

#### 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

P۱	WS ID #:		3315000				City	//Town:	WA'	YLAN	D					
P۱	WS Name:	WAYLAND WATER DEPARTMENT							]	PW	/S Class:	COM	□ NT	NC [	☐ TNC ☐	
	MassDEP Location (LOC) ID#	MassDEP Location Name San							ample Information Date Collected (			Collected By				
	10008	СН	CHAMBERLAIN WELL ☐ (M)ul ☐ (S)ing							□ ( <b>R</b> ) 図 ( <b>F</b> )i	aw inished	12/16/	20		RB	
	Routine or	Original, Resubmitted or									itted Repor	t, list below				
	ecial Sample			mation Report		(1) Reason for Resubmission (2) Collection Date of Original Sa							riginal Sample	)		
_	RS SS		Original Res			a ☐ Resample ☐ Reanalysis ☐ Report Correction  e source(s) that were on-line during sample collection or if this is a field reagent blank									_	
SA	AWIPLE COMINIE	N13 -	Such as, ii a Ma	niioid/Multiple Sa	ampie, list the s	sourc	e(s) that wer	e on-line dun	ng sam	pie con	ection or ii ti	nis is a lieiu i	eagent	DIATIK		
														_		_
II.	ANALYTICA	AL L	ABORATOR'	Y INFORMA	TION:											
Pr	imary Lab Ce	rt. #:	M-MA086	Primar	y Lab Name	:	Alpha Ana	lytical				Sub	contra	cted?	(Y/N) Y	
Ar	nalysis Lab C	ert. #	: M-MA030	Analys	is Lab Name	<b>:</b>	Alpha Ana	lytical								_
lf .	Analysis Lab is not certified by MassDEP or U.S.														_	
	PA, list certific															
	Lab Method		Date Extracted	Date Analyzed	Dilution Factor					La	b Sample II	Ds#				
			40/00/00	12/23/2		Pr	imary Lab	:	L2056342-01							_
	537.1		12/23/20	0	1	Sı	ubcontract	ed Lab:	L2056342-01							
								_	1	- 1,2	11014				Ī	
	CAS#			REGULATED F	PFAS CONTAN	ΛINA	NTS		Res ng	/L	Result <sup>2</sup> Qualifier	MCL* ng/L	MD ng		MRL ng/L	
	1763-23-1	l Pe	erfluorooctane S	Sulfonic Acid (F	PFOS)				3.				0.4	33	1.76	1
	335-67-1	l Pe	erfluorooctanoid	Acid (PFOA)					6.9				0.5	49	1.76	
	355-46-4	1 P	erfluorohexane	Sulfonic Acid (	PFHxS)				1.4		J		0.4	22	1.76	l
	375-95-1	l Pe	erfluorononanoi	c Acid (PFNA)					N			_	0.4	19	1.76	ļ
	375-85-9	P	erfluorohepatan	oic Acid (PFHp	A)				3.3			_	0.2	29	1.76	ļ
	335-76-2		erfluorodecanoi	• •					N	D			0.5	67	1.76	l
	` Re	sults	FOS, PFOA, PF at or above the ed by a Result (	MRL; do not	include estima	ated			13	.8						
			U	INREGULATED	PFAS CONTA	MIN	IANTS									۱
Ī	375-73-5	5 <b>P</b> e	erfluorobutane s	sulfonic acid (P	FBS)				1.	51	J		0.2	50	1.76	
	307-55-1	l Pe	erfluorododecar	noic acid (PFDc	Α)				N	D			0.5	70	1.76	ĺ
	307-24-4	l Po	erfluorohexanoi	c acid (PFHxA)					3.4	41			0.2	32	1.76	ĺ
	376-06-7	7 P	erfluorotetradec	anoic acid (PF	ГА)				N	D			0.3	80	1.76	ĺ
	72629-94-8	3 <b>P</b> (	erfluorotridecan	oic acid (PFTr[	DA)				Z	D			0.4	93	1.76	
	2058-94-8	Pe	erfluoroundecar	noic acid (PFUn	A)				N				0.3	77	1.76	
	2991-50-6	6 <b>N</b>	ethyl perfluoro	octanesulfonan	nidoacetic acid	d (N	EtFOSAA)		N				0.4	93	1.76	
	2355-31-9	N-	-methyl perfluor	ooctanesulfon	amidoacetic a	cid (	NMeFOSAA	)	N				0.5	28	1.76	
	763051-92-9	<b>1</b> 1	I-chloroeicosafl	uoro-3-oxaund	ecane-1-sulfor	nic a	cid (11CI-PF	3OUdS)	Ν				0.1	85	1.76	
	756426-58-1	1 9-	chlorohexadeca	fluoro-3-oxano	ne-1-sulfonic	acio	I (9CI-PF3ON	IS)	N				0.2	42	1.76	
	919005-14-4	4,	8-dioxa-3H-perf	luorononanoic	acid (ADONA)	)			N				0.0	63	1.76	
	13252-13-6	6 H	exafluoropropyl	ene oxide dime	r acid (HFPO-	DA)			N	D			0.3	98	3.52	1

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

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



**PFAS** 

Data Entered

### Per- and Polyfluoroalkyl Substances (PFAS) Report

PWS ID#:	3315000
----------	---------

L2047840-01 Primary Lab: Lab Sample ID#: Subcontracted Lab: L2047840-01

		,				
CAS#	UNREGULATED PFAS CONTAMINANTS	Result <sup>1</sup> ng/L	Result <sup>2</sup> Qualifier	MCL * ng/L	MDL ng/L	MRL ng/L
				-		

Surrogate Name	% Recovery (70 – 130%)	Alternate Surrogate (must document reason for change)
<sup>13</sup> C <sub>2</sub> -PFHxA	98	
<sup>13</sup> C <sub>2</sub> -PFDA	76	
d₅-NEtFOSAA	88	
<sup>13</sup> C <sub>3</sub> -HFPO-DA	117	

	-2					
	<sup>13</sup> C <sub>2</sub> -PFDA	76				
	d <sub>5</sub> -NEtFOSAA	88				
	<sup>13</sup> C <sub>3</sub> -HFPO-DA	117				
	Note: <sup>13</sup> C <sub>3</sub> -HFP0	D-DA is not required	for EPA	Method 537 v1.1		
In addition to the S	UR above you must attach	the results of the or	ngoing Q0	results as specified by the method	for the sample's e	xtraction batch.
□ Laboratory ana	lytical report with QC att	ached (check one i	item belo	ow).		
				g Lab Reagent/Method Blank (LRB) trix Spike/Duplicate (LFSM/LFSMD		ank (FRB),
	ociated sample and/or QC	batch criteria not me	et. See La	ab Analysis Comments below and na	arrative in attached	report.
Lab Analysis Com	ments: (include sample/r	nethod parameters of	outside of	or affecting QC controls/limits and i	result qualifiers)	
Result Qualifier	Qualifier Description					
J	The target analyte conce	ntration is below the	quantitat	ion limit (RL), but above the Method	Detection Limit.	
	100-0010 01					
Other Analysis Comments:		ue to lack of additior	nal sampl	IMeFOSAA was below the acceptar e. The results of the original analysi		
* MCL or proposed M	ICL					
	s of law that I am the person a		Prin	nary Lab Director Signature:	Joseph	Weakons
	ormation contained herein is t extent of my knowledge.	rue, accurate and		Date:	1/6	6/2021
the month in whic	ch you received this report	<u>or</u> no later than 10 d	lays after	rt to your MassDEP Regional Office the end of the reporting period, whic g by mail reports may be emailed to	chever is sooner. N	lote that during the
MassDEP REVIEW	STATUS (Initial & Date)	Revi	iew			□ wqts

