City of Portsmouth

Department of Public Works



Portsmouth Water System PFAS Sampling Update May 28, 2019

Water Supply Sampling of PFAS

The City of Portsmouth's water supply staff continue to monitor all of our public water supply sources for Perfluorinated compounds (PFAS) every six months. Attached are the most recent analysis of the Portsmouth supply sources taken in April 2019. The water samples for this round were analyzed using the detection limits proposed by the New Hampshire Department of Environmental Services (NHDS) as part of the rulemaking process to set Maximum Contaminant Levels (MCLs) for four PFAS compounds. The following information provides that detail:

Env-Dw 712.28 Laboratory Methods, Sampling Protocols, and Method Reporting Limits for PFC Contaminants.

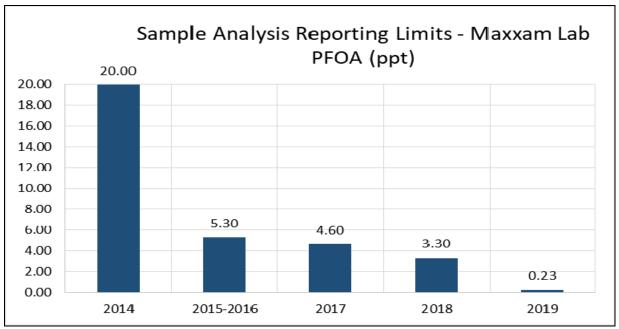
(c) Method reporting limits for PFC contaminants shall not exceed those set forth in Table 712-2, below:

Perfluorooctanoic acid (PFOA) 2 ng/L (ppt) Perfluoroctane sulfonic acid (PFOS) 2 ng/L (ppt) Perfluorononanoic acid (PFNA) 2 ng/L (ppt) Perfluorohexane sulfonic acid (PFHxS) 2 ng/L (ppt)

The following table summarizes the most recent monitoring results, in Parts-per-Trillion (ppt) for the City of Portsmouth water sources utilizing this laboratory method and reporting limits. The table also includes the MCL levels as originally proposed by the NHDES on December 31, 2018.

PFAS	NH - Proposed MCL and AGQS	Madbury Treatment	Madbury Well 2	Madbury Well 3	Madbury Well 4	Portsmouth Well	Collins Well	Greenland Well
Date	12/31/2018	4/29/2019	4/29/2019	4/29/2019	4/29/2019	4/29/2019	4/29/2019	4/29/2019
PFOA	38 ppt	3	4	3	2	4	2	4
PFOS	70 ppt	<2	<2	<2	<2	4	3	3
PFOA & PFOS (combined)	70 ppt	3	4	3	2	9	5	7
PFHxS	85 ppt	<2	<2	<2	<2	6	2	2
PFNA	23 ppt	<2	<2	<2	<2	<2	<2	<2

These results show detections of compounds that, at times, were previously reported as Non-Detect (ND) in past updates. These detections do not necessarily mean an increase in any compound from when the last time they were sampled but simply that the laboratory methods for PFAS analysis continue to evolve and improve, allowing for lower and lower detection and reporting limits. The following chart shows a comparison of how those limits have gone down for one of the compounds, PFOA, from 20 ppt to 0.23 ppt, almost 100 times less than in 2014. Detection limits for all of the other PFAS compounds sampled also have lower levels.



Many other water systems throughout New Hampshire have experienced detections testing at these lower levels. According to data provided by the NHDES these systems include those on the Seacoast; Seabrook, Aquarion Water in Hampton, North Hampton and Rye, the Rye Water District, Dover and Rochester.

An update posted on the NHDES website on February 21, 2019 noted that "New Information May Change NHDES Proposed PFAS Drinking Water Standards." The following information was provided:

On December 31, 2018, the New Hampshire Department of Environmental Services (NHDES) initiated rulemaking to establish Maximum Contaminant Levels (MCLs) and Ambient Groundwater Quality Standards (AGQS) for four per- and polyfluoroalkyl substances (PFAS) – perfluorooctanoic acid (PFOA), perfluorooctanesulfonic acid (PFOS), perfluorononanoic acid (PFNA) and perfluorohexanesulfonic acid (PFHxS).

After the initial proposal, new scientific information was evaluated by NHDES that may change the proposed drinking water standards. Specifically, a new

assessment tool developed by the Minnesota Department of Health allows for a quantitative estimate of infant and child exposure to PFAS through breastmilk and/or formula. This peer-reviewed model was published at the beginning of January after NHDES filed its Initial Proposal. NHDES's assessment of the exposure model for the interaction of drinking water levels of PFAS and breastfeeding (Goeden et al, 2019) indicates that health-based drinking water or groundwater standards for PFOA and PFOS would potentially be lowered significantly below the initial proposal figures of 38 parts per trillion (ppt) and 70 ppt, respectively. NHDES is continuing to review the suitability of this assessment tool for PFHxS and PFNA based on this and other studies released in 2019. NHDES will need to complete a review of the technical and cost implications of these health-based calculations, and any public comment received, prior to issuance of the Final Proposal.

