

PFAS**Submitted - Signed**

PWS ID #: 4122000

City/Town: HANOVER

PWS Name: HANOVER WATER DEPT

PWS Class: COM

Primary Lab MA Cert #: MA030

Primary Lab Name: ALPHA ANALYTICAL

Location ID	Location	M/S:	D/S:	R/F:	Routine/ Special:	Collected By:	Collection Date:	O/R/C:	Resubmit Reason:	Original Collection
10374	POND ST TREATMENT PLANT (01G,05G,08G)	M	S		RS	Paul Cheney	8/17/2021	O		

Sample Comments:**Lab Sample ID:**

L2146263-01

Sample Compositing:

N

Composite Sample Comments:**Analytical Method:****Analytical Lab ID:****Analytical Lab:****Analysis Date:****Extraction date:****Analysis Comments:**

EPA 537.1

MA030

ALPHA ANALYTICAL

8/31/2021

8/30/2021

QA/QC Method1:PERFLUORO-N-[1,2-13C2]HEXANOIC ACID
(13C-PFHXA)**QA/QC Result1:**

80

QA/QC Method 2:2,3,3,3-TETRAFLUORO-2-[1,1,2,2,3,3,3-HEPTAFLUOROPROPOXY]-13C3-PROPANOIC ACID
(M3HFPO-DA)**QA/QC Result 2:**

71

QA/QC Method3:PERFLUORO-N-[1,2-13C2]DECANOIC ACID
(13C-PFDA)**QA/QC Result3:**

95

QA/QC Method4:N-DEUTERIOETHYLPERFLUORO-1-OCTANESULFONAMIDOACETIC ACID
(D5-NETFOSAA)**QA/QC Result4:**

77

CAS #	Contaminant:	Result:	UOM:	MCL (ORSG):	MDL:	MRL:	Dilution Factor	Result Qualifier	Result Qualifier Description
Regulated Contaminants									
335-76-2	PERFLUORODECANOIC ACID - PFDA	0.700	NG/L		0.585	2.00	1	J	Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL)
375-85-9	PERFLUOROHEPTANOIC ACID-PFHPA	4.03	NG/L		0.585	2.00	1		
355-46-4	PERFLUOROHXANESULFONIC ACID-PFHXS	2.80	NG/L		0.585	2.00	1		
375-95-1	PERFLUORONONANOIC ACID-PFNA	2.28	NG/L		0.585	2.00	1		
1763-23-1	PERFLUOROOCTANESULFONIC ACID-PFOS	15.0	NG/L		0.585	2.00	1		
335-67-1	PERFLUOROOCTANOIC ACID-PFOA	12.0	NG/L		0.585	2.00	1		
NONE	PFAS6	36.1	NG/L	20	0.585	2.00	1		

M/S = Multiple or Single sources represented in sample site.

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Unregulated Contaminants

763051-92-9	11-CHLOROEICOSAFLUORO-3-OXAUNDECANE-1-SULFONIC ACID-11CL-PF3OUDS	ND	NG/L	0.585	2.00	1
919005-14-4	4,8-DIOXA-3H-PERFLUORONONANOIC ACID - ADONA	ND	NG/L	0.585	2.00	1
756426-58-1	9-CHLOROHEXADECAFLUORO-3-OXANONE-1-SULFONIC ACID-9CL-PF3ONS	ND	NG/L	0.585	2.00	1
13252-13-6	HEXAFLUOROPROPYLENE OXIDE DIMER ACID - HFPO-DA	ND	NG/L	0.585	2.00	1
2991-50-6	N-ETHYL PERFLUOROOCTANESULFONAMIDOACETIC ACID - NETFOSAA	ND	NG/L	0.585	2.00	1
2355-31-9	N-METHYL PERFLUOROOCTANESULFONAMIDOACETIC ACID - NMEFOSAA	ND	NG/L	0.585	2.00	1
375-73-5	PERFLUOROBUTANESULFONIC ACID-PFBS	3.82	NG/L	0.585	2.00	1
307-55-1	PERFLUORODODECANOIC ACID - PFDOA	ND	NG/L	0.585	2.00	1
307-24-4	PERFLUOROHEXANOIC ACID - PFHXA	7.88	NG/L	0.585	2.00	1
376-06-7	PERFLUOROTETRADECANOIC ACID - PFTA	ND	NG/L	0.585	2.00	1
72629-94-8	PERFLUOROTRIDECANOIC ACID - PFTRDA	ND	NG/L	0.585	2.00	1
2058-94-8	PERFLUOROUNDECANOIC ACID - PFUNA	ND	NG/L	0.585	2.00	1

