



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 #: **3315000** City / Town: **WAYLAND**
 PWS Name: **WAYLAND WATER DEPARTMENT** PWS Class: COM ☒ NTNC ☐ TNC ☐

MassDEP LOCATION (LOC) ID#	MassDEP Location Name	Sample Information		Date Collected	Collected By
20005	BALDWIN POND WTP - FINISHED	<input checked="" type="checkbox"/> (M)ultiple <input type="checkbox"/> (S)ingle	<input type="checkbox"/> (R)aw <input checked="" type="checkbox"/> (F)inished	3/11/20	J. Worthington
Routine or Special Sample	Original, Resubmitted or Confirmation Report	If Resubmitted Report, list below:			
<input type="checkbox"/> RS <input checked="" type="checkbox"/> SS	<input checked="" type="checkbox"/> Original <input type="checkbox"/> Resubmitted <input type="checkbox"/> Confirmation	(1) Reason for Resubmission		(2) Collection Date of Original Sample	
		<input type="checkbox"/> Resample <input type="checkbox"/> Reanalysis <input type="checkbox"/> Report Correction			
SAMPLE NOTES – Such as, if a Manifold/Multiple sample, list the source(s) that were on-line during sample collection.					

II. ANALYTICAL LABORATORY INFORMATION:

Primary Lab Cert. #: **M-MA1118** Primary Lab Name: **NASHOBA ANALYTICAL** Subcontracted? (Y/N) **Y**

Analysis Lab Cert. #: **M-MA030** Analysis Lab Name: **ALPHA MANSFIELD**

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

Lab Method	Date Extracted	Date Analyzed	Dilution Factor	Lab Sample ID#	LAB SAMPLE NOTES - Include information affecting sample analysis or quality control.
EPA 537	3/12/20	3/19/20		Nashoba: 212621-1 Alpha: L2010817-01	

CAS#	REGULATED PFAS CONTAMINANTS	Report One of the Following			ORSG ¹ ng/L	MDL ng/L	MRL ² ng/L
		Results ³ ng/L	<MRL (Check <input checked="" type="checkbox"/>)	<1/3MRL (Check <input checked="" type="checkbox"/>)			
1763-23-1	Perfluorooctane Sulfonic Acid (PFOS)	ND	<input type="checkbox"/>	<input checked="" type="checkbox"/>	20		2.03
335-67-1	Perfluorooctanoic Acid (PFOA)	2.40	<input type="checkbox"/>	<input type="checkbox"/>	20		2.03
355-46-4	Perfluorohexane Sulfonic Acid (PFHxS)	ND	<input type="checkbox"/>	<input checked="" type="checkbox"/>	20		2.03
375-95-1	Perfluorononanoic Acid (PFNA)	ND	<input type="checkbox"/>	<input checked="" type="checkbox"/>	20		2.03
375-85-9	Perfluoroheptanoic Acid (PFHpA)	ND	<input type="checkbox"/>	<input checked="" type="checkbox"/>	20		2.03
335-76-2	Perfluorodecanoic acid (PFDA)	ND	<input type="checkbox"/>	<input checked="" type="checkbox"/>	20		2.03
375-73-5	Perfluorobutane sulfonic acid (PFBS)	ND	<input type="checkbox"/>	<input checked="" type="checkbox"/>	-		2.03
307-55-1	Perfluorododecanoic acid (PFDoA)	ND	<input type="checkbox"/>	<input checked="" type="checkbox"/>	-		2.03
307-24-4	Perfluorohexanoic acid (PFHxA)	2.32	<input type="checkbox"/>	<input type="checkbox"/>	-		2.03
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND	<input type="checkbox"/>	<input checked="" type="checkbox"/>	-		2.03
72629-94-8	Perfluorotridecanoic acid (PFTTrDA)	ND	<input type="checkbox"/>	<input checked="" type="checkbox"/>	-		2.03
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND	<input type="checkbox"/>	<input checked="" type="checkbox"/>	-		2.03
2991-50-6	N-ethyl perfluorooctanesulfonamidoacetic acid (NtFOSAA)	ND	<input type="checkbox"/>	<input checked="" type="checkbox"/>	-		2.03
2355-31-9	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND	<input type="checkbox"/>	<input checked="" type="checkbox"/>	-		2.03
763051-92-9	11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)		<input type="checkbox"/>	<input type="checkbox"/>	-		
756426-58-1	9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)		<input type="checkbox"/>	<input type="checkbox"/>	-		
919005-14-4	4,8-dioxa-3H-perfluorononanoic acid (ADONA)		<input type="checkbox"/>	<input type="checkbox"/>	-		
13252-13-6	Hexafluoropropylene oxide dimer acid (HFPO-DA)		<input type="checkbox"/>	<input type="checkbox"/>	-		

¹The MassDEP ORSG is 20 ng/L for the total sum of PFOA, PFOS, PFHxS, PFNA, PFHpA and PFDA (calculated to 2 significant figures).

