

Massachusetts Department of Environmental Protection - Drinking Water Program

Per- and Polyfluoroalkyl Substances (PFAS) Report

Page 1 of 2

I. PWS INFOR	MATION: Pleas	e refer to your	MassDEP W	ater Quality S	ampling Sc	hedule (WC	SS) to he	lp complet	e this for	m		
PWS ID #:	218700	0		Cit	y / Town:	Millis						
PWS Name:	MILLIS W	ATER DEPT				PV	VS Class	COM	⊠ NTN	C TNC		
MassDEP Location (LOC) ID#		MassDEP Loca	ion Name					Collected By				
03G FINISHED: WELL #3 VILLAGE ST. WTF			=	☐ (M)ultip ☑ (S)ingle)aw inished	11/18/	′20	R.M.			
Routine or Special Sample		al, Resubmitted o	or	(1) F	Reason for Re		itted Repor	rt, list below		of Original Sample		
⊠RS □SS	☐ Original ☐ Re		Confirmation	Resample			Correction	(2) 551151	Alon Dato	or original campio		
SAMPLE COMMEN			•			- '						
The samples were receis	eived at the laboratory a	bove the required te	mperature range.	The samples were t	ransported to th	e laboratory in a	cooler with ic	e and delivered	I directly from	n the sampling site. This		
II. ANALYTICA	L LABORATO	RY INFORMA	TION:									
Primary Lab Cer	t. #: M-MA08	6 Prima	ry Lab Name	: Alpha Ana	alytical			Sub	contracte	ed? (Y/N) Y		
Analysis Lab Ce	ert. #: M-MA03	0 Analys	is Lab Name	: Alpha Ana	alytical							
If Analysis Lab i EPA, list certific		/ MassDEP or	U.S.									
Lab Method	Date	Date	Dilution			1.	nh Cample I	Do#				
Lab Method	Extracted	Analyzed	Factor	Deimontlob		L	ab Sample I		4.01			
537.1	12/02/20	12/03/20	1		•				L2051204-01 L2051204-01			
					1		1	1				
CAS#		REGULATED	PFAS CONTAM	IINANTS		Result ¹ ng/L	Result ² Qualifier	MCL* ng/L	MDL ng/L	MRL ng/L		
1763-23-1	Perfluorooctane	Sulfonic Acid (PFOS)			6.05			0.462	1.88		
335-67-1	Perfluorooctano	oic Acid (PFOA)				6.20			0.586	1.88		
355-46-4	Perfluorohexan	e Sulfonic Acid (PFHxS)			1.73	J		0.451	1.88		
375-95-1	Perfluorononan	oic Acid (PFNA)				0.676	J		0.447	1.88		
375-85-9	Perfluorohepata	anoic Acid (PFHp	A)			1.62	J		0.244	1.88		
335-76-2	Perfluorodecan	oic acid (PFDA)				ND			0.605	1.88		
Res	of PFOS, PFOA, Foults at or above the cribed by a Result	ne MRL; do not	include estima	ated Results as	ude s =	12.25		20	-	-		
		UNREGULATED										
375-73-5	Perfluorobutane	sulfonic acid (F	PFBS)			6.31			0.267	1.88		
307-55-1	Perfluorododec	anoic acid (PFD	oA)			ND			0.609	1.88		
307-24-4	Perfluorohexan	oic acid (PFHxA)				2.59			0.247	1.88		
376-06-7	Perfluorotetrade	ecanoic acid (PF	TA)			0.451	J		0.406	1.88		
72629-94-8	Perfluorotrideca	anoic acid (PFTr	DA)			ND			0.477	1.88		
2058-94-8	Perfluoroundec	anoic acid (PFU	nA)			ND			0.402	1.88		
2991-50-6	N-ethyl perfluor	ooctanesulfonar	nidoacetic acid	(NEtFOSAA)		1.43	J		0.526	1.88		
2355-31-9	N-methyl perflu	orooctanesulfon	amidoacetic ad	cid (NMeFOSAA)	0.864	J		0.564	1.88		
763051-92-9	11-chloroeicosa	fluoro-3-oxaund	ecane-1-sulfor	nic acid (11CI-PI	F3OUdS)	ND			0.197	1.88		
756426-58-1	9-chlorohexade	cafluoro-3-oxan	ne-1-sulfonic	acid (9CI-PF3OI	NS)	ND			0.258	1.88		
919005-14-4	4,8-dioxa-3H-pe	rfluorononanoic	acid (ADONA)			ND			0.067	1.88		
13252-13-6	Hexafluoroprop	ylene oxide dim	er acid (HFPO-	DA)		ND			0.425	3.76		

Rev. 9/9/2020

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.



