Commonwealth of Massachusetts
Executive Office of Energy & Environmental Affairs

Department of Environmental Protection

Western Regional Office • 436 Dwight Street, Springfield MA 01103 • 413-784-1100

Charles D. Baker
Governor

Karyn E. Polito
Lieutenant Governor

Matthew A. Beaton
Secretary

Martin Suuberg
Commissioner

Mayor Brian P. Sullivan
59 Court Street - Room 202
Westfield, MA 01085

August 2, 2017

RE: MassDEP Private Well Sampling- PFCs
RTN: 1-20093

Dear Mayor Sullivan,

In a collaborative effort to work with both the City of Westfield and the Barnes Air National Guard, MassDEP has implemented a phased approach to investigate whether private wells have been affected by a release of perflourinated chemicals (PFCs) to the groundwater. To date, we have sampled forty-six (46) private wells and have issued seventy-eight (78) access agreement letters. MassDEP is continuing to call individuals who have received access agreement letters to schedule sampling. As additional data is received MassDEP will review the results and adjust the sampling locations as needed. EPA has established a Lifetime Health Advisory level at 70 parts per trillion (ppt). All results we have received to date are summarized in a table on Page 2 of this letter. The results added to the table in this round indicate the following:

Two (2) of the private well sampling results indicate PFCs were not detected above the laboratory reporting level, which is now down to 2 ppt. In the table these are shown as ND for Non Detect.

Three (3) of the results of the sampling results had detections of PFCs; however, the results were well below the lifetime EPA Health Advisory of 70 ppt.

The EPA advisory is specifically for two PFC compounds which have been the most extensively used and studied, PFOA (perfluorooctanoic acid) and PFOS (perfluorooctane sulfonic acid) which together or individually exceed 70 ppt. The Health Advisory offers a margin of protection from a lifetime of exposure for all individuals from adverse health effects resulting from exposure from these compounds in drinking water.

Below are the laboratory results of the forty- six (46) private well sampled to date:

Address	Date Sampled	Laboratory Results for PFOA + PFOS (70 ppt Advisory)
39 Schumann Drive	6/27/2017	ND
235 Buck Pond Road	6/27/2017	3 ppt
253 Buck Pond Road	6/27/2017	ND
277 Buck Pond Road	6/27/2017	3 ppt
229 Buck Pond Road	6/27/2017	13 ppt
1551 East Mountain	6/14/2017	6 ppt
43 Indian Ridge	6/14/2017	8 ppt
1545 East Mountain Road	6/14/2017	4 ppt
1358 East Mountain	6/14/2017	ND
14 Indian Ridge Road	6/14/2017	ND
1534 East Mountain	6/14/2017	3 ppt
369 Pochassic Road	6/14/2017	ND
1557 East Mountain	6/14/2017	6 ppt
5 Tina Lane	6/9/2017	ND
20 Old Holyoke Rd	6/9/2017	8 ppt
1720 East Mountain	6/9/2017	6 ppt
1331 East Mountain	6/9/2017	2 ppt
39 Indian Ridge	6/9/2017	ND
19 Indian Ridge	6/9/2017	6 ppt
36 Indian Ridge Rd	6/9/2017	8 ppt
1355 East Mountain	6/9/2017	ND
1588 East Mountain	6/9/2017	7 ppt
281 Lower Sandy Hill Rd	**6/2/2017**	**141 ppt**
289 Lower Sandy Hill Rd	**6/2/2017**	**787 ppt**
2 Tina Lane	5/19/2017	ND
20 Hillcrest Circle	5/19/2017	ND
539 North Road	5/18/2017	ND
1295 Southampton	5/18/2017	ND
21 Hillcrest Circle	5/18/2017	ND
285 Lower Sandy Hill Rd	**5/10/2017**	**864 ppt**
232 Buck Pond Road	5/10/2017	19 ppt
27 Indian Ridge Road	5/10/2017	18 ppt
1214 East Mountain Road	5/10/2017	17 ppt
16 Mockingbird Lane	5/10/2017	ND
294 Union Street	5/10/2017	ND
533 North Road	5/10/2017	ND
42 Old Holyoke Road	5/10/2017	ND
43 Hillcrest Circle	5/10/2017	ND
23 Deveno Lane	4/28/2017	ND
95 Old Holyoke Road	4/28/2017	ND
20 Ridge Trail Road	4/28/2017	ND
1524 East Mountain Road	4/28/2017	ND
2050 East Mountain Road	4/28/2017	ND
34 Lewis Road	4/28/2017	ND
1850 East Mountain Road	4/28/2017	ND
1749 East Mountain Road	4/28/2017	ND

Please note that this table includes all of the sampling results to date. The private well owners have been notified of the results prior the issuance of this letter and have been mailed copies of their laboratory results. MassDEP is continuing to sample private wells and will keep the City, its citizens and Barnes Air National Guard Base apprised of the results as we receive them. A copy of all of the laboratory results is accessible through the City of Westfield's website and can be viewed at http://public.dep.state.ma.us/fileviewer/Rtn.aspx?rtn=1-0020093.

If you have any questions regarding this letter please contact me at (413) 755-2213 or Eva Tor at 413-755-2295.

Sincerely,

Michael Gorski
Regional Director

Ecc: Barnes ANG – Colonel James Suhr
Colonel Peter Green
John Richardson
Barnes Aquifer Protection Committee - Patty Gambarini
Westfield DPW - David Billips
Westfield Health Department - Joseph Rouse
Westfield Councilor Mary Ann Babinski
Massachusetts Department of Public Health – Dr. Marc Nascarella

Commonwealth of Massachusetts
Executive Office of Energy & Environmental Affairs

Department of Environmental Protection

Western Regional Office • 436 Dwight Street, Springfield MA 01103 • 413-784-1100

Charles D. Baker
Governor

Karyn E. Polito
Lieutenant Governor

Matthew A. Beaton
Secretary

Martin Suuberg
Commissioner

August 2, 2017

Tina Siniscalchi
253 Buck Pond Road
Westfield, MA 01085

Re: Notice of Environmental Sampling
253 Buck Pond Road
Westfield Private Well Sampling
RTN 1-20093

Dear Ms. Siniscalchi:

The Department of Environmental Protection (DEP) collected a drinking water sample from your private well on June 27, 2017. The purpose of the sampling was to investigate whether your well has been affected by a release of perfluorinated compounds (PFCs) to local groundwater. The sample was sent to a certified laboratory and analyzed for PFC compounds by modified United States Protection Agency (EPA) Method 317.1. EPA has established a Lifetime Health Advisory level at 70 parts per trillion (ppt), for two specific compounds which have been the most extensively used and studied, PFOA (perfluorooctanoic acid) and PFOS (perfluorooctane sulfonic acid). If both PFOA and PFOS are identified in drinking water the combined concentrations are compared to the 70 ppt health advisory level. The Health Advisory offers a margin of protection from a lifetime of exposure to PFOA and PFOS for all individuals from adverse health effects resulting from exposure from PFOA and PFOS in drinking water[1]

The sampling result indicates PFOA and PFOS compounds were not detected above the laboratory reporting limit of 2 ppt. Based on the absence of detectable PFC compounds in the sample collected from your well, no further action, including additional sampling and/or mitigation measures (i.e. bottled water) are required at this time. The Department thanks you for granting access to your property.

If you have any questions pertaining to this Notice of Environmental Sampling or with the information contained within, please feel free to contact David Bachand at (413) 755-2221 or Cynthia Pawloski at (413) 755-2247.

Sincerely,

E. Tor

Eva Tor
Deputy Regional Director
Bureau of Waste Site Cleanup

[1] Fact Sheet PFOA & PFOS Drinking Water Health Advisories. EPA, EPA 800 F-16-003, June 2016

Attachments: Notice of Environmental Sampling (BWSC-123)
Laboratory Report

ec Mayor, City of Westfield
Barnes ANG-John Richardson
Barnes Aquifer Protection Committee
Westfield DPW – David Billips
Westfield Health Department
Westfield Councilor Mary Ann Babinski
Dr. Marc A. Nascarella, Ph.D/DPH

cc: Denise Andler, DEP WERO
Data Entry: FOLOFF, FOLFLD

FREQUENTLY ASKED QUESTIONS ABOUT MASSDEP'S ACCESS AND CONSENT TO ENTER PROPERTY AGREEMENTS

1. Why does MassDEP need access to my property?

   The Massachusetts Department of Environmental Protection (MassDEP) is the state agency responsible under state law, Massachusetts General Laws Chapter 21E (Chapter 21E), for regulating responses to the release or threat of release of oil or hazardous materials into the environment. As part of its legal responsibilities, MassDEP sometimes needs to enter property to assess, contain and/or remove contamination in order to protect public health, safety, welfare and the environment. MassDEP's authority for seeking property access for this work is found in Sections 4 and 8 of Chapter 21E.

2. Am I responsible for any contamination that is found on my property?

   Sometimes. Section 5 of Chapter 21E provides that the owner of property where a release or threat of release of oil or hazardous materials into the environment has occurred or come to be located (the "Site") is responsible for the cleanup of that contamination. MassDEP assigns a Release Tracking Number to each Site. Typically, MassDEP notifies owners of Sites of their responsibility for cleanup by means of a letter called a "Notice of Responsibility" before requesting access onto the Site.

   However, MassDEP sometimes seeks access onto property, which has not been identified as part of a Site, to investigate and ensure that contamination has not migrated from a nearby Site onto the property (for example, when underground gasoline contamination migrates through groundwater into adjacent properties with private water supply wells). The goal of MassDEP's investigation in such cases is to protect the public health and safety of the adjacent property owners, as well as the environment. In many instances, the owner of the property that is not the source of the release will not be required to clean up migrating surface or groundwater contamination, for example, if the owner qualifies for a special status known as Downgradient Property Status ("DPS"). A DPS property owner will not in most instances be required to clean up the migrating contamination, although the owner may be responsible to address any immediate concerns on the property (e.g., explosive or toxic vapors seeping into a building).

3. Will I need to pay for the work MassDEP performs on my property?

   Maybe. As discussed above, a property owner is usually responsible for the cleanup of contamination on his or her property. Chapter 21E also authorizes MassDEP to clean up the contamination itself and then seek repayment from the parties responsible for the cleanup. MassDEP may exercise its authority to perform cleanup work if, for example, parties are unwilling or unable to do the cleanup themselves. MassDEP may also place liens on property owned by parties' responsible for the cleanup.

   Just as a DPS property owner will usually not be responsible for doing cleanup, a DPS property owner will also usually not be responsible for MassDEP's cleanup costs or have liens placed on its property.

4. Can I be present on the property while MassDEP performs the work?

   Generally, property owners can be present while MassDEP is performing its work activities, provided that property owners do not disrupt or interfere with the work activities and comply with any health and safety measures or legal requirements to ensure a property owner's safety during the work activities.

5. Can my Licensed Site Professional obtain samples from the work MassDEP is performing on my property?

   A Site owner who has retained a Licensed Site Professional ("LSP," an individual who is specially licensed by the state and is hired by Site owners to clean up contaminated properties) can have the LSP

present on the property during MassDEP work activities, and the LSP can obtain duplicate samples from MassDEP upon request, as long as the duplicate sampling analysis requested by the LSP is paid for by the Site owner.

6. Do I have to allow MassDEP access to my property?

   A property owner can always refuse to grant MassDEP access onto his or her property. Because MassDEP's goal in seeking access onto property is to protect public health, safety, welfare and the environment, MassDEP will always try to work cooperatively with property owners to obtain voluntary access in a way that minimizes any disruption or inconvenience to the property owner. Where a property owner does refuse to grant MassDEP access, however, MassDEP has the right under Section 8 of Chapter 21E to seek a court order permitting MassDEP entry onto the property to perform any work required to protect public health, safety, welfare and the environment.

7. Can I ask MassDEP to alter its work schedule to minimize disruption to my business or tenants?

   MassDEP will always work cooperatively with property owners to minimize any disruption to business, commercial activities and/or property tenants when seeking access.

8. Will MassDEP reimburse me for any damage done to the property as a result of cleanup activities?

   MassDEP's contractors all carry insurance to cover the work activities being performed on the property and upon request, the property owner can obtain a Certificate of Insurance (listing the property owner as an additional insured) from each MassDEP contractor involved in the project. Upon completion of the work, MassDEP will make reasonable efforts to restore the areas of the property where the work activities occurred to its prior condition.

9. Will MassDEP reimburse or compensate me for any loss caused by contamination found on my property?

   No. As noted in Question 2 above, property owners of a Site are responsible under Chapter 21E for the cleanup of contamination on, and migrating from the Site. In addition, there may be circumstances under which downgradient property owners may be responsible for the costs of activities required to address any immediate concerns that result from contaminant migration.

MASSACHUSETTS DEPARTMENT OF PUBLIC HEALTH

PFOS and PFOA in Drinking Water

This fact sheet answers frequently asked questions about the detection of Perfluorooctanoic acid (PFOA) and Perfluorooctane sulfonate (PFOS) in drinking water. The US Environmental Protection Agency (US EPA) updated the lifetime health advisory (HA) level, and we would like to inform and update you on what it means.

WHAT ARE PFOA AND PFOS?

PFOA and PFOS are fluorinated organic chemicals that are part of a larger group of chemicals referred to as perfluoroalkyl substances (PFAs). PFOA and PFOS have been the most extensively produced and studied of these chemicals. They have been used to make carpets, clothing, fabrics for furniture, paper packaging for food, and other materials (e.g., cookware) that are resistant to water, grease or stains. They are also used in aqueous firefighting foam and in a number of industrial processes. Because these chemicals have been used in an array of consumer products, most people have been exposed to them.

Many PFAs are no longer being produced in this country; the largest manufacturer completely stopped PFOA/PFOS production in 2002. PFAs are still being produced in other countries and may be imported into the US in limited quantities. The EPA and the PFA industry launched the PFOA Stewardship Program in 2006 to work toward ending the production of PFOA and other PFAs.

While consumer products and food are a large source of exposure for most people, drinking water can be an additional source in the small percentage of communities where these chemicals have contaminated water supplies. Such contamination is typically localized and associated with a specific facility (e.g. an industrial facility where these chemicals were produced or used to manufacture other products or where firefighting foam was used).

HOW ARE PFOS/PFOA REGULATED?

Because they are emerging contaminants, there are currently no established regulatory limits for levels in drinking water. The US EPA has recently set a health advisory level (HA) of 0.07 micrograms per liter (µg/L) for both PFOS and PFOA in May 2016.

HOW CAN PFOS/PFOA AFFECT MY HEALTH?