²The minimum reporting level (MRL) is the lowest concentration of the substance tested that can be reported reliably under normal laboratory conditions.

³A field reagent blank (FRB) must be analyzed and reported if any PFAS are detected above the MRL.



Per- and Polyfluoroalkyl Substances (PFAS) Report

Page 2 of 2

PWS ID#: 3315000

Lab Sample ID#: Nashoba: 212621-1 Alpha: L2010817-01

CAS#	REGULATED AND UNREGULATED PFAS CONTAMINANTS (Report any additional PFAS contaminants analyzed)	Report One of the Following			ORSG ¹ µg/L 20	MRL ² µg/L	MDL µg/L
		Results ³ µg/L	<MRL (Check ✓)	<1/3MRL (Check ✓)			
			<input type="checkbox"/>	<input type="checkbox"/>			
			<input type="checkbox"/>	<input type="checkbox"/>			
			<input type="checkbox"/>	<input type="checkbox"/>			
			<input type="checkbox"/>	<input type="checkbox"/>			
			<input type="checkbox"/>	<input type="checkbox"/>			

Surrogate Name	% Recovery (70 – 130%)
SS-PFHxA-13C2	96
SS-PFDA-13C2	90
SS-NEtFOSSA-d5	86

In addition to reporting the Surrogate Recoveries above you must attach the results of the ongoing quality control results for the extraction batch that includes this sample. These include LRB, LFB, LFSM and either a FD or LFSMD as specified in the method.

☒ Laboratory analytical report with QC attached

Laboratory Analysis Sample Notes: (include information regarding sample/method parameters outside of or affecting QC controls/limits)

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: 

Date: 3-24-20

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.

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



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 #: **3315000** City / Town: **WAYLAND**

PWS Name: **WAYLAND WATER DEPARTMENT** PWS Class: COM ☒ NTNC ☐ TNC ☐

MassDEP LOCATION (LOC) ID#	MassDEP Location Name	Sample Information		Date Collected	Collected By
	BALDWIN POND WTP – FINISHED – FIELD BLANK	<input type="checkbox"/> (M)ultiple <input type="checkbox"/> (S)ingle	<input type="checkbox"/> (R)aw <input type="checkbox"/> (F)inished	3/11/20	J. Worthington
Routine or Special Sample <input type="checkbox"/> RS <input type="checkbox"/> SS	Original, Resubmitted or Confirmation Report <input checked="" type="checkbox"/> Original <input type="checkbox"/> Resubmitted <input type="checkbox"/> Confirmation	If Resubmitted Report, list below:			
		(1) Reason for Resubmission <input type="checkbox"/> Resample <input type="checkbox"/> Reanalysis <input type="checkbox"/> Report Correction		(2) Collection Date of Original Sample	
SAMPLE NOTES – Such as, if a Manifold/Multiple sample, list the source(s) that were on-line during sample collection.					

II. ANALYTICAL LABORATORY INFORMATION:

Primary Lab Cert. #: **M-MA1118** Primary Lab Name: **NASHOBA ANALYTICAL** Subcontracted? (Y/N) **Y**

Analysis Lab Cert. #: **M-MA030** Analysis Lab Name: **ALPHA MANSFIELD**

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

Lab Method	Date Extracted	Date Analyzed	Dilution Factor	Lab Sample ID#	LAB SAMPLE NOTES - Include information affecting sample analysis or quality control.
EPA 537	3/12/20	3/19/20		Nashoba: 212621-1FB Alpha: L2010817-02	

