng/L		09/19/21 20:16	09/20/21 16:51	1
Perfluoropentanesulfonic acid (PFPeS)	<1.6		1.6	ng/L		09/19/21 20:16	09/20/21 16:51	1
Perfluoropentanoic acid (PFPeA)	10		1.6	ng/L		09/19/21 20:16	09/20/21 16:51	1
Perfluorotetradecanoic acid (PFTeA)	<1.6		1.6	ng/L		09/19/21 20:16	09/20/21 16:51	1
Perfluorotridecanoic acid (PFTriA)	<1.6		1.6	ng/L		09/19/21 20:16	09/20/21 16:51	1
Perfluoroundecanoic acid (PFUnA)	<1.6		1.6	ng/L		09/19/21 20:16	09/20/21 16:51	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 FOSA	79		25 - 150	09/19/21 20:16	09/20/21 16:51	1
13C3 HFPO-DA	74		25 - 150	09/19/21 20:16	09/20/21 16:51	1
13C4 PFBA	77		25 - 150	09/19/21 20:16	09/20/21 16:51	1
13C3 PFBS	58		25 - 150	09/19/21 20:16	09/20/21 16:51	1
13C2 PFDA	79		25 - 150	09/19/21 20:16	09/20/21 16:51	1
13C2 PFDoA	61		25 - 150	09/19/21 20:16	09/20/21 16:51	1
13C4 PFHpA	78		25 - 150	09/19/21 20:16	09/20/21 16:51	1
13C2 PFHxA	67		25 - 150	09/19/21 20:16	09/20/21 16:51	1
13C5 PFNA	93		25 - 150	09/19/21 20:16	09/20/21 16:51	1
13C4 PFOA	92		25 - 150	09/19/21 20:16	09/20/21 16:51	1
13C4 PFOS	79		25 - 150	09/19/21 20:16	09/20/21 16:51	1
13C5 PFPeA	87		25 - 150	09/19/21 20:16	09/20/21 16:51	1
13C2 PFTeDA	70		25 - 150	09/19/21 20:16	09/20/21 16:51	1
13C2 PFUnA	63		25 - 150	09/19/21 20:16	09/20/21 16:51	1
d5-NEtFOSAA	62		25 - 150	09/19/21 20:16	09/20/21 16:51	1

Eurofins TestAmerica, Michigan

Client Sample Results

Client: City of Bronson
Project/Site: Bronson WWTP

Job ID: 190-26820-1

Client Sample ID: EFFLUENT

Lab Sample ID: 190-26820-1

Date Collected: 09/08/21 13:58

Matrix: Water

Date Received: 09/10/21 08:00

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
d3-NMeFOSAA	58		25 - 150	09/19/21 20:16	09/20/21 16:51	1
M2-4:2 FTS	74		25 - 150	09/19/21 20:16	09/20/21 16:51	1
M2-6:2 FTS	101		25 - 150	09/19/21 20:16	09/20/21 16:51	1
M2-8:2 FTS	92		25 - 150	09/19/21 20:16	09/20/21 16:51	1
18O2 PFHxS	84		25 - 150	09/19/21 20:16	09/20/21 16:51	1

Client Sample Results

Client: City of Bronson
Project/Site: Bronson WWTP

Job ID: 190-26820-1

Client Sample ID: STORAGE DIGESTOR

Lab Sample ID: 190-26820-2

Date Collected: 09/08/21 13:50

Matrix: Solid

Date Received: 09/10/21 08:00

Percent Solids: 3.7

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
9CI-PF3ONS	<5.3		5.3	ug/Kg	✱	09/12/21 18:55	09/14/21 21:27	1
11CI-PF3OUdS	<5.3		5.3	ug/Kg	✱	09/12/21 18:55	09/14/21 21:27	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<5.3		5.3	ug/Kg	✱	09/12/21 18:55	09/14/21 21:27	1
4:2 FTS	<5.3		5.3	ug/Kg	✱	09/12/21 18:55	09/14/21 21:27	1
6:2 FTS	<5.3		5.3	ug/Kg	✱	09/12/21 18:55	09/14/21 21:27	1
8:2 FTS	5.5		5.3	ug/Kg	✱	09/12/21 18:55	09/14/21 21:27	1
HFPO-DA (GenX)	<5.3		5.3	ug/Kg	✱	09/12/21 18:55	09/14/21 21:27	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	12		5.3	ug/Kg	✱	09/12/21 18:55	09/14/21 21:27	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	20		5.3	ug/Kg	✱	09/12/21 18:55	09/14/21 21:27	1
Perfluorobutanesulfonic acid (PFBS)	9.1		5.3	ug/Kg	✱	09/12/21 18:55	09/14/21 21:27	1
Perfluorobutanoic acid (PFBA)	<5.3		5.3	ug/Kg	✱	09/12/21 18:55	09/14/21 21:27	1
Perfluorodecanesulfonic acid (PFDS)	28		5.3	ug/Kg	✱	09/12/21 18:55	09/14/21 21:27	1
Perfluorodecanoic acid (PFDA)	6.0		5.3	ug/Kg	✱	09/12/21 18:55	09/14/21 21:27	1
Perfluorododecanoic acid (PFDoA)	<5.3		5.3	ug/Kg	✱	09/12/21 18:55	09/14/21 21:27	1
Perfluoroheptanesulfonic Acid (PFHpS)	<5.3		5.3	ug/Kg	✱	09/12/21 18:55	09/14/21 21:27	1
Perfluoroheptanoic acid (PFHpA)	<5.3		5.3	ug/Kg	✱	09/12/21 18:55	09/14/21 21:27	1
Perfluorohexanesulfonic acid (PFHxS)	<5.3		5.3	ug/Kg	✱	09/12/21 18:55	09/14/21 21:27	1
Perfluorohexanoic acid (PFHxA)	<5.3		5.3	ug/Kg	✱	09/12/21 18:55	09/14/21 21:27	1
Perfluorononanesulfonic acid (PFNS)	<5.3		5.3	ug/Kg	✱	09/12/21 18:55	09/14/21 21:27	1
Perfluorononanoic acid (PFNA)	<5.3		5.3	ug/Kg	✱	09/12/21 18:55	09/14/21 21:27	1
Perfluorooctanesulfonamide (FOSA)	<5.3		5.3	ug/Kg	✱	09/12/21 18:55	09/14/21 21:27	1
Perfluorooctanesulfonic acid (PFOS)	120		5.3	ug/Kg	✱	09/12/21 18:55	09/14/21 21:27	1
Perfluorooctanoic acid (PFOA)	<5.3		5.3	ug/Kg	✱	09/12/21 18:55	09/14/21 21:27	1
Perfluoropentanesulfonic acid (PFPeS)	<5.3		5.3	ug/Kg	✱	09/12/21 18:55	09/14/21 21:27	1
Perfluoropentanoic acid (PFPeA)	<5.3		5.3	ug/Kg	✱	09/12/21 18:55	09/14/21 21:27	1
Perfluorotetradecanoic acid (PFTeA)	<5.3		5.3	ug/Kg	✱	09/12/21 18:55	09/14/21 21:27	1
Perfluorotridecanoic acid (PFTrIA)	<5.3		5.3	ug/Kg	✱	09/12/21 18:55	09/14/21 21:27	1
Perfluoroundecanoic acid (PFUnA)	<5.3		5.3	ug/Kg	✱	09/12/21 18:55	09/14/21 21:27	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 FOSA	66		25 - 150	09/12/21 18:55	09/14/21 21:27	1
13C3 HFPO-DA	66		25 - 150	09/12/21 18:55	09/14/21 21:27	1
13C4 PFBA	33		25 - 150	09/12/21 18:55	09/14/21 21:27	1
13C3 PFBS	53		25 - 150	09/12/21 18:55	09/14/21 21:27	1
13C2 PFDA	62		25 - 150	09/12/21 18:55	09/14/21 21:27	1
13C2 PFDoA	51		25 - 150	09/12/21 18:55	09/14/21 21:27	1
13C4 PFHpA	66		25 - 150	09/12/21 18:55	09/14/21 21:27	1
13C2 PFHxA	66		25 - 150	09/12/21 18:55	09/14/21 21:27	1
13C5 PFNA	64		25 - 150	09/12/21 18:55	09/14/21 21:27	1
13C4 PFOA	62		25 - 150	09/12/21 18:55	09/14/21 21:27	1
13C4 PFOS	58		25 - 150	09/12/21 18:55	09/14/21 21:27	1
13C5 PFPeA	64		25 - 150	09/12/21 18:55	09/14/21 21:27	1
13C2 PFTeDA	50		25 - 150	09/12/21 18:55	09/14/21 21:27	1
13C2 PFUnA	62		25 - 150	09/12/21 18:55	09/14/21 21:27	1