Location ID	Location	M/S:	D/S:	R/F:	Routine/ Special:	Collected By:	Collection Date:	O/R/C:	Resubmit Reason:	Original Collection
10374	POND ST TREATMENT PLANT (01G,05G,08G)	M	S		RS	Paul Cheney	8/17/2021	O		

Sample Comments:

Lab Sample ID:

L2146263-02

Sample Compositing:

N

Composite Sample Comments:

Analytical Method:

Analytical Lab ID:

Analytical Lab:

Analysis Date:

Extraction date:

Analysis Comments:

EPA 537.1

MA030

ALPHA ANALYTICAL

8/31/2021

8/30/2021

QA/QC Method1:

PERFLUORO-N-[1,2-13C2]HEXANOIC ACID (13C-PFHXA)

QA/QC Result1:

105

QA/QC Method 2:

2,3,3,3-TETRAFLUORO-2-[1,1,2,2,3,3,3-HEPTAFLUOROPROPOXY]-13C3-PROPANOIC ACID (M3HFPO-DA)

QA/QC Result 2:

103

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PFAS**Submitted - Signed****QA/QC Method3:**PERFLUORO-N-[1,2-13C2]DECANOIC ACID
(13C-PFDA)**QA/QC Result3:**

84

QA/QC Method4:N-DEUTERIOETHYLPERFLUORO-1-
OCTANESULFONAMIDOACETIC ACID
(D5-NETFOSAA)**QA/QC Result4:**

90

CAS #	Contaminant:	Result:	UOM:	MCL (ORSG):	MDL:	MRL:	Dilution Factor	Result Qualifier	Result Qualifier Description
Regulated Contaminants									
335-76-2	PERFLUORODECANOIC ACID - PFDA	ND	NG/L		0.628	2.00	1		
375-85-9	PERFLUOROHEPTANOIC ACID-PFHPA	ND	NG/L		0.628	2.00	1		
355-46-4	PERFLUOROHEXANESULFONIC ACID-PFHXS	ND	NG/L		0.628	2.00	1		
375-95-1	PERFLUORONONANOIC ACID-PFNA	ND	NG/L		0.628	2.00	1		
1763-23-1	PERFLUOROOCTANESULFONIC ACID-PFOS	ND	NG/L		0.628	2.00	1		
335-67-1	PERFLUOROOCTANOIC ACID-PFOA	ND	NG/L		0.628	2.00	1		
NONE	PFAS6	ND	NG/L	20	0.628	2.00	1		
Unregulated Contaminants									
763051-92-9	11-CHLOROEICOSAFLUORO-3- OXAUNDECANE-1-SULFONIC ACID-11CL-PF3OUDS	ND	NG/L		0.628	2.00	1		
919005-14-4	4,8-DIOXA-3H-PERFLUORONONANOIC ACID - ADONA	ND	NG/L		0.628	2.00	1		
756426-58-1	9-CHLOROHEXADECAFLUORO-3- OXANONE-1-SULFONIC ACID-9CL-PF3ONS	ND	NG/L		0.628	2.00	1		
13252-13-6	HEXAFLUOROPROPYLENE OXIDE DIMER ACID - HFPO-DA	ND	NG/L		0.628	2.00	1		
2991-50-6	N-ETHYL PERFLUOROOCTANESULFONAMIDOACET IC ACID - NETFOSAA	ND	NG/L		0.628	2.00	1		
2355-31-9	N-METHYL PERFLUOROOCTANESULFONAMIDOACET IC ACID - NMEFOSAA	ND	NG/L		0.628	2.00	1		
375-73-5	PERFLUOROBUTANESULFONIC ACID-PFBS	ND	NG/L		0.628	2.00	1		
307-55-1	PERFLUORODODECANOIC ACID - PFDOA	ND	NG/L		0.628	2.00	1		
307-24-4	PERFLUOROHEXANOIC ACID - PFHXA	ND	NG/L		0.628	2.00	1		
376-06-7	PERFLUOROTETRADECANOIC ACID - PFTA	ND	NG/L		0.628	2.00	1		

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72629-94-8	PERFLUOROTRIDEcanoic Acid - PFTRDA	ND	NG/L	0.628	2.00	1
2058-94-8	PERFLUOROUNDECANOIC Acid - PFUNA	ND	NG/L	0.628	2.00	1

Primary Lab Signature: John Trimble

Date: 9/29/2021

EDEP Transaction ID: 1312414

Certified Signer User Name: JTRIMBLE

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