The NHDES website is providing updates and additional information regarding upcoming public meetings about these standards. This site can be accessed at:

https://www4.des.state.nh.us/nh-pfas-investigation/

Given all this information and the laboratory capabilities to detect at these lower levels, the City will now sample these water sources quarterly to assess any trend in the detected compounds and to also prepare for the pending MCLs. We have also put a formal request into the Air Force to have their consultant performing the monthly sampling of the Pease, Portsmouth and Collins wells have them analyzed using the NHDES recommended detection limits.

Additional information can be accessed at:

www.cityofportsmouth.com/publicworks/water/portsmouth-water-system-pfas-update

or by calling Al Pratt, Water Resources Manager, at: 603-520-0622 or Brian Goetz, Deputy Director of Public Works at: 603-766-1420.

								Compiliation of PFAS Analytical Results Portsmouth Public Well-Composition of Well-Composition o																			
General Content	Sample Location	Sample	Collection	Sampled By	Fluo	8:2 Fluorotelomer sulfonate (8:2 FTS)	N-Ethyl perfluoroctane sulfonamide (EtFOSA)	N-Ethyl perfluoro octane sulfon amidoethanol (EtFOSE)	N-Methyl Perfluorooctane Sulfonamide (MEFOSA)	N-Methyl Perfluorooctane Sulfonamidoethanol (MEFOSE)	Perfluorobutanesulfonic acid (PFBS)	Perfluorobutanoic acid (PFBA)	luorodec (PF	Perfluorodecanoic acid (PFDA)	noi.	Perfluoroheptane sulfonate (PFHpS)	uoroheptanoic a (PFHpA)	Perfluorohexanesulfonic acid (PFHxS)	Perfluorohexanoic acid (PFHxA)	Perfluorononanoic acid (PFNA)	Perfluorooctane sulfonamide (PFOSA)	Perfluorooctanesulfonic acid (PFOS)	Perfluorooctanoic acid	luoroper (PFP	Į.	<u>a</u>	Ď,
Part					- NA	- NA	- NA	- NIA	- NA	- NA	- ND	- NA	- NA	- NA	- 510	- NA	- ND	- NA	- NA	- ND	- NA			- NA	- NA	- NA	- 10

Color Colo																NA											
Part						NA	NA	NA	NA	NA		ND	ND		ND	NA	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND
California																											
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Fig. 14.95 (2004) 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.		COLLINS_12122014	12/12/2014	AMEC		ND	ND		ND				ND	ND	ND	ND		ND	ND			ND	ND	ND	ND		

Fig.																											
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Part		COLLINS_05212015	5/21/2015	AMEC	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND		ND		ND	ND	ND	ND	
Formation Principal Americ No. N																											
Part																											
			10/7/2015	AMEC	ND	ND	ND		ND	ND		0.006 J	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND		ND	
Collabs (1998) 1699																											
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Calling GW 2018714 1214/2016 AMEC NO NO NO NO NO NO NO N																											
COLINS-GW_2017911																											
COLLINS-GW_20170439		COLLINS-GW_20170111	1/11/2017														ND					0.007 J		ND			NA
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COLLINS-GW_20170915 98152017 AMEC ND																											
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COLLINS-GW_20171214 11/14/2017 AMEC ND																											
COLLINS-GW_20191098 12/8/2017 AMEC ND																											
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COLLINS-GW_20180516 5/16/2018 WOOD ND																											
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COLLINS-GW_20190220 2/20/2019 WOOD ND																											
COLLINS-GW_20190320 3/20/2019 WOOD ND				_			ND									ND											
COLLINS WELL, 20190429 4/29/2019 DPW 0.001 J ND NA NA NA NA NA NA 0.012 0.003 ND ND ND ND 0.001 J 0.002 0.002 J 0.001 J ND 0.003 0.002 0.002 J ND ND ND ND							ND								ND	ND										ND	ND
		COLLINS WELL_20190429	4/29/2019	DPW	0.001 J	ND	NA	NA	NA	NA	0.012	0.003	ND	ND	ND	ND	0.001 J	0.002	0.002 J	0.001 J	ND	0.003	0.002	0.002 J	ND	ND	ND