Eurofins TestAmerica, Michigan

Client Sample Results

Client: City of Bronson
Project/Site: Bronson WWTP

Job ID: 190-26820-1

Client Sample ID: STORAGE DIGESTOR

Lab Sample ID: 190-26820-2

Date Collected: 09/08/21 13:50

Matrix: Solid

Date Received: 09/10/21 08:00

Percent Solids: 3.7

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
d5-NEtFOSAA	51		25 - 150	09/12/21 18:55	09/14/21 21:27	1
d3-NMeFOSAA	49		25 - 150	09/12/21 18:55	09/14/21 21:27	1
M2-4:2 FTS	72		25 - 150	09/12/21 18:55	09/14/21 21:27	1
M2-6:2 FTS	85		25 - 150	09/12/21 18:55	09/14/21 21:27	1
M2-8:2 FTS	102		25 - 150	09/12/21 18:55	09/14/21 21:27	1
18O2 PFHxS	61		25 - 150	09/12/21 18:55	09/14/21 21:27	1

General Chemistry

<i>Analyte</i>	<i>Result</i>	<i>Qualifier</i>	<i>RL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
Percent Moisture	96.3		0.1	%			09/15/21 16:42	1
Percent Solids	3.7		0.1	%			09/15/21 16:42	1

Isotope Dilution Summary

Client: City of Bronson
Project/Site: Bronson WWTP

Job ID: 190-26820-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Solid

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFOSA (25-150)	HFPODA (25-150)	PFBA (25-150)	C3PFBS (25-150)	PFDA (25-150)	PFDoA (25-150)	C4PFHA (25-150)	PFHxA (25-150)
190-26820-2	STORAGE DIGESTOR	66	66	33	53	62	51	66	66
LCS 320-524479/2-A	Lab Control Sample	69	68	59	55	64	62	70	62
MB 320-524479/1-A	Method Blank	65	66	60	50	64	56	68	64

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFNA (25-150)	PFOA (25-150)	PFOS (25-150)	PFPeA (25-150)	PFTDA (25-150)	PFUnA (25-150)	d5NEFOS (25-150)	d3NMFOS (25-150)
190-26820-2	STORAGE DIGESTOR	64	62	58	64	50	62	51	49
LCS 320-524479/2-A	Lab Control Sample	69	65	59	65	59	62	62	63
MB 320-524479/1-A	Method Blank	65	63	59	61	58	57	61	61

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	M242FTS (25-150)	M262FTS (25-150)	M282FTS (25-150)	PFHxS (25-150)
190-26820-2	STORAGE DIGESTOR	72	85	102	61
LCS 320-524479/2-A	Lab Control Sample	72	78	78	65
MB 320-524479/1-A	Method Blank	72	75	78	61

Surrogate Legend

PFOSA = 13C8 FOSA
HFPODA = 13C3 HFPO-DA
PFBA = 13C4 PFBA
C3PFBS = 13C3 PFBS
PFDA = 13C2 PFDA
PFDoA = 13C2 PFDoA
C4PFHA = 13C4 PFHpA
PFHxA = 13C2 PFHxA
PFNA = 13C5 PFNA
PFOA = 13C4 PFOA
PFOS = 13C4 PFOS
PFPeA = 13C5 PFPeA
PFTDA = 13C2 PFTeDA
PFUnA = 13C2 PFUnA
d5NEFOS = d5-NEtFOSAA
d3NMFOS = d3-NMeFOSAA
M242FTS = M2-4:2 FTS
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS
PFHxS = 18O2 PFHxS

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFOSA (25-150)	HFPODA (25-150)	PFBA (25-150)	C3PFBS (25-150)	PFDA (25-150)	PFDoA (25-150)	C4PFHA (25-150)	PFHxA (25-150)
190-26820-1	EFFLUENT	79	74	77	58	79	61	78	67
LCS 320-526555/2-A	Lab Control Sample	72	79	94	59	87	85	81	73
LCSD 320-526555/3-A	Lab Control Sample Dup	75	85	98	61	87	83	81	82
MB 320-526555/1-A	Method Blank	75	76	89	57	82	84	87	73