CAS#	REGULATED PFAS CONTAMINANTS	Report One of the Following			ORSG ¹ ng/L	MDL ng/L	MRL ² ng/L
		Results ³ ng/L	<MRL (Check <input checked="" type="checkbox"/>)	<1/3MRL (Check <input checked="" type="checkbox"/>)			
1763-23-1	Perfluorooctane Sulfonic Acid (PFOS)	ND	<input type="checkbox"/>	<input checked="" type="checkbox"/>	20		2.11
335-67-1	Perfluorooctanoic Acid (PFOA)	ND	<input type="checkbox"/>	<input checked="" type="checkbox"/>	20		2.11
355-46-4	Perfluorohexane Sulfonic Acid (PFHxS)	ND	<input type="checkbox"/>	<input checked="" type="checkbox"/>	20		2.11
375-95-1	Perfluorononanoic Acid (PFNA)	ND	<input type="checkbox"/>	<input checked="" type="checkbox"/>	20		2.11
375-85-9	Perfluorheptanoic Acid (PFHpA)	ND	<input type="checkbox"/>	<input checked="" type="checkbox"/>	20		2.11
335-76-2	Perfluorodecanoic acid (PFDA)	ND	<input type="checkbox"/>	<input checked="" type="checkbox"/>	20		2.11
375-73-5	Perfluorobutane sulfonic acid (PFBS)	ND	<input type="checkbox"/>	<input checked="" type="checkbox"/>	-		2.11
307-55-1	Perfluorododecanoic acid (PFDoA)	ND	<input type="checkbox"/>	<input checked="" type="checkbox"/>	-		2.11
307-24-4	Perfluorohexanoic acid (PFHxA)	ND	<input type="checkbox"/>	<input checked="" type="checkbox"/>	-		2.11
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND	<input type="checkbox"/>	<input checked="" type="checkbox"/>	-		2.11
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND	<input type="checkbox"/>	<input checked="" type="checkbox"/>	-		2.11
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND	<input type="checkbox"/>	<input checked="" type="checkbox"/>	-		2.11
2991-50-6	N-ethyl perfluorooctanesulfonamidoacetic acid (NtFOSAA)	ND	<input type="checkbox"/>	<input checked="" type="checkbox"/>	-		2.11
2355-31-9	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND	<input type="checkbox"/>	<input checked="" type="checkbox"/>	-		2.11
763051-92-9	11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)		<input type="checkbox"/>	<input type="checkbox"/>	-		
756426-58-1	9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)		<input type="checkbox"/>	<input type="checkbox"/>	-		
919005-14-4	4,8-dioxa-3H-perfluorononanoic acid (ADONA)		<input type="checkbox"/>	<input type="checkbox"/>	-		
13252-13-6	Hexafluoropropylene oxide dimer acid (HFPO-DA)		<input type="checkbox"/>	<input type="checkbox"/>	-		

¹The MassDEP ORSG is 20 ng/L for the total sum of PFOA, PFOS, PFHxS, PFNA, PFHpA and PFDA (calculated to 2 significant figures).²The minimum reporting level (MRL) is the lowest concentration of the substance tested that can be reported reliably under normal laboratory conditions.³A field reagent blank (FRB) must be analyzed and reported if any PFAS are detected above the MRL.



Per- and Polyfluoroalkyl Substances (PFAS) Report

Page 2 of 2

PWS ID#: 3315000

Lab Sample ID#: Nashoba: 212621-1FB Alpha: L2010817-02

CAS#	REGULATED AND UNREGULATED PFAS CONTAMINANTS (Report any additional PFAS contaminants analyzed)	Report One of the Following			ORSG ¹ µg/L 20	MRL ² µg/L	MDL µg/L
		Results ³ µg/L	<MRL (Check ✓)	<1/3MRL (Check ✓)			
			<input type="checkbox"/>	<input type="checkbox"/>			
			<input type="checkbox"/>	<input type="checkbox"/>			
			<input type="checkbox"/>	<input type="checkbox"/>			
			<input type="checkbox"/>	<input type="checkbox"/>			
			<input type="checkbox"/>	<input type="checkbox"/>			

Surrogate Name	% Recovery (70 – 130%)
SS-PFHxA-13C2	100
SS-PFDA-13C2	92
SS-NEtFOSSA-d5	81

In addition to reporting the Surrogate Recoveries above you must attach the results of the ongoing quality control results for the extraction batch that includes this sample. These include LRB, LFB, LFSM and either a FD or LFSMD as specified in the method.

☒ Laboratory analytical report with QC attached

Laboratory Analysis Sample Notes: (include information regarding sample/method parameters outside of or affecting QC controls/limits)

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: David L. LinnDate: 3-24-20

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.

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



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 #: **3315000** City / Town: **WAYLAND**

PWS Name: **WAYLAND WATER DEPARTMENT** PWS Class: COM ☒ NTNC ☐ TNC ☐

MassDEP LOCATION (LOC) ID#	MassDEP Location Name	Sample Information		Date Collected	Collected By
20006	HAPPY HOLLOW REPLACEMENT WELLS	<input checked="" type="checkbox"/> (M)ultiple <input type="checkbox"/> (S)ingle	<input type="checkbox"/> (R)aw <input checked="" type="checkbox"/> (F)inished	3/11/20	J. Worthington
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 type="checkbox"/> RS <input checked="" 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 NOTES – Such as, if a Manifold/Multiple sample, list the source(s) that were on-line during sample collection.					