Comments



#### 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 #:		331500	0				City	/ / Town:	WAY	<b>LAN</b>	D				
PWS Name:		WAYLANI	O WA	TER DEI	PARTMENT	Γ				PW	S Class:	СОМ	□ N¹	INC [	☐ TNC ☐
MassDEP Location (LOC) ID#		MassDEP Location Name						Sam	mple Information			Date Co	llected	(	Collected By
10008	СН	CHAMBERLAIN WELL-FB						☐ ( <b>M</b> )ultip ☑ ( <b>S</b> )ingle		☐ ( <b>R</b> )a ☑ ( <b>F</b> )ii	aw nished	12/16	5/20		RB
Routine or				bmitted o	r				If Re	submi	ted Repor	t, list belo	w:	•	
Special Sample				n Report				leason for Re				(2) Coll	ection Da	ate of C	Original Sample
☐ RS ☐ SS	ullet	Original 🗌 Re				_		Reanalysi							
SAMPLE COMME	ENTS -	Such as, if a M	lanifold/	Multiple sa	mple, list the s	e source(s) that were on-line during sample collection or if this is a field reagent blank									
II. ANALYTIC	AL L	ABORATO	RY INI	FORMA	ΓΙΟΝ:										
Primary Lab Cert. #: M-MA086 Primary Lab Name: Alpha Analytical							lytical				Su	bcontra	cted?	(Y/N) Y	
Analysis Lab C	ert. #	: M-MA03	0	Analysi	is Lab Name	:	Alpha Ana	lytical							
If Analysis Lab	is no	at certified by	, Mass	DEP or I	ıs										
EPA, list certifi			Mass	DEI OI C											
		Date		Date	Dilution										
Lab Method		Extracted		alyzed	Factor					Lak	Sample I	Ds#			
537.1		12/23/20	12/	23/20	1	Pr	rimary Lab	:	L2056342-02						
		12/20/20	12/	Subcontracted Lab:					L2056342-02						
									Resu	ıl <del>t</del> 1	Result <sup>2</sup>	MCL*	М	ור	MRL
CAS#			REGI	JLATED P	FAS CONTAM	IINA	NTS		ng/	-	Qualifier	ng/L		/L	ng/L
1763-23-	1 P	erfluorooctane	Sulfon	ic Acid (P	FOS)				NE	)			0.4	67	1.90
335-67-	1 P	erfluorooctano	ic Acid	(PFOA)					NE	)			0.5	92	1.90
355-46-4	4 P	erfluorohexan	e Sulfor	nic Acid (F	PFHxS)				NE	)			0.4	56	1.90
375-95-	1 <b>P</b>	erfluorononan	oic Aci	d (PFNA)					NE	)			0.4	52	1.90
375-85-9	9 <b>P</b>	erfluorohepata	noic A	cid (PFHp	A)				NE	)			0.2	247	1.90
335-76-2	2 <b>P</b>	erfluorodecan	oic acid	I (PFDA)					NE	)			0.6	12	1.90
		OS, PFOA, F													
		at or above thed by a Result		,			Results as	s =							
			UNREC	GULATED	PFAS CONTA	MIN	IANTS								
375-73-	5 <b>P</b>	erfluorobutane	sulfon	ic acid (Pl	FBS)				NE	)			0.2	270	1.90
307-55-	1 <b>P</b>	erfluorododec	anoic a	cid (PFDo	A)				NE	)			0.6	15	1.90
307-24-4	4 P	erfluorohexan	oic acid	I (PFHxA)					NE	)			0.2	250	1.90
376-06-	7 <b>P</b>	erfluorotetrade	ecanoic	acid (PFT	A)				NE	)			0.4	10	1.90
72629-94-8	8 <b>P</b>	erfluorotrideca	noic ac	id (PFTrD	A)				NE	)			0.4	82	1.90
2058-94-8	8 <b>P</b>	erfluoroundec	anoic a	cid (PFUn	A)				NE	)			0.4	-06	1.90
2991-50-0	6 <b>N</b>	-ethyl perfluor	ooctane	esulfonam	idoacetic acid	ı (NI	EtFOSAA)		NE	)			0.5	32	1.90
2355-31-9	9 <b>N</b>	-methyl perflu	oroocta	nesulfona	midoacetic ac	id (	NMeFOSAA	)	NE	)			0.5	70	1.90
763051-92-9	9 1	1-chloroeicosa	fluoro-	3-oxaunde	cane-1-sulfor	nic a	icid (11CI-PF	3OUdS)	NE	)			0.1	99	1.90
756426-58-	1 9	chlorohexade	cafluor	o-3-oxano	ne-1-sulfonic	acid	I (9CI-PF3ON	IS)	NE	)			0.2	261	1.90
919005-14-4	4 <b>4</b>	8-dioxa-3H-pe	rfluoror	nonanoic a	acid (ADONA)				NE	)			0.0	68	1.90
13252-13-6	6 <b>H</b>	exafluoroprop	vlene o	xide dime	r acid (HFPO-I	DA)			NE	)			0.4	29	3.80

<sup>&</sup>lt;sup>1</sup> A field reagent blank (FRB) must be analyzed and reported on a separate PFAS form if any PFAS are detected above the MRL. <sup>2</sup> All qualifiers must be described under Lab Analysis Comments on page 2.



**PFAS** 

### Per- and Polyfluoroalkyl Substances (PFAS) Report

Page 2 of 2

PWS ID#:	3315000
	00:000

Lab Sample ID#:

Primary Lab:	L2056342-02
Subcontracted Lab:	L2056342-02

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

Surrogate Name	% Recovery (70 – 130%)	Alternate Surrogate (must document reason for change)
<sup>13</sup> C <sub>2</sub> -PFHxA	85	
<sup>13</sup> C <sub>2</sub> -PFDA	78	
d₅-NEtFOSAA	84	
<sup>13</sup> C <sub>3</sub> -HFPO-DA	103	

	Note: <sup>13</sup> C <sub>3</sub> -HFPO-DA is not red	quired 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 extract	ction batch.
□ Laboratory and     □	alytical report with QC attached (check	one item belo	ow).		
	ociated QC criteria reported within contro Standards (SUR), Laboratory Fortified B				FRB),
	ociated sample and/or QC batch criteria	not met. See La	ab Analysis Comments below and na	arrative in attached rep	ort.
Lab Analysis Con	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 belo	w the quantitat	tion limit (RL), but above the Method	Detection Limit.	
Other Analysis Comments:					
* MCL or proposed M	1CL				
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 Wi	ukins
	extent of my knowledge.	70	Date:	1/6/202	21
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)				Писто
☐ Accepted	☐ Disapproved	Review Comments			☐ WQTS Data Entered



#### 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

te Collected Collected By  12/16/20 RB  t below: 2) Collection Date of Original Sample c a field reagent blank
12/16/20 RB t below:
t below: 2) Collection Date of Original Sample
2) Collection Date of Original Sample
•
a field reagent blank
s a field reagent blank
Subcontracted? (Y/N) Y
56342-03
56342-03
MCL* MDL MRL ng/L ng/L ng/L
0.452 1.84
0.574 1.84
0.441 1.84
0.438 1.84
0.239 1.84
0.592 1.84
0.261 1.84
0.596 1.84
0.242 1.84
0.397 1.84
0.467 1.84
0.394 1.84
0.515 1.84
0.515     1.84       0.552     1.84
0.515     1.84       0.552     1.84       0.193     1.84
0.515     1.84       0.552     1.84       0.193     1.84       0.253     1.84
0.515     1.84       0.552     1.84       0.193     1.84
١.

<sup>&</sup>lt;sup>1</sup> A field reagent blank (FRB) must be analyzed and reported on a separate PFAS form if any PFAS are detected above the MRL.

<sup>&</sup>lt;sup>2</sup> All qualifiers must be described under Lab Analysis Comments on page 2.