Complilation of PFAS Analytical Results

					Compiliation of PFAS Analytical Results Portsmouth Public Water Supply Monitoring Program Page Page																					
Sample Location	Sample ID	Collection Date	Sampled By	6:2 Fluorotelomer sulfonate (6:2 FTS)	8:2 Fluorotelomer sulfonate (8:2 FTS)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl Perfluorooctane Sulfonamide (MEFOSA)	N-Methyl Perfluorooctane Sulfonamidoethanol (MEFOSE)	Perfluorobutanes ulfonic acid (PFBS)	Perfluorobutanoic acid (PFBA)	Perfluorodecane sulfonate (PFDS)	Perfluorodecanoic acid (PFDA)	Perfluorododecanoic acid (PFDoA)	Perfluoroheptane sulfonate (PFHpS)	Perfluorohe ptanoic acid (PFHpA)	Perfluorohexanesulfonic acid (PFHxS)	Perfluorohexanoic acid (PFHxA)	Perfluorononanoic acid (PFNA)	Perfluorooctane sulfonamide (PFOSA)	Perfluorooctanesulfonic acid (PFOS)	Perfluorooctanoic acid (PFOA)	Perfluoropentanoic acid (PFPeA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluo rotridecanoic acid (PFTrDA)	Perfluoroundecanoic acid (PFUnA)
	Portsmouth	Health Advisory (HA) 5/20/2014	NHDES	- NΔ	- ΝΔ	NΔ	NΔ	- ΝΔ	- ΝΔ	- ND	- ΝΔ	- NA	- NA	- NA	- NA	- ND	- ND	- NA	- ND	- NA	0.070 ND	0.070 ND	- NA	- NA	- NA	- NA
	Portsmouth Portsmouth-06182014	6/18/2014	AMEC	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	ND ND	0.003 J	NA ND	NA ND	NA ND	NA NA	ND ND	0.006 J	NA ND	ND ND	NA ND	ND ND	ND ND	0.007 J	NA ND	NA ND	NA ND
	DW-DUP-06252014 (D)	6/25/2014	AMEC	NA	NA.	NA	NA.	NA.	NA	ND	ND	ND	ND	ND	NA.	ND	0.004 J	ND	ND	ND	ND	ND	0.003 J	ND	ND	ND
	PORTSMOUTH-06252014	6/25/2014	AMEC	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	NA	ND	0.005 J	ND	ND	ND	ND	ND	0.004 J	ND	ND	ND
	PORTSMOUTH-07022014	7/2/2014	AMEC	NA	NA	NA	NA	NA	NA	ND	0.006 J	ND	ND	ND	NA	ND	0.006 J	0.006 J	ND	0.003 J	0.010 J	ND	0.006 J	ND	ND	ND
	PORTSMOUTH-07092014 PORTSMOUTH-07162014	7/9/2014 7/16/2014	AMEC AMEC	NA ND	NA ND	NA ND	NA ND	NA ND	NA ND	ND ND	0.002 J ND	ND ND	ND ND	ND ND	NA ND	ND ND	ND 0.007 J	0.003 J ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
	DUP2_07242014	7/16/2014	AMEC	ND ND	ND ND	ND	ND ND	ND ND	ND	ND ND	ND ND	ND	ND ND	ND	ND ND	ND ND	0.007 J	ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND	ND ND	ND ND
	PORTSMOUTH_07242014	7/24/2014	AMEC	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.004 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
	PORTSMOUTH_08062014	8/6/2014	AMEC	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005 J	ND	ND	ND	ND	ND	0.003 J	ND	ND	ND
	PORTSMOUTH_08212014	8/21/2014	AMEC	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005 J	ND	ND	ND	ND	ND	0.005 J	ND	ND	ND
	PORTSMOUTH_09042014	9/4/2014	AMEC	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.007 J	0.004 J	ND	ND	ND	ND	ND	ND	ND	ND
	PORTSMOUTH_09172014 PORTSMOUTH_10162014	9/17/2014 10/16/2014	AMEC	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND 0.004 J	ND 0.005 J	ND ND	ND ND	ND ND	ND ND	ND 0.004 J	0.008 J 0.009 J	ND 0.007 J	ND ND	ND ND	0.005 J 0.007 J	ND 0.006 J	0.004 J 0.009 J	ND ND	ND ND	ND ND
	PORTSMOUTH_11122014	11/12/2014	AMEC	ND	ND ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003 J	ND	ND	ND	0.004 J	ND	0.003 J	ND	ND	ND
	PORTSMOUTH_12122014	12/12/2014	AMEC	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005 J	ND	ND	ND	0.004 J	ND	0.006 J	ND	ND	ND
	PORTSMOUTH_01052015	1/5/2015	AMEC	ND	ND	ND	ND	ND	ND	ND	0.005 B	ND	ND	ND	0.006 J	ND	0.008 J	0.006 J	ND	ND	0.007 J	0.005 J	0.008 J	ND	ND	ND