Eurofins TestAmerica, Michigan

Isotope Dilution Summary

Client: City of Bronson
Project/Site: Bronson WWTP

Job ID: 190-26820-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFNA (25-150)	PFOA (25-150)	PFOS (25-150)	PFPeA (25-150)	PFTDA (25-150)	PFUnA (25-150)	d5NEFOS (25-150)	d3NMFOS (25-150)
190-26820-1	EFFLUENT	93	92	79	87	70	63	62	58
LCS 320-526555/2-A	Lab Control Sample	90	87	77	89	90	79	79	80
LCSD 320-526555/3-A	Lab Control Sample Dup	90	88	80	91	85	82	81	81
MB 320-526555/1-A	Method Blank	88	84	73	84	87	75	85	83

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	M242FTS (25-150)	M262FTS (25-150)	M282FTS (25-150)	PFHxS (25-150)
190-26820-1	EFFLUENT	74	101	92	84
LCS 320-526555/2-A	Lab Control Sample	70	103	90	82
LCSD 320-526555/3-A	Lab Control Sample Dup	78	98	96	86
MB 320-526555/1-A	Method Blank	70	100	99	82

Surrogate Legend

PFOSA = 13C8 FOSA
HFPODA = 13C3 HFPO-DA
PFBA = 13C4 PFBA
C3PFBS = 13C3 PFBS
PFDA = 13C2 PFDA
PFDoA = 13C2 PFDoA
C4PFHA = 13C4 PFHpA
PFHxA = 13C2 PFHxA
PFNA = 13C5 PFNA
PFOA = 13C4 PFOA
PFOS = 13C4 PFOS
PFPeA = 13C5 PFPeA
PFTDA = 13C2 PFTeDA
PFUnA = 13C2 PFUnA
d5NEFOS = d5-NEtFOSAA
d3NMFOS = d3-NMeFOSAA
M242FTS = M2-4:2 FTS
M262FTS = M2-6:2 FTS
M282FTS = M2-8:2 FTS
PFHxS = 18O2 PFHxS

QC Sample Results

Client: City of Bronson
Project/Site: Bronson WWTP

Job ID: 190-26820-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 320-524479/1-A

Matrix: Solid

Analysis Batch: 525000

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 524479

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
9CI-PF3ONS	<0.20		0.20	ug/Kg		09/12/21 18:55	09/14/21 19:47	1
11CI-PF3OUdS	<0.20		0.20	ug/Kg		09/12/21 18:55	09/14/21 19:47	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<0.20		0.20	ug/Kg		09/12/21 18:55	09/14/21 19:47	1
4:2 FTS	<0.20		0.20	ug/Kg		09/12/21 18:55	09/14/21 19:47	1
6:2 FTS	<0.20		0.20	ug/Kg		09/12/21 18:55	09/14/21 19:47	1
8:2 FTS	<0.20		0.20	ug/Kg		09/12/21 18:55	09/14/21 19:47	1
HFPO-DA (GenX)	<0.20		0.20	ug/Kg		09/12/21 18:55	09/14/21 19:47	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<0.20		0.20	ug/Kg		09/12/21 18:55	09/14/21 19:47	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<0.20		0.20	ug/Kg		09/12/21 18:55	09/14/21 19:47	1
Perfluorobutanesulfonic acid (PFBS)	<0.20		0.20	ug/Kg		09/12/21 18:55	09/14/21 19:47	1
Perfluorobutanoic acid (PFBA)	<0.20		0.20	ug/Kg		09/12/21 18:55	09/14/21 19:47	1
Perfluorodecanesulfonic acid (PFDS)	<0.20		0.20	ug/Kg		09/12/21 18:55	09/14/21 19:47	1
Perfluorodecanoic acid (PFDA)	<0.20		0.20	ug/Kg		09/12/21 18:55	09/14/21 19:47	1
Perfluorododecanoic acid (PFDoA)	<0.20		0.20	ug/Kg		09/12/21 18:55	09/14/21 19:47	1
Perfluoroheptanesulfonic Acid (PFHpS)	<0.20		0.20	ug/Kg		09/12/21 18:55	09/14/21 19:47	1
Perfluoroheptanoic acid (PFHpA)	<0.20		0.20	ug/Kg		09/12/21 18:55	09/14/21 19:47	1
Perfluorohexanesulfonic acid (PFHxS)	<0.20		0.20	ug/Kg		09/12/21 18:55	09/14/21 19:47	1
Perfluorohexanoic acid (PFHxA)	<0.20		0.20	ug/Kg		09/12/21 18:55	09/14/21 19:47	1
Perfluorononanesulfonic acid (PFNS)	<0.20		0.20	ug/Kg		09/12/21 18:55	09/14/21 19:47	1
Perfluorononanoic acid (PFNA)	<0.20		0.20	ug/Kg		09/12/21 18:55	09/14/21 19:47	1
Perfluorooctanesulfonamide (FOSA)	<0.20		0.20	ug/Kg		09/12/21 18:55	09/14/21 19:47	1
Perfluorooctanesulfonic acid (PFOS)	<0.20		0.20	ug/Kg		09/12/21 18:55	09/14/21 19:47	1
Perfluorooctanoic acid (PFOA)	<0.20		0.20	ug/Kg		09/12/21 18:55	09/14/21 19:47	1
Perfluoropentanesulfonic acid (PFPeS)	<0.20		0.20	ug/Kg		09/12/21 18:55	09/14/21 19:47	1
Perfluoropentanoic acid (PFPeA)	<0.20		0.20	ug/Kg		09/12/21 18:55	09/14/21 19:47	1
Perfluorotetradecanoic acid (PFTeA)	<0.20		0.20	ug/Kg		09/12/21 18:55	09/14/21 19:47	1
Perfluorotridecanoic acid (PFTriA)	<0.20		0.20	ug/Kg		09/12/21 18:55	09/14/21 19:47	1
Perfluoroundecanoic acid (PFUnA)	<0.20		0.20	ug/Kg		09/12/21 18:55	09/14/21 19:47	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 FOSA	65		25 - 150	09/12/21 18:55	09/14/21 19:47	1
13C3 HFPO-DA	66		25 - 150	09/12/21 18:55	09/14/21 19:47	1
13C4 PFBA	60		25 - 150	09/12/21 18:55	09/14/21 19:47	1
13C3 PFBS	50		25 - 150	09/12/21 18:55	09/14/21 19:47	1
13C2 PFDA	64		25 - 150	09/12/21 18:55	09/14/21 19:47	1
13C2 PFDoA	56		25 - 150	09/12/21 18:55	09/14/21 19:47	1
13C4 PFHpA	68		25 - 150	09/12/21 18:55	09/14/21 19:47	1
13C2 PFHxA	64		25 - 150	09/12/21 18:55	09/14/21 19:47	1
13C5 PFNA	65		25 - 150	09/12/21 18:55	09/14/21 19:47	1
13C4 PFOA	63		25 - 150	09/12/21 18:55	09/14/21 19:47	1
13C4 PFOS	59		25 - 150	09/12/21 18:55	09/14/21 19:47	1
13C5 PFPeA	61		25 - 150	09/12/21 18:55	09/14/21 19:47	1
13C2 PFTeA	58		25 - 150	09/12/21 18:55	09/14/21 19:47	1
13C2 PFUnA	57		25 - 150	09/12/21 18:55	09/14/21 19:47	1
d5-NEtFOSAA	61		25 - 150	09/12/21 18:55	09/14/21 19:47	1