There are many gaps in the current scientific literature, but it is believed that PFAs may affect human health. Most research is based on animal studies and scientists are still unsure of the difference between how animals and humans respond to PFAs. They are associated with changes in thyroid, liver, and kidney function, as well changes in hormone levels. These two chemicals have also been shown to cause developmental effects to fetuses during pregnancy and in breastfed infants.

CAN PFAs CAUSE CANCER?

There is no conclusive evidence that PFAs cause cancer, though several animal studies and legal cases have identified a possible link between them. The EPA reports there is suggestive evidence that these chemicals can increase the risk of cancer. Both the EPA and the National Toxicology Program are continuing research on the cancer potential of PFAs.

WHAT IS MY RISK IF I DRANK WATER ABOVE THE HEALTH ADVISORY LEVEL?

Drinking water at a level above EPA's HA does not necessarily mean that health risks are expected. This is because the HA is based on a level that is safe to drink for an entire lifetime. By convention, a value such as the HA is used as a "screening" value that is designed to overestimate exposure and ensure that sensitive individuals are protected. For example, the HA assumes that individuals drink only contaminated water and are also exposed to PFAs from sources beyond drinking water, such as food. Several safety factors are additionally applied to account for the differences between animals and humans and the differences from one human to another human. Under this scenario, a risk would be expected only if an individual continuously drinks only contaminated water at a level higher than the HA.

WHAT SHOULD I DO TO LIMIT EXPOSURE?

PFAs are found at low levels in the environment, in consumer products, and food, so it is nearly impossible to eliminate all exposure. If you live near a site where PFA contamination has been identified, there are several ways to limit your exposure such as drinking and cooking with bottled water, and using pre-mixed baby formula, or bottled water for reconstituting powdered formula. Using contaminated water for routine showering and bathing are not significant sources of exposure.

WHERE CAN I GET MORE INFORMATION?

For questions about drinking water quality contact the:

MassDEP Drinking Water Program
617-292-5770
Program.Director-DWP@state.ma.us
http://www.mass.gov/eea/agencies/massdep/water/drinking/is-there-copper-in-my-tap-water.html

For health-related questions contact the:

Environmental Toxicology Program
Bureau of Environmental Health, MDPH
250 Washington Street, 7th Floor, Boston, MA 02108
Phone: 617-624-5757 | Fax: 617-624-5777 | TTY: 617-624-5286

US EPA's Drinking Water Health Advisories
https://www.epa.gov/ground-water-and-drinking-water/drinking-water-health-advisories-pfoa-and-pfos

July 2016

Images courtesy of Richard Duncan and Debora Cartagena at the Centers for Disease Control and Prevention.

This fact sheet was supported in part by funds from a cooperative agreement with the Agency for Toxic Substances and Disease Registry (ATSDR), U.S. Department of Health and Human Services. This document has not been reviewed and cleared by ATSDR.

con-test®
ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

July 13, 2017

Rob Smith
ATC Group Services LLC - West Springfield
73 Williams Franks Drive
West Springfield, MA 01089

Project Location: 253 Buck Pond Rd., Westfield
Client Job Number:
Project Number: 183EM00170
Laboratory Work Order Number: 17F1644

Enclosed are results of analyses for samples received by the laboratory on June 28, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kerry K. McGee

Kerry K. McGee
Project Manager

Table of Contents

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ATC Group Services LLC - West Springfield
73 Williams Franks Drive
West Springfield, MA 01089
ATTN: Rob Smith

REPORT DATE: 7/13/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 183EM00170

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17F1644

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 253 Buck Pond Rd., Westfield

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
253 Buck Pond Rd-1	17F1644-01	Drinking Water		EPA 537	

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

EPA 537

Qualifications:

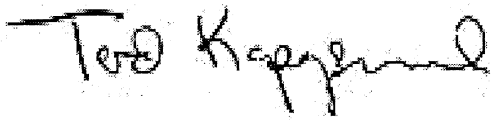
S-18

Surrogate recovery is outside of control limits, matrix interference suspected. Insufficient sample available for reanalysis.

Analyte & Samples(s) Qualified:

d5-NEtFOSAA
17F1644-01[253 Buck Pond Rd-1]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Tod E. Kopyscinski
Laboratory Director

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 253 Buck Pond Rd., Westfield Sample Description: Work Order: 17F1644

Date Received: 6/28/2017

Field Sample #: 253 Buck Pond Rd-1 Sampled: 6/27/2017 11:04

Sample ID: 17F1644-01

Sample Matrix: Drinking Water

Miscellaneous Organic Analyses

Analyte	Results	RL	MCL/SMCL MA ORSG	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoroundecanoic acid (PFUnA)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 22:20	BLM
Perfluorotridecanoic acid (PFTrDA)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 22:20	BLM
Perfluorotetradecanoic acid (PFTA)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 22:20	BLM
Perfluorooctanoic acid (PFOA)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 22:20	BLM
Perfluorooctanesulfonic acid (PFOS)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 22:20	BLM
Perfluorononanoic acid (PFNA)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 22:20	BLM
Perfluorohexanoic acid (PFHxA)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 22:20	BLM
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 22:20	BLM
Perfluoroheptanoic acid (PFHpA)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 22:20	BLM
Perfluorododecanoic acid (PFDoA)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 22:20	BLM
Perfluorodecanoic acid (PFDA)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 22:20	BLM
Perfluorobutanesulfonic acid (PFBS)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 22:20	BLM
NEtFOSAA	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 22:20	BLM
NMeFOSAA	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 22:20	BLM
Perfluoropentanoic acid (PFPeA)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 22:20	BLM

Surrogates	% Recovery		Recovery Limits	Flag/Qual	
13C-PFHxA	125		70-130		7/12/17 22:20
13C-PFDA	129		70-130		7/12/17 22:20
d5-NEtFOSAA	**133**	*	70-130	S-18	7/12/17 22:20

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: EPA 537-EPA 537

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17F1644-01 [253 Buck Pond Rd-1]	B181002	250	1.00	07/06/17

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Miscellaneous Organic Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B181002 - EPA 537										
Blank (B181002-BLK1)				Prepared: 07/06/17 Analyzed: 07/12/17						
Perfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L							
Perfluorotridecanoic acid (PFTrDA)	ND	2.0	ng/L							
Perfluorotetradecanoic acid (PFTA)	ND	2.0	ng/L							
Perfluorooctanoic acid (PFOA)	ND	2.0	ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	ng/L							
Perfluorononanoic acid (PFNA)	ND	2.0	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	2.0	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	2.0	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	2.0	ng/L							
Perfluorodecanoic acid (PFDA)	ND	2.0	ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	ng/L							
NEtFOSAA	ND	2.0	ng/L							
NMeFOSAA	ND	2.0	ng/L							
Perfluoropentanoic acid (PFPeA)	ND	2.0	ng/L							
Surrogate: 13C-PFHxA	*35.3*		ng/L	40.0		88.2	70-130			
Surrogate: 13C-PFDA	*41.8*		ng/L	40.0		105	70-130			
Surrogate: d5-NEtFOSAA	*172*		ng/L	160		107	70-130			
LCS (B181002-BS1)				Prepared: 07/06/17 Analyzed: 07/12/17						
Perfluoroundecanoic acid (PFUnA)	25.4	2.0	ng/L	20.0		127	70-130			
Perfluorotridecanoic acid (PFTrDA)	21.0	2.0	ng/L	20.0		105	70-130			
Perfluorotetradecanoic acid (PFTA)	20.6	2.0	ng/L	20.0		103	70-130			
Perfluorooctanoic acid (PFOA)	17.6	2.0	ng/L	20.0		87.9	70-130			
Perfluorooctanesulfonic acid (PFOS)	19.7	2.0	ng/L	18.5		107	70-130			
Perfluorononanoic acid (PFNA)	18.7	2.0	ng/L	20.0		93.5	70-130			
Perfluorohexanoic acid (PFHxA)	19.6	2.0	ng/L	20.0		97.9	70-130			
Perfluorohexanesulfonic acid (PFHxS)	15.8	2.0	ng/L	18.2		86.9	70-130			
Perfluoroheptanoic acid (PFHpA)	16.7	2.0	ng/L	20.0		83.5	70-130			
Perfluorododecanoic acid (PFDoA)	20.8	2.0	ng/L	20.0		104	70-130			
Perfluorodecanoic acid (PFDA)	20.9	2.0	ng/L	20.0		104	70-130			
Perfluorobutanesulfonic acid (PFBS)	16.0	2.0	ng/L	17.7		90.6	70-130			
NEtFOSAA	22.4	2.0	ng/L	20.0		112	70-130			
NMeFOSAA	19.2	2.0	ng/L	20.0		95.8	70-130			
Surrogate: 13C-PFHxA	*39.7*		ng/L	40.0		99.3	70-130			
Surrogate: 13C-PFDA	*45.7*		ng/L	40.0		114	70-130			
Surrogate: d5-NEtFOSAA	*198*		ng/L	160		123	70-130			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
S-18	Surrogate recovery is outside of control limits, matrix interference suspected. Insufficient sample available for reanalysis.

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 537 in Drinking Water	
Perfluorooctanoic acid (PFOA)	NH,NY
Perfluorooctanesulfonic acid (PFOS)	NH,NY
Perfluoropentanoic acid (PFPeA)	NH

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

con-test® ANALYTICAL LABORATORY

17F1644

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

http://www.contestlabs.com Doc # 381 Rev 1_03242017

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page 1 of 1

Company Name:	ATC Group Services
Address:	73 William Franks Drive, West Springfield, MA
Phone:	(413) 781-0070
Project Name:	253 Buck Pond Rd, Westfield
Project Location:	253 Buck Pond Rd, Westfield
Project Number:	183EM00170
Project Manager:	Rob Smith
Con-Test Quote Name/Number:	
Invoice Recipient:	
Sampled By:	Joseph Bolduc

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date: 5-day TAT

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: Rob.SmithATCAssociates
Fax To #:

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code	EPA METHOD 537	TOTAL As, Fe, HARDNESS, TOC
	253 Buck Pond Rd - field blank	6/27/2017	1055		X	DW	U	X	
01	253 Buck Pond Rd - 1	6/27/2017	1104		X	DW	U	X	X
	253 Buck Pond Rd - 2	6/27/2017	1106		X	DW	U	X	

ANALYSIS REQUESTED

	3	1	2										# of Containers
	O	N	H										[2] Preservation Code
	P	P	V										[3] Container Code

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define) TRIZMA

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments:
RUN EPA Method 537: 253 Buck Pond Rd-1
EXTRACT & HOLD EPA Method 537: 253 Buck Pond Rd-field blank & 253 Buck Pond Rd-2
HOLD As, Fe, Hardness, TOC

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature) Joseph Bolduc	Date/Time: 6-27-17 1630
Received by: (signature) Sample Refrigerator	Date/Time: 6-27-17 1630
Relinquished by: (signature) J. Smy	Date/Time: 6/28/17 10:00
Received by: (signature) Joe Ecc 6/28/17	Date/Time: 10.-
Relinquished by: (signature) Joe ECO 6/28/17	Date/Time: 10.35
Received by: (signature) Paula 6.28.17 4.1	Date/Time: 10:35

Detection Limit Requirements
MA
CT
Other:

Special Requirements
☐ MA MCP Required
MCP Certification Form Required
☐ CT RCP Required
RCP Certification Form Required
☐ MA State DW Required
PWSID #

con-test® ANALYTICAL LABORATORY www.contestlabs.com

Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ AIHA-LAP,LLC

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Table of Contents

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client ATC

Received By PB Date 6.28.17 Time 10:35

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____
Direct From Sample _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 4.1
By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? F

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client? T Analysis? T Sampler Name? T
Project? T ID's? T Collection Dates/Times? T

Are Sample labels filled out and legible? _____

Are there Lab to Filters? F Who was notified? _____

Are there Rushes? F Who was notified? _____

Are there Short Holds? F Who was notified? _____

Is there enough Volume? T

Is there Headspace where applicable? F MS/MSD? NA

Proper Media/Containers Used? T splitting samples require F

Were TB's received? F On COC? NA

Do All Samples Have the proper pH? T Acid T Base

Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic	2	4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

Commonwealth of Massachusetts
Executive Office of Energy & Environmental Affairs

Department of Environmental Protection

Western Regional Office • 436 Dwight Street, Springfield MA 01103 • 413-784-1100

Charles D. Baker
Governor

Karyn E. Polito
Lieutenant Governor

Matthew A. Beaton
Secretary

Martin Suuberg
Commissioner

August 2, 2017

Susan Lorow & James Morse
229 Buck Pond Road
Westfield, MA 01085

RE: Notice of Environmental Sampling
229 Buck Pond Road
Westfield Private Well Sampling

Dear Ms. Lorow & Mr. Morse:

The Department of Environmental Protection (DEP) collected a drinking water sample from your private well on June 27, 2017. The purpose of the sampling was to investigate whether your well has been affected by a release of perfluorinated compounds (PFCs) to local groundwater. The sample was sent to a certified laboratory and analyzed for PFC compounds by modified United States Protection Agency (EPA) Method 317.1. EPA has established a Lifetime Health Advisory level at 70 parts per trillion (ppt), for two specific compounds which have been the most extensively used and studied, PFOA (perfluorooctanoic acid) and PFOS (perfluorooctane sulfonic acid). If both PFOA and PFOS are identified in drinking water the combined concentrations are compared to the 70 ppt health advisory level. The Health Advisory offers a margin of protection from a lifetime of exposure to PFOA and PFOS for all individuals from adverse health effects resulting from exposure from PFOA and PFOS in drinking water. [1]

The sampling result indicated a total PFOA and PFOS concentration of 13 ppt in the drinking water sample. The results of a duplicate sample confirmed these results. This concentration is well below the health advisory level of 70 ppt. In order to confirm this result, MassDEP will contact you to resample your well. MassDEP will also sample wells in the vicinity of your area in order to gather additional information. The Department thanks you for granting access to your property.

If you have any questions pertaining to this Notice of Environmental Sampling or with the information n contained within, please feel free to contact David Bachand at (413) 755-2221 or Cynthia Pawloski at (413) 755-2247.

