



Per- and Polyfluoroalkyl Substances (PFAS) Report

Page 1 of 2

I. PWS INFORMATION: Please refer to your MassDEP Water Quality Sampling Schedule (WQSS) to help complete this form

PWS ID #: **2187000** City / Town: **Millis**

PWS Name: **MILLIS WATER DEPT** PWS Class: **COM** ☒ **NTNC** ☐ **TNC** ☐

MassDEP Location (LOC) ID#	MassDEP Location Name	Sample Information		Date Collected	Collected By
03G	FINISHED: WELL #3 VILLAGE ST. WTF	<input type="checkbox"/> (M)ultiple <input checked="" type="checkbox"/> (S)ingle	<input type="checkbox"/> (R)aw <input checked="" type="checkbox"/> (F)inished	12/21/20	R.M.
Routine or Special Sample	Original, Resubmitted or Confirmation Report	If Resubmitted Report, list below:			
		(1) Reason for Resubmission		(2) Collection Date of Original Sample	
<input checked="" type="checkbox"/> RS <input type="checkbox"/> SS	<input checked="" type="checkbox"/> Original <input type="checkbox"/> Resubmitted <input type="checkbox"/> Confirmation	<input type="checkbox"/> Resample <input type="checkbox"/> Reanalysis <input type="checkbox"/> Report Correction			
SAMPLE COMMENTS - Such as, if a Manifold/Multiple sample, list the source(s) that were on-line during sample collection or if this is a field reagent blank					

II. ANALYTICAL LABORATORY INFORMATION:

Primary Lab Cert. #: **M-MA086** Primary Lab Name: **Alpha Analytical** Subcontracted? (Y/N) **Y**

Analysis Lab Cert. #: **M-MA030** Analysis Lab Name: **Alpha Analytical**

If Analysis Lab is not certified by MassDEP or U.S. EPA, list certification authority:

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Lab Method	Date Extracted	Date Analyzed	Dilution Factor	Lab Sample IDs#	
537.1	12/31/20	01/04/21	1	Primary Lab:	L2056964-01
				Subcontracted Lab:	L2056964-01

CAS#	REGULATED PFAS CONTAMINANTS	Result ¹ ng/L	Result ² Qualifier	MCL* ng/L	MDL ng/L	MRL ng/L
1763-23-1	Perfluorooctane Sulfonic Acid (PFOS)	6.61			0.459	1.87
335-67-1	Perfluorooctanoic Acid (PFOA)	5.15			0.582	1.87
355-46-4	Perfluorohexane Sulfonic Acid (PFHxS)	1.75	J		0.448	1.87
375-95-1	Perfluorononanoic Acid (PFNA)	0.560	J		0.444	1.87
375-85-9	Perfluorohexanoic Acid (PFHpA)	1.57	J		0.243	1.87
335-76-2	Perfluorodecanoic acid (PFDA)	ND			0.601	1.87
PFAS6 (sum of PFOS, PFOA, PFHxS, PFNA, PFHpA and PFDA; only include Results at or above the MRL; do not include estimated Results as described by a Result Qualifier in the next column)		11.76	--	20	-	-
UNREGULATED PFAS CONTAMINANTS						
375-73-5	Perfluorobutane sulfonic acid (PFBS)	6.53			0.265	1.87
307-55-1	Perfluorododecanoic acid (PFDoA)	ND			0.605	1.87
307-24-4	Perfluorohexanoic acid (PFHxA)	2.31			0.246	1.87
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND			0.403	1.87
72629-94-8	Perfluorotridecanoic acid (PFTTrDA)	ND			0.474	1.87
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND			0.399	1.87
2991-50-6	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND			0.523	1.87
2355-31-9	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND			0.560	1.87
763051-92-9	11-chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND			0.196	1.87
756426-58-1	9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	ND			0.257	1.87
919005-14-4	4,8-dioxo-3H-perfluorononanoic acid (ADONA)	ND			0.067	1.87
13252-13-6	Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND			0.422	3.73

¹ A field reagent blank (FRB) must be analyzed and reported on a separate PFAS form if any PFAS are detected above the MRL.

² All qualifiers must be described under Lab Analysis Comments on page 2.



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PWS ID#:

2187000

Lab Sample ID#:

Primary Lab: L2056964-01

Subcontracted Lab: L2056964-01

CAS#	UNREGULATED PFAS CONTAMINANTS	Result ¹ ng/L	Result ² Qualifier	MCL * ng/L	MDL ng/L	MRL ng/L

Surrogate Name	% Recovery (70 – 130%)	Alternate Surrogate (must document reason for change)
¹³ C ₂ -PFHxA	90	
¹³ C ₂ -PFDA	87	
d ₅ -NEtFOSAA	99	
¹³ C ₃ -HFPO-DA	75	

Note: ¹³C₃-HFPO-DA is not required for EPA Method 537 v1.1

In addition to the SUR above you must attach the results of the ongoing QC results as specified by the method for the sample's extraction batch.

☒ Laboratory analytical report with QC attached (check one item below).☒ All associated QC criteria reported within control limits including Lab Reagent/Method Blank (LRB), Field Reagent Blank (FRB), Surrogate Standards (SUR), Laboratory Fortified Blank (LFB), Matrix Spike/Duplicate (LFSM/LFSMD or FD) and RPD.☐ All associated sample and/or QC batch criteria not met. See Lab Analysis Comments below and narrative in attached report.**Lab Analysis Comments:** (include sample/method parameters outside of or affecting QC controls/limits and result qualifiers)

Result Qualifier	Qualifier Description
J	The target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit.
Other Analysis Comments:	

* MCL or proposed MCL

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.

Primary Lab Director Signature: _____

Joseph L. Wackens

Date: _____

1/6/21

If not submitting these results electronically, mail TWO copies of this report to your MassDEP Regional Office no later than 10 days after the end of the month in which you received this report or no later than 10 days after the end of the reporting period, whichever is sooner. Note that during the Massachusetts COVID-19 state of emergency, in addition to submitting by mail reports may be emailed to program.director-dwp@mass.gov.

MassDEP REVIEW STATUS (Initial & Date)	Review Comments	<input type="checkbox"/> WQTS Data Entered
<input type="checkbox"/> Accepted _____ <input type="checkbox"/> Disapproved		



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MassDEP Location (LOC) ID#	MassDEP Location Name	Sample Information		Date Collected	Collected By
03G	FINISHED: WELL #3 VILLAGE ST. WTF (FB)	<input type="checkbox"/> (M)ultiple <input checked="" type="checkbox"/> (S)ingle	<input type="checkbox"/> (R)aw <input checked="" type="checkbox"/> (F)inished	12/21/20	R.M.
Routine or Special Sample	Original, Resubmitted or Confirmation Report	If Resubmitted Report, list below:			
		(1) Reason for Resubmission		(2) Collection Date of Original Sample	
<input checked="" type="checkbox"/> RS <input type="checkbox"/> SS	<input checked="" type="checkbox"/> Original <input type="checkbox"/> Resubmitted <input type="checkbox"/> Confirmation	<input type="checkbox"/> Resample <input type="checkbox"/> Reanalysis <input type="checkbox"/> Report Correction			
SAMPLE COMMENTS - Such as, if a Manifold/Multiple sample, list the source(s) that were on-line during sample collection or if this is a field reagent blank					

II. ANALYTICAL LABORATORY INFORMATION:

Primary Lab Cert. #: **M-MA086** Primary Lab Name: **Alpha Analytical** Subcontracted? (Y/N) **Y**

Analysis Lab Cert. #: **M-MA030** Analysis Lab Name: **Alpha Analytical**

If Analysis Lab is not certified by MassDEP or U.S. EPA, list certification authority:

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Lab Method	Date Extracted	Date Analyzed	Dilution Factor	Lab Sample IDs#	
537.1	12/31/20	01/04/21	1	Primary Lab:	L2056964-02
				Subcontracted Lab:	L2056964-02

CAS#	REGULATED PFAS CONTAMINANTS	Result ¹ ng/L	Result ² Qualifier	MCL* ng/L	MDL ng/L	MRL ng/L
1763-23-1	Perfluorooctane Sulfonic Acid (PFOS)	ND		20	0.466	1.90
335-67-1	Perfluorooctanoic Acid (PFOA)	ND			0.592	1.90
355-46-4	Perfluorohexane Sulfonic Acid (PFHxS)	ND			0.455	1.90
375-95-1	Perfluorononanoic Acid (PFNA)	ND			0.451	1.90
375-85-9	Perfluorohexanoic Acid (PFHpA)	ND			0.246	1.90
335-76-2	Perfluorodecanoic acid (PFDA)	ND			0.611	1.90
PFAS6 (sum of PFOS, PFOA, PFHxS, PFNA, PFHpA and PFDA; only include Results at or above the MRL; do not include estimated Results as described by a Result Qualifier in the next column)		=	--	20	-	-
UNREGULATED PFAS CONTAMINANTS						
375-73-5	Perfluorobutane sulfonic acid (PFBS)	ND		20	0.269	1.90
307-55-1	Perfluorododecanoic acid (PFDoA)	ND			0.614	1.90
307-24-4	Perfluorohexanoic acid (PFHxA)	ND			0.250	1.90
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND			0.410	1.90
72629-94-8	Perfluorotridecanoic acid (PFTTrDA)	ND			0.482	1.90
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND			0.406	1.90
2991-50-6	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND			0.531	1.90
2355-31-9	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND			0.569	1.90
763051-92-9	11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	ND			0.199	1.90
756426-58-1	9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	ND			0.261	1.90
919005-14-4	4,8-dioxa-3H-perfluorononanoic acid (ADONA)	ND			0.068	1.90
13252-13-6	Hexafluoropropylene oxide dimer acid (HFPO-DA)	ND			0.429	3.79

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2187000

Lab Sample ID#:

Primary Lab:

L2056964-02

Subcontracted Lab:

L2056964-02

CAS#	UNREGULATED PFAS CONTAMINANTS	Result ¹ ng/L	Result ² Qualifier	MCL * ng/L	MDL ng/L	MRL ng/L

Surrogate Name	% Recovery (70 – 130%)	Alternate Surrogate (must document reason for change)
¹³ C ₂ -PFHxA	104	
¹³ C ₂ -PFDA	98	
d ₅ -NEtFOSAA	102	
¹³ C ₃ -HFPO-DA	93	

Note: ¹³C₃-HFPO-DA is not required for EPA Method 537 v1.1

In addition to the SUR above you must attach the results of the ongoing QC results as specified by the method for the sample's extraction batch.

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Result Qualifier	Qualifier Description
J	The target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit.
Other Analysis Comments:	

* MCL or proposed MCL

I certify under penalties of law that I am the person authorized to fill out this form and the information contained herein is true, accurate and complete to the best extent of my knowledge.

Primary Lab Director Signature:

Joseph L. Wickens

Date:

1/6/21

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MassDEP REVIEW STATUS (Initial & Date)	Review Comments	<input type="checkbox"/> WQTS Data Entered
<input type="checkbox"/> Accepted _____ <input type="checkbox"/> Disapproved		



8 Walkup Drive
Westboro, MA 01581
Tel: 508-898-9220

320 Forbes Blvd
Mansfield, MA 02048
Tel: 508-822-9300

CHAIN OF CUSTODY

PAGE ____ OF ____

Date Rec'd in Lab: 12/21/20

ALPHA Job #: L20509604

Project Information

Project Name: Melloe WATER

Project Location: Melloe MA

Project #:

Project Manager: J McKay

ALPHA Quote #:

Turn-Around Time

☒ Standard ☐ RUSH (only confirmed if pre-approved)

Date Due:

Report Information - Data Deliverables

☐ ADEX ☒ EMAIL

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements & Project Information Requirements

☐ Yes ☐ No MA MCP Analytical Methods ☐ Yes ☐ No CT RCP Analytical Methods
☐ Yes ☐ No Matrix Spike Required on this SDG? (Required for MCP Inorganics)
☐ Yes ☐ No GW1 Standards (Info Required for Metals & EPH with Targets)
☐ Yes ☐ No NPDES RGP
☐ Other State /Fed Program Criteria

Client Information

Client: Town of Melloe

Address: 900 Main St

Melloe MA 02054

Phone: 508 376 5424

Email: JMcKay@MelloeMA.gov

Additional Project Information:

ALPHA Lab ID
(Lab Use Only)

Sample ID

Collection

Date

Time

Sample
Matrix

Sampler
Initials

ANALYSIS

VOC: ☐ 8260 ☐ 824 ☐ 524.2

SVOC: ☐ A5N ☐ PAH

METALS: ☐ MCP 13 ☐ MCP 14 ☐ MCP 15

METALS: ☐ RCRA5 ☐ RCRA8 ☐ PPI3

EPH: ☐ Ranges & Targets ☐ Ranges Only

VPH: ☐ Ranges & Targets ☐ Ranges Only

PCB ☐ PEST

TPH: ☐ Quant Only ☐ Fingerprint

SAMPLE INFO

Filtration

☐ Field

☐ Lab to do

Preservation

☐ Lab to do

Sample Comments

TOTAL # BOTTLES

56964-01 036 Village WTF 12/21/20 9:30am DW Ru
-02 036 Village F/B 12/21/20 9:30am DW Ru

0.47ug/l (CL)

Container Type

P= Plastic
A= Amber glass
V= Vial
G= Glass
B= Bacteria cup
C= Cube
O= Other
E= Encore
D= BOD Bottle

Preservative

A= None
B= HCl
C= HNO₃
D= H₂SO₄
E= NaOH
F= MeOH
G= NaHSO₄
H= Na₂S₂O₅
I= Ascorbic Acid
J= NH₄Cl
K= Zn Acetate
O= Other

O = TRIZMA
A = NON

Container Type

PP

Preservative

OA

Relinquished By:

Ric

Date/Time

12/21/20 10:00am

Received By:

John K. [Signature]

Date/Time

12/21/20 10:00am

All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.
FORM NO: 01-01 (rev. 12-Mar-2012)