**PFAS** 

### Per- and Polyfluoroalkyl Substances (PFAS) Report

Page 2 of 2

PWS ID#: 3315000
------------------

Lab Sample ID#:

Primary Lab:	L2056342-03
Subcontracted Lab:	L2056342-03

		•				
CAS#	UNREGULATED PFAS CONTAMINANTS	Result <sup>1</sup> ng/L	Result <sup>2</sup> Qualifier	MCL * ng/L	MDL ng/L	MRL ng/L
				-		

Surrogate Name	% Recovery (70 – 130%)	Alternate Surrogate (must document reason for change)
<sup>13</sup> C <sub>2</sub> -PFHxA	92	
<sup>13</sup> C <sub>2</sub> -PFDA	80	
d₅-NEtFOSAA	89	
<sup>13</sup> C <sub>3</sub> -HFPO-DA	105	

	¹°C₃-HFPO-DA	105							
	Note: <sup>13</sup> C <sub>3</sub> -HFPC	D-DA is not requir	red for EP/	A Method 537 v1.1					
In addition to the SI	UR above you must attach	the results of the	ongoing (	QC results as specified by the method	for the sample's e	extraction batch.			
□ Laboratory ana	alytical report with QC att	ached (check or	ne item be	elow).					
				ing Lab Reagent/Method Blank (LRB) latrix Spike/Duplicate (LFSM/LFSMD		ank (FRB),			
	ociated sample and/or QC	batch criteria not	met. See	Lab Analysis Comments below and na	arrative in attached	d report.			
Lab Analysis Com	ments: (include sample/n	nethod parameter	rs outside	of or affecting QC controls/limits and i	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 at		Pr	imary Lab Director Signature:	Joseph	Weakins			
	ormation contained herein is to extent of my knowledge.	rue, accurate and		Date:		6/2021			
the month in whic Massachusetts	ch you received this report of the second of	<u>or</u> no later than 10	0 days afte	port to your MassDEP Regional Office er the end of the reporting period, whic ing by mail reports may be emailed to	chever is sooner. I	Note that during the			
MassDEP REVIEW	/ STATUS (Initial & Date)					Писто			
☐ Accepted	Disapproved		Review Comments			☐ WQTS Data Entered			



### Per- and Polyfluoroalkyl Substances (PFAS) Report

Page 1 of 2

I.	PWS INFOR	MATIO	N: Please	e refer	to your	MassDEP W	ater Quality S	ampling Sc	Schedule (WQSS) to help complete this form							
Ρ	WS ID #:	3	315000	)			Cit	y / Town:	WAYLAND							
Р	WS Name:	WAYLAND WATER DEPARTMENT								PW	/S Class:	COM	□ NTN	c [	TNC 🗌	
	MassDEP Location (LOC) ID#			MassDi	EP Locati	on Name		Sam	mple Information Date Collected Colle					ollected By		
	10002	CAMI	CAMPBELLWELL-FB □ (M)ult □ (S)ing							☐ ( <b>R</b> )	aw inished	12/16/	/20		RB	
S	Routine or pecial Sample		Original, Resubmitted or Confirmation Report (1) Reason for F								itted Repor			of O	riginal Sample	
Г	RS ⊠SS															
S	AMPLE COMME	NTS - Su	ch as, if a M	anifold/N	Multiple sa	mple, list the s	ource(s) that we	re on-line duri	ing sar	mple coll	ection or if th	nis is a field	reagent bla	ank		
II	. ANALYTICA	AL LAE	BORATOR	RY INF	ORMA	TION:										
Р	rimary Lab Ce	rt. #:	M-MA086	5	Primar	y Lab Name:	Alpha Ana	alytical				Sub	contract	ed?	(Y/N) Y	
Α	nalysis Lab Ce	ert. #:	M-MA030	)	Analysi	is Lab Name	: Alpha Ana	alytical								
If	Analysis Lab	is not c	ertified by	Massi	DEP or L	J.S.										
Ε	PA, list certific	cation a	uthority:													
	Lab Method	Ex	Date tracted		ate	Dilution Factor				La	b Sample II	Os#				
					-		Primary Lab	:				205634	2-04			
	537.1	12	12/23/20 12/23/20 1 Subcontracted Lab:							L2056342-04						
1										1	- 112					
	CAS#			REGU	ILATED P	FAS CONTAM	IINANTS		n	esult¹ ng/L	Result <sup>2</sup> Qualifier	MCL* ng/L	MDL ng/L		MRL ng/L	
	1763-23-1	Perfl	uorooctane	Sulfoni	ic Acid (P	FOS)				ND			0.468	3	1.90	
	335-67-1	Perfl	uorooctano	ic Acid	(PFOA)					ND			0.594	Ļ	1.90	
	355-46-4	Perfl	uorohexane	Sulfon	ic Acid (F	PFHxS)				ND			0.457	,	1.90	
	375-95-1	Perfl	uorononan	oic Acid	I (PFNA)					ND			0.594		1.90	
	375-85-9	Perfl	uorohepata	noic Ac	id (PFHp	A)				ND			0.248	3	1.90	
	335-76-2		uorodecano		• •				ı	ND			0.613	3	1.90	
	` Res	sults at o	or above th	e MRL	; do not i		FDA; only inclu ated Results a									
						PFAS CONTA										
Ì	375-73-5	Perfl	uorobutane	sulfoni	ic acid (PI	FBS)			1	ND			0.270	)	1.90	
	307-55-1	Perfl	uorododeca	anoic ac	id (PFDo	<b>A</b> )			ı	ND			0.617	,	1.90	
	307-24-4	Perfl	uorohexand	oic acid	(PFHxA)				-	ND			0.251		1.90	
	376-06-7	Perfl	uorotetrade	canoic	acid (PFT	-A)			-	ND			0.411		1.90	
	72629-94-8	Perfl	uorotrideca	noic ac	id (PFTrD	A)			ı	ND			0.484		1.90	
	2058-94-8	Perfl	uoroundeca	anoic ac	id (PFUn	<b>A</b> )			ı	ND			0.408	3	1.90	
	2991-50-6	N-eth	nyl perfluor	ooctane	sulfonam	idoacetic acid	(NEtFOSAA)		ı	ND			0.533	3	1.90	
	2355-31-9	N-me	ethyl perfluc	proocta	nesulfona	midoacetic ad	id (NMeFOSAA	)	ı	ND			0.571		1.90	
	763051-92-9	11-cl	nloroeicosa	fluoro-3	3-oxaunde	cane-1-sulfor	nic acid (11CI-PI	F3OUdS)	ı	ND			0.200	)	1.90	
	756426-58-1	9-chl	orohexadeo	cafluoro	-3-oxano	ne-1-sulfonic	acid (9CI-PF3OI	NS)	ı	ND			0.262	2	1.90	
	919005-14-4	4,8-d	lioxa-3H-pei	rfluoron	onanoic a	acid (ADONA)			ı	ND			0.068	3	1.90	
	40050 40 0		.C		tara atra		D.4.\			ND			0.400		0.04	

<sup>&</sup>lt;sup>1</sup> A field reagent blank (FRB) must be analyzed and reported on a separate PFAS form if any PFAS are detected above the MRL.

<sup>&</sup>lt;sup>2</sup> All qualifiers must be described under Lab Analysis Comments on page 2.