Sincerely,

Eva Tor
Deputy Regional Director
Bureau of Waste Site Cleanup

[1] Fact Sheet PFOA & PFOS Drinking Water Health Advisories. EPA, EPA 800 F-16-003, June 2016

Attachments: Notice of Environmental Sampling (BWSC-123)
Laboratory Report

ec : Mayor, City of Westfield
Barnes ANG-Joh n Richardson
Barnes Aquifer Protection Committee
Westfield DPW – David Billips
Westfield Health Department
Westfield Councilor Mary Ann Babinski
Dr. Marc A. Nascarella, Ph.D/DPH

cc:

Denise Andler, DEP WERO
Data Entry: FOLOFF, FOLFLD

FREQUENTLY ASKED QUESTIONS ABOUT MASSDEP'S ACCESS AND CONSENT TO ENTER PROPERTY AGREEMENTS

1. Why does MassDEP need access to my property?

   The Massachusetts Department of Environmental Protection (MassDEP) is the state agency responsible under state law, Massachusetts General Laws Chapter 21E (Chapter 21E), for regulating responses to the release or threat of release of oil or hazardous materials into the environment. As part of its legal responsibilities, MassDEP sometimes needs to enter property to assess, contain and/or remove contamination in order to protect public health, safety, welfare and the environment. MassDEP's authority for seeking property access for this work is found in Sections 4 and 8 of Chapter 21E.

2. Am I responsible for any contamination that is found on my property?

   Sometimes. Section 5 of Chapter 21E provides that the owner of property where a release or threat of release of oil or hazardous materials into the environment has occurred or come to be located (the "Site") is responsible for the cleanup of that contamination. MassDEP assigns a Release Tracking Number to each Site. Typically, MassDEP notifies owners of Sites of their responsibility for cleanup by means of a letter called a "Notice of Responsibility" before requesting access onto the Site.

   However, MassDEP sometimes seeks access onto property, which has not been identified as part of a Site, to investigate and ensure that contamination has not migrated from a nearby Site onto the property (for example, when underground gasoline contamination migrates through groundwater into adjacent properties with private water supply wells). The goal of MassDEP's investigation in such cases is to protect the public health and safety of the adjacent property owners, as well as the environment. In many instances, the owner of the property that is not the source of the release will not be required to clean up migrating surface or groundwater contamination, for example, if the owner qualifies for a special status known as Downgradient Property Status ("DPS"). A DPS property owner will not in most instances be required to clean up the migrating contamination, although the owner may be responsible to address any immediate concerns on the property (e.g., explosive or toxic vapors seeping into a building).

3. Will I need to pay for the work MassDEP performs on my property?

   Maybe. As discussed above, a property owner is usually responsible for the cleanup of contamination on his or her property. Chapter 21E also authorizes MassDEP to clean up the contamination itself and then seek repayment from the parties responsible for the cleanup. MassDEP may exercise its authority to perform cleanup work if, for example, parties are unwilling or unable to do the cleanup themselves. MassDEP may also place liens on property owned by parties' responsible for the cleanup.

   Just as a DPS property owner will usually not be responsible for doing cleanup, a DPS property owner will also usually not be responsible for MassDEP's cleanup costs or have liens placed on its property.

4. Can I be present on the property while MassDEP performs the work?

   Generally, property owners can be present while MassDEP is performing its work activities, provided that property owners do not disrupt or interfere with the work activities and comply with any health and safety measures or legal requirements to ensure a property owner's safety during the work activities.

5. Can my Licensed Site Professional obtain samples from the work MassDEP is performing on my property?

   A Site owner who has retained a Licensed Site Professional ("LSP," an individual who is specially licensed by the state and is hired by Site owners to clean up contaminated properties) can have the LSP

present on the property during MassDEP work activities, and the LSP can obtain duplicate samples from MassDEP upon request, as long as the duplicate sampling analysis requested by the LSP is paid for by the Site owner.

6. Do I have to allow MassDEP access to my property?

   A property owner can always refuse to grant MassDEP access onto his or her property. Because MassDEP's goal in seeking access onto property is to protect public health, safety, welfare and the environment, MassDEP will always try to work cooperatively with property owners to obtain voluntary access in a way that minimizes any disruption or inconvenience to the property owner. Where a property owner does refuse to grant MassDEP access, however, MassDEP has the right under Section 8 of Chapter 21E to seek a court order permitting MassDEP entry onto the property to perform any work required to protect public health, safety, welfare and the environment.

7. Can I ask MassDEP to alter its work schedule to minimize disruption to my business or tenants?

   MassDEP will always work cooperatively with property owners to minimize any disruption to business, commercial activities and/or property tenants when seeking access.

8. Will MassDEP reimburse me for any damage done to the property as a result of cleanup activities?

   MassDEP's contractors all carry insurance to cover the work activities being performed on the property and upon request, the property owner can obtain a Certificate of Insurance (listing the property owner as an additional insured) from each MassDEP contractor involved in the project. Upon completion of the work, MassDEP will make reasonable efforts to restore the areas of the property where the work activities occurred to its prior condition.

9. Will MassDEP reimburse or compensate me for any loss caused by contamination found on my property?

   No. As noted in Question 2 above, property owners of a Site are responsible under Chapter 21E for the cleanup of contamination on, and migrating from the Site. In addition, there may be circumstances under which downgradient property owners may be responsible for the costs of activities required to address any immediate concerns that result from contaminant migration.

MASSACHUSETTS DEPARTMENT OF PUBLIC HEALTH

PFOS and PFOA in Drinking Water

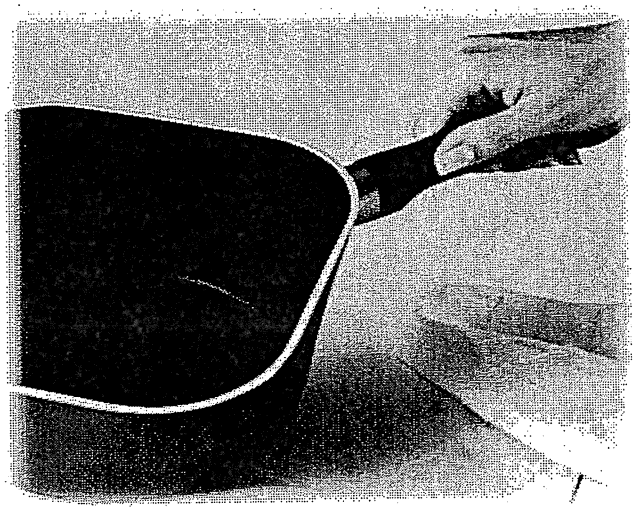
This fact sheet answers frequently asked questions about the detection of Perfluorooctanoic acid (PFOA) and Perfluorooctane sulfonate (PFOS) in drinking water. The US Environmental Protection Agency (US EPA) updated the lifetime health advisory (HA) level, and we would like to inform and update you on what it means.

WHAT ARE PFOA AND PFOS?

PFOA and PFOS are fluorinated organic chemicals that are part of a larger group of chemicals referred to as perfluoroalkyl substances (PFAs). PFOA and PFOS have been the most extensively produced and studied of these chemicals. They have been used to make carpets, clothing, fabrics for furniture, paper packaging for food, and other materials (e.g., cookware) that are resistant to water, grease or stains. They are also used in aqueous firefighting foam and in a number of industrial processes. Because these chemicals have been used in an array of consumer products, most people have been exposed to them.

Many PFAs are no longer being produced in this country; the largest manufacturer completely stopped PFOA/PFOS production in 2002. PFAs are still being produced in other countries and may be imported into the US in limited quantities. The EPA and the PFA industry launched the PFOA Stewardship Program in 2006 to work toward ending the production of PFOA and other PFAs.

While consumer products and food are a large source of exposure for most people, drinking water can be an additional source in the small percentage of communities where these chemicals have contaminated water supplies. Such contamination is typically localized and associated with a specific facility (e.g. an industrial facility where these chemicals were produced or used to manufacture other products or where firefighting foam was used).



HOW ARE PFOS/PFOA REGULATED?

Because they are emerging contaminants, there are currently no established regulatory limits for levels in drinking water. The US EPA has recently set a health advisory level (HA) of 0.07 micrograms per liter (µg/L) for both PFOS and PFOA in May 2016.

HOW CAN PFOS/PFOA AFFECT MY HEALTH?

There are many gaps in the current scientific literature, but it is believed that PFAs may affect human health. Most research is based on animal studies and scientists are still unsure of the difference between how animals and humans respond to PFAs. They are associated with changes in thyroid, liver, and kidney function, as well changes in hormone levels. These two chemicals have also been shown to cause developmental effects to fetuses during pregnancy and in breastfed infants.

CAN PFAs CAUSE CANCER?

There is no conclusive evidence that PFAs cause cancer, though several animal studies and legal cases have identified a possible link between them. The EPA reports there is suggestive evidence that these chemicals can increase the risk of cancer. Both the EPA and the National Toxicology Program are continuing research on the cancer potential of PFAs.

WHAT IS MY RISK IF I DRANK WATER ABOVE THE HEALTH ADVISORY LEVEL?

Drinking water at a level above EPA's HA does not necessarily mean that health risks are expected. This is because the HA is based on a level that is safe to drink for an entire lifetime. By convention, a value such as the HA is used as a "screening" value that is designed to overestimate exposure and ensure that sensitive individuals are protected. For example, the HA assumes that individuals drink only contaminated water and are also exposed to PFAs from sources beyond drinking water, such as food. Several safety factors are additionally applied to account for the differences between animals and humans and the differences from one human to another human. Under this scenario, a risk would be expected only if an individual continuously drinks only contaminated water at a level higher than the HA.

WHAT SHOULD I DO TO LIMIT EXPOSURE?

PFAs are found at low levels in the environment, in consumer products, and food, so it is nearly impossible to eliminate all exposure. If you live near a site where PFA contamination has been identified, there are several ways to limit your exposure such as drinking and cooking with bottled water, and using pre-mixed baby formula, or bottled water for reconstituting powdered formula. Using contaminated water for routine showering and bathing are not significant sources of exposure.

WHERE CAN I GET MORE INFORMATION?

For questions about drinking water quality contact the:

MassDEP Drinking Water Program
617-292-5770
Program.Director-DWP@state.ma.us
http://www.mass.gov/eea/agencies/massdep/water/drinking/is-there-copper-in-my-tap-water.html

For health-related questions contact the:

Environmental Toxicology Program
Bureau of Environmental Health, MDPH
250 Washington Street, 7th Floor, Boston, MA 02108
Phone: 617-624-5757 | Fax: 617-624-5777 | TTY: 617-624-5286

US EPA's Drinking Water Health Advisories
https://www.epa.gov/ground-water-and-drinking-water/drinking-water-health-advisories-pfoa-and-pfos

July 2016

Images courtesy of Richard Duncan and Debora Cartagena at the Centers for Disease Control and Prevention.

This fact sheet was supported in part by funds from a cooperative agreement with the Agency for Toxic Substances and Disease Registry (ATSDR), U.S. Department of Health and Human Services. This document has not been reviewed and cleared by ATSDR.

con-test®
ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

July 13, 2017

Rob Smith
ATC Group Services LLC - West Springfield
73 Williams Franks Drive
West Springfield, MA 01089

Project Location: 229 Buck Pond Rd., Westfield
Client Job Number:
Project Number: 183EM00170
Laboratory Work Order Number: 17F1642

Enclosed are results of analyses for samples received by the laboratory on June 28, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kerry K. McGee

Kerry K. McGee
Project Manager

Table of Contents

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ATC Group Services LLC - West Springfield
73 Williams Franks Drive
West Springfield, MA 01089
ATTN: Rob Smith

REPORT DATE: 7/13/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 183EM00170

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17F1642

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 229 Buck Pond Rd., Westfield

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
229 Buck Pond Rd-1	17F1642-01	Drinking Water		EPA 537	

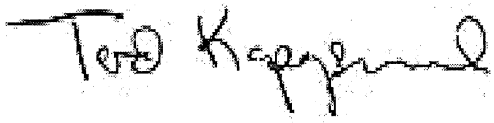
con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Tod E. Kopyscinski
Laboratory Director

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 229 Buck Pond Rd., Westfield Sample Description: Work Order: 17F1642

Date Received: 6/28/2017

Field Sample #: 229 Buck Pond Rd-1 Sampled: 6/24/2017 10:35

Sample ID: 17F1642-01

Sample Matrix: Drinking Water

Miscellaneous Organic Analyses

Analyte	Results	RL	MCL/SMCL MA ORSG	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoroundecanoic acid (PFUnA)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 22:07	BLM
Perfluorotridecanoic acid (PFTrDA)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 22:07	BLM
Perfluorotetradecanoic acid (PFTA)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 22:07	BLM
Perfluorooctanoic acid (PFOA)	8.9	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 22:07	BLM
Perfluorooctanesulfonic acid (PFOS)	3.7	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 22:07	BLM
Perfluorononanoic acid (PFNA)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 22:07	BLM
Perfluorohexanoic acid (PFHxA)	2.9	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 22:07	BLM
Perfluorohexanesulfonic acid (PFHxS)	3.2	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 22:07	BLM
Perfluoroheptanoic acid (PFHpA)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 22:07	BLM
Perfluorododecanoic acid (PFDoA)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 22:07	BLM
Perfluorodecanoic acid (PFDA)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 22:07	BLM
Perfluorobutanesulfonic acid (PFBS)	6.0	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 22:07	BLM
NEtFOSAA	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 22:07	BLM
NMeFOSAA	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 22:07	BLM
Perfluoropentanoic acid (PFPeA)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 22:07	BLM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C-PFHxA	123	70-130		7/12/17 22:07
13C-PFDA	129	70-130		7/12/17 22:07
d5-NEtFOSAA	128	70-130		7/12/17 22:07

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: EPA 537-EPA 537

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17F1642-01 [229 Buck Pond Rd-1]	B181002	250	1.00	07/06/17