Massachusetts Department of Environmental Protection - Drinking Water Program

PFAS

Per- and Polyfluoroalkyl Substances (PFAS) Report

PWS	ID#:	

2187000

Lab Sample ID#:

Primary Lab: L2051204-01 L2051204-01 Subcontracted Lab:

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	83	
¹³ C ₂ -PFDA	76	
d₅-NEtFOSAA	77	
¹³ C ₃ -HFPO-DA	74	

Note: ${}^{13}C_3$ -HFPO-DA is not required for EPA Method 537 v1.1

In addition to the S	UR above you must attach the results of	the ongoing Q0	C results as specified by the method	for the sample's extra	ction batch.				
□ Laboratory ana	alytical report with QC attached (chec	k one item belo	ow).						
	ociated QC criteria reported within contro Standards (SUR), Laboratory Fortified E				(FRB),				
☐ All ass	ociated sample and/or QC batch criteria	not met. See La	ab Analysis Comments below and n	arrative in attached rep	ort.				
Lab Analysis Com	nments: (include sample/method param	eters outside of	f 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 M	ICL								
I certify under penaltie	es of law that I am the person authorized to fill or cormation contained herein is true, accurate a		nary Lab Director Signature:	Joseph W.	ackins				
	extent of my knowledge.		Date:	12/9/2	<u>'</u> 0				
the month in which	hese results electronically, mail <u>TWO</u> co _l ch you received this report <u>or</u> no later tha s COVID-19 state of emergency, in addit	an 10 days after	the end of the reporting period, whi	chever is sooner. Note	that during the				
MassDEP REVIEW	/ STATUS (Initial & Date)	Review			□wqts				
☐ Accepted	Disapproved	Comments			Data Entered				



Massachusetts Department of Environmental Protection - Drinking Water Program **PFAS**

Per- and Polyfluoroalkyl Substances (PFAS) Report

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

Page 1 of 2

PWS ID #:	21	<u>87000</u>)		City / Town: Millis										
PWS Name:	MII	LLIS W	ATER [DEPT						PW	S Class:	COM	⊠ NT	NC [☐ TNC ☐
MassDEP Location (LOC) ID#			MassDE	P Locati	on Name			Sam	ample Information Date Collected Col			Collected By			
03G	FINISHED: WELL #3 VILLAGE ST. WTF (FE			В)	☐ (M)ultip 図 (S)ingl				11/18	/20		R.M.			
Routine or	<u>u</u> ,						itted Repor								
Special Sample ☐ RS ☐ SS	✓ Origin			•	onfirmation	_	. ,	Reason for Ro			orrection	(2) Colle	ction Da	te of O	riginal Sample
SAMPLE COMME						_	-	-		•	<u> </u>	nis is a field	reagent '	blank	
The samples were rec					*										sampling site. This
II. ANALYTICA	AL LABO	RATOR	RY INF	ORMA											
Primary Lab Ce	rt. #:						lytical				Sub	contrac	cted?	(Y/N) Y	
	_				•		-								, ,
Analysis Lab C	ert.#:	M-MA030		Analysi	s Lab Name	:	Alpha Ana	llytical							
If Analysis Lab EPA, list certific			MassD	EP or U	J.S.										
,			-		D11 (1)										
Lab Method		ate acted		ate lyzed	Dilution Factor					La	b Sample II	Ds#			
537.1	12/0	2/20	12/0	3/20	1	Pr	imary Lab	:				_205120			
	12/0	2,20	12/0	.0,20	•	Sı	ıbcontract	ed Lab:	L2051204-02						
CAS#			REGUI	LATED P	FAS CONTAM	IINA	INTS			esult ¹ ng/L	Result ² Qualifier	MCL* ng/L	MD ng/		MRL ng/L
1763-23-1	Perfluo	rooctane	Sulfonio	c Acid (P	FOS)					ND			0.4	78	1.94
335-67-1	Perfluo	rooctanoi	ic Acid ((PFOA)						ND			0.60	06	1.94
355-46-4	Perfluo	rohexane	Sulfoni	c Acid (P	PFHxS)					ND			0.40	66	1.94
375-95-1	Perfluo	rononano	ic Acid	(PFNA)						ND			0.40	62	1.94
375-85-9	Perfluo	rohepataı	noic Aci	d (PFHp	A)					ND			0.2	53	1.94
335-76-2	Perfluo	rodecano	ic acid ((PFDA)						ND			0.62	26	1.94
	sults at or a	above the	e MRL;	do not i	PFHpA and Place of the second in the second	ated						20	-		-
			UNREG	ULATED	PFAS CONTA	MIN	IANTS								
375-73-5	Perfluo	robutane	sulfonio	c acid (Pl	FBS)					ND			0.2	76	1.94
307-55-1	Perfluo	rododeca	noic aci	id (PFDo	A)					ND			0.6	30	1.94
307-24-4	Perfluo	rohexano	ic acid ((PFHxA)						ND			0.2	56	1.94
376-06-7	Perfluo	rotetrade	canoic a	acid (PFT	A)					ND			0.42	20	1.94
72629-94-8	Perfluo	rotrideca	noic aci	d (PFTrD	A)					ND		_	0.49	94	1.94
2058-94-8	Perfluo	roundeca	noic aci	id (PFUn	A)					ND ND			0.4	16	1.94
2991-50-6		•			idoacetic acid	•	•			ND			0.54	44	1.94
2355-31-9	N-meth	yl perfluo	rooctan	esulfona	midoacetic ac	id (NMeFOSAA)		ND			0.58		1.94
763051-92-9	+				cane-1-sulfon		•	•		ND			0.20		1.94
756426-58-1					ne-1-sulfonic		(9CI-PF3ON	IS)		ND ND		-	0.20		1.94
919005-14-4					acid (ADONA)					ND			0.0		
13252-13-6	Hexaflu	Hexafluoropropylene oxide dimer acid (HFPO-DA)					עוו			0.43	39	3.89			