	PORTSMOUTH_02042015	2/4/2015	AMEC	ND	ND	ND	ND	ND	ND	ND	0.003 J	ND	ND	ND	ND	ND	0.008 J	0.006 J	ND	0.003 J	0.008 J	0.007 J	0.009 J	ND	ND	ND
	PORTSMOUTH_03172015 PORTSMOUTH 03262015	3/17/2015	AMEC	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	0.004 J 0.005 J	ND ND	ND ND	0.007 J	ND ND	0.006 J 0.008 B	ND ND	ND ND	ND ND
	PORTSMOUTH_04232015	4/23/2015	AMEC	ND	ND ND	ND	0.005 B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.002 B	0.007 B	ND	ND	ND	ND	ND
	PORTSMOUTH_05212015	5/21/2015	AMEC	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.003 J	ND	ND	0.008 J	ND	0.004 J	ND	ND	ND
	PORTSMOUTH_06162015	6/16/2015	AMEC	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.006 J	ND	ND	ND	0.005 J	ND	0.005 J	0.005 J	ND	ND
	PORTSMOUTH_07162015	7/16/2015	AMEC	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005 J	ND	ND	ND	ND	ND
	PORTSMOUTH_08112015 PORTSMOUTH_09092015	8/11/2015 9/9/2015	AMEC AMEC	ND ND	ND ND	ND ND	ND	ND ND	ND ND	0.005 J ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	0.008 J 0.008 J	0.005 J ND	ND ND	ND ND	0.007 J 0.005 J	0.005 J 0.005 J	0.009 J 0.006 J	ND ND	ND ND	ND ND
	PORTSMOUTH_09092015 PORTSMOUTH_10072015	10/7/2015	AMEC	ND	ND ND	ND	ND ND	ND ND	ND	ND ND	ND ND	ND ND	ND	ND	ND ND	0.007 J	0.008 J	0.007 J	ND	ND	0.005 J	0.005 J	0.006 J	ND	ND ND	ND ND
_	PORTSMOUTH_11042015	11/4/2015	AMEC	ND	ND	ND	ND	ND	ND	0.007 J	0.007 J	ND	ND	ND	ND	ND	0.009 J	0.007 J	ND	ND	0.006 J	0.007 J	0.011 J	ND	ND	ND
Fe	PORTSMOUTH_12012015	12/1/2015	AMEC	ND	ND	ND	ND	ND	ND	0.007 J	0.010 J	ND	ND	ND	ND	0.005 J	0.011 J	0.008 J	ND	ND	0.008 J	0.007 J	0.006 J	ND	ND	ND
É	PORTSMOUTH_01062016	1/6/2016	AMEC	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.006 J	0.010 B	0.007 J	ND	ND	ND	0.006 J	0.008 J	ND	ND	ND
ē	PORTSMOUTH_02022016	2/2/2016	AMEC	ND	ND	ND	ND	ND	ND	ND ND	ND	ND ND	ND	ND	ND	ND	0.007 B	0.010 B	ND	ND	0.007 J	0.007 J 0.013 J	ND ND	ND	ND	ND
Portsmouth Well	PORTSMOUTH _03012016 PORTSMOUTH 03292016	3/1/2016 3/29/2016	AMEC	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	0.005 J	ND 0.009 J	ND ND	ND ND	ND ND	ND ND	0.008 J ND	0.012 J 0.009 B	ND ND	ND ND	ND ND	ND 0.004 J	0.013 J 0.006 J	0.009 J	ND ND	ND ND	ND ND
ř	PORTSMOUTH-04122016	4/12/2016	AMEC	ND	ND	NA	NA.	NA NA	NA NA	ND	ND	NA.	NA NA	NA	ND	0.005 J	0.010 B	0.009 B	ND	ND	0.007 B	ND	ND	NA	NA.	NA.
п.	PORTSMOUTH-GW_20160526	5/26/2016	AMEC	ND	ND	NA	NA	NA	NA	0.006 J	0.008 J	NA	NA	NA	ND	ND	0.007 J	ND	ND	ND	0.007 J	0.007 J	0.005 J	NA	NA	NA
	PORTSMOUTH-GW_20160623	6/23/2016	AMEC	ND	ND	NA	NA	NA	NA	0.004 J	ND	NA	NA	NA	ND	ND	0.007 J	0.006 J	ND	ND	0.006 J	ND	0.007 J	NA	NA	NA
	PORTSMOUTH-GW_20160719 PORTSMOUTH-GW 20160802	7/19/2016 8/2/2016	AMEC AMEC	ND ND	ND ND	NA NA	NA NA	NA NA	NA NA	ND 0.005 J	ND ND	NA NA	NA NA	NA NA	ND ND	ND ND	0.009 J 0.010 J	0.006 J 0.006 J	ND ND	ND ND	0.006 J 0.005 J	ND 0.007 J	0.009 J 0.010 J	NA NA	NA NA	NA NA
	PORTSMOUTH-GW_20160913	9/13/2016	AMEC	ND	ND ND	NA NA	NA NA	NA NA	NA NA	0.003 B	ND	NA NA	NA NA	NA NA	ND	ND	0.010 J	0.006 J	ND	ND	0.005 B	0.007 J	0.010 3 0.006 B	NA NA	NA NA	NA NA
	PORTSMOUTH-GW_20161117	11/17/2016	AMEC	ND	ND	NA	NA	NA	NA	0.003 J	ND	NA	NA	NA	ND	ND	0.009 J	ND	ND	ND	0.008 J	ND	0.009 J	NA	NA	NA
	PORTSMOUTH-GW_20170111	1/11/2017	AMEC	ND	ND	NA	NA	NA	NA	0.008 J	ND	NA	NA	NA	ND	ND	0.011 J	0.012 J	ND	ND	0.008 J	0.006 J	0.008 J	NA	NA	NA
	PORTSMOUTH-GW_20170217	2/17/2017	AMEC	ND	ND	NA	NA	NA	NA	0.002 J	ND	NA	NA	NA	ND	ND	0.005 J	ND	ND	ND	ND	0.005 J	0.007 J	NA	NA	NA
	DUP-GW_20170323 PORTSMOUTH-GW_20170323	3/23/2017 3/23/2017	AMEC	ND ND	ND ND	NA NA	NA NA	NA NA	NA NA	ND ND	ND ND	NA NA	NA NA	NA NA	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	0.003 J 0.003 J	NA NA	NA NA	NA NA
	PORTSMOUTH-GW_20170323	4/19/2017	AMEC	ND	ND ND	NA NA	NA NA	NA NA	NA NA	ND ND	ND	NA NA	NA NA	NA NA	ND	ND	0.010 J	ND	ND	ND ND	0.006 J	0.006 J	0.003 J	NA NA	NA NA	NA NA
	PORTSMOUTH-GW_20170612	6/12/2017	AMEC	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.004 J	ND	ND	ND	ND	0.007 J	ND	ND	ND	ND
	PORTSMOUTH-GW_20170711	7/11/2017	AMEC	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.011 J	ND	ND	ND	ND	ND	0.007 J	ND	ND	ND
	PORTSMOUTH-GW_20170802	8/2/2017	AMEC AMEC	ND ND	ND ND	ND NA	ND NA	ND NA	ND NA	0.006 J ND	ND ND	ND NA	ND NA	ND NA	ND ND	ND ND	0.010 J	0.006 J ND	ND ND	ND ND	0.004 J ND	0.008 J	ND	ND	ND NA	ND NA
	PORTSMOUTH-GW_20170915 PORTSMOUTH-GW 20171019	9/15/2017	AMEC	ND ND	ND ND	NA ND	NA ND	NA ND	NA ND	ND ND	ND ND	NA ND	NA ND	NA ND	ND ND	ND ND	0.009 J	ND ND	ND ND	ND ND	0.007 J	0.010 J	0.005 J ND	NA ND	NA ND	NA ND
	PORTSMOUTH-GW 20171114	11/14/2017	AMEC	ND	ND ND	ND	ND	ND ND	ND	ND	ND	ND	ND	ND	ND	ND ND	ND	ND	ND	ND	ND	0.005 J	ND	ND	ND	ND ND
	PORTSMOUTH-GW_20171208	12/8/2017	AMEC	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.009 J	ND	ND	ND	ND	0.009 J	ND	ND	ND	ND
	PORTSMOUTH-GW_20180109	1/9/2018	WOOD	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.007 J	ND	ND	ND	ND
	PORTSMOUTH-GW_20180206 PORTSMOUTH-GW_20180306	2/6/2018	WOOD	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.008 J	0.007 J	ND ND	0.004 J	0.008 J	0.009 J	ND	ND	ND	ND
	PORTSMOUTH-GW_20180306 PORTSMOUTH-GW_20180423	3/6/2018 4/23/2018	WOOD	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND 0.006 J	ND ND	ND ND	ND ND	ND ND
	PORTSMOUTH-GW_20180516	5/16/2018	WOOD	ND	ND ND	ND	ND	ND ND	ND ND	0.008 J	0.007 J	ND	ND	ND	ND	ND ND	ND	0.008 J	ND	ND ND	0.010 J	0.000 J	0.009 J	ND	ND	ND
	PORTSMOUTH-GW_20180606	6/6/2018	WOOD	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.004 J	ND	ND	ND	ND
	PORTSMOUTH-GW_20180712	7/12/2018	WOOD	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	PORTSMOUTH-GW_20180816	8/16/2018	WOOD	ND	ND	ND	ND	ND	ND	ND 0.007.1	ND	ND	ND	ND	ND	ND	0.008 J	0.007 J	ND	ND	ND .	0.006 J	ND	ND	ND	ND
	PORTSMOUTH-GW_20180920 PORTSMOUTH-GW_20181018	9/20/2018 10/18/2018	WOOD	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	0.007 J ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	0.009 J 0.006 J	0.007 J 0.005 J	ND ND	ND ND	0.008 J ND	0.006 J ND	ND ND	ND ND	ND ND	ND ND
	PORTSMOUTH-GW_20181107	11/7/2018	WOOD	ND	ND ND	NA NA	NA	NA NA	NA NA	ND ND	ND	NA	NA NA	NA.	ND	ND	0.008 J	0.005 J	ND	ND	ND	ND	ND	NA NA	NA NA	NA NA
	PORTSMOUTH-GW_20181219	12/19/2018	WOOD	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.008 J	0.006 J	ND	ND	ND	0.004 J	ND	ND	ND	ND
	PORTSMOUTH-GW_20190123	1/23/2019	WOOD	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	PORTSMOUTH-GW_20190220	2/20/2019	WOOD	ND 0.001 L	ND ND	ND NA	ND NA	ND NA	ND NA	ND 0.002	ND 0.003	ND ND	ND	ND	ND	ND 0.003	ND 0.006	ND 0.004	ND 0.001 I	ND	ND 0.004	ND 0.004	ND 0.005	ND	ND ND	ND ND
	PORTSMOUTH WELL_20190429	4/29/2019	₽₽W	0.001 J	ND	NA	ΝA	NA	NA	0.002	0.003	ND	ND	ND	ND	0.003	0.006	0.004	0.001 J	ND	0.004	0.004	U.005	ND	ND	ND

Complilation of PFAS Analytical Results Portsmouth Public Water Supply Monitoring Program

										Portsilie	Julii Public	water St	ipply Monito	ring Prog	gram											
Sample Location	Sample ID	Collection Date	Sampled By	6:2 Fluorotelomer sulfonate (6:2 FTS)	8:2 Fluorotelomer sulfonate (8:2 FTS)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl Perfluorooctane Sulfonamide (MEFOSA)	N-Methyl Perfluorooctane Sulfonamidoethanol (MEFOSE)	Perfluorobutanes ulfonic acid (PFBS)	Perfluorobutanoic acid (PFBA)	Perfluorodecane sulfonate (PFDS)	Perfluorodecanoic acid (PFDA)	Perfluorododecanoic acid (PFDoA)	Perfluoroheptane sulfonate (PFHpS)	Perfluoroheptanoic acid (PFHpA)	Perfluorohexanesulfonic acid (PFHxS)	Perfluorohexanoic acid (PFHxA)	Perfluorononanoic acid (PFNA)	Perfluorooctane sulfonamide (PFOSA)	Perfluorooctanesulfonic acid (PFOS)	Perfluorooctanoic acid (PFOA)	Perfluoropentanoic acid (PFPeA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluo rotridecanoic acid (PFTrDA)	Perfluoroundecanoic acid (PFUnA)
	USEPA	Health Advisory (HA	A):	-	-	-	-	-	-	-	-	-	-	=	-	-	-	-	-	-	0.070	0.070	-	-	-	-
	BELLAMY RAW	5/16/2014	NHDES	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	ND	ND	NA	ND	NA	ND	ND	NA	NA	NA	NA
	BELLAMY RESERVOIR - 20160609	6/9/2016	DPW	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Bellamy Reservoir Source Water	BELLAMY RESERVOIR - 20161109	11/9/2016	DPW	ND	ND	ND	ND	ND	ND	0.004 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	BELLAMY RESERVOIR - 20170427	4/27/2017	DPW	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	BELLAMY RESERVOIR - 20171031	10/31/2017	DPW	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	BELLAMY RESERVOIR_20180426	4/26/2018	DPW	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	BELLAMY RESERVOIR_20181024	10/24/2018	DPW	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.010 J	ND	ND	ND	ND
	BELLAMY RESERVOIR_20181128	11/28/2018	DPW	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	BELLAMY RESERVOIR - 20190429	4/29/2019	DPW	0.001 J	ND	NA	NA	NA	NA	0.001 J	0.002	ND	0.001 J	ND	ND	0.002 J	0.001 J	0.002 J	0.001 J	ND	0.002 J	0.003	0.002	ND	ND	ND
	MARRIE A	E(40)004 :	NUDEC			210	NIA	212	210	ND		210		212	NIA	NE	ND	114	ND	210	ND	NE	114	210	110	114
	MADBURY WELL 2	5/16/2014	NHDES	NA ND	NA ND	NA NA	NA	NA NA	NA	ND 0.004 I	NA NB	NA.	NA NA	NA	NA ND	ND	ND 2004 I	NA	ND	NA ND	ND	ND	NA ND	NA	NA	NA NA
Madbury Well 2	MADBURY WELL 2_20161109	11/9/2016	DPW	ND	ND	ND	ND	ND	ND	0.004 J	ND	ND	ND	ND	ND	ND	0.004 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
	MADBURY WELL 2_20171031	10/31/2017	DPW	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	MADBURY WELL 2_20180426	4/26/2018	DPW	ND	ND	ND ND	ND	ND	ND	ND	ND	ND ND	ND	ND	ND ND	ND	ND	ND ND	ND	ND ND	ND	ND 0.000 I	ND	ND	ND	ND ND
	MADBURY WELL 2_20181024	10/24/2018	DPW	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	0.009 J	ND ND	ND ND	ND ND	ND ND
	MADBURY WELL 2_20181128	11/28/2018		0.001 J	ND ND	NA NA	NA NA	NA NA	NA NA	0.003	0.002	ND ND		ND	ND ND	0.002 J	0.001 J	0.003		ND ND	0.002 J	0.004	0.003	ND	ND ND	ND ND
	MADBURY WELL 2_20190429	4/29/2019	DPW	0.001 J	ND	NA	NA	NA	NA	0.003	0.002	ND	ND	ND	ND	0.002 J	0.001 J	0.003	ND	ND	0.002 J	0.004	0.003	ND	ND	ND
	MADBURY WELL 3	5/16/2014	NHDES	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	ND	ND	NA	ND	NA	ND	ND	NA	NA	NA	NA
	MADBURY WELL 3 20160609	6/9/2016	DPW	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Madbury Well 3	MADBURY WELL 3_20160916	11/9/2016	DPW	ND	ND	ND	ND	ND	ND	0.004 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	MADBURY WELL 3_20170427	4/27/2017	DPW	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	MADBURY WELL 3_20171031	10/31/2017	DPW	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	MADBURY WELL 3 20180426	4/26/2018	DPW	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	MADBURY WELL3_20181024	10/24/2018	DPW	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	MADBURY WELL 3 20190429	4/29/2019	DPW	0.001 J	ND	NA	NA	NA	NA	0.002 J	0.002	ND	ND	ND	ND	0.001 J	0.001 J	0.002 J	0.001 J	ND	0.002 J	0.003	0.002 J	ND	ND	ND
	_																									
																										_
	MADBURY WELL 4	5/16/2014	NHDES	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	ND	ND	NA	ND	NA	ND	ND	NA	NA	NA	NA
Madbury Well 4	MADBURY WELL 4_20161109	11/9/2016	DPW	ND	ND	ND	ND	ND	ND	0.004 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	MADBURY WELL 4_20170427	4/27/2017	DPW	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	MADBURY WELL 4_20171031	10/31/2017	DPW	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	MADBURY WELL 4_20180426	4/26/2018	DPW	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	MADBURY WELL 4_20181024	10/24/2018	DPW	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	MADBURY WELL 4_20190429	4/29/2019	DPW	0.002 J	ND	NA	NA	NA	NA	0.002	0.001 J	ND	ND	ND	ND	0.001 J	0.001 J	0.001 J	ND	ND	0.001 J	0.002	0.001 J	ND	ND	ND
																									_	
Treetment Di	MADBURY FINISHED_20161109	11/9/2016	DPW	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Treatment Plant Finished Water	MADBURY FINISHED_20170427	4/27/2017	DPW	ND	ND	ND	ND	ND	ND	ND	0.018 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	MADBURY FINISHED_20171031	10/31/2017	DPW	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	MADBURY FINISHED_20180426	4/26/2018	DPW	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	MADBURY FINISHED_20181024	10/24/2018	DPW	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	MADBURY FINISHED_20181128	11/28/2018	DPW	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	MADBURY FINISHED_20190429	4/29/2019	DPW	0.002 J	ND	NA	NA	NA	NA	0.001 J	0.001 J	ND	0.001 J	ND	ND	0.002 J	0.001 J	0.002 J	0.001 J	ND	0.001 J	0.003	0.002 J	ND	ND	ND
					-			-	-																	
	TREATMENT PLANT	7/21/2014	DPW	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	ND	ND	NA	ND	NA	ND	ND	NA	NA	NA	NA
	MADBURY BLEND_20141027	10/27/2014	NHDES	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	ND ND	NA NA	NA NA	NA NA	NA NA	NA NA	ND ND	ND ND	NA NA	ND	NA NA	ND ND	ND ND	NA NA	NA NA	NA NA	NA NA
Madbury Blend (treatment plant and	MADBURY BLEND_20141027 MADBURY BLEND_20150210	2/10/2015	NHDES	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	ND ND	NA NA	NA NA	NA NA	NA	NA NA	ND	ND ND	NA NA	ND	NA NA	ND	ND ND	NA NA	NA NA	NA NA	NA NA
wells)	MADBURY BLEND_20150210 MADBURY BLEND 20150407	4/7/2015	DPW	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	ND ND	NA NA	NA NA	NA NA	NA NA	NA NA	ND ND	ND ND	NA NA	ND	NA NA	ND ND	ND ND	NA NA	NA NA	NA NA	NA NA
	MADBURY BLEND_20160607	6/7/2016	DPW	ND.	ND	ND.	ND	ND	ND	ND ND	ND	ND	ND	ND	ND.	0.005 J	ND ND	ND.	ND	ND.	ND ND	ND ND	ND	0.006 J	0.010 J	ND
		0.7.20.0	12		.,,,	.,,,,	110			.,,,	140		140	140	.,,,,	0.000 0	140	140	.40	.,,,				0.000 0	0.0100	

Complitation of PFAS Analytical Results

	Portsmouth Public Water Supply Monitoring Program Set S																									
Sample Location	Sample ID	Collection Date	Sampled By	6:2 Fluorotelomer sulfonate (6:2 FTS)	8:2 Fluorotelomer sulfonate (8:2 FTS)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl Perfluorooctane Sulfonamide (MEFOSA)	N-Methyl Perfluorooctane Sulfonamidoethanol (MEFOSE)	Perfluorobutanes ulfonic acid (PFBS)	Perfluorobutanoic acid (PFBA)	Perfluorodecane sulfonate (PFDS)	Perfluorodecanoic acid (PFDA)	Perfluorododecanoic acid (PFDoA)	Perfluoroheptane sulfonate (PFHpS)	Perfluoroheptanoic acid (PFHpA)	Perfluorohexanesulfonic acid (PFHxS)	Perfluorohexanoic acid (PFHxA)	Perfluorononanoic acid (PFNA)	Perfluorooctane sulfonamide (PFOSA)	Perfluorooctanesulfonic acid (PFOS)	Perfluorooctanoic acid (PFOA)	Perfluoropentanoic acid (PFPeA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluoroundecanoic acid (PFUnA)
	USEPA	Health Advisory (HA):	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-		0.070	0.070		-	-	-
	GREENLAND	5/16/2014	NHDES	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	ND	ND	NA	ND	NA	ND	ND	NA	NA	NA	NA
	GREENLAND WELL 20140721	7/21/2014	NHDES	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	ND	ND	NA	ND	NA	ND	ND	NA	NA	NA	NA
	GREENLAND WELL_20150210	2/10/2015	NHDES	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	ND	ND	NA	ND	NA	ND	ND	NA	NA	NA	NA
	GREENLAND WELL_20160801	8/1/2016	DPW	ND	ND	ND	ND	ND	ND	0.003 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.007 J	ND	0.007 J	ND	ND	ND
Greenland Well	GREENLAND WELL_20161117	11/17/2016	DPW	0.007 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.006 J	ND	ND	ND	0.014 J	ND	0.005 J	ND	ND	ND
	GREENLAND WELL_20161117_RERUN	11/17/2016	DPW	ND	ND	ND	ND	ND	ND	0.004 J	ND	ND	ND	ND	ND	ND	0.006 J	ND	ND	ND	0.007 J	ND	ND	ND	ND	ND
	GREENLAND WELL_20170427	4/27/2017	DPW	ND	ND	ND	ND	ND	ND	0.006 J	ND	ND	ND	ND	ND	ND	0.006 J	0.003 J	ND	ND	0.004 J	ND	ND	ND	ND	ND
	GREENLAND WELL_20171031	10/31/2017	DPW	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005 J	ND	ND	ND	ND	ND
	GREENLAND WELL_20180426	4/26/2018	DPW	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	GREENLAND WELL_20181024	10/24/2018	DPW	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.009 J	ND	ND	0.009 J	0.009 J	ND	ND	ND	ND
	GREENLAND WELL_20181128	11/28/2018	DPW	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.006 J	ND	ND	ND	ND	ND	ND	ND	ND
	GREENLAND WELL_20190429	4/29/2019	DPW	0.001 J	ND	NA	NA	NA	NA	0.002	0.003	ND	ND	ND	ND	0.003	0.002	0.006	0.001 J	ND	0.003	0.004	0.006	ND	ND	ND
	GREENLAND WELL_20190429DUP	4/29/2019	DPW	0.001 J	ND	NA	NA	NA	NA	0.002	0.003	ND	ND	ND	ND	0.003	0.002 J	0.005	0.001 J	ND	0.003	0.004	0.006	ND	ND	ND

Complitation of PFAS Analytical Results Portsmouth Public Water Supply Monitoring Program

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Sample Location	Gl eldmis	Collection Date	Sampled By	6:2 Fluorotelomer sulfonate (6:2 FTS)	8:2 Fluorotelomer sulfonate (8:2 FTS)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	N-Methyl Perfluorooctane Sulfonamide (MEFOSA)	N-Methyl Perfluorooctane Sulfonamidoethanol (MEFOSE)	Perfluorobutanes ulfonic acid (PFBS)	Perfluorobutanoic acid (PFBA)	Perfluorodecane sulfonate (PFDS)	Perfluorodecanoic acid (PFDA)	Perfluorododecanoic acid (PFDoA)	Perfluoroheptane sulfonate (PFHpS)	Perfluoroheptanoic acid (PFHpA)	Perfluorohexanesulfonic acid (PFHxS)	Perfluorohexanoic acid (PFHxA)	Perfluorononanoic acid (PFNA)	Perfluorooctane sulfonamide (PFOSA)	Perfluorooctanesulfonic acid (PF OS)	Perfluorooctanoic acid (PFOA)	Perfluoropentanoic acid (PFPeA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluoroundecanoic acid (PFUnA)
	USEPA	Health Advisory (H	A):	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.070	0.070	-	-	-	-
DISTRIBUTION					,												,									
DPW	DPW	5/16/2014	NHDES	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	ND	ND	NA	ND	NA	ND	ND	NA	NA	NA	NA
New Castle	NEW CASTLE	5/16/2014	NHDES	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	ND	ND	NA	ND	NA	ND	ND	NA	NA	NA	NA
Library	LIBRARY	6/7/2016	DPW	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005 J	ND	ND	ND	ND	ND	ND	ND	0.007 J	0.006 J	0.009 J	ND
Sagamore Ave. Sample Site	SAGAMORE AVE	6/7/2016	DPW	ND	ND	ND	ND	ND	ND	0.005 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.008 J	0.005 J	0.009 J	ND

Notes

Grey text indicates the parameter was not analyzed (NA) or not detected below the laboratory detection limit (ND).

Grey highlight indicates the compound was not analyzed All concentrations in $\mu g/L$ - micrograms per liter

All values in micrograms per liter (µg/L)

D - duplicate sample

J - The result is an estimated value.

B - Compound Detected in Blank.