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Miscellaneous Organic Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B181002 - EPA 537										
Blank (B181002-BLK1)				Prepared: 07/06/17 Analyzed: 07/12/17						
Perfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L							
Perfluorotridecanoic acid (PFTrDA)	ND	2.0	ng/L							
Perfluorotetradecanoic acid (PFTA)	ND	2.0	ng/L							
Perfluorooctanoic acid (PFOA)	ND	2.0	ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	ng/L							
Perfluorononanoic acid (PFNA)	ND	2.0	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	2.0	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	2.0	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	2.0	ng/L							
Perfluorodecanoic acid (PFDA)	ND	2.0	ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	ng/L							
NEtFOSAA	ND	2.0	ng/L							
NMeFOSAA	ND	2.0	ng/L							
Perfluoropentanoic acid (PFPeA)	ND	2.0	ng/L							
Surrogate: 13C-PFHxA	*35.3*		ng/L	40.0		88.2	70-130			
Surrogate: 13C-PFDA	*41.8*		ng/L	40.0		105	70-130			
Surrogate: d5-NEtFOSAA	*172*		ng/L	160		107	70-130			
LCS (B181002-BS1)				Prepared: 07/06/17 Analyzed: 07/12/17						
Perfluoroundecanoic acid (PFUnA)	25.4	2.0	ng/L	20.0		127	70-130			
Perfluorotridecanoic acid (PFTrDA)	21.0	2.0	ng/L	20.0		105	70-130			
Perfluorotetradecanoic acid (PFTA)	20.6	2.0	ng/L	20.0		103	70-130			
Perfluorooctanoic acid (PFOA)	17.6	2.0	ng/L	20.0		87.9	70-130			
Perfluorooctanesulfonic acid (PFOS)	19.7	2.0	ng/L	18.5		107	70-130			
Perfluorononanoic acid (PFNA)	18.7	2.0	ng/L	20.0		93.5	70-130			
Perfluorohexanoic acid (PFHxA)	19.6	2.0	ng/L	20.0		97.9	70-130			
Perfluorohexanesulfonic acid (PFHxS)	15.8	2.0	ng/L	18.2		86.9	70-130			
Perfluoroheptanoic acid (PFHpA)	16.7	2.0	ng/L	20.0		83.5	70-130			
Perfluorododecanoic acid (PFDoA)	20.8	2.0	ng/L	20.0		104	70-130			
Perfluorodecanoic acid (PFDA)	20.9	2.0	ng/L	20.0		104	70-130			
Perfluorobutanesulfonic acid (PFBS)	16.0	2.0	ng/L	17.7		90.6	70-130			
NEtFOSAA	22.4	2.0	ng/L	20.0		112	70-130			
NMeFOSAA	19.2	2.0	ng/L	20.0		95.8	70-130			
Surrogate: 13C-PFHxA	*39.7*		ng/L	40.0		99.3	70-130			
Surrogate: 13C-PFDA	*45.7*		ng/L	40.0		114	70-130			
Surrogate: d5-NEtFOSAA	*198*		ng/L	160		123	70-130			

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 537 in Drinking Water	
Perfluorooctanoic acid (PFOA)	NH,NY
Perfluorooctanesulfonic acid (PFOS)	NH,NY
Perfluoropentanoic acid (PFPeA)	NH

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

17F1642

con-test ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

http://www.contestlabs.com Doc # 381 Rev 1_03242017

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page 1 of 1

Company Name:	ATC Group Services
Address:	73 William Franks Drive, West Springfield, MA
Phone:	(413) 781-0070
Project Name:	229 Buck Pond Rd, Westfield
Project Location:	229 Buck Pond Rd, Westfield
Project Number:	183EM00170
Project Manager:	Rob Smith
Con-Test Quote Name/Number:	
Invoice Recipient:	
Sampled By:	Joseph Bolduc

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date: 5-day TAT

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: Rob.Smith@ATCAssociates
Fax To #:

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code	EPA METHOD 537	TOTAL As, Fe, HARDNESS, TOC
	229 Buck Pond Rd - field blank	6/27/2017	1025		X	DW	U	X	
01	229 Buck Pond Rd - 1	6/27/2017	1035		X	DW	U	X	X
	229 Buck Pond Rd - 2	6/27/2017	1037		X	DW	U	X	

ANALYSIS REQUESTED

3	1	2	# of Containers
O	N	H	[2] Preservation Code
P	P	V	[3] Container Code

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)
TRIZMA

[3] Container Codes:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments:
RUN EPA Method 537: 229 Buck pond Rd-1
EXTRACT & HOLD EPA Method 537: 229 Buck Pond Rd-field blank & 229 Buck Pond Rd-2
HOLD As, Fe, Hardness, TOC

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 6-27-17 1630	
Received by: (signature)	Date/Time: 6-27-17 1630	
Relinquished by: (signature)	Date/Time: 6/28/17 10:00	
Received by: (signature)	Date/Time: 6/28/17 10	
Relinquished by: (signature)	Date/Time: 6/28/17 10:35	
Received by: (signature)	Date/Time: 6.28.17 9:1 10:35	

Detection Limit Requirements
MA
CT
Other:

Special Requirements
☐ MA MCP Required
MCP Certification Form Required
☐ CT RCP Required
RCP Certification Form Required
☐ MA State DW Required
PWSID #

con-test ANALYTICAL LABORATORY www.contestlabs.com

Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ AIHA-LAP,LLC

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Page 10 of 11

Table of Contents

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client ATC
Received By PB
Date 6.28.17
Time 10:35

How were the samples received? In Cooler T | No Cooler | On Ice T | No Ice
Direct From Sample | Ambient | Melted Ice
By Gun # 1 | Actual Temp - 4.1
Were samples within Temperature? 2-6°C T | By Blank # | Actual Temp -
Was Custody Seal Intact? NA | Were Samples Tampered with? F
Was COC Relinquished ? T | Does Chain Agree With Samples? T
Are there broken/leaking/loose caps on any samples? F
Is COC in ink/ Legible? T | Were samples received within holding time? T
Did COC include all pertinent Information? Client? T | Analysis? T | Sampler Name? T
Project? T | ID's? T | Collection Dates/Times? T
Are Sample labels filled out and legible?
Are there Lab to Filters? F | Who was notified?
Are there Rushes? F | Who was notified?
Are there Short Holds? F | Who was notified?
Is there enough Volume? T
Is there Headspace where applicable? F | MS/MSD? NA
Proper Media/Containers Used? T | splitting samples require F
Were TB's received? F | On COC? NA
Do All Samples Have the proper pH? T | Acid T | Base

Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic	2	4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

Commonwealth of Massachusetts
Executive Office of Energy & Environmental Affairs

Department of Environmental Protection

Western Regional Office • 436 Dwight Street, Springfield MA 01103 • 413-784-1100

Charles D. Baker
Governor

Karyn E. Polito
Lieutenant Governor

Matthew A. Beaton
Secretary

Martin Suuberg
Commissioner

August 2, 2017

Melissa & Roger Latour
235 Buck Pond Road
Westfield, MA 01085

RE: Notice of Environmental Sampling
235 Buck Pond Road
Westfield Private Well Sampling

Dear Mr. & Mrs. Latour:

The Department of Environmental Protection (DEP) collected a drinking water sample from your private well on June 27, 2017. The purpose of the sampling was to investigate whether your well has been affected by a release of perfluorinated compounds (PFCs) to local groundwater. The sample was sent to a certified laboratory and analyzed for PFC compounds by modified United States Protection Agency (EPA) Method 317.1. EPA has established a Lifetime Health Advisory level at 70 parts per trillion (ppt), for two specific compounds which have been the most extensively used and studied, PFOA (perfluorooctanoic acid) and PFOS (perfluorooctane sulfonic acid). If both PFOA and PFOS are identified in drinking water the combined concentrations are compared to the 70 ppt health advisory level. The Health Advisory offers a margin of protection from a lifetime of exposure to PFOA and PFOS for all individuals from adverse health effects resulting from exposure from PFOA and PFOS in drinking water. [1]

The sampling result indicated a total PFOA and PFOS concentration of 3 ppt in the drinking water sample. The results of a duplicate sample confirmed these results. This concentration is well below the health advisory level of 70 ppt. In order to confirm this result, MassDEP will contact you to resample your well. MassDEP will also sample wells in the vicinity of your area in order to gather additional information. The Department thanks you for granting access to your property.

If you have any questions pertaining to this Notice of Environmental Sampling or with the information n contained within, please feel free to contact David Bachand at (413) 755-2221 or Cynthia Pawloski at (413) 755-2247.

Sincerely,

Eva Tor
Deputy Regional Director
Bureau of Waste Site Cleanup

[1] Fact Sheet PFOA & PFOS Drinking Water Health Advisories. EPA, EPA 800 F-16-003, June 2016

Attachments: Notice of Environmental Sampling (BWSC-123)
Laboratory Report

ec : Mayor, City of Westfield
Barnes ANG-Joh n Richardson
Barnes Aquifer Protection Committee
Westfield DPW – David Billips
Westfield Health Department
Westfield Councilor Mary Ann Babinski
Dr. Marc A. Nascarella, Ph.D/DPH

cc:

Denise Andler, DEP WERO
Data Entry: FOLOFF, FOLFLD

FREQUENTLY ASKED QUESTIONS ABOUT MASSDEP'S ACCESS AND CONSENT TO ENTER PROPERTY AGREEMENTS

1. Why does MassDEP need access to my property?

   The Massachusetts Department of Environmental Protection (MassDEP) is the state agency responsible under state law, Massachusetts General Laws Chapter 21E (Chapter 21E), for regulating responses to the release or threat of release of oil or hazardous materials into the environment. As part of its legal responsibilities, MassDEP sometimes needs to enter property to assess, contain and/or remove contamination in order to protect public health, safety, welfare and the environment. MassDEP's authority for seeking property access for this work is found in Sections 4 and 8 of Chapter 21E.

2. Am I responsible for any contamination that is found on my property?

   Sometimes. Section 5 of Chapter 21E provides that the owner of property where a release or threat of release of oil or hazardous materials into the environment has occurred or come to be located (the "Site") is responsible for the cleanup of that contamination. MassDEP assigns a Release Tracking Number to each Site. Typically, MassDEP notifies owners of Sites of their responsibility for cleanup by means of a letter called a "Notice of Responsibility" before requesting access onto the Site.

   However, MassDEP sometimes seeks access onto property, which has not been identified as part of a Site, to investigate and ensure that contamination has not migrated from a nearby Site onto the property (for example, when underground gasoline contamination migrates through groundwater into adjacent properties with private water supply wells). The goal of MassDEP's investigation in such cases is to protect the public health and safety of the adjacent property owners, as well as the environment. In many instances, the owner of the property that is not the source of the release will not be required to clean up migrating surface or groundwater contamination, for example, if the owner qualifies for a special status known as Downgradient Property Status ("DPS"). A DPS property owner will not in most instances be required to clean up the migrating contamination, although the owner may be responsible to address any immediate concerns on the property (e.g., explosive or toxic vapors seeping into a building).

3. Will I need to pay for the work MassDEP performs on my property?

   Maybe. As discussed above, a property owner is usually responsible for the cleanup of contamination on his or her property. Chapter 21E also authorizes MassDEP to clean up the contamination itself and then seek repayment from the parties responsible for the cleanup. MassDEP may exercise its authority to perform cleanup work if, for example, parties are unwilling or unable to do the cleanup themselves. MassDEP may also place liens on property owned by parties' responsible for the cleanup.

   Just as a DPS property owner will usually not be responsible for doing cleanup, a DPS property owner will also usually not be responsible for MassDEP's cleanup costs or have liens placed on its property.

4. Can I be present on the property while MassDEP performs the work?

   Generally, property owners can be present while MassDEP is performing its work activities, provided that property owners do not disrupt or interfere with the work activities and comply with any health and safety measures or legal requirements to ensure a property owner's safety during the work activities.

5. Can my Licensed Site Professional obtain samples from the work MassDEP is performing on my property?

   A Site owner who has retained a Licensed Site Professional ("LSP," an individual who is specially licensed by the state and is hired by Site owners to clean up contaminated properties) can have the LSP

present on the property during MassDEP work activities, and the LSP can obtain duplicate samples from MassDEP upon request, as long as the duplicate sampling analysis requested by the LSP is paid for by the Site owner.

6. Do I have to allow MassDEP access to my property?

   A property owner can always refuse to grant MassDEP access onto his or her property. Because MassDEP's goal in seeking access onto property is to protect public health, safety, welfare and the environment, MassDEP will always try to work cooperatively with property owners to obtain voluntary access in a way that minimizes any disruption or inconvenience to the property owner. Where a property owner does refuse to grant MassDEP access, however, MassDEP has the right under Section 8 of Chapter 21E to seek a court order permitting MassDEP entry onto the property to perform any work required to protect public health, safety, welfare and the environment.

7. Can I ask MassDEP to alter its work schedule to minimize disruption to my business or tenants?

   MassDEP will always work cooperatively with property owners to minimize any disruption to business, commercial activities and/or property tenants when seeking access.

8. Will MassDEP reimburse me for any damage done to the property as a result of cleanup activities?

   MassDEP's contractors all carry insurance to cover the work activities being performed on the property and upon request, the property owner can obtain a Certificate of Insurance (listing the property owner as an additional insured) from each MassDEP contractor involved in the project. Upon completion of the work, MassDEP will make reasonable efforts to restore the areas of the property where the work activities occurred to its prior condition.

9. Will MassDEP reimburse or compensate me for any loss caused by contamination found on my property?

   No. As noted in Question 2 above, property owners of a Site are responsible under Chapter 21E for the cleanup of contamination on, and migrating from the Site. In addition, there may be circumstances under which downgradient property owners may be responsible for the costs of activities required to address any immediate concerns that result from contaminant migration.

MASSACHUSETTS DEPARTMENT OF PUBLIC HEALTH

PFOS and PFOA in Drinking Water

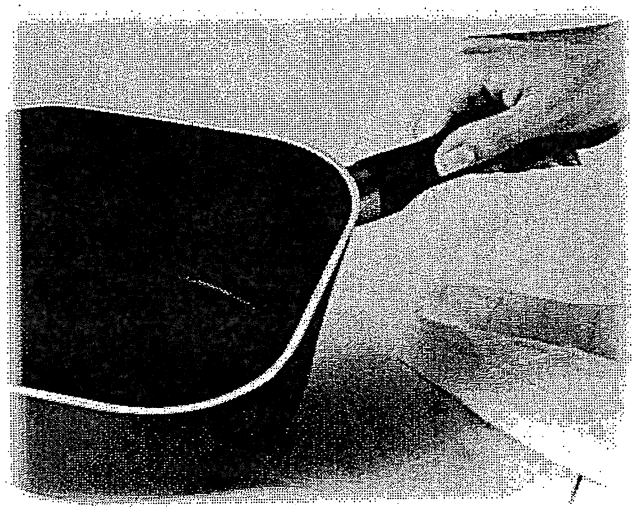
This fact sheet answers frequently asked questions about the detection of Perfluorooctanoic acid (PFOA) and Perfluorooctane sulfonate (PFOS) in drinking water. The US Environmental Protection Agency (US EPA) updated the lifetime health advisory (HA) level, and we would like to inform and update you on what it means.

WHAT ARE PFOA AND PFOS?

PFOA and PFOS are fluorinated organic chemicals that are part of a larger group of chemicals referred to as perfluoroalkyl substances (PFAs). PFOA and PFOS have been the most extensively produced and studied of these chemicals. They have been used to make carpets, clothing, fabrics for furniture, paper packaging for food, and other materials (e.g., cookware) that are resistant to water, grease or stains. They are also used in aqueous firefighting foam and in a number of industrial processes. Because these chemicals have been used in an array of consumer products, most people have been exposed to them.