II. ANALYTICAL LABORATORY INFORMATION:

Primary Lab Cert. #: **M-MA1118** Primary Lab Name: **NASHOBA ANALYTICAL** Subcontracted? (Y/N) **Y**

Analysis Lab Cert. #: **M-MA030** Analysis Lab Name: **ALPHA MANSFIELD**

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

Lab Method	Date Extracted	Date Analyzed	Dilution Factor	Lab Sample ID#	LAB SAMPLE NOTES - Include information affecting sample analysis or quality control.
EPA 537	3/12/20	3/19/20		Nashoba: 212621-2 Alpha: L2010817-03	

CAS#	REGULATED PFAS CONTAMINANTS	Report One of the Following			ORSG ¹ ng/L	MDL ng/L	MRL ² ng/L
		Results ³ ng/L	<MRL (Check ✓)	<1/3MRL (Check ✓)			
1763-23-1	Perfluorooctane Sulfonic Acid (PFOS)	5.42	<input type="checkbox"/>	<input type="checkbox"/>	20		1.84
335-67-1	Perfluorooctanoic Acid (PFOA)	8.45	<input type="checkbox"/>	<input type="checkbox"/>	20		1.84
355-46-4	Perfluorohexane Sulfonic Acid (PFHxS)	2.07	<input type="checkbox"/>	<input type="checkbox"/>	20		1.84
375-95-1	Perfluorononanoic Acid (PFNA)	ND	<input type="checkbox"/>	<input checked="" type="checkbox"/>	20		1.84
375-85-9	Perfluoroheptanoic Acid (PFHpA)	2.73	<input type="checkbox"/>	<input type="checkbox"/>	20		1.84
335-76-2	Perfluorodecanoic acid (PFDA)	ND	<input type="checkbox"/>	<input checked="" type="checkbox"/>	20		1.84
375-73-5	Perfluorobutane sulfonic acid (PFBS)	2.99	<input type="checkbox"/>	<input type="checkbox"/>	-		1.84
307-55-1	Perfluorododecanoic acid (PFDoA)	ND	<input type="checkbox"/>	<input checked="" type="checkbox"/>	-		1.84
307-24-4	Perfluorohexanoic acid (PFHxA)	6.46	<input type="checkbox"/>	<input type="checkbox"/>	-		1.84
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND	<input type="checkbox"/>	<input checked="" type="checkbox"/>	-		1.84
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND	<input type="checkbox"/>	<input checked="" type="checkbox"/>	-		1.84
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND	<input type="checkbox"/>	<input checked="" type="checkbox"/>	-		1.84
2991-50-6	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND	<input type="checkbox"/>	<input checked="" type="checkbox"/>	-		1.84
2355-31-9	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND	<input type="checkbox"/>	<input checked="" type="checkbox"/>	-		1.84
763051-92-9	11-chlorooicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)		<input type="checkbox"/>	<input type="checkbox"/>	-		
756426-58-1	9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)		<input type="checkbox"/>	<input type="checkbox"/>	-		
919005-14-4	4,8-dioxo-3H-perfluorononanoic acid (ADONA)		<input type="checkbox"/>	<input type="checkbox"/>	-		
13252-13-6	Hexafluoropropylene oxide dimer acid (HFPO-DA)		<input type="checkbox"/>	<input type="checkbox"/>	-		

¹ The MassDEP ORSG is 20 ng/L for the total sum of PFOA, PFOS, PFHxS, PFNA, PFHpA and PFDA (calculated to 2 significant figures).

² The minimum reporting level (MRL) is the lowest concentration of the substance tested that can be reported reliably under normal laboratory conditions.

³ A field reagent blank (FRB) must be analyzed and reported if any PFAS are detected above the MRL.



Per- and Polyfluoroalkyl Substances (PFAS) Report

Page 2 of 2

PWS ID#:

3315000

Lab Sample ID#:

Nashoba: 212621-2 Alpha: L2010817-03

CAS#	REGULATED AND UNREGULATED PFAS CONTAMINANTS (Report any additional PFAS contaminants analyzed)	Report One of the Following			ORSG ¹ µg/L 20	MRL ² µg/L	MDL µg/L
		Results ³ µg/L	<MRL (Check ✓)	<1/3MRL (Check ✓)			
			<input type="checkbox"/>	<input type="checkbox"/>			
			<input type="checkbox"/>	<input type="checkbox"/>			
			<input type="checkbox"/>	<input type="checkbox"/>			
			<input type="checkbox"/>	<input type="checkbox"/>			
			<input type="checkbox"/>	<input type="checkbox"/>			

Surrogate Name	% Recovery (70 – 130%)
SS-PFHxA-13C2	89
SS-PFDA-13C2	75
SS-NEtFOSSA-d5	78

In addition to reporting the Surrogate Recoveries above you must attach the results of the ongoing quality control results for the extraction batch that includes this sample. These include LRB, LFB, LFSM and either a FD or LFSMD as specified in the method.

☒ Laboratory analytical report with QC attached

Laboratory Analysis Sample Notes: (include information regarding sample/method parameters outside of or affecting QC controls/limits)

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:

Date:

3-24-20

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.

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



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 #: **3315000** City / Town: **WAYLAND**

PWS Name: **WAYLAND WATER DEPARTMENT** PWS Class: COM ☒ NTNC ☐ TNC ☐

MassDEP LOCATION (LOC) ID#	MassDEP Location Name	Sample Information		Date Collected	Collected By
	HAPPY HOLLOW REPLACEMENT WELLS – FIELD BLANK	<input type="checkbox"/> (M)ultiple <input type="checkbox"/> (S)ingle	<input type="checkbox"/> (R)aw <input type="checkbox"/> (F)inished	3/11/20	J. Worthington
Routine or Special Sample <input type="checkbox"/> RS <input type="checkbox"/> SS	Original, Resubmitted or Confirmation Report <input checked="" type="checkbox"/> Original <input type="checkbox"/> Resubmitted <input type="checkbox"/> Confirmation	If Resubmitted Report, list below:			
		(1) Reason for Resubmission <input type="checkbox"/> Resample <input type="checkbox"/> Reanalysis <input type="checkbox"/> Report Correction		(2) Collection Date of Original Sample	
SAMPLE NOTES – Such as, if a Manifold/Multiple sample, list the source(s) that were on-line during sample collection.					

II. ANALYTICAL LABORATORY INFORMATION:

Primary Lab Cert. #: **M-MA1118** Primary Lab Name: **NASHOBA ANALYTICAL** Subcontracted? (Y/N) **Y**

Analysis Lab Cert. #: **M-MA030** Analysis Lab Name: **ALPHA MANSFIELD**

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

Lab Method	Date Extracted	Date Analyzed	Dilution Factor	Lab Sample ID#	LAB SAMPLE NOTES - Include information affecting sample analysis or quality control.
EPA 537	3/12/20	3/19/20		Nashoba: 212621-2FB Alpha: L2010817-04	

CAS#	REGULATED PFAS CONTAMINANTS	Report One of the Following			ORSG ¹ ng/L	MDL ng/L	MRL ² ng/L
		Results ³ ng/L	<MRL (Check ✓)	<1/3MRL (Check ✓)			
1763-23-1	Perfluorooctane Sulfonic Acid (PFOS)	ND	<input type="checkbox"/>	<input checked="" type="checkbox"/>	20		1.89
335-67-1	Perfluorooctanoic Acid (PFOA)	ND	<input type="checkbox"/>	<input checked="" type="checkbox"/>	20		1.89
355-46-4	Perfluorohexane Sulfonic Acid (PFHxS)	ND	<input type="checkbox"/>	<input checked="" type="checkbox"/>	20		1.89
375-95-1	Perfluorononanoic Acid (PFNA)	ND	<input type="checkbox"/>	<input checked="" type="checkbox"/>	20		1.89
375-85-9	Perfluorohexanoic Acid (PFHpA)	ND	<input type="checkbox"/>	<input checked="" type="checkbox"/>	20		1.89
335-76-2	Perfluorodecanoic acid (PFDA)	ND	<input type="checkbox"/>	<input checked="" type="checkbox"/>	20		1.89
375-73-5	Perfluorobutane sulfonic acid (PFBS)	ND	<input type="checkbox"/>	<input checked="" type="checkbox"/>	-		1.89
307-55-1	Perfluorododecanoic acid (PFDoA)	ND	<input type="checkbox"/>	<input checked="" type="checkbox"/>	-		1.89
307-24-4	Perfluorohexanoic acid (PFHxA)	ND	<input type="checkbox"/>	<input checked="" type="checkbox"/>	-		1.89
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND	<input type="checkbox"/>	<input checked="" type="checkbox"/>	-		1.89
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND	<input type="checkbox"/>	<input checked="" type="checkbox"/>	-		1.89
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND	<input type="checkbox"/>	<input checked="" type="checkbox"/>	-		1.89
2991-50-6	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND	<input type="checkbox"/>	<input checked="" type="checkbox"/>	-		1.89
2355-31-9	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND	<input type="checkbox"/>	<input checked="" type="checkbox"/>	-		1.89
763051-92-9	11-chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)		<input type="checkbox"/>	<input type="checkbox"/>	-		
756426-58-1	9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)		<input type="checkbox"/>	<input type="checkbox"/>	-		
919005-14-4	4,8-dioxa-3H-perfluorononanoic acid (ADONA)		<input type="checkbox"/>	<input type="checkbox"/>	-		
13252-13-6	Hexafluoropropylene oxide dimer acid (HFPO-DA)		<input type="checkbox"/>	<input type="checkbox"/>	-		

¹The MassDEP ORSG is 20 ng/L for the total sum of PFOA, PFOS, PFHxS, PFNA, PFHpA and PFDA (calculated to 2 significant figures).

²The minimum reporting level (MRL) is the lowest concentration of the substance tested that can be reported reliably under normal laboratory conditions.

³A field reagent blank (FRB) must be analyzed and reported if any PFAS are detected above the MRL.



Per- and Polyfluoroalkyl Substances (PFAS) Report

Page 2 of 2

PWS ID#: 3315000

Lab Sample ID#: Nashoba: 212621-2FB Alpha: L2010817-04

CAS#	REGULATED AND UNREGULATED PFAS CONTAMINANTS (Report any additional PFAS contaminants analyzed)	Report One of the Following			ORSG ¹ µg/L 20	MRL ² µg/L	MDL µg/L
		Results ³ µg/L	<MRL (Check ✓)	<1/3MRL (Check ✓)			
			<input type="checkbox"/>	<input type="checkbox"/>			
			<input type="checkbox"/>	<input type="checkbox"/>			
			<input type="checkbox"/>	<input type="checkbox"/>			
			<input type="checkbox"/>	<input type="checkbox"/>			
			<input type="checkbox"/>	<input type="checkbox"/>			

Surrogate Name	% Recovery (70 – 130%)
SS-PFHxA-13C2	89
SS-PFDA-13C2	75
SS-NEtFOSSA-d5	78

In addition to reporting the Surrogate Recoveries above you must attach the results of the ongoing quality control results for the extraction batch that includes this sample. These include LRB, LFB, LFSM and either a FD or LFSMD as specified in the method.

☒ Laboratory analytical report with QC attached

Laboratory Analysis Sample Notes: (include information regarding sample/method parameters outside of or affecting QC controls/limits)

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: 

Date: 3-24-20

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.

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



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 #: **3315000** City / Town: **WAYLAND**

PWS Name: **WAYLAND WATER DEPARTMENT** PWS Class: COM ☒ NTNC ☐ TNC ☐

MassDEP LOCATION (LOC) ID#	MassDEP Location Name	Sample Information		Date Collected	Collected By
10008	CHAMBERLAIN WELL	<input type="checkbox"/> (M)ultiple <input checked="" type="checkbox"/> (S)ingle	<input type="checkbox"/> (R)aw <input checked="" type="checkbox"/> (F)inished	3/11/20	J. Worthington
Routine or Special Sample <input type="checkbox"/> RS <input checked="" type="checkbox"/> SS	Original, Resubmitted or Confirmation Report <input checked="" type="checkbox"/> Original <input type="checkbox"/> Resubmitted <input type="checkbox"/> Confirmation	If Resubmitted Report, list below:			
		(1) Reason for Resubmission <input type="checkbox"/> Resample <input type="checkbox"/> Reanalysis <input type="checkbox"/> Report Correction		(2) Collection Date of Original Sample	
SAMPLE NOTES -- Such as, if a Manifold/Multiple sample, list the source(s) that were on-line during sample collection.					

II. ANALYTICAL LABORATORY INFORMATION:

Primary Lab Cert. #: **M-MA1118** Primary Lab Name: **NASHOBA ANALYTICAL** Subcontracted? (Y/N) **Y**

Analysis Lab Cert. #: **M-MA030** Analysis Lab Name: **ALPHA MANSFIELD**

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

Lab Method	Date Extracted	Date Analyzed	Dilution Factor	Lab Sample ID#	LAB SAMPLE NOTES - Include information affecting sample analysis or quality control.
EPA 537	3/12/20	3/19/20		Nashoba: 212621-3 Alpha: L2010817-05	

CAS#	REGULATED PFAS CONTAMINANTS	Report One of the Following			ORSG ¹ ng/L	MDL ng/L	MRL ² ng/L
		Results ³ ng/L	<MRL (Check <input checked="" type="checkbox"/>)	<1/3MRL (Check <input checked="" type="checkbox"/>)			
1763-23-1	Perfluorooctane Sulfonic Acid (PFOS)	2.48	<input type="checkbox"/>	<input type="checkbox"/>	20		1.77
335-67-1	Perfluorooctanoic Acid (PFOA)	6.17	<input type="checkbox"/>	<input type="checkbox"/>	20		1.77
355-46-4	Perfluorohexane Sulfonic Acid (PFHxS)	ND	<input type="checkbox"/>	<input checked="" type="checkbox"/>	20		1.77
375-95-1	Perfluorononanoic Acid (PFNA)	ND	<input type="checkbox"/>	<input checked="" type="checkbox"/>	20		1.77
375-85-9	Perfluorohexanoic Acid (PFHpA)	2.02	<input type="checkbox"/>	<input type="checkbox"/>	20		1.77
335-76-2	Perfluorodecanoic acid (PFDA)	ND	<input type="checkbox"/>	<input checked="" type="checkbox"/>	20		1.77
375-73-5	Perfluorobutane sulfonic acid (PFBS)	ND	<input type="checkbox"/>	<input checked="" type="checkbox"/>	-		1.77
307-55-1	Perfluorododecanoic acid (PFDoA)	ND	<input type="checkbox"/>	<input checked="" type="checkbox"/>	-		1.77
307-24-4	Perfluorohexanoic acid (PFHxA)	3.37	<input type="checkbox"/>	<input type="checkbox"/>	-		1.77
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND	<input type="checkbox"/>	<input checked="" type="checkbox"/>	-		1.77
72629-94-8	Perfluorotridecanoic acid (PFTrDA)	ND	<input type="checkbox"/>	<input checked="" type="checkbox"/>	-		1.77
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND	<input type="checkbox"/>	<input checked="" type="checkbox"/>	-		1.77
2991-50-6	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND	<input type="checkbox"/>	<input checked="" type="checkbox"/>	-		1.77
2355-31-9	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND	<input type="checkbox"/>	<input checked="" type="checkbox"/>	-		1.77
763051-92-9	11-chlorooctadecafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)		<input type="checkbox"/>	<input type="checkbox"/>	-		
756426-58-1	9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)		<input type="checkbox"/>	<input type="checkbox"/>	-		
919005-14-4	4,8-dioxa-3H-perfluorononanoic acid (ADONA)		<input type="checkbox"/>	<input type="checkbox"/>	-		
13252-13-6	Hexafluoropropylene oxide dimer acid (HFPO-DA)		<input type="checkbox"/>	<input type="checkbox"/>	-		

¹ The MassDEP ORSG is 20 ng/L for the total sum of PFOA, PFOS, PFHxS, PFNA, PFHpA and PFDA (calculated to 2 significant figures).² The minimum reporting level (MRL) is the lowest concentration of the substance tested that can be reported reliably under normal laboratory conditions.³ A field reagent blank (FRB) must be analyzed and reported if any PFAS are detected above the MRL.



Per- and Polyfluoroalkyl Substances (PFAS) Report

Page 2 of 2

PWS ID#: 3315000

Lab Sample ID#: Nashoba: 212621-3 Alpha: L2010817-05

CAS#	REGULATED AND UNREGULATED PFAS CONTAMINANTS (Report any additional PFAS contaminants analyzed)	Report One of the Following			ORSG ¹ µg/L 20	MRL ² µg/L	MDL µg/L
		Results ³ µg/L	<MRL (Check ✓)	<1/3MRL (Check ✓)			
			<input type="checkbox"/>	<input type="checkbox"/>			
			<input type="checkbox"/>	<input type="checkbox"/>			
			<input type="checkbox"/>	<input type="checkbox"/>			
			<input type="checkbox"/>	<input type="checkbox"/>			
			<input type="checkbox"/>	<input type="checkbox"/>			

Surrogate Name	% Recovery (70 – 130%)
SS-PFHxA-13C2	95
SS-PFDA-13C2	86
SS-NEtFOSSA-d5	86

In addition to reporting the Surrogate Recoveries above you must attach the results of the ongoing quality control results for the extraction batch that includes this sample. These include LRB, LFB, LFSM and either a FD or LFSMD as specified in the method.

☒ Laboratory analytical report with QC attached

Laboratory Analysis Sample Notes: (include information regarding sample/method parameters outside of or affecting QC controls/limits)

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:

Date: 3-24-20

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.

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



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 #: 3315000

City / Town: WAYLAND

PWS Name: WAYLAND WATER DEPARTMENT

PWS Class: COM ☒ NTNC ☐ TNC ☐

MassDEP LOCATION (LOC) ID#	MassDEP Location Name	Sample Information		Date Collected	Collected By
	CHAMBERLAIN WELL – FIELD BLANK	<input type="checkbox"/> (M)ultiple <input type="checkbox"/> (S)ingle	<input type="checkbox"/> (R)aw <input type="checkbox"/> (F)inished	3/11/20	J. Worthington
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 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 NOTES – Such as, if a Manifold/Multiple sample, list the source(s) that were on-line during sample collection.					

II. ANALYTICAL LABORATORY INFORMATION:

Primary Lab Cert. #: M-MA1118

Primary Lab Name: NASHOBA ANALYTICAL

Subcontracted? (Y/N) Y

Analysis Lab Cert. #: M-MA030

Analysis Lab Name: ALPHA MANSFIELD

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

Lab Method	Date Extracted	Date Analyzed	Dilution Factor	Lab Sample ID#	LAB SAMPLE NOTES - Include information affecting sample analysis or quality control.
EPA 537	3/12/20	3/19/20		Nashoba: 212621-3FB Alpha: L2010817-06	

CAS#	REGULATED PFAS CONTAMINANTS	Report One of the Following			ORSG ¹ ng/L	MDL ng/L	MRL ² ng/L
		Results ³ ng/L	<MRL (Check ✓)	<1/3MRL (Check ✓)			
1763-23-1	Perfluorooctane Sulfonic Acid (PFOS)	ND	<input type="checkbox"/>	<input checked="" type="checkbox"/>	20		2.14
335-67-1	Perfluorooctanoic Acid (PFOA)	ND	<input type="checkbox"/>	<input checked="" type="checkbox"/>	20		2.14
355-46-4	Perfluorohexane Sulfonic Acid (PFHxS)	ND	<input type="checkbox"/>	<input checked="" type="checkbox"/>	20		2.14
375-95-1	Perfluorononanoic Acid (PFNA)	ND	<input type="checkbox"/>	<input checked="" type="checkbox"/>	20		2.14
375-85-9	Perfluorohexanoic Acid (PFHpA)	ND	<input type="checkbox"/>	<input checked="" type="checkbox"/>	20		2.14
335-76-2	Perfluorodecanoic acid (PFDA)	ND	<input type="checkbox"/>	<input checked="" type="checkbox"/>	20		2.14
375-73-5	Perfluorobutane sulfonic acid (PFBS)	ND	<input type="checkbox"/>	<input checked="" type="checkbox"/>	-		2.14
307-55-1	Perfluorododecanoic acid (PFDoA)	ND	<input type="checkbox"/>	<input checked="" type="checkbox"/>	-		2.14
307-24-4	Perfluorohexanoic acid (PFHxA)	ND	<input type="checkbox"/>	<input checked="" type="checkbox"/>	-		2.14
376-06-7	Perfluorotetradecanoic acid (PFTA)	ND	<input type="checkbox"/>	<input checked="" type="checkbox"/>	-		2.14
72629-94-8	Perfluorotridecanoic acid (PFTTrDA)	ND	<input type="checkbox"/>	<input checked="" type="checkbox"/>	-		2.14
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND	<input type="checkbox"/>	<input checked="" type="checkbox"/>	-		2.14
2991-50-6	N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND	<input type="checkbox"/>	<input checked="" type="checkbox"/>	-		2.14
2355-31-9	N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND	<input type="checkbox"/>	<input checked="" type="checkbox"/>	-		2.14
763051-92-9	11-chlorooctadecafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)		<input type="checkbox"/>	<input type="checkbox"/>	-		
756426-58-1	9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)		<input type="checkbox"/>	<input type="checkbox"/>	-		
919005-14-4	4,8-dioxa-3H-perfluorononanoic acid (ADONA)		<input type="checkbox"/>	<input type="checkbox"/>	-		
13252-13-6	Hexafluoropropylene oxide dimer acid (HFPO-DA)		<input type="checkbox"/>	<input type="checkbox"/>	-		

¹The MassDEP ORSG is 20 ng/L for the total sum of PFOA, PFOS, PFHxS, PFNA, PFHpA and PFDA (calculated to 2 significant figures).²The minimum reporting level (MRL) is the lowest concentration of the substance tested that can be reported reliably under normal laboratory conditions.³A field reagent blank (FRB) must be analyzed and reported if any PFAS are detected above the MRL.



Per- and Polyfluoroalkyl Substances (PFAS) Report

Page 2 of 2

PWS ID#: 3315000

Lab Sample ID#: Nashoba: 212621-3FB Alpha: L2010817-06

CAS#	REGULATED AND UNREGULATED PFAS CONTAMINANTS (Report any additional PFAS contaminants analyzed)	Report One of the Following			ORSG ¹ µg/L 20	MRL ² µg/L	MDL µg/L
		Results ³ µg/L	<MRL (Check ✓)	<1/3MRL (Check ✓)			
			<input type="checkbox"/>	<input type="checkbox"/>			
			<input type="checkbox"/>	<input type="checkbox"/>			
			<input type="checkbox"/>	<input type="checkbox"/>			
			<input type="checkbox"/>	<input type="checkbox"/>			
			<input type="checkbox"/>	<input type="checkbox"/>			

Surrogate Name	% Recovery (70 – 130%)
SS-PFHxA-13C2	133
SS-PFDA-13C2	122
SS-NEtFOSSA-d5	110

In addition to reporting the Surrogate Recoveries above you must attach the results of the ongoing quality control results for the extraction batch that includes this sample. These include LRB, LFB, LFSM and either a FD or LFSMD as specified in the method.

☒ Laboratory analytical report with QC attached

Laboratory Analysis Sample Notes: (include information regarding sample/method parameters outside of or affecting QC controls/limits)

Perfluorinated Alkyl Acids

L2010817-06: The surrogate recovery for perfluoro-n-[1,2-13c2]hexanoic acid (13c-pfhxa) (133%) is outside the acceptance criteria; however, since the sample was non-detect for all target analytes associated with this surrogate, re-analysis was not required.

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: 

Date: 3-24-20

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.

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