**PFAS** 

# Per- and Polyfluoroalkyl Substances (PFAS) Report

PWS ID#:	3315000

Lab Sample ID#:

Primary Lab:	L2056342-04
Subcontracted Lab:	1 2056342-04

		-			•	
CAS#	UNREGULATED PFAS CONTAMINANTS	Result <sup>1</sup> ng/L	Result <sup>2</sup> Qualifier	MCL * ng/L	MDL ng/L	MRL ng/L
				-		
		·				
		·				
		·				

Surrogate Name	% Recovery (70 – 130%)	Alternate Surrogate (must document reason for change)
<sup>13</sup> C <sub>2</sub> -PFHxA	88	
<sup>13</sup> C <sub>2</sub> -PFDA	70	
d₅-NEtFOSAA	88	
<sup>13</sup> C <sub>3</sub> -HFPO-DA	96	

	Surrogate Name	% Recovery (7	70 – 130%)	Alternate Surrogate (must document reason for ch	ange)	
	<sup>13</sup> C <sub>2</sub> -PFHxA	88				
	<sup>13</sup> C <sub>2</sub> -PFDA	70				
	d₅-NEtFOSAA	88				
	<sup>13</sup> C <sub>3</sub> -HFPO-DA	96				
	Note: <sup>13</sup> C <sub>3</sub> -HFP0	O-DA is not requ	uired for EPA	Method 537 v1.1		
In addition to the S	UR above you must attach	the results of th	ne ongoing C	C results as specified by the method f	or the sample's extra	action batch.
□ Laboratory and     □	alytical report with QC att	ached (check	one item be	low).		
				ng Lab Reagent/Method Blank (LRB), atrix Spike/Duplicate (LFSM/LFSMD o		(FRB),
	ociated sample and/or QC	batch criteria no	ot met. See L	ab Analysis Comments below and nar	rrative in attached rep	oort.
Lab Analysis Con	nments: (include sample/r	nethod paramet	ters outside o	of or affecting QC controls/limits and re	esult qualifiers)	
Result Qualifier	Qualifier Description	<u> </u>		·		
J	The target analyte conce	ntration is below	v the quantita	ation limit (RL), but above the Method I	Detection Limit.	
Other Analysis Comments:		ue to lack of ad	ditional sam	NMeFOSAA was below the acceptanc ole. The results of the original analysis		
* MCL or proposed M	1CL					
	es of law that I am the person a			mary Lab Director Signature:	Joseph a	Jackens
	ormation contained herein is t extent of my knowledge.	rue, accurate and	7	Date:	1/6/20	)21
the month in which	ch you received this report	<u>or</u> no later than	10 days afte	ort to your MassDEP Regional Office r or the end of the reporting period, which ng by mail reports may be emailed to p	hever is sooner. Note	that during the
MassDEP REVIEW	V STATUS (Initial & Date)					
	□ Disapproved		Review Comments			☐ WQTS Data Entered



#### 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 #:	3315000 City / Town:								WAYLAND							
PWS Name:		WAYLAN	D WA	TER DE	PARTMENT	Ī				PWS Class: COM  NTNC TNC						
MassDEP Location (LOC) ID#	MassDEP Location Name							Sam	mple Information			Date Colle	ected	c	Collected By	
20006	НА	PPY HOLI	_OW	WELLS				☐ ( <b>M</b> )ultip 図 ( <b>S</b> )ingle		] ( <b>R</b> )av ] ( <b>F</b> )in		12/16/	20		RB	
Routine or Special Sample				ıbmitted o	r		(1) F	Reason for Re			ed Report	, list below (2) Collec		te of O	riginal Sample	
□RS ⊠SS	$\boxtimes$	Original 🔲 R	esubmi	tted 🔲 C	onfirmation		Resample	Reanalysi	s 🔲 Rep	ort Co	rection	. ,				
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 Ce	rt. #:	M-MA08	6	Primar	y Lab Name:	:	Alpha Ana	lytical				Sub	contrac	cted?	(Y/N) Y	
Analysis Lab C	ert. #	: M-MA03	0	Analysi	is Lab Name	:	Alpha Ana	llytical								
lf Analysis I sh		t contifical by	. Mass	DED or I	1.6											
If Analysis Lab EPA, list certific			y iviass	DEP OF C	J.S.											
Lab Method		Date Extracted		Date alyzed	Dilution Factor					Lab	Sample II	Os#				
507.4		40/07/00	40	200/00		Pr	imary Lab		L2056342-05RE							
537.1		12/27/20	12/	28/20	1	Sı	ubcontract	ed Lab:	L2056342-05RE							
CAS#		REGULATED PFAS CONTAMINAN							Resul ng/L	-	Result <sup>2</sup> Qualifier	MCL* ng/L	MD ng/		MRL ng/L	
1763-23-1	P	erfluorooctan	Sulfor	nic Acid (P	FOS)				6.06				0.4	52	1.84	
335-67-1	P	erfluorooctan	oic Acid	I (PFOA)					7.68				0.57	73	1.84	
355-46-4	P	erfluorohexan	e Sulfo	nic Acid (F	PFHxS)				2.54				0.44	41	1.84	
375-95-1	P	erfluorononar	oic Aci	d (PFNA)					0.882	2	J		0.43	37	1.84	
375-85-9	) P	erfluorohepat	anoic A	cid (PFHp.	A)				3.01				0.23	39	1.84	
335-76-2	2 P	erfluorodecan	oic acid	l (PFDA)					ND				0.59	92	1.84	
	sults	FOS, PFOA, lat or above to ed by a Resul	ne MRI	₋; do not i	nclude estima	atec			19.3							
			UNRE	GULATED	PFAS CONTA	MIN	IANTS									
375-73-5	P	erfluorobutan	e sulfor	nic acid (P	FBS)				3.64				0.26	61	1.84	
307-55-1	P	erfluorododed	anoic a	cid (PFDo	<b>A</b> )				ND				0.59	95	1.84	
307-24-4	P	erfluorohexan	oic acid	l (PFHxA)					8.16				0.24	42	1.84	
376-06-7	P	erfluorotetrad	ecanoio	acid (PFT	A)				ND				0.39	97	1.84	
72629-94-8	P	erfluorotridec	anoic a	cid (PFTrD	A)				ND			_	0.46	67	1.84	
2058-94-8	P	erfluorounded	anoic a	cid (PFUn	A)				ND			_	0.39	93	1.84	
2991-50-6	N-	-ethyl perfluoi	ooctan	esulfonam	idoacetic acid	l (NI	EtFOSAA)		ND			_	0.5	15	1.84	
2355-31-9	N	-methyl perflu	oroocta	nesulfona	midoacetic ad	cid (	NMeFOSAA	)	ND				0.5	51	1.84	
763051-92-9	11	1-chloroeicos	afluoro-	3-oxaunde	ecane-1-sulfor	ic a	cid (11CI-PF	3OUdS)	ND				0.19	93	1.84	
756426-58-1		-chlorohexade	cafluor	o-3-oxano	ne-1-sulfonic	acid	I (9CI-PF3ON	NS)	ND				0.25	53	1.84	
919005-14-4		8-dioxa-3H-pe	rfluoro	nonanoic	acid (ADONA)				ND				0.06	66	1.84	
13252-13-6	H	exafluoroprop	ylene o	xide dime	r acid (HFPO-	DA)			ND				0.4	15	3.68	

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

<sup>&</sup>lt;sup>2</sup> All qualifiers must be described under Lab Analysis Comments on page 2.

**PFAS** 

☐ WQTS Data Entered

### Per- and Polyfluoroalkyl Substances (PFAS) Report

Page 2 of 2

PWS ID#:	3315000

Lab Sample ID#:

Primary Lab:	L2056342-05RE
Subcontracted Lab:	L2056342-05RE

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

Surrogate Name	% Recovery (70 – 130%)	Alternate Surrogate (must document reason for change)
<sup>13</sup> C <sub>2</sub> -PFHxA	88	
<sup>13</sup> C <sub>2</sub> -PFDA	82	
d₅-NEtFOSAA	90	
<sup>13</sup> C <sub>3</sub> -HFPO-DA	83	

	<sup>13</sup> C <sub>3</sub> -HFPO-DA	83										
Note: $^{13}\text{C}_3\text{-HFPO-DA}$ is not required for EPA Method 537 v1.1												
In addition to the St	JR 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 Com	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:	L2056342-05RE: The extraction. The result		racted within holding time due t n are reported.	o QC failures in the original								
* MCL or proposed M	CL											
I certify under penaltie	s of law that I am the person a rmation contained herein is t		Primary Lab Director Signature:	Joseph Weakons								
	xtent of my knowledge.		Date:	1/6/2021								
the month in whic	h you received this report	<u>or</u> no later than 10 days a	eport to your MassDEP Regional Office fter the end of the reporting period, whi itting by mail reports may be emailed to	chever is sooner. Note that during the								

Review

Comments

Rev. 9/9/2020

MassDEP REVIEW STATUS (Initial & Date)



### 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	chedule (W	QSS) to hel	p complet	te this form			
PWS ID #:	331500	City	y / Town:	WAYLA	ND							
PWS Name:	WAYLANI	Ī		] P\	WS Class:	СОМ	☐ NTNC	☐ TNC ☐				
MassDEP Location (LOC) ID#			Sample Information			Date Collected		Collected By				
20006	HAPPY HOLL	OW WELLS		☐ ( <b>M</b> )ultip ☑ ( <b>S</b> )ingl		t)aw i)inished	12/16/	/20	RB			
Routine or Special Sample		al, Resubmitted o	r	(1) E	Reason for Re		nitted Report	·		Original Sample		
□ RS ⊠ SS	☑ Original ☐ Re	•	onfirmation	Resample				(2) 00116	ction bate of	Original Cample		
SAMPLE COMME	NTS - Such as, if a M	Manifold/Multiple sa	ample, list the s	ource(s) that we	re on-line duri	ing sample co	llection or if the	nis is a field	reagent blank			
II. ANALYTICA	AL LABORATO	RY INFORMA	TION:									
Primary Lab Ce	rt. #: M-MA08	6 Primar	y Lab Name:	Alpha Ana	alytical			Sub	contracted	? (Y/N) Y		
Analysis Lab Co	ert. #: M-MA03	0 Analys	is Lab Name	: Alpha Ana	alytical							
If Analysis Lab	is not certified by	/ MassDEP or l	J.S.									
	ation authority:	,										
Lab Method	Date	Date	Dilution				ah Sampla II	)o#				
Lab Method	Extracted	Analyzed	Factor		T	<b>-</b>	ab Sample II		2.06			
537.1	12/23/20	Primary Lab		L2056342-06 L2056342-06								
				Subcontract	ibcontracted Lab:				12030342-00			
CAS#		REGULATED F	PFAS CONTAM	IINANTS		Result <sup>1</sup> ng/L	Result <sup>2</sup> Qualifier	MCL* ng/L	MDL ng/L	MRL ng/L		
1763-23-1	Perfluorooctane	Sulfonic Acid (P	PFOS)			ND			0.466	1.89		
335-67-1	Perfluorooctano	oic Acid (PFOA)				ND			0.591	1.89		
355-46-4	Perfluorohexan	e Sulfonic Acid (F	PFHxS)			ND			0.454	1.89		
375-95-1	Perfluorononan	oic Acid (PFNA)				ND			0.451	1.89		
375-85-9	Perfluorohepata	anoic Acid (PFHp	<b>A</b> )			ND			0.246	1.89		
335-76-2		. ,				ND			0.610	1.89		
Res	of PFOS, PFOA, F sults at or above th scribed by a Result	ne MRL; do not i	nclude estima	ated Results as								
		UNREGULATED	PFAS CONTA	MINANTS			_					
375-73-5	Perfluorobutane	e sulfonic acid (P	FBS)			ND			0.269	1.89		
307-55-1	Perfluorododec	anoic acid (PFDo	A)			ND			0.613	1.89		
307-24-4	Perfluorohexan	oic acid (PFHxA)				ND			0.249	1.89		
376-06-7	Perfluorotetrade	ecanoic acid (PF	ΓΑ)			ND			0.409	1.89		
72629-94-8	Perfluorotrideca	anoic acid (PFTrD	OA)			ND			0.481	1.89		
2058-94-8	Perfluoroundec	anoic acid (PFUn	A)			ND			0.405	1.89		
2991-50-6	N-ethyl perfluor	ooctanesulfonan	nidoacetic acid	(NEtFOSAA)		ND			0.530	1.89		
2355-31-9	N-methyl perflu	orooctanesulfona	amidoacetic ac	cid (NMeFOSAA	)	ND			0.568	1.89		
763051-92-9	11-chloroeicosa	afluoro-3-oxaunde	ecane-1-sulfor	nic acid (11CI-PI	F3OUdS)	ND			0.199	1.89		
756426-58-1	9-chlorohexade	cafluoro-3-oxano	ne-1-sulfonic	acid (9CI-PF3OI	NS)	ND			0.260	1.89		
919005-14-4	4,8-dioxa-3H-pe	rfluorononanoic	acid (ADONA)			ND			0.068	1.89		
13252-13-6	Hexafluoroprop	ylene oxide dime	r acid (HFPO-I	DA)		ND			0.428	3.79		

<sup>&</sup>lt;sup>1</sup> A field reagent blank (FRB) must be analyzed and reported on a separate PFAS form if any PFAS are detected above the MRL. <sup>2</sup> All qualifiers must be described under Lab Analysis Comments on page 2.



**PFAS** 

### Per- and Polyfluoroalkyl Substances (PFAS) Report

PWS ID#:	3315000

Lab Sample ID#:

Primary Lab:	L2056342-06
Subcontracted Lab:	L2056342-06

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

Surrogate Name	% Recovery (70 – 130%)	Alternate Surrogate (must document reason for change)
<sup>13</sup> C <sub>2</sub> -PFHxA	75	
<sup>13</sup> C <sub>2</sub> -PFDA	64	
d₅-NEtFOSAA	78	
<sup>13</sup> C <sub>3</sub> -HFPO-DA	87	

	Surrogate Name	% Recovery (70	0 – 130%)	(must document reason for ch	ange)						
	<sup>13</sup> C <sub>2</sub> -PFHxA	75									
	<sup>13</sup> C <sub>2</sub> -PFDA	64									
	d₅-NEtFOSAA	78									
	<sup>13</sup> C <sub>3</sub> -HFPO-DA	87									
	Note: <sup>13</sup> C <sub>3</sub> -HFP0	D-DA is not requ	ired 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 ana	lytical report with QC att	ached (check o	ne item bel	ow).							
	☐ 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.										
	ociated sample and/or QC	batch criteria no	t met. See L	ab Analysis Comments below and nar	rative in attached rep	ort.					
Lab Analysis Com	ments: (include sample/r	nethod paramete	ers outside o	f or affecting QC controls/limits and re	sult qualifiers)						
Result Qualifier	Qualifier Description	·		-							
J	The target analyte conce	ntration is below	the quantita	tion limit (RL), but above the Method I	Detection Limit.						
Other Analysis Comments:		rformed due to lacl	k of additional	eptance criteria for perfluoro-n-[1,2-13c2]de sample. The results of the original analysis							
* MCL or proposed M	CL										
	s of law that I am the person a	uthorized to fill out	Pri	mary Lab Director Signature:	Joseph W.	cukins					
this form and the info	ormation contained herein is textent of my knowledge.			Date:	1/6/202						
complete to the best e	Atom of my knowledge.			Date	1/0/202						
the month in whic	h you received this report	<u>or</u> no later than :	10 days after	ort to your MassDEP Regional Office r the end of the reporting period, which g by mail reports may be emailed to p	never is sooner. Note	that during the					
MassDEP REVIEW	STATUS (Initial & Date)										
☐ Accepted	Disapproved		Review Comments			☐ WQTS Data Entered					



#### Per- and Polyfluoroalkyl Substances (PFAS) Report

Page 1 of 2

I.	PWS INFOR	MATION: Pleas	e refer to your	MassDEP Wa	ater	Quality S	ampling So	chedu	ule (WQ	SS) to hel	p comple	te this f	orm		
P	WS ID #:	331500		City / Town: WAYLAND											
P	WS Name:	WAYLANI	Γ				PW	/S Class:	: COM   NTNC   TNC						
	MassDEP Location (LOC) ID#			Sample Information			on	Date Coll	ected	c	Collected By				
	20005	BALDWIN PC	ND			☐ ( <b>M</b> )ulti 図 ( <b>S</b> )ingl		☐ ( <b>R</b> )	aw inished	12/16	/20		RB		
S	Routine or pecial Sample	Origina Conf		(1) E	Reason for R			itted Repor			to of O	riginal Sample			
	RS SS	☑ Original ☐ Re	•	onfirmation		. ,	Reanalys			orrection	(2) Cone	Cuon Da	le oi o	nginai Sampie	=
S	AMPLE COMME	NTS - Such as, if a M	lanifold/Multiple sa	ample, list the s	ource	(s) that wer	e on-line duri	ing sa	mple coll	ection or if th	nis is a field	reagent b	olank		
II	I. ANALYTICA	AL LABORATOI	RY INFORMA	TION:											Ī
Р	rimary Lab Ce	rt. #: M-MA086	6 Primar	y Lab Name:	: [	Alpha Ana	lytical				Sub	contrac	ted?	(Y/N) Y	=
Α	analysis Lab Ce	ert. #: M-MA030	Analys	is Lab Name	: [	Alpha Ana	lytical								_
14	· Analysis I ah	is not certified by	MassDED or I	16	Ē										
		cation authority:	, Massber of C	7.0.											
	Lab Method	_ Date	Date Analyzed	Dilution					La	b Sample II	Os#				
		Extracted	Factor	Pri						2056342-07RE					
	537.1	12/27/20 12/28/20 1									.2056342-07RE				_
											1				 1
	CAS#		REGULATED P	FAS CONTAM	IINAN	ITS			esult <sup>1</sup> ng/L	Result <sup>2</sup> Qualifier	MCL* ng/L	MD ng/		MRL ng/L	
	1763-23-1	Perfluorooctane	Sulfonic Acid (P	FOS)				,	1.22	J		0.44	12	1.80	١
	335-67-1	Perfluorooctano	oic Acid (PFOA)					2	2.55			0.56	60	1.80	Î
	355-46-4	Perfluorohexan	e Sulfonic Acid (F	PFHxS)				0	.790	J		0.43	31	1.80	I
	375-95-1	Perfluorononan	oic Acid (PFNA)						ND			0.42	28	1.80	
	375-85-9	Perfluorohepata	noic Acid (PFHp	A)					1.26	J		0.23	34	1.80	
	335-76-2	Perfluorodecane	oic acid (PFDA)						ND			0.57	78	1.80	
	Res	of PFOS, PFOA, F sults at or above th scribed by a Result	ne MRL; do not i	nclude estima	ated	; only inclu Results as	ide s =	2	2.55						
			UNREGULATED	•		ANTS					_	'	'		l
	375-73-5	Perfluorobutane	sulfonic acid (P	FBS)				,	1.47	J		0.25	55	1.80	1
	307-55-1	Perfluorododec	anoic acid (PFDo	A)					ND			0.58	32	1.80	İ
	307-24-4	Perfluorohexan	oic acid (PFHxA)					2	2.51			0.23	36	1.80	İ
	376-06-7	Perfluorotetrade	ecanoic acid (PF1	Γ <b>A</b> )					ND			0.38	38	1.80	Î
	72629-94-8	Perfluorotrideca	anoic acid (PFTrD	)A)					ND			0.45	56	1.80	Ĭ
	2058-94-8	Perfluoroundec	anoic acid (PFUn	A)					ND			0.38	34	1.80	I
	2991-50-6	N-ethyl perfluor	ooctanesulfonam	nidoacetic acid	(NE	tFOSAA)			ND			0.50	03	1.80	
	2355-31-9	N-methyl perflu	orooctanesulfona	midoacetic ac	cid (N	MeFOSAA	)		ND			0.53	39	1.80	
	763051-92-9	11-chloroeicosa	fluoro-3-oxaunde	ecane-1-sulfon	nic ac	id (11CI-PF	3OUdS)		ND			0.18	39	1.80	
	756426-58-1	9-chlorohexade	cafluoro-3-oxano	ne-1-sulfonic	acid (	(9CI-PF3ON	NS)		ND			0.24	47	1.80	
	919005-14-4	4,8-dioxa-3H-pe	rfluorononanoic	acid (ADONA)					ND			0.06	64	1.80	
	13252-13-6	Havafluoroprop	vlene ovide dime	r acid (HFPO-I	ΠΔΙ			1	ND	1		0.40	าด	3 50	1

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

<sup>&</sup>lt;sup>2</sup> All qualifiers must be described under Lab Analysis Comments on page 2.

**PFAS** 

### Per- and Polyfluoroalkyl Substances (PFAS) Report

PWS ID#:	3315000

Lab Sample ID#:

Primary Lab:	L2056342-07RE
Subcontracted Lab:	L2056342-07RE

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

Surrogate Name	% Recovery (70 – 130%)	Alternate Surrogate (must document reason for change)
<sup>13</sup> C <sub>2</sub> -PFHxA	101	
<sup>13</sup> C <sub>2</sub> -PFDA	96	
d₅-NEtFOSAA	93	
<sup>13</sup> C <sub>3</sub> -HFPO-DA	94	

Note: 13C<sub>2</sub>-HEPO-DA is not required for EPA Method 537 v1.1

	Note. **C <sub>3</sub> -HFPO-DA is not req	ulled for EPA	Metriod 537 VI.I				
In addition to the S	SUR above you must attach the results of t	the ongoing Q0	results as specified by the method	for the sample's extract	ction batch.		
□ Laboratory ana	alytical report with QC attached (check	one item belo	ow).				
	ociated QC criteria reported within control Standards (SUR), Laboratory Fortified Bl				(FRB),		
⊠ All ass	ociated sample and/or QC batch criteria n	ot met. See La	ab Analysis Comments below and na	arrative in attached rep	ort.		
Lab Analysis Con	nments: (include sample/method parame	eters outside of	or affecting QC controls/limits and	result qualifiers)			
Result Qualifier	Qualifier Description						
J	The target analyte concentration is below	w the quantitat	ion limit (RL), but above the Method	Detection Limit.			
Other Analysis Comments:	L2056342-07RE: The sample was re-ex re-extraction are reported.	tracted within l	holding time due to QC failures in th	e original extraction. Th	ne results of the		
* MCL or proposed M	1CL						
I certify under penaltie	es of law that I am the person authorized to fill o	ut Prin	nary Lab Director Signature:	Joseph Wi	ackins		
	ormation contained herein is true, accurate an extent of my knowledge.	ıd	Date:	1/6/2021			
the month in which Massachusetts	hese results electronically, mail <u>TWO</u> cop. ch you received this report <u>or</u> no later than s COVID-19 state of emergency, in additio	n 10 days after	the end of the reporting period, whi	chever is sooner. Note	that during the		
MassDEP REVIEW	V STATUS (Initial & Date)						
	□ Disapproved	Review Comments			☐ WQTS Data Entered		



### 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 #:		3315000 City / Town:						WAYLA	AND							
PWS Name:		WAYLANI	WA1	TER DEI	PARTMENT	Γ			F	WS Class	: COM	□ NT	NC [	☐ TNC ☐		
MassDEP Location (LOC) ID#			MassD	EP Locati	on Name			Sam	nple Inform	ation	Date Collected		c	Collected By		
20005	BA	LDWIN PC	ND-F	В				☐ ( <b>M</b> )ultip ☑ ( <b>S</b> )ingle	· · · ·	R)aw F)inished	12/16	/20		RB		
Routine or		Original, Resubmitted or							mitted Repo							
Special Sample		·					Reason for Re			(2) Colle	ction Da	te of O	riginal Sample			
☐ RS ☐ SS		☐ Original ☐ Resubmitted ☐ Confirmation ☐ Resample ☐ Reanaly  ITS - Such as, if a Manifold/Multiple sample, list the source(s) that were on-line du									this is a field	raaganti	alank			
SAMPLE COMME	N13 -	Such as, ii a iv	iamioiu/	iviuitipie sa	imple, list the s	ourc	e(s) that wer	e on-line dun	ng sample c	conection of it	unis is a neiu	reagent	Jiank			
II. ANALYTIC	AL L	ABORATO	RY INF	FORMA <sup>*</sup>	TION:											
Primary Lab Ce	ert. #:	M-MA086	3	Primar	y Lab Name:	:	Alpha Ana	lytical			Sub	contrac	ted?	(Y/N) Y		
Analysis Lab C	ert.#	: M-MA030	)	Analysi	s Lab Name	:	Alpha Ana	lytical								
If Analysis I ah	is no	t certified by	Mass	DFP or l	ıs											
			muoo	J 0. 0												
Lah Mothod		Date	C	Date	Dilution					I ah Samplo	IDe#					
Lab Metriou		Extracted	Ana	alyzed	Factor					Lab Sample		0.00				
537.1		12/23/20	12/2	23/20	1											
						Sı	ubcontract	ed Lab:	L2056342-08							
CAS#			REGU	JLATED P	FAS CONTAM	/INA	NTS		Result <sup>1</sup> ng/L	Result <sup>2</sup> Qualifier	MCL* ng/L	MD ng/		MRL ng/L		
1763-23-	1 Pe	REGULATED PFAS CONTAMINAL Perfluorooctane Sulfonic Acid (PFOS)						ND			0.482		1.96			
335-67-	1 Pe	erfluorooctano	ic Acid	(PFOA)					ND			0.612		1.96		
355-46-4	Perfluorooctane Sulfonic Acid (PFOS)  Perfluorooctanoic Acid (PFOA)  Perfluorohexane Sulfonic Acid (PFHxS)  Perfluorononanoic Acid (PFNA)							ND			0.471		1.96			
375-95-	1 <b>P</b> e	erfluorononan	oic Acid	d (PFNA)					ND			0.467		1.96		
375-85-9	9 <b>P</b> e	Perfluorononanoic Acid (PFNA)							ND			0.255		1.96		
335-76-2	2 <b>P</b>	Perfluorooctane Sulfonic Acid (PFOS)  Perfluorooctanoic Acid (PFOA)  Perfluorohexane Sulfonic Acid (PFHxS)  Perfluorononanoic Acid (PFNA)  Perfluorohepatanoic Acid (PFHpA)  Perfluorodecanoic acid (PFDA)  PFOS, PFOA, PFHxS, PFNA, PFHpA and PFE ts at or above the MRL; do not include estimate ibed by a Result Qualifier in the next column)							ND			0.632		1.96		
335-76-2 Perfluorodecanoic acid (PFDA)  PFAS6 (sum of PFOS, PFOA, PFHxS, PFNA, PFHpA and PFDA; only include Results at or above the MRL; do not include estimated Results as																
If Analysis Lab is not certified by MassDEP or U.S. EPA, list certification authority:  Lab Method  Date Extracted  Analyzed  Factor  537.1  12/23/20  12/23/20  1  CAS#  REGULATED PFAS CONTAM  1763-23-1  Perfluorooctane Sulfonic Acid (PFOS)  335-67-1  Perfluorooctanoic Acid (PFOA)  355-46-4  Perfluorohexane Sulfonic Acid (PFNA)  375-85-9  Perfluorohepatanoic Acid (PFNA)  335-76-2  Perfluorohepatanoic Acid (PFDA)  PFAS6 (sum of PFOS, PFOA, PFHxS, PFNA, PFHpA and Pf Results at or above the MRL; do not include estimates described by a Result Qualifier in the next column)  UNREGULATED PFAS CONTAM  375-73-5  Perfluorobutane sulfonic acid (PFDA)  375-73-5  Perfluorobutane sulfonic acid (PFDA)  375-73-5  Perfluorobutane sulfonic acid (PFDA)  376-06-7  Perfluorotetradecanoic acid (PFTA)  72629-94-8  Perfluorotridecanoic acid (PFTDA)  2058-94-8  Perfluoroundecanoic acid (PFUNA)  2991-50-6  N-ethyl perfluorooctanesulfonamidoacetic acid						Results as	s =									
		Its at or above the MRL; do not include estimated Reibed by a Result Qualifier in the next column)  UNREGULATED PFAS CONTAMINAN				IANTS										
375-73-	5 <b>P</b> 6	erfluorobutane	sulfon	ic acid (P	FBS)				ND			0.27	78	1.96		
307-55-	1 <b>P</b> e	erfluorododec	anoic a	cid (PFDo	A)				ND			0.63	35	1.96		
307-24-4	4 P	erfluorohexan	oic acid	(PFHxA)					ND			0.2	58	1.96		
376-06-7	7 P	#: M-MA086 Primary Lab Name: Alph #: M-MA030 Analysis Lab Name: Alph not certified by MassDEP or U.S. In Date Date Pactor    Date Extracted Analyzed Factor						ND			0.42	24	1.96			
72629-94-8	B <b>P</b> (	Perfluorotetradecanoic acid (PFTA)  Perfluorotridecanoic acid (PFTrDA)						ND			0.49	98	1.96			
2058-94-8	Confirmation Report  Contiginal Resubmitted Confirmation  MENTS - Such as, if a Manifold/Multiple sample, list the social Cert. #: M-MA086 Primary Lab Name:  Cert. #: M-MA086 Primary Lab Name:  Cert. #: M-MA086 Primary Lab Name:  Cert. #: M-MA030 Analysis Lab Name:  Ib is not certified by MassDEP or U.S.  Iffication authority:  Date Extracted Analyzed Factor  12/23/20 12/23/20 1  REGULATED PFAS CONTAMII  3-1 Perfluorooctane Sulfonic Acid (PFOS)  7-1 Perfluorooctane Sulfonic Acid (PFNA)  3-2 Perfluorohexane Sulfonic Acid (PFNA)  3-3 Perfluorodecanoic Acid (PFNA)  3-4 Perfluorodecanoic acid (PFDA)  Im of PFOS, PFOA, PFHxS, PFNA, PFHpA and PF  Results at or above the MRL; do not include estimate described by a Result Qualifier in the next column)  UNREGULATED PFAS CONTAM  3-5 Perfluorobutane sulfonic acid (PFDA)  3-6 Perfluorotetradecanoic acid (PFDA)  3-7 Perfluorotetradecanoic acid (PFTA)  3-8 Perfluorotetradecanoic acid (PFTA)  3-9 Perfluorotetradecanoic acid (PFTA)  3-1 Perfluorotetradecanoic acid (PFTA)  3-1 Perfluorotetradecanoic acid (PFTA)  3-2 Perfluorotetradecanoic acid (PFTA)  3-3 Perfluorotetradecanoic acid (PFTA)  3-4 Perfluorotetradecanoic acid (PFTA)  3-5 Perfluorotetradecanoic acid (PFTA)  3-6 Perfluorotetradecanoic acid (PFTA)  3-7 Perfluorotetradecanoic acid (PFTA)  3-8 Perfluorotetradecanoic acid (PFTA)  3-9 Perfluorotetradecanoic acid (PFTA)  3-1 Perfluorotetradecanoic acid (PFTA)  3-2 Perfluorotetradecanoic acid (PFTA)  3-3 Perfluorotetradecanoic acid (PFTA)  3-4 Perfluorotetradecanoic acid (PFTA)  3-5 Perfluorotetradecanoic acid (PFTA)  3-6 Perfluorotetradecanoic acid (PFTA)  3-7 Perfluorotetradecanoic acid (PFTA)  3-8 Perfluorotetradecanoic acid (PFTA)  3-9 Perfluorotetradecanoic acid (PFTA)  3-1 Perfluorotetradecanoic acid (PFTA)  3-2 Perfluorotetradecanoic acid (PFTA)  3-3 Perfluorotetradecanoic acid (PFTA)  3-4 Perfluorotetradecanoic acid (PFTA)  3-5 Perfluorotetradecanoic acid (PFTA)  3-6 Perfluorotetradecanoic acid (PFTA)  3-7 Perfluorotetradecanoic acid (PFTA)  3-8 Perfluorotetradecano							ND			0.42	20	1.96			
Lab Method  Date Extracted  Analyzed  Date Factor  12/23/20  12/23/20  12/23/20  12/23/20  12/23/20  12/23/20  Primary Lab: Subcontracte  REGULATED PFAS CONTAMINANTS  1763-23-1  Perfluorooctane Sulfonic Acid (PFOS)  335-67-1  Perfluorohexane Sulfonic Acid (PFHAS)  375-95-1  Perfluorohexane Sulfonic Acid (PFHAA)  375-85-9  Perfluorohepatanoic Acid (PFDA)  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)  UNREGULATED PFAS CONTAMINANTS  375-73-5  Perfluorobutane sulfonic acid (PFDA)  307-24-4  Perfluorohexanoic acid (PFDA)  307-24-4  Perfluorotetradecanoic acid (PFTA)  72629-94-8  Perfluorotridecanoic acid (PFTDA)  2058-94-8  Perfluoroundecanoic acid (PFUNA)  N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)  2355-31-9  N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)  763051-92-9  11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (9CI-PF3ON)						ND			0.54	49	1.96					
2355-31-9	375-85-9 Perfluorohepatanoic Acid (PFHpA)  335-76-2 Perfluorodecanoic acid (PFDA)  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)  UNREGULATED PFAS CONTAMINANTS  375-73-5 Perfluorobutane sulfonic acid (PFBS)  307-55-1 Perfluorododecanoic acid (PFDoA)  307-24-4 Perfluorohexanoic acid (PFHxA)  376-06-7 Perfluorotetradecanoic acid (PFTA)  72629-94-8 Perfluorotridecanoic acid (PFTDA)  2058-94-8 Perfluoroundecanoic acid (PFUnA)  2991-50-6 N-ethyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)  763051-92-9 11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3C					)	ND			0.58	38	1.96				
763051-92-9	9 11	l-chloroeicosa	fluoro-	3-oxaunde	ecane-1-sulfor	nic a	cid (11CI-PF	3OUdS)	ND			0.20	06	1.96		
756426-58-	1 9-	chlorohexade	cafluor	o-3-oxano	ne-1-sulfonic	acio	I (9CI-PF3ON	IS)	ND			0.27	70	1.96		
919005-14-4	4 <b>4</b> ,	8-dioxa-3H-pe	rfluoror	nonanoic	acid (ADONA)				ND			0.0	70	1.96		
13252-13-6	6 H	exafluoroprop	vlene o	xide dime	r acid (HFPO-	DA)			ND			0.44	43	3.92		

<sup>&</sup>lt;sup>1</sup> A field reagent blank (FRB) must be analyzed and reported on a separate PFAS form if any PFAS are detected above the MRL. <sup>2</sup> All qualifiers must be described under Lab Analysis Comments on page 2.



**PFAS** 

Data Entered

# Per- and Polyfluoroalkyl Substances (PFAS) Report

D14/0 ID#	0045000
PWS ID#:	3315000

Lab Sample ID#:

Primary Lab:	L2056342-08
Subcontracted Lab:	L2056342-08

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

Surrogate Name	% Recovery (70 – 130%)	Alternate Surrogate (must document reason for change)
<sup>13</sup> C <sub>2</sub> -PFHxA	90	
<sup>13</sup> C <sub>2</sub> -PFDA	88	
d₅-NEtFOSAA	79	
<sup>13</sup> C <sub>3</sub> -HFPO-DA	107	

	Note. C3-III FO-DA IS NOT TEQ	ulled for Li A	welliou 337 VI.I	
In addition to the S	SUR above you must attach the results of t	he ongoing Q0	results as specified by the method	for the sample's extraction batch.
⊠ Laboratory and	alytical report with QC attached (check	one item belo	w).	
	sociated QC criteria reported within control e Standards (SUR), Laboratory Fortified Bla			
	sociated sample and/or QC batch criteria n	ot met. See La	b Analysis Comments below and na	arrative in attached report.
Lab Analysis Con	mments: (include sample/method parame	ters outside of	or affecting QC controls/limits and r	esult qualifiers)
Result Qualifier	Qualifier Description			
J	The target analyte concentration is below	w the quantitat	ion limit (RL), but above the Method	Detection Limit.
Other Analysis Comments:				
* MCL or proposed M	MCL			
	es of law that I am the person authorized to fill ou formation contained herein is true, accurate an		nary Lab Director Signature:	Joseph Wowkens
	extent of my knowledge.		Date:	1/6/2021
the month in which	these results electronically, mail <u>TWO</u> copi ich you received this report <u>or</u> no later than ts COVID-19 state of emergency, in additio	n 10 days after	the end of the reporting period, which	chever is sooner. Note that during the
MassDEP REVIEW	V STATUS (Initial & Date)			
1		Review		│

Comments

Rev. 9/9/2020

ДІРНА	CHAIN OF C	USTO	DY	PAGE_	OF /	D	ate Re	c'd in t	ab:	12/	6/2	020		1	ALPI	HA Job#: L2056342	
WESTBORO, MA TEL: 508-898-9220	MANSFIELD, MA TEL: 508-822-9300	ect Inform	ation	to a	S COLUMN	-	-	Infor	_						-	ng Information	n fine
FAX: 508-898-9193	FAX: 508-822-3288 Proje	ect Name:					□ FAX		-	EMAIL		1000				ne as Client info PO#:	
Client Informat	F10)6	ect Location:				ı	ADE	(		Add'l D	elivera	bles		F		to do chort tho PO#.	
Client: Way a	nd writer Dept. Project 1d Sudbing Rd Project MA 01778 ALPH	ct #:						ory Re		ments	Repo	rt Li	mits				
Address: [0] O	ld Sidbing Rd Proje	ct Manager:				Sta	ite /Fed	l Progr	am		C	riteria			manage of the last		
wayland	MA 01778 ALPI	HA Quote #:				000	1000	(billion	2010	(all le	C/THE	No to	Allen		Design .	000001020000000000000000000000000000000	
Phone: (508)		n-Around T	ime		11 (11)		A 185	<b>SIL</b> 10	3-		1	grille.		T AL			
Fax: (508)	358 - 5325	-11															
per la la la la la la la la la la la la la	illette @ wayland me us Date		⊔ RUSH <sub>(w</sub>	Ny contimed if pre-	aprived)		7	7	7	7	7	1	7	7	7	7 7 7	_
These samples h	have been previously analyzed by Alpha Specific Requirements/Comments/			Time:			3/8			/ /		/	1	/		SAMPLE HANDLING	
ALPHA Lab ID		Col	lection	Sample		]/.	2.537.1		//	//	/	/,	/,	/,	//	Done Not needed Lab to do Preservation Lab to do	
(Lab Use Only)	Sample ID	Date	Time	Matrix	Sampler' Initials	s/ S	7 ,	/ /	1		/ /	/	1		/	Sample Specific Comments	4
56342-01	Chambertain nell	12-16-20	7:55	DW	RB	\$							Ť			Surpre opecine continents	
02	Chamberlain - Field Blank	12-16-20	7:55		RB	₽							1	T			+
03	Camplel hell	12-16-20	-	Dw	PB			$\top$			+		+				+
04	Campbell-Field Blank	12-16-10	1 3		RB			$\pm$	+		+	+	+	-			ł
05	Happy Hollow werls	12-16-20		DW				+	+		+	+	+	-			+
06	Happy Hollow Field Slank			0.4	143			+	+		+	+	₩				1
07	Baldwin Pond	12-16-16		Div	143		+		+	-	+	+	-	H			L
08	baldum fond-Freld Blank				23		+	+		-	+	+			-		-
					1 12		+	+		+	+	+	-		-		L
						H	+	+		-	+	+			-		L
			г	Contr		0	_	_				-					
				1,000	iner Type	P	+	+		-	-	-			_	Please print clearly, legibly and co	om-
	Relinq	uished By:			/Time	-		Receiv	ed Rv			-	Date/	Time	4	pletely. Samples can not be logge in and turnaround time clock will r	ton
	7000-11	Dame	NA.	12-16-20	1110	90	ugh	-00	106	A.H	1 1	-	020		10	start until any ambiguities are resc All samples submitted are subject Alpha's Terms and Conditions.	to
IM NO: 01-01 (rev. 14-0)	CT-07)	100	1704	16460	TI DE	4	glat	try	~	1	in	12/	161	2010	1156	See reverse side.	
	to Berro	AGL	1-111	12/16/2	0 1614	6	010	Dur	141		16/2		16/2		00		