Many PFAs are no longer being produced in this country; the largest manufacturer completely stopped PFOA/PFOS production in 2002. PFAs are still being produced in other countries and may be imported into the US in limited quantities. The EPA and the PFA industry launched the PFOA Stewardship Program in 2006 to work toward ending the production of PFOA and other PFAs.

While consumer products and food are a large source of exposure for most people, drinking water can be an additional source in the small percentage of communities where these chemicals have contaminated water supplies. Such contamination is typically localized and associated with a specific facility (e.g. an industrial facility where these chemicals were produced or used to manufacture other products or where firefighting foam was used).



HOW ARE PFOS/PFOA REGULATED?

Because they are emerging contaminants, there are currently no established regulatory limits for levels in drinking water. The US EPA has recently set a health advisory level (HA) of 0.07 micrograms per liter (µg/L) for both PFOS and PFOA in May 2016.

HOW CAN PFOS/PFOA AFFECT MY HEALTH?

There are many gaps in the current scientific literature, but it is believed that PFAs may affect human health. Most research is based on animal studies and scientists are still unsure of the difference between how animals and humans respond to PFAs. They are associated with changes in thyroid, liver, and kidney function, as well changes in hormone levels. These two chemicals have also been shown to cause developmental effects to fetuses during pregnancy and in breastfed infants.

CAN PFAs CAUSE CANCER?

There is no conclusive evidence that PFAs cause cancer, though several animal studies and legal cases have identified a possible link between them. The EPA reports there is suggestive evidence that these chemicals can increase the risk of cancer. Both the EPA and the National Toxicology Program are continuing research on the cancer potential of PFAs.

WHAT IS MY RISK IF I DRANK WATER ABOVE THE HEALTH ADVISORY LEVEL?

Drinking water at a level above EPA's HA does not necessarily mean that health risks are expected. This is because the HA is based on a level that is safe to drink for an entire lifetime. By convention, a value such as the HA is used as a "screening" value that is designed to overestimate exposure and ensure that sensitive individuals are protected. For example, the HA assumes that individuals drink only contaminated water and are also exposed to PFAs from sources beyond drinking water, such as food. Several safety factors are additionally applied to account for the differences between animals and humans and the differences from one human to another human. Under this scenario, a risk would be expected only if an individual continuously drinks only contaminated water at a level higher than the HA.

WHAT SHOULD I DO TO LIMIT EXPOSURE?

PFAs are found at low levels in the environment, in consumer products, and food, so it is nearly impossible to eliminate all exposure. If you live near a site where PFA contamination has been identified, there are several ways to limit your exposure such as drinking and cooking with bottled water, and using pre-mixed baby formula, or bottled water for reconstituting powdered formula. Using contaminated water for routine showering and bathing are not significant sources of exposure.

WHERE CAN I GET MORE INFORMATION?

For questions about drinking water quality contact the:

MassDEP Drinking Water Program
617-292-5770
Program.Director-DWP@state.ma.us
http://www.mass.gov/eea/agencies/massdep/water/drinking/is-there-copper-in-my-tap-water.html

For health-related questions contact the:

Environmental Toxicology Program
Bureau of Environmental Health, MDPH
250 Washington Street, 7th Floor, Boston, MA 02108
Phone: 617-624-5757 | Fax: 617-624-5777 | TTY: 617-624-5286

US EPA's Drinking Water Health Advisories
https://www.epa.gov/ground-water-and-drinking-water/drinking-water-health-advisories-pfoa-and-pfos

July 2016

Images courtesy of Richard Duncan and Debora Cartagena at the Centers for Disease Control and Prevention.

This fact sheet was supported in part by funds from a cooperative agreement with the Agency for Toxic Substances and Disease Registry (ATSDR), U.S. Department of Health and Human Services. This document has not been reviewed and cleared by ATSDR.

con-test®
ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

July 13, 2017

Rob Smith
ATC Group Services LLC - West Springfield
73 Williams Franks Drive
West Springfield, MA 01089

Project Location: 235 Buck Pond Rd., Westfield
Client Job Number:
Project Number: 183EM00170
Laboratory Work Order Number: 17F1643

Enclosed are results of analyses for samples received by the laboratory on June 28, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kerry K. McGee

Kerry K. McGee
Project Manager

Table of Contents

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ATC Group Services LLC - West Springfield
73 Williams Franks Drive
West Springfield, MA 01089
ATTN: Rob Smith

REPORT DATE: 7/13/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 183EM00170

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17F1643

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 235 Buck Pond Rd., Westfield

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
235 Buck Pond Rd-1	17F1643-01	Drinking Water		EPA 537	

con-test®
ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Tod E. Kopyscinski
Laboratory Director

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 235 Buck Pond Rd., Westfield Sample Description: Work Order: 17F1643

Date Received: 6/28/2017

Field Sample #: 235 Buck Pond Rd-1 Sampled: 6/27/2017 14:16

Sample ID: 17F1643-01

Sample Matrix: Drinking Water

Miscellaneous Organic Analyses

Analyte	Results	RL	MCL/SMCL MA ORSG	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoroundecanoic acid (PFUnA)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/13/17 13:23	BLM
Perfluorotridecanoic acid (PFTrDA)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/13/17 13:23	BLM
Perfluorotetradecanoic acid (PFTA)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/13/17 13:23	BLM
Perfluorooctanoic acid (PFOA)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/13/17 13:23	BLM
Perfluorooctanesulfonic acid (PFOS)	2.6	2.0		ng/L	1		EPA 537	7/6/17	7/13/17 13:23	BLM
Perfluorononanoic acid (PFNA)	3.8	2.0		ng/L	1		EPA 537	7/6/17	7/13/17 13:23	BLM
Perfluorohexanoic acid (PFHxA)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/13/17 13:23	BLM
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/13/17 13:23	BLM
Perfluoroheptanoic acid (PFHpA)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/13/17 13:23	BLM
Perfluorododecanoic acid (PFDoA)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/13/17 13:23	BLM
Perfluorodecanoic acid (PFDA)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/13/17 13:23	BLM
Perfluorobutanesulfonic acid (PFBS)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/13/17 13:23	BLM
NEtFOSAA	ND	2.0		ng/L	1		EPA 537	7/6/17	7/13/17 13:23	BLM
NMeFOSAA	ND	2.0		ng/L	1		EPA 537	7/6/17	7/13/17 13:23	BLM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C-PFHxA	119	70-130		7/13/17 13:23
13C-PFDA	129	70-130		7/13/17 13:23
d5-NEtFOSAA	125	70-130		7/13/17 13:23

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: EPA 537-EPA 537

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17F1643-01 [235 Buck Pond Rd-1]	B181002	250	1.00	07/06/17

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Miscellaneous Organic Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B181002 - EPA 537										
Blank (B181002-BLK1)				Prepared: 07/06/17 Analyzed: 07/12/17						
Perfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L							
Perfluorotridecanoic acid (PFTrDA)	ND	2.0	ng/L							
Perfluorotetradecanoic acid (PFTA)	ND	2.0	ng/L							
Perfluorooctanoic acid (PFOA)	ND	2.0	ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	ng/L							
Perfluorononanoic acid (PFNA)	ND	2.0	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	2.0	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	2.0	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	2.0	ng/L							
Perfluorodecanoic acid (PFDA)	ND	2.0	ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	ng/L							
NEtFOSAA	ND	2.0	ng/L							
NMeFOSAA	ND	2.0	ng/L							
Perfluoropentanoic acid (PFPeA)	ND	2.0	ng/L							
Surrogate: 13C-PFHxA	*35.3*		ng/L	40.0		88.2	70-130			
Surrogate: 13C-PFDA	*41.8*		ng/L	40.0		105	70-130			
Surrogate: d5-NEtFOSAA	*172*		ng/L	160		107	70-130			
LCS (B181002-BS1)				Prepared: 07/06/17 Analyzed: 07/12/17						
Perfluoroundecanoic acid (PFUnA)	25.4	2.0	ng/L	20.0		127	70-130			
Perfluorotridecanoic acid (PFTrDA)	21.0	2.0	ng/L	20.0		105	70-130			
Perfluorotetradecanoic acid (PFTA)	20.6	2.0	ng/L	20.0		103	70-130			
Perfluorooctanoic acid (PFOA)	17.6	2.0	ng/L	20.0		87.9	70-130			
Perfluorooctanesulfonic acid (PFOS)	19.7	2.0	ng/L	18.5		107	70-130			
Perfluorononanoic acid (PFNA)	18.7	2.0	ng/L	20.0		93.5	70-130			
Perfluorohexanoic acid (PFHxA)	19.6	2.0	ng/L	20.0		97.9	70-130			
Perfluorohexanesulfonic acid (PFHxS)	15.8	2.0	ng/L	18.2		86.9	70-130			
Perfluoroheptanoic acid (PFHpA)	16.7	2.0	ng/L	20.0		83.5	70-130			
Perfluorododecanoic acid (PFDoA)	20.8	2.0	ng/L	20.0		104	70-130			
Perfluorodecanoic acid (PFDA)	20.9	2.0	ng/L	20.0		104	70-130			
Perfluorobutanesulfonic acid (PFBS)	16.0	2.0	ng/L	17.7		90.6	70-130			
NEtFOSAA	22.4	2.0	ng/L	20.0		112	70-130			
NMeFOSAA	19.2	2.0	ng/L	20.0		95.8	70-130			
Surrogate: 13C-PFHxA	*39.7*		ng/L	40.0		99.3	70-130			
Surrogate: 13C-PFDA	*45.7*		ng/L	40.0		114	70-130			
Surrogate: d5-NEtFOSAA	*198*		ng/L	160		123	70-130			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 537 in Drinking Water	
Perfluorooctanoic acid (PFOA)	NH,NY
Perfluorooctanesulfonic acid (PFOS)	NH,NY

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

17F1643

con-test® ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

http://www.contestlabs.com

Doc # 381 Rev 1_03242017

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page 1 of 1

Company Name:	ATC Group Services
Address:	73 William Franks Drive, West Springfield, MA
Phone:	(413) 781-0070
Project Name:	235 Buck Pond Rd, Westfield
Project Location:	235 Buck Pond Rd, Westfield
Project Number:	183EM00170
Project Manager:	Rob Smith
Con-Test Quote Name/Number:	
Invoice Recipient:	
Sampled By:	Joseph Bolduc

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date: 5-day TAT

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: Rob.Smith@ATCAssociates
Fax To #:

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code	EPA METHOD 537	TOTAL As, Fe, HARDNESS, TOC
	235 Buck Pond Rd - field blank	6/27/2017	1405		X	DW	U	X	
	235 Buck Pond Rd - 1	6/27/2017	1416		X	DW	U	X	X
	235 Buck Pond Rd - 2	6/27/2017	1418		X	DW	U	X	

3	1	2	# of Containers
O	N	H	[2] Preservation Code
P	P	V	[3] Container Code

ANALYSIS REQUESTED

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define) TRIZMA

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments:
RUN EPA Method 537: 235 Buck Pond Rd-1
EXTRACT & HOLD EPA Method 537: 235 Buck Pond Rd-field blank & 235 Buck Pond Rd-2
HOLD As, Fe, Hardness, TOC

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)		Date/Time: 6/27/17 1630
Received by: (signature)	Sample Refrigerator	Date/Time: 6-27-17 1630
Relinquished by: (signature)		Date/Time: 6/28/17 10:00
Received by: (signature)		Date/Time: 6/28/17 10:
Relinquished by: (signature)		Date/Time: 10.35
Received by: (signature)	4.1	Date/Time: 10:35

Detection Limit Requirements
MA
CT
Other:

Special Requirements
☐ MA MCP Required
MCP Certification Form Required
☐ CT RCP Required
RCP Certification Form Required
☐ MA State DW Required
PWSID #

con-test® ANALYTICAL LABORATORY www.contestlabs.com

Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ AIHA-LAP,LLC

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Page 10 of 11

Table of Contents

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client ATC
Received By PB
Date 6.28.17
Time 10:35

How were the samples received? In Cooler T | No Cooler | On Ice T | No Ice
Direct From Sample | Ambient | Melted Ice
By Gun # 1 | Actual Temp - 4.1
Were samples within Temperature? 2-6°C T | By Blank # | Actual Temp -
Was Custody Seal Intact? NA | Were Samples Tampered with? F
Was COC Relinquished ? T | Does Chain Agree With Samples? T
Are there broken/leaking/loose caps on any samples? F
Is COC in ink/ Legible? T | Were samples received within holding time? T
Did COC include all pertinent Information? Client? T | Analysis? T | Sampler Name? T
Project? T | ID's? T | Collection Dates/Times? T
Are Sample labels filled out and legible?
Are there Lab to Filters? F | Who was notified?
Are there Rushes? F | Who was notified?
Are there Short Holds? F | Who was notified?
Is there enough Volume? T
Is there Headspace where applicable? F | MS/MSD? NA
Proper Media/Containers Used? T | splitting samples require F
Were TB's received? F | On COC? NA
Do All Samples Have the proper pH? T | Acid T | Base

Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic	2	4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unpreserved Vials

Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

Commonwealth of Massachusetts
Executive Office of Energy & Environmental Affairs

Department of Environmental Protection

Western Regional Office • 436 Dwight Street, Springfield MA 01103 • 413-784-1100

Charles D. Baker
Governor

Karyn E. Polito
Lieutenant Governor

Matthew A. Beaton
Secretary

Martin Suuberg
Commissioner

August 2, 2017

Carol Banach
39 Schumann Drive
Westfield, MA 01085

Re: Notice of Environmental Sampling
39 Schumann Drive
Westfield Private Well Sampling
RTN 1-20093

Dear Ms. Banach:

The Department of Environmental Protection (DEP) collected a drinking water sample from your private well on June 27, 2017. The purpose of the sampling was to investigate whether your well has been affected by a release of perfluorinated compounds (PFCs) to local groundwater. The sample was sent to a certified laboratory and analyzed for PFC compounds by modified United States Protection Agency (EPA) Method 317.1. EPA has established a Lifetime Health Advisory level at 70 parts per trillion (ppt), for two specific compounds which have been the most extensively used and studied, PFOA (perfluorooctanoic acid) and PFOS (perfluorooctane sulfonic acid). If both PFOA and PFOS are identified in drinking water the combined concentrations are compared to the 70 ppt health advisory level. The Health Advisory offers a margin of protection from a lifetime of exposure to PFOA and PFOS for all individuals from adverse health effects resulting from exposure from PFOA and PFOS in drinking water[1]

The sampling result indicates PFOA and PFOS compounds were not detected above the laboratory reporting limit of 2 ppt. Based on the absence of detectable PFC compounds in the sample collected from your well, no further action, including additional sampling and/or mitigation measures (i.e. bottled water) are required at this time. The Department thanks you for granting access to your property.