Eurofins TestAmerica, Michigan

QC Sample Results

Client: City of Bronson
Project/Site: Bronson WWTP

Job ID: 190-26820-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: MB 320-524479/1-A

Matrix: Solid

Analysis Batch: 525000

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 524479

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
d3-NMeFOSAA	61		25 - 150	09/12/21 18:55	09/14/21 19:47	1
M2-4:2 FTS	72		25 - 150	09/12/21 18:55	09/14/21 19:47	1
M2-6:2 FTS	75		25 - 150	09/12/21 18:55	09/14/21 19:47	1
M2-8:2 FTS	78		25 - 150	09/12/21 18:55	09/14/21 19:47	1
18O2 PFHxS	61		25 - 150	09/12/21 18:55	09/14/21 19:47	1

Lab Sample ID: LCS 320-524479/2-A

Matrix: Solid

Analysis Batch: 525000

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 524479

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
9CI-PF3ONS	1.86	1.96		ug/Kg		105	74 - 134
11CI-PF3OUdS	1.88	1.92		ug/Kg		102	66 - 136
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.88	2.19		ug/Kg		116	79 - 139
4:2 FTS	1.87	1.81		ug/Kg		97	68 - 143
6:2 FTS	1.90	1.84		ug/Kg		97	73 - 139
8:2 FTS	1.92	1.79		ug/Kg		94	75 - 135
HFPO-DA (GenX)	2.00	2.05		ug/Kg		103	53 - 158
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2.00	1.96		ug/Kg		98	72 - 132
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	2.00	1.95		ug/Kg		98	72 - 132
Perfluorobutanesulfonic acid (PFBS)	1.77	2.02		ug/Kg		114	69 - 129
Perfluorobutanoic acid (PFBA)	2.00	2.13		ug/Kg		107	76 - 136
Perfluorodecanesulfonic acid (PFDS)	1.93	1.90		ug/Kg		98	71 - 131
Perfluorodecanoic acid (PFDA)	2.00	1.88		ug/Kg		94	72 - 132
Perfluorododecanoic acid (PFDoA)	2.00	1.94		ug/Kg		97	71 - 131
Perfluoroheptanesulfonic Acid (PFHpS)	1.90	1.99		ug/Kg		105	76 - 136
Perfluoroheptanoic acid (PFHpA)	2.00	1.89		ug/Kg		94	71 - 131
Perfluorohexanesulfonic acid (PFHxS)	1.82	1.73		ug/Kg		95	62 - 122
Perfluorohexanoic acid (PFHxA)	2.00	1.96		ug/Kg		98	71 - 131
Perfluorononanesulfonic acid (PFNS)	1.92	1.97		ug/Kg		103	72 - 132
Perfluorononanoic acid (PFNA)	2.00	2.04		ug/Kg		102	73 - 133
Perfluorooctanesulfonamide (FOSA)	2.00	1.92		ug/Kg		96	77 - 137
Perfluorooctanesulfonic acid (PFOS)	1.86	2.02		ug/Kg		109	68 - 141
Perfluorooctanoic acid (PFOA)	2.00	2.19		ug/Kg		110	72 - 132
Perfluoropentanesulfonic acid (PFPeS)	1.88	2.28		ug/Kg		122	66 - 126
Perfluoropentanoic acid (PFPeA)	2.00	1.82		ug/Kg		91	69 - 129
Perfluorotetradecanoic acid (PFTeA)	2.00	2.28		ug/Kg		114	67 - 127
Perfluorotridecanoic acid (PFTriA)	2.00	2.03		ug/Kg		101	71 - 131

Eurofins TestAmerica, Michigan

QC Sample Results

Client: City of Bronson
Project/Site: Bronson WWTP

Job ID: 190-26820-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCS 320-524479/2-A

Matrix: Solid

Analysis Batch: 525000

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 524479

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluoroundecanoic acid (PFUnA)	2.00	1.95		ug/Kg		97	66 - 126
	LCS	LCS					
Isotope Dilution	%Recovery	Qualifier	Limits				
13C8 FOSA	69		25 - 150				
13C3 HFPO-DA	68		25 - 150				
13C4 PFBA	59		25 - 150				
13C3 PFBS	55		25 - 150				
13C2 PFDA	64		25 - 150				
13C2 PFDa	62		25 - 150				
13C4 PFHpA	70		25 - 150				
13C2 PFHxA	62		25 - 150				
13C5 PFNA	69		25 - 150				
13C4 PFOA	65		25 - 150				
13C4 PFOS	59		25 - 150				
13C5 PFPeA	65		25 - 150				
13C2 PFTeDA	59		25 - 150				
13C2 PFUnA	62		25 - 150				
d5-NEtFOSAA	62		25 - 150				
d3-NMeFOSAA	63		25 - 150				
M2-4:2 FTS	72		25 - 150				
M2-6:2 FTS	78		25 - 150				
M2-8:2 FTS	78		25 - 150				
18O2 PFHxS	65		25 - 150				