Rev. 9/9/2020

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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PFAS

Per- and Polyfluoroalkyl Substances (PFAS) Report

PWS ID#:	2187000

Lab Sample ID#:

Primary Lab:	L2051204-02
Subcontracted Lab:	L2051204-02

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	77	
¹³ C ₂ -PFDA	83	
d₅-NEtFOSAA	92	
¹³ C ₃ -HFPO-DA	77	

Note: ${}^{13}C_3$ -HFPO-DA is not required for EPA Method 537 v1.1

In addition to the S	UR above you must attach the results of	the ongoing Q0	results as specified by the method	for the sample's extra	ction batch.				
□ Laboratory ana	alytical report with QC attached (check	one item belo	ow).						
	ociated QC criteria reported within contro Standards (SUR), Laboratory Fortified B		• • • • • • • • • • • • • • • • • • • •	,	(FRB),				
☐ All ass	ociated sample and/or QC batch criteria ı	not met. See La	ab Analysis Comments below and na	arrative in attached rep	ort.				
Lab Analysis Com	nments: (include sample/method parame	eters outside of	or affecting QC controls/limits and i	esult 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 M	ICL								
I certify under penaltie	es of law that I am the person authorized to fill o		nary Lab Director Signature:	Joseph W.	ackins				
	ormation contained herein is true, accurate a extent of my knowledge.	na	Date:	12/9/2	:0				
the month in which	hese results electronically, mail <u>TWO</u> cop ch you received this report <u>or</u> no later tha s COVID-19 state of emergency, in additi	n 10 days after	the end of the reporting period, which	chever is sooner. Note	that during the				
MassDEP REVIEW	/ STATUS (Initial & Date)								
☐ Accepted	Disapproved	Review Comments			☐ WQTS Data Entered				

ΔLPHA	CHAIN	OF CUSTODY	PAGEOF	Date Rec'd in Lab:	1/18/20	ALPHA Job#: L2051204
WESTBORO, MA	MANSFIELD, MA	Project Information		Report Information -		Billing Information
	TEL: 508-822-9300 FAX: 508-822-3288	Project Name: (1/1/1/1/	Atte DEM	□ FAX □ EI	THE REAL PROPERTY OF THE PARTY	The state of the s
lient Information		Project Location: Ne(1)	BIA		f'l Deliverables	☐ Same as Client info PO.#:
Client Cun o	of eldles	Project #:	, , , , ,	Regulatory Requireme	ents/Report Limits	
Address:	lain ST	1.	1.6.	State /Fed Program	Criteria	
Millie 11	A DAOSY	ALPHA Quote #	ckey	Manage of the Control		
Phone: 508-37	6-042	Turn-Around Time				
Fax: 508-37		Turn-Around Time				
Email: 11/1/2	Ollillis MA.	Standard DRUSH	only continued if pre-approved)			
		Date Due:	Time:	9////	1111	1/1/1/
Other Project Spec	een previously analyzed by Alp	mments/Detection Limits:		YS!		SAMPLE HANDLING
	and requirements/C0	minents/Detection Limits:		AMALYSIS	//////	Filtration
				4/(2)		/ / / D Not needed
						Lab to do Preservation
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection	Sample Sampler	(AV) / / /		Lab to do (Phiase specify below)
Las CELO	9/ 1///	Date Time				Sample Specific Comments
01 (7)(D Village L	UTF 11/18/29 436	new place	V		0.23 10/1 (0)
	036 FE	11/18/20 936	y De Rac	V		0 13 24/1 (01
O=Tp.	· ·		Container Type	PP		Please print clearly, legibly and co
O=TRI3 A= Nei	pre		Preservative (DA		pletely. Samples can not be logge
11 = Nei	7	Relinquished By?	Date/Time	Received By:	Date/Ti	
	Ren	Mckenney	11/15/20	forliber	5 11/18/20	
RM NO: 01-01 (rev. 14-OCT-07)	7,000	henny	101	6 ta		See reverse side.