If you have any questions pertaining to this Notice of Environmental Sampling or with the information contained within, please feel free to contact David Bachand at (413) 755-2221 or Cynthia Pawloski at (413) 755-2247.

Sincerely,

Eva Tor
Deputy Regional Director
Bureau of Waste Site Cleanup

[1] Fact Sheet PFOA & PFOS Drinking Water Health Advisories. EPA, EPA 800 F-16-003, June 2016

Attachments: Notice of Environmental Sampling (BWSC-123)
Laboratory Report

ec Mayor, City of Westfield
Barnes ANG-John Richardson
Barnes Aquifer Protection Committee
Westfield DPW – David Billips
Westfield Health Department
Westfield Councilor Mary Ann Babinski
Dr. Marc A. Nascarella, Ph.D/DPH

cc: Denise Andler, DEP WERO
Data Entry: FOLOFF, FOLFLD

FREQUENTLY ASKED QUESTIONS ABOUT MASSDEP'S ACCESS AND CONSENT TO ENTER PROPERTY AGREEMENTS

1. Why does MassDEP need access to my property?

   The Massachusetts Department of Environmental Protection (MassDEP) is the state agency responsible under state law, Massachusetts General Laws Chapter 21E (Chapter 21E), for regulating responses to the release or threat of release of oil or hazardous materials into the environment. As part of its legal responsibilities, MassDEP sometimes needs to enter property to assess, contain and/or remove contamination in order to protect public health, safety, welfare and the environment. MassDEP's authority for seeking property access for this work is found in Sections 4 and 8 of Chapter 21E.

2. Am I responsible for any contamination that is found on my property?

   Sometimes. Section 5 of Chapter 21E provides that the owner of property where a release or threat of release of oil or hazardous materials into the environment has occurred or come to be located (the "Site") is responsible for the cleanup of that contamination. MassDEP assigns a Release Tracking Number to each Site. Typically, MassDEP notifies owners of Sites of their responsibility for cleanup by means of a letter called a "Notice of Responsibility" before requesting access onto the Site.

   However, MassDEP sometimes seeks access onto property, which has not been identified as part of a Site, to investigate and ensure that contamination has not migrated from a nearby Site onto the property (for example, when underground gasoline contamination migrates through groundwater into adjacent properties with private water supply wells). The goal of MassDEP's investigation in such cases is to protect the public health and safety of the adjacent property owners, as well as the environment. In many instances, the owner of the property that is not the source of the release will not be required to clean up migrating surface or groundwater contamination, for example, if the owner qualifies for a special status known as Downgradient Property Status ("DPS"). A DPS property owner will not in most instances be required to clean up the migrating contamination, although the owner may be responsible to address any immediate concerns on the property (e.g., explosive or toxic vapors seeping into a building).

3. Will I need to pay for the work MassDEP performs on my property?

   Maybe. As discussed above, a property owner is usually responsible for the cleanup of contamination on his or her property. Chapter 21E also authorizes MassDEP to clean up the contamination itself and then seek repayment from the parties responsible for the cleanup. MassDEP may exercise its authority to perform cleanup work if, for example, parties are unwilling or unable to do the cleanup themselves. MassDEP may also place liens on property owned by parties' responsible for the cleanup.

   Just as a DPS property owner will usually not be responsible for doing cleanup, a DPS property owner will also usually not be responsible for MassDEP's cleanup costs or have liens placed on its property.

4. Can I be present on the property while MassDEP performs the work?

   Generally, property owners can be present while MassDEP is performing its work activities, provided that property owners do not disrupt or interfere with the work activities and comply with any health and safety measures or legal requirements to ensure a property owner's safety during the work activities.

5. Can my Licensed Site Professional obtain samples from the work MassDEP is performing on my property?

   A Site owner who has retained a Licensed Site Professional ("LSP," an individual who is specially licensed by the state and is hired by Site owners to clean up contaminated properties) can have the LSP

present on the property during MassDEP work activities, and the LSP can obtain duplicate samples from MassDEP upon request, as long as the duplicate sampling analysis requested by the LSP is paid for by the Site owner.

6. Do I have to allow MassDEP access to my property?

   A property owner can always refuse to grant MassDEP access onto his or her property. Because MassDEP's goal in seeking access onto property is to protect public health, safety, welfare and the environment, MassDEP will always try to work cooperatively with property owners to obtain voluntary access in a way that minimizes any disruption or inconvenience to the property owner. Where a property owner does refuse to grant MassDEP access, however, MassDEP has the right under Section 8 of Chapter 21E to seek a court order permitting MassDEP entry onto the property to perform any work required to protect public health, safety, welfare and the environment.

7. Can I ask MassDEP to alter its work schedule to minimize disruption to my business or tenants?

   MassDEP will always work cooperatively with property owners to minimize any disruption to business, commercial activities and/or property tenants when seeking access.

8. Will MassDEP reimburse me for any damage done to the property as a result of cleanup activities?

   MassDEP's contractors all carry insurance to cover the work activities being performed on the property and upon request, the property owner can obtain a Certificate of Insurance (listing the property owner as an additional insured) from each MassDEP contractor involved in the project. Upon completion of the work, MassDEP will make reasonable efforts to restore the areas of the property where the work activities occurred to its prior condition.

9. Will MassDEP reimburse or compensate me for any loss caused by contamination found on my property?

   No. As noted in Question 2 above, property owners of a Site are responsible under Chapter 21E for the cleanup of contamination on, and migrating from the Site. In addition, there may be circumstances under which downgradient property owners may be responsible for the costs of activities required to address any immediate concerns that result from contaminant migration.

MASSACHUSETTS DEPARTMENT OF PUBLIC HEALTH

PFOS and PFOA in Drinking Water

This fact sheet answers frequently asked questions about the detection of Perfluorooctanoic acid (PFOA) and Perfluorooctane sulfonate (PFOS) in drinking water. The US Environmental Protection Agency (US EPA) updated the lifetime health advisory (HA) level, and we would like to inform and update you on what it means.

WHAT ARE PFOA AND PFOS?

PFOA and PFOS are fluorinated organic chemicals that are part of a larger group of chemicals referred to as perfluoroalkyl substances (PFAs). PFOA and PFOS have been the most extensively produced and studied of these chemicals. They have been used to make carpets, clothing, fabrics for furniture, paper packaging for food, and other materials (e.g., cookware) that are resistant to water, grease or stains. They are also used in aqueous firefighting foam and in a number of industrial processes. Because these chemicals have been used in an array of consumer products, most people have been exposed to them.

Many PFAs are no longer being produced in this country; the largest manufacturer completely stopped PFOA/PFOS production in 2002. PFAs are still being produced in other countries and may be imported into the US in limited quantities. The EPA and the PFA industry launched the PFOA Stewardship Program in 2006 to work toward ending the production of PFOA and other PFAs.

While consumer products and food are a large source of exposure for most people, drinking water can be an additional source in the small percentage of communities where these chemicals have contaminated water supplies. Such contamination is typically localized and associated with a specific facility (e.g. an industrial facility where these chemicals were produced or used to manufacture other products or where firefighting foam was used).

HOW ARE PFOS/PFOA REGULATED?

Because they are emerging contaminants, there are currently no established regulatory limits for levels in drinking water. The US EPA has recently set a health advisory level (HA) of 0.07 micrograms per liter (µg/L) for both PFOS and PFOA in May 2016.

HOW CAN PFOS/PFOA AFFECT MY HEALTH?

There are many gaps in the current scientific literature, but it is believed that PFAs may affect human health. Most research is based on animal studies and scientists are still unsure of the difference between how animals and humans respond to PFAs. They are associated with changes in thyroid, liver, and kidney function, as well changes in hormone levels. These two chemicals have also been shown to cause developmental effects to fetuses during pregnancy and in breastfed infants.

CAN PFAs CAUSE CANCER?

There is no conclusive evidence that PFAs cause cancer, though several animal studies and legal cases have identified a possible link between them. The EPA reports there is suggestive evidence that these chemicals can increase the risk of cancer. Both the EPA and the National Toxicology Program are continuing research on the cancer potential of PFAs.

WHAT IS MY RISK IF I DRANK WATER ABOVE THE HEALTH ADVISORY LEVEL?

Drinking water at a level above EPA's HA does not necessarily mean that health risks are expected. This is because the HA is based on a level that is safe to drink for an entire lifetime. By convention, a value such as the HA is used as a "screening" value that is designed to overestimate exposure and ensure that sensitive individuals are protected. For example, the HA assumes that individuals drink only contaminated water and are also exposed to PFAs from sources beyond drinking water, such as food. Several safety factors are additionally applied to account for the differences between animals and humans and the differences from one human to another human. Under this scenario, a risk would be expected only if an individual continuously drinks only contaminated water at a level higher than the HA.

WHAT SHOULD I DO TO LIMIT EXPOSURE?

PFAs are found at low levels in the environment, in consumer products, and food, so it is nearly impossible to eliminate all exposure. If you live near a site where PFA contamination has been identified, there are several ways to limit your exposure such as drinking and cooking with bottled water, and using pre-mixed baby formula, or bottled water for reconstituting powdered formula. Using contaminated water for routine showering and bathing are not significant sources of exposure.

WHERE CAN I GET MORE INFORMATION?

For questions about drinking water quality contact the:

MassDEP Drinking Water Program
617-292-5770
Program.Director-DWP@state.ma.us
http://www.mass.gov/eea/agencies/massdep/water/drinking/is-there-copper-in-my-tap-water.html

For health-related questions contact the:

Environmental Toxicology Program
Bureau of Environmental Health, MDPH
250 Washington Street, 7th Floor, Boston, MA 02108
Phone: 617-624-5757 | Fax: 617-624-5777 | TTY: 617-624-5286

US EPA's Drinking Water Health Advisories
https://www.epa.gov/ground-water-and-drinking-water/drinking-water-health-advisories-pfoa-and-pfos

July 2016

Images courtesy of Richard Duncan and Debora Cartagena at the Centers for Disease Control and Prevention.

This fact sheet was supported in part by funds from a cooperative agreement with the Agency for Toxic Substances and Disease Registry (ATSDR), U.S. Department of Health and Human Services. This document has not been reviewed and cleared by ATSDR

con-test®
ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

July 13, 2017

Rob Smith
ATC Group Services LLC - West Springfield
73 Williams Franks Drive
West Springfield, MA 01089

Project Location: 39 Schumann Dr., Westfield
Client Job Number:
Project Number: 183EM00170
Laboratory Work Order Number: 17F1646

Enclosed are results of analyses for samples received by the laboratory on June 28, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kerry K. McGee

Kerry K. McGee
Project Manager

Table of Contents

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ATC Group Services LLC - West Springfield
73 Williams Franks Drive
West Springfield, MA 01089
ATTN: Rob Smith

REPORT DATE: 7/13/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 183EM00170

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17F1646

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 39 Schumann Dr., Westfield

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
Trip Blank	17F1646-01	Trip Blank Water		EPA 537	
39 Schumann Dr-1	17F1646-02	Drinking Water		EPA 537	

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Tod E. Kopyscinski
Laboratory Director

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 39 Schumann Dr., Westfield | Sample Description: | Work Order: 17F1646

Date Received: 6/28/2017

Field Sample #: Trip Blank | Sampled: 6/27/2017 07:30

Sample ID: 17F1646-01

Sample Matrix: Trip Blank Water

Miscellaneous Organic Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L	1		EPA 537	7/6/17	7/12/17 21:54	BLM
Perfluorotridecanoic acid (PFTrDA)	ND	2.0	ng/L	1		EPA 537	7/6/17	7/12/17 21:54	BLM
Perfluorotetradecanoic acid (PFTA)	ND	2.0	ng/L	1		EPA 537	7/6/17	7/12/17 21:54	BLM
Perfluorooctanoic acid (PFOA)	ND	2.0	ng/L	1		EPA 537	7/6/17	7/12/17 21:54	BLM
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	ng/L	1		EPA 537	7/6/17	7/12/17 21:54	BLM
Perfluorononanoic acid (PFNA)	ND	2.0	ng/L	1		EPA 537	7/6/17	7/12/17 21:54	BLM
Perfluorohexanoic acid (PFHxA)	ND	2.0	ng/L	1		EPA 537	7/6/17	7/12/17 21:54	BLM
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	ng/L	1		EPA 537	7/6/17	7/12/17 21:54	BLM
Perfluoroheptanoic acid (PFHpA)	ND	2.0	ng/L	1		EPA 537	7/6/17	7/12/17 21:54	BLM
Perfluorododecanoic acid (PFDoA)	ND	2.0	ng/L	1		EPA 537	7/6/17	7/12/17 21:54	BLM
Perfluorodecanoic acid (PFDA)	ND	2.0	ng/L	1		EPA 537	7/6/17	7/12/17 21:54	BLM
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	ng/L	1		EPA 537	7/6/17	7/12/17 21:54	BLM
NEtFOSAA	ND	2.0	ng/L	1		EPA 537	7/6/17	7/12/17 21:54	BLM
NMeFOSAA	ND	2.0	ng/L	1		EPA 537	7/6/17	7/12/17 21:54	BLM
Perfluoropentanoic acid (PFPeA)	ND	2.0	ng/L	1		EPA 537	7/6/17	7/12/17 21:54	BLM

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
13C-PFHxA	86.4	70-130		7/12/17 21:54	
13C-PFDA	95.9	70-130		7/12/17 21:54	
d5-NEtFOSAA	105	70-130		7/12/17 21:54	

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 39 Schumann Dr., Westfield | Sample Description: | Work Order: 17F1646

Date Received: 6/28/2017

Field Sample #: 39 Schumann Dr-1 | Sampled: 6/27/2017 08:20

Sample ID: 17F1646-02

Sample Matrix: Drinking Water

Miscellaneous Organic Analyses

Analyte	Results	RL	MCL/SMCL MA ORSG	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoroundecanoic acid (PFUnA)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 22:45	BLM
Perfluorotridecanoic acid (PFTrDA)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 22:45	BLM
Perfluorotetradecanoic acid (PFTA)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 22:45	BLM
Perfluorooctanoic acid (PFOA)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 22:45	BLM
Perfluorooctanesulfonic acid (PFOS)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 22:45	BLM
Perfluorononanoic acid (PFNA)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 22:45	BLM
Perfluorohexanoic acid (PFHxA)	2.5	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 22:45	BLM
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 22:45	BLM
Perfluoroheptanoic acid (PFHpA)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 22:45	BLM
Perfluorododecanoic acid (PFDoA)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 22:45	BLM
Perfluorodecanoic acid (PFDA)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 22:45	BLM
Perfluorobutanesulfonic acid (PFBS)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 22:45	BLM
NEtFOSAA	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 22:45	BLM
NMeFOSAA	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 22:45	BLM
Perfluoropentanoic acid (PFPeA)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 22:45	BLM