Lab Sample ID: MB 320-526555/1-A

Matrix: Water

Analysis Batch: 526689

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 526555

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
9CI-PF3ONS	<2.0		2.0	ng/L		09/19/21 12:13	09/20/21 12:46	1
11CI-PF3OUdS	<2.0		2.0	ng/L		09/19/21 12:13	09/20/21 12:46	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<2.0		2.0	ng/L		09/19/21 12:13	09/20/21 12:46	1
4:2 FTS	<2.0		2.0	ng/L		09/19/21 12:13	09/20/21 12:46	1
6:2 FTS	<5.0		5.0	ng/L		09/19/21 12:13	09/20/21 12:46	1
8:2 FTS	<2.0		2.0	ng/L		09/19/21 12:13	09/20/21 12:46	1
HFPO-DA (GenX)	<4.0		4.0	ng/L		09/19/21 12:13	09/20/21 12:46	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	<5.0		5.0	ng/L		09/19/21 12:13	09/20/21 12:46	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	<5.0		5.0	ng/L		09/19/21 12:13	09/20/21 12:46	1
Perfluorobutanesulfonic acid (PFBS)	<2.0		2.0	ng/L		09/19/21 12:13	09/20/21 12:46	1
Perfluorobutanoic acid (PFBA)	<5.0		5.0	ng/L		09/19/21 12:13	09/20/21 12:46	1
Perfluorodecanesulfonic acid (PFDS)	<2.0		2.0	ng/L		09/19/21 12:13	09/20/21 12:46	1
Perfluorodecanoic acid (PFDA)	<2.0		2.0	ng/L		09/19/21 12:13	09/20/21 12:46	1
Perfluorododecanoic acid (PFDa)	<2.0		2.0	ng/L		09/19/21 12:13	09/20/21 12:46	1
Perfluoroheptanesulfonic Acid (PFHpS)	<2.0		2.0	ng/L		09/19/21 12:13	09/20/21 12:46	1
Perfluoroheptanoic acid (PFHpA)	<2.0		2.0	ng/L		09/19/21 12:13	09/20/21 12:46	1

Eurofins TestAmerica, Michigan

QC Sample Results

Client: City of Bronson
Project/Site: Bronson WWTP

Job ID: 190-26820-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: MB 320-526555/1-A

Matrix: Water

Analysis Batch: 526689

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 526555

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanesulfonic acid (PFHxS)	<2.0		2.0	ng/L		09/19/21 12:13	09/20/21 12:46	1
Perfluorohexanoic acid (PFHxA)	<2.0		2.0	ng/L		09/19/21 12:13	09/20/21 12:46	1
Perfluorononanesulfonic acid (PFNS)	<2.0		2.0	ng/L		09/19/21 12:13	09/20/21 12:46	1
Perfluorononanoic acid (PFNA)	<2.0		2.0	ng/L		09/19/21 12:13	09/20/21 12:46	1
Perfluorooctanesulfonamide (FOSA)	<2.0		2.0	ng/L		09/19/21 12:13	09/20/21 12:46	1
Perfluorooctanesulfonic acid (PFOS)	<2.0		2.0	ng/L		09/19/21 12:13	09/20/21 12:46	1
Perfluorooctanoic acid (PFOA)	<2.0		2.0	ng/L		09/19/21 12:13	09/20/21 12:46	1
Perfluoropentanesulfonic acid (PFPeS)	<2.0		2.0	ng/L		09/19/21 12:13	09/20/21 12:46	1
Perfluoropentanoic acid (PFPeA)	<2.0		2.0	ng/L		09/19/21 12:13	09/20/21 12:46	1
Perfluorotetradecanoic acid (PFTeA)	<2.0		2.0	ng/L		09/19/21 12:13	09/20/21 12:46	1
Perfluorotridecanoic acid (PFTriA)	<2.0		2.0	ng/L		09/19/21 12:13	09/20/21 12:46	1
Perfluoroundecanoic acid (PFUnA)	<2.0		2.0	ng/L		09/19/21 12:13	09/20/21 12:46	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C8 FOSA	75		25 - 150	09/19/21 12:13	09/20/21 12:46	1
13C3 HFPO-DA	76		25 - 150	09/19/21 12:13	09/20/21 12:46	1
13C4 PFBA	89		25 - 150	09/19/21 12:13	09/20/21 12:46	1
13C3 PFBS	57		25 - 150	09/19/21 12:13	09/20/21 12:46	1
13C2 PFDA	82		25 - 150	09/19/21 12:13	09/20/21 12:46	1
13C2 PFDoA	84		25 - 150	09/19/21 12:13	09/20/21 12:46	1
13C4 PFHpA	87		25 - 150	09/19/21 12:13	09/20/21 12:46	1
13C2 PFHxA	73		25 - 150	09/19/21 12:13	09/20/21 12:46	1
13C5 PFNA	88		25 - 150	09/19/21 12:13	09/20/21 12:46	1
13C4 PFOA	84		25 - 150	09/19/21 12:13	09/20/21 12:46	1
13C4 PFOS	73		25 - 150	09/19/21 12:13	09/20/21 12:46	1
13C5 PFPeA	84		25 - 150	09/19/21 12:13	09/20/21 12:46	1
13C2 PFTeDA	87		25 - 150	09/19/21 12:13	09/20/21 12:46	1
13C2 PFUnA	75		25 - 150	09/19/21 12:13	09/20/21 12:46	1
d5-NEtFOSAA	85		25 - 150	09/19/21 12:13	09/20/21 12:46	1
d3-NMeFOSAA	83		25 - 150	09/19/21 12:13	09/20/21 12:46	1
M2-4:2 FTS	70		25 - 150	09/19/21 12:13	09/20/21 12:46	1
M2-6:2 FTS	100		25 - 150	09/19/21 12:13	09/20/21 12:46	1
M2-8:2 FTS	99		25 - 150	09/19/21 12:13	09/20/21 12:46	1
18O2 PFHxS	82		25 - 150	09/19/21 12:13	09/20/21 12:46	1

Lab Sample ID: LCS 320-526555/2-A

Matrix: Water

Analysis Batch: 526689

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 526555

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
9CI-PF3ONS	37.3	38.3		ng/L		103	75 - 135
11CI-PF3OUdS	37.7	42.8		ng/L		114	54 - 114
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.7	42.5		ng/L		113	79 - 139
4:2 FTS	37.4	36.6		ng/L		98	79 - 139
6:2 FTS	37.9	39.7		ng/L		105	59 - 175
8:2 FTS	38.3	42.0		ng/L		110	75 - 135
HFPO-DA (GenX)	40.0	41.0		ng/L		102	51 - 173

Eurofins TestAmerica, Michigan

QC Sample Results

Client: City of Bronson
Project/Site: Bronson WWTP

Job ID: 190-26820-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCS 320-526555/2-A

Matrix: Water

Analysis Batch: 526689

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 526555

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	41.2		ng/L		103	76 - 136
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	44.8		ng/L		112	76 - 136
Perfluorobutanesulfonic acid (PFBS)	35.4	40.0		ng/L		113	67 - 127
Perfluorobutanoic acid (PFBA)	40.0	38.9		ng/L		97	76 - 136
Perfluorodecanesulfonic acid (PFDS)	38.6	36.8		ng/L		95	71 - 131
Perfluorodecanoic acid (PFDA)	40.0	39.2		ng/L		98	76 - 136
Perfluorododecanoic acid (PFDoA)	40.0	40.0		ng/L		100	71 - 131
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	43.3		ng/L		114	76 - 136
Perfluoroheptanoic acid (PFHpA)	40.0	39.0		ng/L		98	72 - 132
Perfluorohexanesulfonic acid (PFHxS)	36.4	33.2		ng/L		91	59 - 119
Perfluorohexanoic acid (PFHxA)	40.0	36.1		ng/L		90	73 - 133
Perfluorononanesulfonic acid (PFNS)	38.4	37.8		ng/L		98	75 - 135
Perfluorononanoic acid (PFNA)	40.0	40.1		ng/L		100	75 - 135
Perfluorooctanesulfonamide (FOSA)	40.0	42.4		ng/L		106	73 - 133
Perfluorooctanesulfonic acid (PFOS)	37.1	40.2		ng/L		108	70 - 130
Perfluorooctanoic acid (PFOA)	40.0	41.7		ng/L		104	70 - 130
Perfluoropentanesulfonic acid (PFPeS)	37.5	44.5		ng/L		119	66 - 126
Perfluoropentanoic acid (PFPeA)	40.0	37.3		ng/L		93	71 - 131
Perfluorotetradecanoic acid (PFTeA)	40.0	40.7		ng/L		102	70 - 130
Perfluorotridecanoic acid (PFTriA)	40.0	41.6		ng/L		104	71 - 131
Perfluoroundecanoic acid (PFUnA)	40.0	39.6		ng/L		99	68 - 128

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
13C8 FOSA	72		25 - 150
13C3 HFPO-DA	79		25 - 150
13C4 PFBA	94		25 - 150
13C3 PFBS	59		25 - 150
13C2 PFDA	87		25 - 150
13C2 PFDoA	85		25 - 150
13C4 PFHpA	81		25 - 150
13C2 PFHxA	73		25 - 150
13C5 PFNA	90		25 - 150
13C4 PFOA	87		25 - 150
13C4 PFOS	77		25 - 150
13C5 PFPeA	89		25 - 150
13C2 PFTeDA	90		25 - 150
13C2 PFUnA	79		25 - 150
d5-NEtFOSAA	79		25 - 150

Eurofins TestAmerica, Michigan

QC Sample Results

Client: City of Bronson
Project/Site: Bronson WWTP

Job ID: 190-26820-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCS 320-526555/2-A

Matrix: Water

Analysis Batch: 526689

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 526555

Isotope Dilution	LCS		Limits
	%Recovery	Qualifier	
d3-NMeFOSAA	80		25 - 150
M2-4:2 FTS	70		25 - 150
M2-6:2 FTS	103		25 - 150
M2-8:2 FTS	90		25 - 150
18O2 PFHxS	82		25 - 150

Lab Sample ID: LCSD 320-526555/3-A

Matrix: Water

Analysis Batch: 526689

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 526555

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
							Limits	RPD		
9CI-PF3ONS	37.3	37.8		ng/L		101	75 - 135	1		30
11CI-PF3OUdS	37.7	40.2		ng/L		107	54 - 114	6		30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	37.7	43.3		ng/L		115	79 - 139	2		30
4:2 FTS	37.4	34.8		ng/L		93	79 - 139	5		30
6:2 FTS	37.9	43.5		ng/L		115	59 - 175	9		30
8:2 FTS	38.3	40.1		ng/L		105	75 - 135	5		30
HFPO-DA (GenX)	40.0	33.5		ng/L		84	51 - 173	20		30
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	37.9		ng/L		95	76 - 136	9		30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	46.6		ng/L		116	76 - 136	4		30
Perfluorobutanesulfonic acid (PFBS)	35.4	39.5		ng/L		112	67 - 127	1		30
Perfluorobutanoic acid (PFBA)	40.0	39.3		ng/L		98	76 - 136	1		30
Perfluorodecanesulfonic acid (PFDS)	38.6	35.0		ng/L		91	71 - 131	5		30
Perfluorodecanoic acid (PFDA)	40.0	40.1		ng/L		100	76 - 136	2		30
Perfluorododecanoic acid (PFDoA)	40.0	38.9		ng/L		97	71 - 131	3		30
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	42.6		ng/L		112	76 - 136	2		30
Perfluoroheptanoic acid (PFHpA)	40.0	41.2		ng/L		103	72 - 132	5		30
Perfluorohexanesulfonic acid (PFHxS)	36.4	33.0		ng/L		91	59 - 119	1		30
Perfluorohexanoic acid (PFHxA)	40.0	35.4		ng/L		88	73 - 133	2		30
Perfluorononanesulfonic acid (PFNS)	38.4	39.1		ng/L		102	75 - 135	3		30
Perfluorononanoic acid (PFNA)	40.0	42.5		ng/L		106	75 - 135	6		30
Perfluorooctanesulfonamide (FOSA)	40.0	39.8		ng/L		100	73 - 133	6		30
Perfluorooctanesulfonic acid (PFOS)	37.1	40.6		ng/L		109	70 - 130	1		30
Perfluorooctanoic acid (PFOA)	40.0	43.6		ng/L		109	70 - 130	5		30
Perfluoropentanesulfonic acid (PFPeS)	37.5	43.3		ng/L		115	66 - 126	3		30
Perfluoropentanoic acid (PFPeA)	40.0	37.9		ng/L		95	71 - 131	2		30
Perfluorotetradecanoic acid (PFTeA)	40.0	41.7		ng/L		104	70 - 130	2		30
Perfluorotridecanoic acid (PFTriA)	40.0	43.9		ng/L		110	71 - 131	5		30

Eurofins TestAmerica, Michigan

QC Sample Results

Client: City of Bronson
Project/Site: Bronson WWTP

Job ID: 190-26820-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCSD 320-526555/3-A

Matrix: Water

Analysis Batch: 526689

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 526555

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluoroundecanoic acid (PFUnA)	40.0	39.9		ng/L		100	68 - 128	1	30
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>						
13C8 FOSA	75		25 - 150						
13C3 HFPO-DA	85		25 - 150						
13C4 PFBA	98		25 - 150						
13C3 PFBS	61		25 - 150						
13C2 PFDA	87		25 - 150						
13C2 PFDaA	83		25 - 150						
13C4 PFHpA	81		25 - 150						
13C2 PFHxA	82		25 - 150						
13C5 PFNA	90		25 - 150						
13C4 PFOA	88		25 - 150						
13C4 PFOS	80		25 - 150						
13C5 PFPeA	91		25 - 150						
13C2 PFTeDA	85		25 - 150						
13C2 PFUnA	82		25 - 150						
d5-NEtFOSAA	81		25 - 150						
d3-NMeFOSAA	81		25 - 150						
M2-4:2 FTS	78		25 - 150						
M2-6:2 FTS	98		25 - 150						
M2-8:2 FTS	96		25 - 150						
18O2 PFHxS	86		25 - 150						

QC Association Summary

Client: City of Bronson
Project/Site: Bronson WWTP

Job ID: 190-26820-1

LCMS

Prep Batch: 524479

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
190-26820-2	STORAGE DIGESTOR	Total/NA	Solid	SHAKE	
MB 320-524479/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 320-524479/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 525000

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
190-26820-2	STORAGE DIGESTOR	Total/NA	Solid	537 (modified)	524479
MB 320-524479/1-A	Method Blank	Total/NA	Solid	537 (modified)	524479
LCS 320-524479/2-A	Lab Control Sample	Total/NA	Solid	537 (modified)	524479

Prep Batch: 526555

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
190-26820-1	EFFLUENT	Total/NA	Water	3535	
MB 320-526555/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-526555/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-526555/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Analysis Batch: 526689

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 320-526555/1-A	Method Blank	Total/NA	Water	537 (modified)	526555
LCS 320-526555/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	526555
LCSD 320-526555/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	526555

Analysis Batch: 526720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
190-26820-1	EFFLUENT	Total/NA	Water	537 (modified)	526555

General Chemistry

Analysis Batch: 525414

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
190-26820-2	STORAGE DIGESTOR	Total/NA	Solid	D 2216	

Lab Chronicle

Client: City of Bronson
Project/Site: Bronson WWTP

Job ID: 190-26820-1

Client Sample ID: EFFLUENT

Date Collected: 09/08/21 13:58

Date Received: 09/10/21 08:00

Lab Sample ID: 190-26820-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			526555	09/19/21 20:16	PV	TAL SAC
Total/NA	Analysis	537 (modified)		1	526720	09/20/21 16:51	AEC	TAL SAC

Client Sample ID: STORAGE DIGESTOR

Date Collected: 09/08/21 13:50

Date Received: 09/10/21 08:00

Lab Sample ID: 190-26820-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	D 2216		1	525414	09/15/21 16:42	TCS	TAL SAC

Client Sample ID: STORAGE DIGESTOR

Date Collected: 09/08/21 13:50

Date Received: 09/10/21 08:00

Lab Sample ID: 190-26820-2

Matrix: Solid

Percent Solids: 3.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			524479	09/12/21 18:55	AM	TAL SAC
Total/NA	Analysis	537 (modified)		1	525000	09/14/21 21:27	RS1	TAL SAC

Laboratory References:

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Analyst References:

Lab: TAL SAC

Batch Type: Prep

AM = Andrew Martin

PV = Pheng Vue

Batch Type: Analysis

AEC = Erika Contreras

RS1 = Rungtip Sanjumnai

TCS = Tammy Saechao

Definitions/Glossary

Client: City of Bronson
Project/Site: Bronson WWTP

Job ID: 190-26820-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Accreditation/Certification Summary

Client: City of Bronson
Project/Site: Bronson WWTP

Job ID: 190-26820-1

Laboratory: Eurofins TestAmerica, Sacramento

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	17-020	02-20-24
ANAB	Dept. of Defense ELAP	L2468	01-20-24
ANAB	Dept. of Energy	L2468.01	01-20-24
ANAB	ISO/IEC 17025	L2468	01-20-24
Arizona	State	AZ0708	08-11-22
Arkansas DEQ	State	88-0691	06-17-21 *
California	State	2897	01-31-22
Colorado	State	CA0004	08-31-21 *
Florida	NELAP	E87570	06-30-22
Georgia	State	4040	01-29-22
Hawaii	State	<cert No.>	01-29-22
Illinois	NELAP	200060	03-18-22
Kansas	NELAP	E-10375	10-31-21
Louisiana	NELAP	01944	06-30-22
Maine	State	CA00004	04-14-22
Michigan	State	9947	01-29-22
Nevada	State	CA00044	08-31-22
New Hampshire	NELAP	2997	04-18-22
New Jersey	NELAP	CA005	06-30-22
New York	NELAP	11666	04-01-22
Ohio	State	41252	01-29-22
Oregon	NELAP	4040	01-30-23
Texas	NELAP	T104704399-19-13	05-31-22
US Fish & Wildlife	US Federal Programs	58448	07-31-22
Utah	NELAP	CA000442021-12	03-01-22
Virginia	NELAP	460278	03-14-22
Washington	State	C581	05-05-22
West Virginia (DW)	State	9930C	12-31-21
Wisconsin	State	998204680	08-31-22
Wyoming	State Program	8TMS-L	01-28-19 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins TestAmerica, Michigan

Detection Summary

Client: City of Bronson
Project/Site: Bronson WWTP

Job ID: 190-26820-1

Client Sample ID: EFFLUENT

Lab Sample ID: 190-26820-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	33		1.6	ng/L	1		537 (modified)	Total/NA
Perfluorobutanoic acid (PFBA)	7.8		4.0	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	14		1.6	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	5.7		1.6	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	4.2		1.6	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	10		1.6	ng/L	1		537 (modified)	Total/NA

Client Sample ID: STORAGE DIGESTOR

Lab Sample ID: 190-26820-2

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
8:2 FTS	5.5		5.3	ug/Kg	1	✳	537 (modified)	Total/NA
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	12		5.3	ug/Kg	1	✳	537 (modified)	Total/NA
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	20		5.3	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	9.1		5.3	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorodecanesulfonic acid (PFDS)	28		5.3	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	6.0		5.3	ug/Kg	1	✳	537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	120		5.3	ug/Kg	1	✳	537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Michigan