Surrogates	% Recovery	Recovery Limits	Flag/Qual		
13C-PFHxA	122	70-130		7/12/17 22:45	
13C-PFDA	118	70-130		7/12/17 22:45	
d5-NEtFOSAA	120	70-130		7/12/17 22:45	

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: EPA 537-EPA 537

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17F1646-01 [Trip Blank]	B181002	250	1.00	07/06/17
17F1646-02 [39 Schumann Dr-1]	B181002	250	1.00	07/06/17

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Miscellaneous Organic Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B181002 - EPA 537										
Blank (B181002-BLK1)				Prepared: 07/06/17 Analyzed: 07/12/17						
Perfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L							
Perfluorotridecanoic acid (PFTrDA)	ND	2.0	ng/L							
Perfluorotetradecanoic acid (PFTA)	ND	2.0	ng/L							
Perfluorooctanoic acid (PFOA)	ND	2.0	ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	ng/L							
Perfluorononanoic acid (PFNA)	ND	2.0	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	2.0	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	2.0	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	2.0	ng/L							
Perfluorodecanoic acid (PFDA)	ND	2.0	ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	ng/L							
NEtFOSAA	ND	2.0	ng/L							
NMeFOSAA	ND	2.0	ng/L							
Perfluoropentanoic acid (PFPeA)	ND	2.0	ng/L							
Surrogate: 13C-PFHxA	*35.3*		ng/L	40.0		88.2	70-130			
Surrogate: 13C-PFDA	*41.8*		ng/L	40.0		105	70-130			
Surrogate: d5-NEtFOSAA	*172*		ng/L	160		107	70-130			
LCS (B181002-BS1)				Prepared: 07/06/17 Analyzed: 07/12/17						
Perfluoroundecanoic acid (PFUnA)	25.4	2.0	ng/L	20.0		127	70-130			
Perfluorotridecanoic acid (PFTrDA)	21.0	2.0	ng/L	20.0		105	70-130			
Perfluorotetradecanoic acid (PFTA)	20.6	2.0	ng/L	20.0		103	70-130			
Perfluorooctanoic acid (PFOA)	17.6	2.0	ng/L	20.0		87.9	70-130			
Perfluorooctanesulfonic acid (PFOS)	19.7	2.0	ng/L	18.5		107	70-130			
Perfluorononanoic acid (PFNA)	18.7	2.0	ng/L	20.0		93.5	70-130			
Perfluorohexanoic acid (PFHxA)	19.6	2.0	ng/L	20.0		97.9	70-130			
Perfluorohexanesulfonic acid (PFHxS)	15.8	2.0	ng/L	18.2		86.9	70-130			
Perfluoroheptanoic acid (PFHpA)	16.7	2.0	ng/L	20.0		83.5	70-130			
Perfluorododecanoic acid (PFDoA)	20.8	2.0	ng/L	20.0		104	70-130			
Perfluorodecanoic acid (PFDA)	20.9	2.0	ng/L	20.0		104	70-130			
Perfluorobutanesulfonic acid (PFBS)	16.0	2.0	ng/L	17.7		90.6	70-130			
NEtFOSAA	22.4	2.0	ng/L	20.0		112	70-130			
NMeFOSAA	19.2	2.0	ng/L	20.0		95.8	70-130			
Surrogate: 13C-PFHxA	*39.7*		ng/L	40.0		99.3	70-130			
Surrogate: 13C-PFDA	*45.7*		ng/L	40.0		114	70-130			
Surrogate: d5-NEtFOSAA	*198*		ng/L	160		123	70-130			

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 537 in Drinking Water	
Perfluorooctanoic acid (PFOA)	NH,NY
Perfluorooctanesulfonic acid (PFOS)	NH,NY
Perfluoropentanoic acid (PFPeA)	NH

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

17F1646

con-test® ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

http://www.contestlabs.com

Doc # 381 Rev 1_03242017

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page 1 of 1

Company Name:	ATC Group Services
Address:	73 William Franks Drive, West Springfield, MA
Phone:	(413) 781-0070
Project Name:	39 Schumann Dr, Westfield
Project Location:	39 Schumann Dr, Westfield
Project Number:	183EM00170
Project Manager:	Rob Smith
Con-Test Quote Name/Number:	
Invoice Recipient:	
Sampled By:	Joseph Bolduc

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date: 5-day TAT

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: Rob.Smith@ATCAssociates.com
Fax To #:

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code	# of Containers	EPA METHOD 537	TOTAL As, Fe, HARDNESS, TOC
01	Trip Blank	6/27/2017	730		X	DW	U	X		
	39 Schumann Dr - field blank	6/27/2017	810		X	DW	U	X		
02	39 Schumann Dr - 1	6/27/2017	820		X	DW	U	X	X	
	39 Schumann Dr - 2	6/27/2017	822		X	DW	U	X		

ANALYSIS REQUESTED

	4	1	2
# of Containers			
[2] Preservation Code	O	N	H
[3] Container Code	P	P	V

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define) TRIZMA

[3] Container Codes:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments:
RUN EPA Method 537: 39 Schumann Dr-1
EXTRACT & HOLD EPA Method 537: 39 Schumann Dr-field blank & 39 Schumann Dr-2
HOLD As, Fe, Hardness, TOC

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

	Relinquished by: (signature)	Date/Time:
	Joseph Bolduc	6-27-17 1630
	Received by: (signature)	Date/Time:
	Sample Refrigerator	6-27-17 1631
	Relinquished by: (signature)	Date/Time:
	J. Shaw	6/28/17 10:00
	Received by: (signature)	Date/Time:
	Joe	6/28/17 10
	Relinquished by: (signature)	Date/Time:
	Joe	6/28/17 10.35
	Received by: (signature)	Date/Time:
	Paul	6.28.17 10:35

Detection Limit Requirements
MA
CT
Other:

Special Requirements
☐ MA MCP Required
MCP Certification Form Required
☐ CT RCP Required
RCP Certification Form Required
☐ MA State DW Required
PWSID #

con-test® ANALYTICAL LABORATORY www.contestlabs.com

Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ AIHA-LAP,LLC

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Table of Contents

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client ATC

Received By PB Date 6.28.17 Time 10:35

How were the samples received? In Cooler T No Cooler ____ On Ice T No Ice ____

Direct From Sample ____ Ambient ____ Melted Ice ____

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 4.1

By Blank # ____ Actual Temp - ____

Was Custody Seal Intact? NA Were Samples Tampered with? F

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client? T Analysis? T Sampler Name? T

Project? T ID's? T Collection Dates/Times? T

Are Sample labels filled out and legible? ____

Are there Lab to Filters? F Who was notified? ____

Are there Rushes? F Who was notified? ____

Are there Short Holds? F Who was notified? ____

Is there enough Volume? T

Is there Headspace where applicable? F MS/MSD? NA

Proper Media/Containers Used? T splitting samples require F

Were TB's received? F On COC? NA

Do All Samples Have the proper pH? T Acid T Base

Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-	2	500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic	2	4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Material

Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

Commonwealth of Massachusetts
Executive Office of Energy & Environmental Affairs

Department of Environmental Protection

Western Regional Office • 436 Dwight Street, Springfield MA 01103 • 413-784-1100

Charles D. Baker
Governor

Karyn E. Polito
Lieutenant Governor

Matthew A. Beaton
Secretary

Martin Suuberg
Commissioner

August 2, 2017

Leslie and Sherry Bessette
277 Buck Pond Road
Westfield, MA 01085

RE: Notice of Environmental Sampling
277 Buck Pond Road
Westfield Private Well Sampling

Dear Leslie & Sherry Bessette:

The Department of Environmental Protection (DEP) collected a drinking water sample from your private well on June 27, 2017. The purpose of the sampling was to investigate whether your well has been affected by a release of perfluorinated compounds (PFCs) to local groundwater. The sample was sent to a certified laboratory and analyzed for PFC compounds by modified United States Protection Agency (EPA) Method 317.1. EPA has established a Lifetime Health Advisory level at 70 parts per trillion (ppt), for two specific compounds which have been the most extensively used and studied, PFOA (perfluorooctanoic acid) and PFOS (perfluorooctane sulfonic acid). If both PFOA and PFOS are identified in drinking water the combined concentrations are compared to the 70 ppt health advisory level. The Health Advisory offers a margin of protection from a lifetime of exposure to PFOA and PFOS for all individuals from adverse health effects resulting from exposure from PFOA and PFOS in drinking water. [1]

The sampling result indicated a total PFOA and PFOS concentration of 3 ppt in the drinking water sample. The results of a duplicate sample confirmed these results. This concentration is well below the health advisory level of 70 ppt. In order to confirm this result, MassDEP will contact you to resample your well. MassDEP will also sample wells in the vicinity of your area in order to gather additional information. The Department thanks you for granting access to your property.

If you have any questions pertaining to this Notice of Environmental Sampling or with the information n contained within, please feel free to contact David Bachand at (413) 755-2221 or Cynthia Pawloski at (413) 755-2247.

Sincerely,

Eva Tor
Deputy Regional Director
Bureau of Waste Site Cleanup

[1] Fact Sheet PFOA & PFOS Drinking Water Health Advisories. EPA, EPA 800 F-16-003, June 2016

Attachments: Notice of Environmental Sampling (BWSC-123)
Laboratory Report

ec : Mayor, City of Westfield
Barnes ANG-Joh n Richardson
Barnes Aquifer Protection Committee
Westfield DPW – David Billips
Westfield Health Department
Westfield Councilor Mary Ann Babinski
Dr. Marc A. Nascarella, Ph.D/DPH

cc:

Denise Andler, DEP WERO
Data Entry: FOLOFF, FOLFLD

FREQUENTLY ASKED QUESTIONS ABOUT MASSDEP'S ACCESS AND CONSENT TO ENTER PROPERTY AGREEMENTS

1. Why does MassDEP need access to my property?

   The Massachusetts Department of Environmental Protection (MassDEP) is the state agency responsible under state law, Massachusetts General Laws Chapter 21E (Chapter 21E), for regulating responses to the release or threat of release of oil or hazardous materials into the environment. As part of its legal responsibilities, MassDEP sometimes needs to enter property to assess, contain and/or remove contamination in order to protect public health, safety, welfare and the environment. MassDEP's authority for seeking property access for this work is found in Sections 4 and 8 of Chapter 21E.

2. Am I responsible for any contamination that is found on my property?

   Sometimes. Section 5 of Chapter 21E provides that the owner of property where a release or threat of release of oil or hazardous materials into the environment has occurred or come to be located (the "Site") is responsible for the cleanup of that contamination. MassDEP assigns a Release Tracking Number to each Site. Typically, MassDEP notifies owners of Sites of their responsibility for cleanup by means of a letter called a "Notice of Responsibility" before requesting access onto the Site.

   However, MassDEP sometimes seeks access onto property, which has not been identified as part of a Site, to investigate and ensure that contamination has not migrated from a nearby Site onto the property (for example, when underground gasoline contamination migrates through groundwater into adjacent properties with private water supply wells). The goal of MassDEP's investigation in such cases is to protect the public health and safety of the adjacent property owners, as well as the environment. In many instances, the owner of the property that is not the source of the release will not be required to clean up migrating surface or groundwater contamination, for example, if the owner qualifies for a special status known as Downgradient Property Status ("DPS"). A DPS property owner will not in most instances be required to clean up the migrating contamination, although the owner may be responsible to address any immediate concerns on the property (e.g., explosive or toxic vapors seeping into a building).

3. Will I need to pay for the work MassDEP performs on my property?

   Maybe. As discussed above, a property owner is usually responsible for the cleanup of contamination on his or her property. Chapter 21E also authorizes MassDEP to clean up the contamination itself and then seek repayment from the parties responsible for the cleanup. MassDEP may exercise its authority to perform cleanup work if, for example, parties are unwilling or unable to do the cleanup themselves. MassDEP may also place liens on property owned by parties' responsible for the cleanup.

   Just as a DPS property owner will usually not be responsible for doing cleanup, a DPS property owner will also usually not be responsible for MassDEP's cleanup costs or have liens placed on its property.

4. Can I be present on the property while MassDEP performs the work?

   Generally, property owners can be present while MassDEP is performing its work activities, provided that property owners do not disrupt or interfere with the work activities and comply with any health and safety measures or legal requirements to ensure a property owner's safety during the work activities.

5. Can my Licensed Site Professional obtain samples from the work MassDEP is performing on my property?

   A Site owner who has retained a Licensed Site Professional ("LSP," an individual who is specially licensed by the state and is hired by Site owners to clean up contaminated properties) can have the LSP

present on the property during MassDEP work activities, and the LSP can obtain duplicate samples from MassDEP upon request, as long as the duplicate sampling analysis requested by the LSP is paid for by the Site owner.

6. Do I have to allow MassDEP access to my property?

   A property owner can always refuse to grant MassDEP access onto his or her property. Because MassDEP's goal in seeking access onto property is to protect public health, safety, welfare and the environment, MassDEP will always try to work cooperatively with property owners to obtain voluntary access in a way that minimizes any disruption or inconvenience to the property owner. Where a property owner does refuse to grant MassDEP access, however, MassDEP has the right under Section 8 of Chapter 21E to seek a court order permitting MassDEP entry onto the property to perform any work required to protect public health, safety, welfare and the environment.

7. Can I ask MassDEP to alter its work schedule to minimize disruption to my business or tenants?

   MassDEP will always work cooperatively with property owners to minimize any disruption to business, commercial activities and/or property tenants when seeking access.

8. Will MassDEP reimburse me for any damage done to the property as a result of cleanup activities?

   MassDEP's contractors all carry insurance to cover the work activities being performed on the property and upon request, the property owner can obtain a Certificate of Insurance (listing the property owner as an additional insured) from each MassDEP contractor involved in the project. Upon completion of the work, MassDEP will make reasonable efforts to restore the areas of the property where the work activities occurred to its prior condition.

9. Will MassDEP reimburse or compensate me for any loss caused by contamination found on my property?

   No. As noted in Question 2 above, property owners of a Site are responsible under Chapter 21E for the cleanup of contamination on, and migrating from the Site. In addition, there may be circumstances under which downgradient property owners may be responsible for the costs of activities required to address any immediate concerns that result from contaminant migration.