Client Information		Sampler: LAyne Clark		Lab PM: Schafer, Sue		Carrier Tracking No(s):		COC No: 190-27258-1467.1	
Client Contact: Chuck Buckley		Phone:		E-Mail: Sue.Schafer@Eurofinset.com		State of Origin:		Page: Page 1 of 1	
City of Bronson		PWSID:		Analysis Requested		Job #:		Preservation Codes:	
Address: 141 S Matteson Street		Due Date Requested: ASAP		TAT Requested (days):		Compliance Project: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		A - HCL M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 X - EDTA Y - EDA Z - other (specify)	
Phone: 517-462-8380		PO #: 19001688		Purchase Order not required		WO #:		Other:	
Email: bronsont2@hotmail.com		Project #:		Field Filled Sample (Yes or No)		PFC_IDA - PFA, Standard List (24 Analytes)		PFC_IDA - (MOD) PFA, Standard List (24 Analytes)	
City of Bronson - PFA		SSOW#:		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)	
Site: BRONSON WWT		Matrix (W=water, S=solid, O=other)		Preservation Code: GR		Water		Water	
Sample Identification		Sample Date		Sample Time		Sample Type		Matrix	
EFFluent		9/8/21 1:58		1:58		GR		Water	
Storage Digestor		9/8/21 1:50		1:50		C		Solid	
Special Instructions/Note:		Total Number of Containers		Special Instructions/Note:		Project - 19001688		Ag - Water PFA, Standard List (24 Analytes)	
Special Instructions/Note:		Total Number of Containers		Special Instructions/Note:		Project - 19001688		Ag - Water PFA, Standard List (24 Analytes)	
Special Instructions/Note:		Total Number of Containers		Special Instructions/Note:		Project - 19001688		Ag - Water PFA, Standard List (24 Analytes)	
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Special Instructions/Note:		Total Number of Containers		Special Instructions/Note:		Project - 19001688		Ag - Water PFA, Standard List (24 Analytes)	
Special Instructions/Note:		Total Number of Containers		Special Instructions/Note:		Project - 19001688		Ag - Water PFA, Standard List (24 Analytes)	
Special Instructions/Note:		Total Number of Containers		Special Instructions/Note:		Project - 19001688		Ag - Water PFA, Standard List (24 Analytes)	
Special Instructions/Note:		Total Number of Containers		Special Instructions/Note:		Project - 19001688		Ag - Water PFA, Standard List (24 Analytes)	
Special Instructions/Note:		Total Number of Containers		Special Instructions/Note:					

PFCs Sampling Checklist

Date: 9/8/21

Weather (temp./precipitation): Sunny Site Name: BRONSON WINTA

Field Clothing and PPE:

- ☒ No clothing or boots containing Gore-Tex™
- ☒ All safety boots made from polyurethane and PVC
- ☒ No materials containing Tyvek®
- ☒ Field crew has not used fabric softener on clothing
- ☒ Field crew has not used cosmetics, moisturizers, hand cream, or other related products this morning
- ☒ Field crew has not applied unauthorized sunscreen or insect repellent

Field Equipment:

- ☒ No Teflon® or LDPE containing materials on-site
- ☒ All sample materials made from stainless steel, HDPE, acetate, silicon, or polypropylene
- ☒ No waterproof field books on-site
- ☒ No plastic clipboards, binders, or spiral hard cover notebooks on-site
- ☒ No adhesives (Post-It Notes) on-site

- ☒ Coolers filled with regular ice only. No chemical (blue) ice packs in possession

Sample Containers:

- ☒ All sample containers made of HDPE or polypropylene
- ☒ Caps are unlined and made of HDPE or polypropylene

Wet Weather (as applicable):

- ☐ Wet weather gear made of polyurethane and PVC only

Equipment Decontamination:

- ☐ "PFC-free" water on-site for decontamination of sample equipment. No other water sources to be used.
- ☐ Alconox and Liquinox to be used as decontamination materials

Food Considerations:

- ☐ No food or drink on-site with exception of bottled water and/or hydration drinks (i.e., Gatorade and Powerade) that is available for consumption only in the staging area

If any applicable boxes cannot be checked, the Field Lead shall describe the noncompliance issues below and work with field personnel to address noncompliance issues prior to commencement of that day's work. Corrective action shall include removal of noncompliance items from the site or removal of worker offsite until in compliance.

Describe the noncompliance issues (include personnel not in compliance) and action/outcome of noncompliance:

Field Lead Name: Chuck Buckley

Field Lead Signature: Chuck Buckley Time: 1:50

Eurofins TestAmerica Canton Sample Receipt Form/Narrative				Login # : 26820	
Canton Facility					
Client <u>City of Bronson</u>		Site Name _____		Cooler unpacked by: <u>Treiff</u>	
Cooler Received on <u>9/10/21</u>		Opened on <u>9/10/21</u>			
FedEx: 1 st Grd Exp		UPS FAS <u>Clipper</u>		Client Drop Off TestAmerica Courier Other	
Receipt After-hours: Drop-off Date/Time				Storage Location	
TestAmerica Cooler # <u>TA</u>		Foam Box		Client Cooler Box Other _____	
Packing material used: <u>Bubble Wrap</u>		Foam Plastic Bag		None Other _____	
COOLANT: <u>Wet Ice</u>		Blue Ice Dry Ice Water		None	
1. Cooler temperature upon receipt <input type="checkbox"/> See Multiple Cooler Form					
IR GUN# IR-11 (CF +0.1 °C)		Observed Cooler Temp. <u>1.8</u> °C		Corrected Cooler Temp. <u>1.9</u> °C	
IR GUN #IR-12 (CF +0.2 °C)		Observed Cooler Temp. _____ °C		Corrected Cooler Temp. _____ °C	
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity <u>1</u>				Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	
-Were the seals on the outside of the cooler(s) signed & dated?				Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> NA	
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?				Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> NA	
-Were tamper/custody seals intact and uncompromised?				Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> NA	
3. Shippers' packing slip attached to the cooler(s)?				Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	
4. Did custody papers accompany the sample(s)?				Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	
5. Were the custody papers relinquished & signed in the appropriate place?				Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	
6. Was/were the person(s) who collected the samples clearly identified on the COC?				Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	
7. Did all bottles arrive in good condition (Unbroken)?				Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC?				Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	
9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)?				Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	
10. Were correct bottle(s) used for the test(s) indicated?				Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	
11. Sufficient quantity received to perform indicated analyses?				Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	
12. Are these work share samples and all listed on the COC?				Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	
If yes, Questions 13-17 have been checked at the originating laboratory.					
13. Were all preserved sample(s) at the correct pH upon receipt?				Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> pH Strip Lot# <u>HC157842</u>	
14. Were VOAs on the COC?				Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	
15. Were air bubbles >6 mm in any VOA vials? Larger than this.				Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____				Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	
17. Was a LL Hg or Me Hg trip blank present? _____				Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	
Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____					
Concerning _____					

Tests that are not checked for pH by Receiving:

 VOAs
 Oil and Grease
 TOC

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES <input type="checkbox"/> additional next page		Samples processed by:	
19. SAMPLE CONDITION			
Sample(s) _____ were received after the recommended holding time had expired.			
Sample(s) _____ were received in a broken container.			
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)			
20. SAMPLE PRESERVATION			
Sample(s) _____ were further preserved in the laboratory.			
Time preserved: _____ Preservative(s) added/Lot number(s): _____			
VOA Sample Preservation - Date/Time VOAs Frozen: _____			