MASSACHUSETTS DEPARTMENT OF PUBLIC HEALTH

PFOS and PFOA in Drinking Water

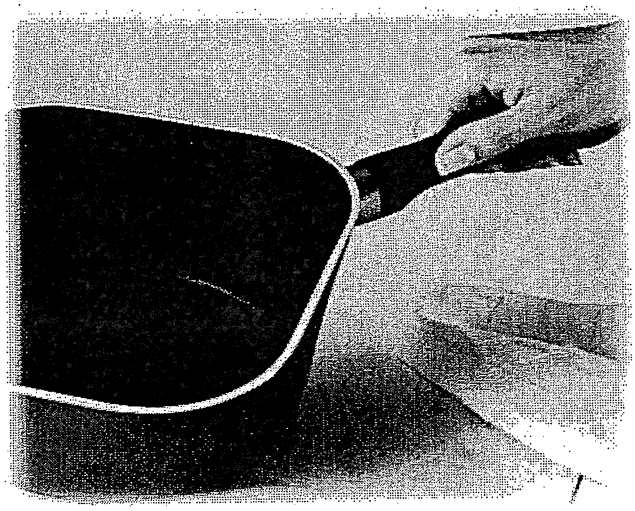
This fact sheet answers frequently asked questions about the detection of Perfluorooctanoic acid (PFOA) and Perfluorooctane sulfonate (PFOS) in drinking water. The US Environmental Protection Agency (US EPA) updated the lifetime health advisory (HA) level, and we would like to inform and update you on what it means.

WHAT ARE PFOA AND PFOS?

PFOA and PFOS are fluorinated organic chemicals that are part of a larger group of chemicals referred to as perfluoroalkyl substances (PFAs). PFOA and PFOS have been the most extensively produced and studied of these chemicals. They have been used to make carpets, clothing, fabrics for furniture, paper packaging for food, and other materials (e.g., cookware) that are resistant to water, grease or stains. They are also used in aqueous firefighting foam and in a number of industrial processes. Because these chemicals have been used in an array of consumer products, most people have been exposed to them.

Many PFAs are no longer being produced in this country; the largest manufacturer completely stopped PFOA/PFOS production in 2002. PFAs are still being produced in other countries and may be imported into the US in limited quantities. The EPA and the PFA industry launched the PFOA Stewardship Program in 2006 to work toward ending the production of PFOA and other PFAs.

While consumer products and food are a large source of exposure for most people, drinking water can be an additional source in the small percentage of communities where these chemicals have contaminated water supplies. Such contamination is typically localized and associated with a specific facility (e.g. an industrial facility where these chemicals were produced or used to manufacture other products or where firefighting foam was used).



HOW ARE PFOS/PFOA REGULATED?

Because they are emerging contaminants, there are currently no established regulatory limits for levels in drinking water. The US EPA has recently set a health advisory level (HA) of 0.07 micrograms per liter (µg/L) for both PFOS and PFOA in May 2016.

HOW CAN PFOS/PFOA AFFECT MY HEALTH?

There are many gaps in the current scientific literature, but it is believed that PFAs may affect human health. Most research is based on animal studies and scientists are still unsure of the difference between how animals and humans respond to PFAs. They are associated with changes in thyroid, liver, and kidney function, as well changes in hormone levels. These two chemicals have also been shown to cause developmental effects to fetuses during pregnancy and in breastfed infants.

CAN PFAs CAUSE CANCER?

There is no conclusive evidence that PFAs cause cancer, though several animal studies and legal cases have identified a possible link between them. The EPA reports there is suggestive evidence that these chemicals can increase the risk of cancer. Both the EPA and the National Toxicology Program are continuing research on the cancer potential of PFAs.

WHAT IS MY RISK IF I DRANK WATER ABOVE THE HEALTH ADVISORY LEVEL?

Drinking water at a level above EPA's HA does not necessarily mean that health risks are expected. This is because the HA is based on a level that is safe to drink for an entire lifetime. By convention, a value such as the HA is used as a "screening" value that is designed to overestimate exposure and ensure that sensitive individuals are protected. For example, the HA assumes that individuals drink only contaminated water and are also exposed to PFAs from sources beyond drinking water, such as food. Several safety factors are additionally applied to account for the differences between animals and humans and the differences from one human to another human. Under this scenario, a risk would be expected only if an individual continuously drinks only contaminated water at a level higher than the HA.

WHAT SHOULD I DO TO LIMIT EXPOSURE?

PFAs are found at low levels in the environment, in consumer products, and food, so it is nearly impossible to eliminate all exposure. If you live near a site where PFA contamination has been identified, there are several ways to limit your exposure such as drinking and cooking with bottled water, and using pre-mixed baby formula, or bottled water for reconstituting powdered formula. Using contaminated water for routine showering and bathing are not significant sources of exposure.

WHERE CAN I GET MORE INFORMATION?

For questions about drinking water quality contact the:

MassDEP Drinking Water Program
617-292-5770
Program.Director-DWP@state.ma.us
http://www.mass.gov/eea/agencies/massdep/water/drinking/is-there-copper-in-my-tap-water.html

For health-related questions contact the:

Environmental Toxicology Program
Bureau of Environmental Health, MDPH
250 Washington Street, 7th Floor, Boston, MA 02108
Phone: 617-624-5757 | Fax: 617-624-5777 | TTY: 617-624-5286

US EPA's Drinking Water Health Advisories
https://www.epa.gov/ground-water-and-drinking-water/drinking-water-health-advisories-pfoa-and-pfos

July 2016

Images courtesy of Richard Duncan and Debora Cartagena at the Centers for Disease Control and Prevention.

This fact sheet was supported in part by funds from a cooperative agreement with the Agency for Toxic Substances and Disease Registry (ATSDR), U.S. Department of Health and Human Services. This document has not been reviewed and cleared by ATSDR.

con-test®
ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

July 13, 2017

Rob Smith
ATC Group Services LLC - West Springfield
73 Williams Franks Drive
West Springfield, MA 01089

Project Location: 277 Buck Pond Rd., Westfield
Client Job Number:
Project Number: 183EM00170
Laboratory Work Order Number: 17F1645

Enclosed are results of analyses for samples received by the laboratory on June 28, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kerry K. McGee

Kerry K. McGee
Project Manager

Table of Contents

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ATC Group Services LLC - West Springfield
73 Williams Franks Drive
West Springfield, MA 01089
ATTN: Rob Smith

REPORT DATE: 7/13/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 183EM00170

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17F1645

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 277 Buck Pond Rd., Westfield

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
277 Buck Pond Rd-1	17F1645-01	Drinking Water		EPA 537	

con-test®
ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Tod E. Kopyscinski
Laboratory Director

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 277 Buck Pond Rd., Westfield Sample Description: Work Order: 17F1645

Date Received: 6/28/2017

Field Sample #: 277 Buck Pond Rd-1 Sampled: 6/27/2017 15:28

Sample ID: 17F1645-01

Sample Matrix: Drinking Water

Miscellaneous Organic Analyses

Analyte	Results	RL	MCL/SMCL MA ORSG	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Perfluoroundecanoic acid (PFUnA)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 23:01	BLM
Perfluorotridecanoic acid (PFTrDA)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 23:01	BLM
Perfluorotetradecanoic acid (PFTA)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 23:01	BLM
Perfluorooctanoic acid (PFOA)	2.6	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 23:01	BLM
Perfluorooctanesulfonic acid (PFOS)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 23:01	BLM
Perfluorononanoic acid (PFNA)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 23:01	BLM
Perfluorohexanoic acid (PFHxA)	2.7	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 23:01	BLM
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 23:01	BLM
Perfluoroheptanoic acid (PFHpA)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 23:01	BLM
Perfluorododecanoic acid (PFDoA)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 23:01	BLM
Perfluorodecanoic acid (PFDA)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 23:01	BLM
Perfluorobutanesulfonic acid (PFBS)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 23:01	BLM
NEtFOSAA	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 23:01	BLM
NMeFOSAA	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 23:01	BLM
Perfluoropentanoic acid (PFPeA)	ND	2.0		ng/L	1		EPA 537	7/6/17	7/12/17 23:01	BLM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
13C-PFHxA	90.7	70-130		7/12/17 23:01
13C-PFDA	129	70-130		7/12/17 23:01
d5-NEtFOSAA	129	70-130		7/12/17 23:01

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: EPA 537-EPA 537

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17F1645-01 [277 Buck Pond Rd-1]	B181002	250	1.00	07/06/17

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Miscellaneous Organic Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B181002 - EPA 537										
Blank (B181002-BLK1)				Prepared: 07/06/17 Analyzed: 07/12/17						
Perfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L							
Perfluorotridecanoic acid (PFTrDA)	ND	2.0	ng/L							
Perfluorotetradecanoic acid (PFTA)	ND	2.0	ng/L							
Perfluorooctanoic acid (PFOA)	ND	2.0	ng/L							
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	ng/L							
Perfluorononanoic acid (PFNA)	ND	2.0	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	2.0	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	2.0	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	2.0	ng/L							
Perfluorodecanoic acid (PFDA)	ND	2.0	ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	ng/L							
NEtFOSAA	ND	2.0	ng/L							
NMeFOSAA	ND	2.0	ng/L							
Perfluoropentanoic acid (PFPeA)	ND	2.0	ng/L							
Surrogate: 13C-PFHxA	*35.3*		ng/L	40.0		88.2	70-130			
Surrogate: 13C-PFDA	*41.8*		ng/L	40.0		105	70-130			
Surrogate: d5-NEtFOSAA	*172*		ng/L	160		107	70-130			
LCS (B181002-BS1)				Prepared: 07/06/17 Analyzed: 07/12/17						
Perfluoroundecanoic acid (PFUnA)	25.4	2.0	ng/L	20.0		127	70-130			
Perfluorotridecanoic acid (PFTrDA)	21.0	2.0	ng/L	20.0		105	70-130			
Perfluorotetradecanoic acid (PFTA)	20.6	2.0	ng/L	20.0		103	70-130			
Perfluorooctanoic acid (PFOA)	17.6	2.0	ng/L	20.0		87.9	70-130			
Perfluorooctanesulfonic acid (PFOS)	19.7	2.0	ng/L	18.5		107	70-130			
Perfluorononanoic acid (PFNA)	18.7	2.0	ng/L	20.0		93.5	70-130			
Perfluorohexanoic acid (PFHxA)	19.6	2.0	ng/L	20.0		97.9	70-130			
Perfluorohexanesulfonic acid (PFHxS)	15.8	2.0	ng/L	18.2		86.9	70-130			
Perfluoroheptanoic acid (PFHpA)	16.7	2.0	ng/L	20.0		83.5	70-130			
Perfluorododecanoic acid (PFDoA)	20.8	2.0	ng/L	20.0		104	70-130			
Perfluorodecanoic acid (PFDA)	20.9	2.0	ng/L	20.0		104	70-130			
Perfluorobutanesulfonic acid (PFBS)	16.0	2.0	ng/L	17.7		90.6	70-130			
NEtFOSAA	22.4	2.0	ng/L	20.0		112	70-130			
NMeFOSAA	19.2	2.0	ng/L	20.0		95.8	70-130			
Surrogate: 13C-PFHxA	*39.7*		ng/L	40.0		99.3	70-130			
Surrogate: 13C-PFDA	*45.7*		ng/L	40.0		114	70-130			
Surrogate: d5-NEtFOSAA	*198*		ng/L	160		123	70-130			

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 537 in Drinking Water	
Perfluorooctanoic acid (PFOA)	NH,NY
Perfluorooctanesulfonic acid (PFOS)	NH,NY
Perfluoropentanoic acid (PFPeA)	NH

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

17F1645

con-test® ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

http://www.contestlabs.com

Doc # 381 Rev 1_03242017

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	ATC Group Services
Address:	73 William Franks Drive, West Springfield, MA
Phone:	(413) 781-0070
Project Name:	277 Buck Pond Rd, Westfield
Project Location:	277Buck Pond Rd, Westfield
Project Number:	183EM00170
Project Manager:	Rob Smith
Con-Test Quote Name/Number:	
Invoice Recipient:	
Sampled By:	Joseph Bolduc

Requested Turnaround Time
7-Day ☐ 10-Day ☐
Due Date: 5-day TAT

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: Rob.Smith@ATCAssociates
Fax To #:

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code	EPA METHOD 537	TOTAL As, Fe, HARDNESS, TOC
	277 Buck Pond Rd - field blank	6/27/2017	1515		X	DW	U	X	
01	277 Buck Pond Rd - 1	6/27/2017	1528		X	DW	U	X	X
	277 Buck Pond Rd - 2	6/27/2017	1530		X	DW	U	X	

	3	1	2									# of Containers
	O	N	H									[2] Preservation Code
	P	P	V									[3] Container Code

ANALYSIS REQUESTED

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define) TRIZMA

[3] Container Codes:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments:
RUN EPA Method 537: 277 Buck Pond Rd-1
EXTRACT & HOLD EPA Method 537: 277 Buck Pond Rd-field blank & 277 Buck Pond Rd-2
HOLD As, Fe, Hardness, TOC

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature) Joseph Bolduc	Date/Time: 6-27-17 1630	
Received by: (signature) Refrigerator	Date/Time: 6-27-17 1630	
Relinquished by: (signature)	Date/Time: 6/28/17 10:00	
Received by: (signature) Joe Gill 6/28/17	Date/Time: 10.	
Relinquished by: (signature) Joe Gill 6/28/17	Date/Time: 10.35	
Received by: (signature) Paula 6.28.17 4.1	Date/Time: 10:35	

Detection Limit Requirements
MA
CT
Other:

Special Requirements
☐ MA MCP Required
MCP Certification Form Required
☐ CT RCP Required
RCP Certification Form Required
☐ MA State DW Required
PWSID #

con-test® ANALYTICAL LABORATORY www.contestlabs.com

Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ AIHA-LAP,LLC

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Table of Contents

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client ATC

Received By PB Date 6.28.17 Time 10:35

How were the samples received? In Cooler T No Cooler ____ On Ice T No Ice ____

Direct From Sample ____ Ambient ____ Melted Ice ____

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 4.1

By Blank # ____ Actual Temp - ____

Was Custody Seal Intact? NA Were Samples Tampered with? F

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client? T Analysis? T Sampler Name? T

Project? T ID's? T Collection Dates/Times? T

Are Sample labels filled out and legible? ____

Are there Lab to Filters? F Who was notified? ____

Are there Rushes? F Who was notified? ____

Are there Short Holds? F Who was notified? ____

Is there enough Volume? T

Is there Headspace where applicable? F MS/MSD? NA

Proper Media/Containers Used? T splitting samples require F

Were TB's received? F On COC? NA

Do All Samples Have the proper pH? T Acid T Base

Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic	9	4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unpres./Media

Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments: