



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

December 11, 2017

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

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 perfluorinated chemicals (PFCs) to the groundwater. To date, we have sampled sixty-nine private wells and have issued eighty-eight access agreement letters. MassDEP is continuing to call individuals who have received access agreement letters to schedule sampling. MassDEP resampled residences where the Department installed a point of entry carbon filtration system to ensure the systems are working properly to eliminate any health risk. 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:

Four of the sampling results indicated PFCs were not detected above the laboratory reporting level, which is 2 ppt. In the table this is identified as ND for Non Detect.

Seven 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 sixty-nine private wells sampled to date:

This information is available in alternate format. Contact Michelle Waters-Ekanem, Director of Diversity/Civil Rights at 617-292-5751.

TTY# MassRelay Service 1-800-439-2370

MassDEP Website: www.mass.gov/dep

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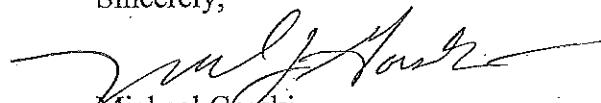
Address	Date Sampled	Laboratory Results for PFOA + PFOS (70 ppt Advisory)
52 Ridge Trail Road	11/7/2017	8 ppt
101 Ridge Trail Road	11/7/2017	ND
31 Schumann Drive	11/7/2017	16 ppt
12 Ivy Avenue	11/7/2017	16 ppt
1768 East Mountain Road	11/7/2017	3 ppt
89 Ridge Trail Road	11/7/2017	8 ppt
77 Ridge Trail Road	11/7/2017	3 ppt
1948 East Mountain Road	11/7/2017	ND
240 Buck Pond Road	11/7/2017	ND
30 Hopkins road	11/7/2017	ND
287 Buck Pond Road	11/7/2017	14 ppt
1889 East Mountain Road	9/26/2017	ND
1903 East Mountain Road	9/26/2017	ND
260 Buck Pond Road	8/28/2017	3ppt
1880 East Mountain Road	8/28/2017	ND
22 Indian Ridge Road	8/28/2017	8ppt
33 Indian Ridge Road	8/28/2017	8ppt
247 Buck Pond Road	8/8/2017	11ppt
40 Indian Ridge	8/8/2017	9 ppt
244 Buck Pond Road	8/8/2017	6 ppt
1343 Southampton Road	8/8/2017	10 ppt
678 North Road	8/8/2017	10 ppt
30 Indian Ridge Road	8/8/2017	6 ppt
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	6/24/2017	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 Road	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. Based on the results of the recent site assessment work performed at Barnes ANG Base and assessment completed by the City of Westfield, the Department is in the process of transitioning all response actions associated with the assessment and mitigation of the PFCs in the private wells to Barnes ANG Base. 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>.

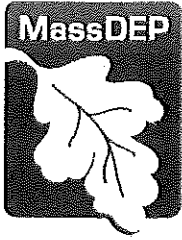
If you have any questions regarding this letter please contact me at (413) 755-2213 or Eva Tor at 413-755-2295.

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



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December 11, 2017

Paul and Candace Goyette
240 Buck Pond Road
Westfield, MA 01085

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

Dear Mr. & Mrs. Goyette:

The Department of Environmental Protection (DEP) collected a drinking water sample from your private well on November 7, 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 that PFOA and PFOS compounds were not detected in the drinking water sample above the laboratory reporting limit of 2 ppt. Based on this data, no further action, including additional sampling and/or mitigation measures (i.e. bottled water) are required at this time. However, additional sampling may be required in the future. The Department thanks you for granting access to your property.

This information is available in alternate format. Contact Michelle Waters-Ekanem, Director of Diversity/Civil Rights at 617-292-5751.

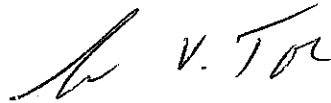
TTY# MassRelay Service 1-800-439-2370

MassDEP Website: www.mass.gov/dep

Printed on Recycled Paper

If you have any questions pertaining to this Notice of Environmental Sampling or with the informationn 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

cc : 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



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

NOTICE OF ENVIRONMENTAL SAMPLING

1 - 20093

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: 175 Falcon Drive
City/Town: Westfield Zip Code: 01085

B. This notice is being provided to the following party:

1. Name: Paul & Candace Goyette
2. Street Address: 240 Buck Pond Road
City/Town: Westfield Zip Code: 01085

C. This notice is being given to inform its recipient (the party listed in Section B):

- 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
- 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
- 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 240 Buck Pond Road
City/Town: Westfield Zip Code: 01085

2. MCP phase of work during which the sampling will be/has been conducted:

- | | |
|---|--|
| <input checked="" type="checkbox"/> Immediate Response Action | <input type="checkbox"/> Phase III Feasibility Evaluation |
| <input type="checkbox"/> Release Abatement Measure | <input type="checkbox"/> Phase IV Remedy Implementation Plan |
| <input type="checkbox"/> Utility-related Abatement Measure | <input type="checkbox"/> Phase V/Remedy Operation Status |
| <input type="checkbox"/> Phase I Initial Site Investigation | <input type="checkbox"/> Post-Temporary Solution Operation, Maintenance and Monitoring |
| <input type="checkbox"/> Phase II Comprehensive Site Assessment | <input type="checkbox"/> Other _____ |
- (specify)

3. Description of property where sampling will be/has been conducted:

- residential commercial industrial school/playground Other _____
- (specify)

4. Description of the sampling locations and types (e.g., soil, groundwater, indoor air, soil gas) to the extent known at the time of this notice.

Drinking water samples were collected from the private well located on the above-referenced property and analyzed for PHAS via EPA Method 537.1.1.

E. Contact information related to the party providing this notice:

Contact Name: MA Department of Environmental Protection
Street Address: 436 Dwight Street
City/Town: Springfield Zip Code: 01103
Telephone: (413) 784-1100 Email: david.bachand.jr@state.ma.us



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

NOTICE OF ENVIRONMENTAL SAMPLING

1 - 20093

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation of a release for which a notification to MassDEP has been made under the Massachusetts Contingency Plan (310 CMR 40.0300) on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/eea/agencies/massdep/cleanup>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://public.dep.state.ma.us/SearchableSites2/Search.aspx> to view site-specific files on-line or <http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html> if you would like to make an appointment to see these files in person. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.



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

November 22, 2017

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

Project Location: 240 Buck Pond Rd., Westfield
Client Job Number:
Project Number: 183EM00170
Laboratory Work Order Number: 17K0438

Enclosed are results of analyses for samples received by the laboratory on November 8, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads 'Kerry K. McGee'. The signature is written in a cursive, flowing style.

Kerry K. McGee
Project Manager

Table of Contents

Sample Summary	3
Case Narrative	4
Sample Results	5
17K0438-01	5
Sample Preparation Information	6
QC Data	7
Miscellaneous Organic Analyses	7
B190547	7
Flag/Qualifier Summary	8
Certifications	9
Chain of Custody/Sample Receipt	10



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

REPORT DATE: 11/22/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 183EM00170

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17K0438

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

PROJECT LOCATION: 240 Buck Pond Rd., Westfield

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
240 Buck Pond-1	17K0438-01	Drinking Water		EPA 537	

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.

A handwritten signature in black ink, appearing to read "Lisa A. Worthington". The signature is fluid and cursive, written over a white background.

Lisa A. Worthington
Project Manager



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Project Location: 240 Buck Pond Rd., Westfield

Sample Description:

Work Order: 17K0438

Date Received: 11/8/2017

Field Sample #: 240 Buck Pond-1

Sampled: 11/7/2017 15:57

Sample ID: 17K0438-01

Sample Matrix: Drinking Water

Miscellaneous Organic Analyses

Analyte	Results	MCL/SMCL			Dilution	Flag/Qual	Method	Date	Date/Time	Analyst
		RL	MA	ORSG				Prepared	Analyzed	
Perfluoropentanoic acid (PFPeA)	ND	2.0			ng/L	1	EPA 537	11/9/17	11/19/17 17:01	BLM
# Perfluorobutanesulfonic acid (PFBS)	3.4	2.0	2		ng/L	1	EPA 537	11/9/17	11/19/17 17:01	BLM
Perfluorohexanoic acid (PFHxA)	ND	2.0	2		ng/L	1	EPA 537	11/9/17	11/19/17 17:01	BLM
Perfluoroheptanoic acid (PFHpA)	ND	2.0	2		ng/L	1	EPA 537	11/9/17	11/19/17 17:01	BLM
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	2		ng/L	1	EPA 537	11/9/17	11/19/17 17:01	BLM
Perfluorooctanoic acid (PFOA)	ND	2.0	2		ng/L	1	EPA 537	11/9/17	11/19/17 17:01	BLM
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	2		ng/L	1	EPA 537	11/9/17	11/19/17 17:01	BLM
Perfluorononanoic acid (PFNA)	ND	2.0	2		ng/L	1	EPA 537	11/9/17	11/19/17 17:01	BLM
Perfluorodecanoic acid (PFDA)	ND	2.0	2		ng/L	1	EPA 537	11/9/17	11/19/17 17:01	BLM
NMeFOSAA	ND	2.0			ng/L	1	EPA 537	11/9/17	11/19/17 17:01	BLM
Perfluoroundecanoic acid (PFUnA)	ND	2.0	2		ng/L	1	EPA 537	11/9/17	11/19/17 17:01	BLM
NEtFOSAA	ND	2.0			ng/L	1	EPA 537	11/9/17	11/19/17 17:01	BLM
Perfluorododecanoic acid (PFDoA)	ND	2.0	2		ng/L	1	EPA 537	11/9/17	11/19/17 17:01	BLM
Perfluorotridecanoic acid (PFTriDA)	ND	2.0	2		ng/L	1	EPA 537	11/9/17	11/19/17 17:01	BLM
Perfluorotetradecanoic acid (PFTA)	ND	2.0	2		ng/L	1	EPA 537	11/9/17	11/19/17 17:01	BLM
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
13C-PFHxA		125	70-130					11/19/17	17:01	
13C-PFDA		118	70-130					11/19/17	17:01	
d5-NEtFOSAA		71.5	70-130					11/19/17	17:01	

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Sample Extraction Data

Prep Method: EPA 537-EPA 537

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17K0438-01 [240 Buck Pond-1]	B190547	250	1.00	11/09/17



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QUALITY CONTROL

Miscellaneous Organic Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B190547 - EPA 537										
Blank (B190547-BLK1)										
Prepared: 11/09/17 Analyzed: 11/19/17										
Perfluoropentanoic acid (PFPeA)	ND	2.0	ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	2.0	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	2.0	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	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							
Perfluorodecanoic acid (PFDA)	ND	2.0	ng/L							
NMeFOSAA	ND	2.0	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L							
NEtFOSAA	ND	2.0	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	2.0	ng/L							
Perfluorotridecanoic acid (PFTrDA)	ND	2.0	ng/L							
Perfluorotetradecanoic acid (PFTTA)	ND	2.0	ng/L							
Surrogate: 13C-PFHxA	35.2		ng/L	40.0		88.0	70-130			
Surrogate: 13C-PFDA	34.4		ng/L	40.0		86.1	70-130			
Surrogate: d5-NEtFOSAA	150		ng/L	160		93.7	70-130			
LCS (B190547-BS1)										
Prepared: 11/09/17 Analyzed: 11/17/17										
Perfluorobutanesulfonic acid (PFBS)	1.99	2.0	ng/L	1.77		112	50-150			
Perfluorohexanoic acid (PFHxA)	2.63	2.0	ng/L	2.00		132	50-150			
Perfluoroheptanoic acid (PFHpA)	1.95	2.0	ng/L	2.00		97.5	50-150			
Perfluorohexanesulfonic acid (PFHxS)	2.16	2.0	ng/L	1.82		119	50-150			
Perfluorooctanoic acid (PFOA)	2.56	2.0	ng/L	2.00		128	50-150			
Perfluorooctanesulfonic acid (PFOS)	2.32	2.0	ng/L	1.85		126	50-150			
Perfluorononanoic acid (PFNA)	2.87	2.0	ng/L	2.00		144	50-150			
Perfluorodecanoic acid (PFDA)	2.76	2.0	ng/L	2.00		138	50-150			
NMeFOSAA	1.63	2.0	ng/L	2.00		81.6	50-150			
Perfluoroundecanoic acid (PFUnA)	2.64	2.0	ng/L	2.00		132	50-150			
NEtFOSAA	1.59	2.0	ng/L	2.00		79.7	50-150			
Perfluorododecanoic acid (PFDoA)	2.28	2.0	ng/L	2.00		114	50-150			
Perfluorotridecanoic acid (PFTrDA)	2.25	2.0	ng/L	2.00		113	50-150			
Perfluorotetradecanoic acid (PFTTA)	2.45	2.0	ng/L	2.00		122	50-150			
Surrogate: 13C-PFHxA	43.0		ng/L	40.0		107	70-130			
Surrogate: 13C-PFDA	49.2		ng/L	40.0		123	70-130			
Surrogate: d5-NEtFOSAA	112		ng/L	160		70.2	70-130			

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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.



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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>EPA 537 in Drinking Water</i>	
Perfluoropentanoic acid (PFPeA)	NH,VT-DW
Perfluorobutanesulfonic acid (PFBS)	VT-DW,ME
Perfluorohexanoic acid (PFHxA)	VT-DW,ME
Perfluoroheptanoic acid (PFHpA)	VT-DW,ME
Perfluorohexanesulfonic acid (PFHxS)	VT-DW,ME
Perfluorooctanoic acid (PFOA)	NH,NY,VT-DW,ME
Perfluorooctanesulfonic acid (PFOS)	NH,NY,VT-DW,ME
Perfluorononanoic acid (PFNA)	VT-DW,ME
Perfluorodecanoic acid (PFDA)	VT-DW,ME
NMeFOSAA	VT-DW
Perfluoroundecanoic acid (PFUnA)	VT-DW,ME
NEtFOSAA	VT-DW
Perfluorododecanoic acid (PFDoA)	VT-DW,ME
Perfluorotridecanoic acid (PFTriDA)	VT-DW,ME
Perfluorotetradecanoic acid (PFTA)	VT-DW,ME

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 Public Health	PH-0567	09/30/2019
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	09/6/2018
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

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

ATC Group Services
73 William Franks Drive, West Springfield, MA
(413) 781-0070
240 Buck Pond Rd., Westfield
240 Buck Pond Rd., Westfield
183EM00170
Rob Smith

Con-Test Quote Name/Number:
Invoice Recipient:
Sampled By: Elizabeth O'Connor

Doc # 381 Rev 1_03242017
39 Spruce Street
East Longmeadow, MA 01028

Page 1 of 1

Requested Turnaround Time		Due Date: 5-day TAT		Rush-Approval Required		Data Delivery		Format: PDF <input checked="" type="checkbox"/> EXCEL <input checked="" type="checkbox"/>		Other: <input type="checkbox"/>		CLP Like Data Plg Required: <input type="checkbox"/>		Email To: <input type="checkbox"/>		Fax To #: <input type="checkbox"/>	
7-Day	10-Day	5-Day TAT	3-Day	4-Day	PDF	EXCEL	Other	CLP Like Data Plg Required	Email To	Fax To	Matrix Code	Conc Code	Matrix Code	Conc Code	Matrix Code	Conc Code	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>									
<p>ANALYSIS REQUESTED</p> <p>TOTAL As, Fe, HARDNESS, TOC</p> <p>EPA METHOD 537</p>																	
<p>Matrix Codes: GW = Ground Water WW = Waste Water DW = Drinking Water A = Air S = Soil SL = Sludge SOL = Solid O = Other (please define)</p> <p>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</p> <p>Container Codes: A = Amber Glass G = Glass P = Plastic ST = Sterile V = Vial S = Summa Canister T = Tedlar Bag O = Other (please define)</p> <p>PCB ONLY <input type="checkbox"/> Soxhlet <input type="checkbox"/> Non Soxhlet</p>																	
<p>Comments: RUN EPA Method 537: 240 Buck Pond Rd-1 EXTRACT & HOLD EPA Method 537: 240 Buck Pond Rd-field blank & 240 Buck Pond Rd-2 HOLD As, Fe, Hardness, TOC</p>																	
<p>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</p>																	
<p>Detection Limit Requirements MA <input type="checkbox"/> MA MCP Required MCP Certification Form Required CT <input type="checkbox"/> CT RCP Required RCP Certification Form Required</p> <p>Special Requirements MA <input type="checkbox"/> MA State DW Required</p> <p>Other: PWSID #</p>																	
<p>Project Entity <input type="checkbox"/> Government <input type="checkbox"/> Federal <input type="checkbox"/> City <input type="checkbox"/> Municipality <input type="checkbox"/> 21 J <input type="checkbox"/> Brownfield <input type="checkbox"/> MWRA <input type="checkbox"/> School <input type="checkbox"/> MBTA <input type="checkbox"/> WRTA <input type="checkbox"/> Chromatogram <input type="checkbox"/> AIFA-LAP, LLC Other</p>																	
<p>Requisitioned by: (signature) <i>Elizabeth O'Connor</i> Date/Time: 11/8/17 8:00</p> <p>Received by: (signature) <i>Rob Smith</i> Date/Time: 11/8/17 8:00</p> <p>Relinquished by: (signature) _____ Date/Time: _____</p> <p>Relinquished by: (signature) _____ Date/Time: _____</p> <p>Relinquished by: (signature) _____ Date/Time: _____</p>																	



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



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 BLF Date 11/8/17 Time 800
 How were the samples received? In Cooler T No Cooler On Ice T No Ice
 Direct from Sampling Ambient Melted Ice
 Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 4.4, 5.4°C
 By Blank # Actual Temp -
 Was Custody Seal Intact? NA Were Samples Tamped with? NA
 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 F ID's T Collection Dates/Times T
 Are Sample labels filled out and legible? T
 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? F Is splitting samples required? F
 Were trip blanks received? F On COC? NA
 Do all samples have the proper pH? Acid T Base NA

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-	<u>2</u>	500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic	<u>3</u>	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

Vials	#	Containers:	#		#		#
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

December 11, 2017

Scott and Cindy Warner
1948 East Mountain Road
Westfield, MA 01085

RE: Notice of Environmental Sampling
1948 East Mountain Road
Westfield Private Well Sampling

Dear Mr. & Mrs. Warner:

The Department of Environmental Protection (DEP) collected a drinking water sample from your private well on November 7, 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 that PFOA and PFOS compounds were not detected in the drinking water sample above the laboratory reporting limit of 2 ppt. Based on this data, no further action, including additional sampling and/or mitigation measures (i.e. bottled water) are required at this time. However, additional sampling may be required in the future. The Department thanks you for granting access to your property.

This information is available in alternate format. Contact Michelle Waters-Ekanem, Director of Diversity/Civil Rights at 617-292-5751.

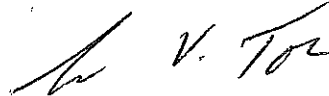
TTY# MassRelay Service 1-800-439-2370

MassDEP Website: www.mass.gov/dep

Printed on Recycled Paper

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

cc : 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



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

1 - 20093

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: 175 Falcon Drive
City/Town: Westfield Zip Code: 01085

B. This notice is being provided to the following party:

1. Name: Scott and Cindy Warner
2. Street Address: 1948 East Mountain Road
City/Town: Westfield Zip Code: 01085

C. This notice is being given to inform its recipient (the party listed in Section B):

- 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
- 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
- 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 1948 East Mountain Road
City/Town: Westfield Zip Code: 01085

2. MCP phase of work during which the sampling will be/has been conducted:

- | | |
|---|--|
| <input checked="" type="checkbox"/> Immediate Response Action | <input type="checkbox"/> Phase III Feasibility Evaluation |
| <input type="checkbox"/> Release Abatement Measure | <input type="checkbox"/> Phase IV Remedy Implementation Plan |
| <input type="checkbox"/> Utility-related Abatement Measure | <input type="checkbox"/> Phase V/Remedy Operation Status |
| <input type="checkbox"/> Phase I Initial Site Investigation | <input type="checkbox"/> Post-Temporary Solution Operation, Maintenance and Monitoring |
| <input type="checkbox"/> Phase II Comprehensive Site Assessment | <input type="checkbox"/> Other _____
(specify) |

3. Description of property where sampling will be/has been conducted:

- residential commercial industrial school/playground Other _____
(specify)

4. Description of the sampling locations and types (e.g., soil, groundwater, indoor air, soil gas) to the extent known at the time of this notice.

Drinking water samples were collected from the private well located on the above-referenced property and analyzed for PHAS via EPA Method 537.1.1.

E. Contact information related to the party providing this notice:

Contact Name: MA Department of Environmental Protection
Street Address: 436 Dwight Street
City/Town: Springfield Zip Code: 01103
Telephone: (413) 784-1100 Email: david.bachand.jr@state.ma.us



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

NOTICE OF ENVIRONMENTAL SAMPLING

1 - 20093

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation of a release for which a notification to MassDEP has been made under the Massachusetts Contingency Plan (310 CMR 40.0300) on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/eea/agencies/massdep/cleanup>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in **Section A** is also available in files at the Massachusetts Department of Environmental Protection. See <http://public.dep.state.ma.us/SearchableSites2/Search.aspx> to view site-specific files on-line or <http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html> if you would like to make an appointment to see these files in person. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.



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

November 22, 2017

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

Project Location: 1948 East Mountain Rd., Westfield
Client Job Number:
Project Number: 183EM00170
Laboratory Work Order Number: 17K0440

Enclosed are results of analyses for samples received by the laboratory on November 8, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Kerry K. McGee". The signature is written in a cursive, flowing style.

Kerry K. McGee
Project Manager

Table of Contents

Sample Summary	3
Case Narrative	4
Sample Results	5
17K0440-01	5
Sample Preparation Information	6
QC Data	7
Miscellaneous Organic Analyses	7
B190547	7
Flag/Qualifier Summary	8
Certifications	9
Chain of Custody/Sample Receipt	10



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: 11/22/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 183EM00170

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17K0440

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

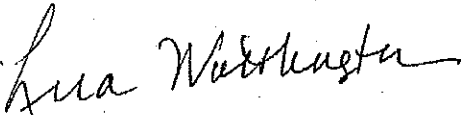
PROJECT LOCATION: 1948 East Mountain Rd., Westfield

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
1948 East Mountain Rd-1	17K0440-01	Drinking Water		EPA 537	

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.

A handwritten signature in black ink, appearing to read "Lisa Worthington", written in a cursive style.

Lisa A. Worthington
Project Manager



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

Project Location: 1948 East Mountain Rd., Westfie

Sample Description:

Work Order: 17K0440

Date Received: 11/8/2017

Field Sample #: 1948 East Mountain Rd-1

Sampled: 11/7/2017 14:13

Sample ID: 17K0440-01

Sample Matrix: Drinking Water

Miscellaneous Organic Analyses

Analyte	Results	MCL/SMCL		Units	Dilution	Flag/Qual	Method	Date	Date/Time	Analyst
		RL	MA ORSG					Prepared	Analyzed	
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/17/17 16:25	BLM
Perfluorohexanoic acid (PFHxA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/17/17 16:25	BLM
Perfluoroheptanoic acid (PFHpA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/17/17 16:25	BLM
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/17/17 16:25	BLM
Perfluorooctanoic acid (PFOA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/17/17 16:25	BLM
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/17/17 16:25	BLM
Perfluorononanoic acid (PFNA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/17/17 16:25	BLM
Perfluorodecanoic acid (PFDA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/17/17 16:25	BLM
NMeFOSAA	ND	2.0		ng/L	1		EPA 537	11/9/17	11/17/17 16:25	BLM
Perfluoroundecanoic acid (PFUnA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/17/17 16:25	BLM
NEtFOSAA	ND	2.0		ng/L	1		EPA 537	11/9/17	11/17/17 16:25	BLM
Perfluorododecanoic acid (PFDoA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/17/17 16:25	BLM
Perfluorotridecanoic acid (PFTriDA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/17/17 16:25	BLM
Perfluorotetradecanoic acid (PFTA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/17/17 16:25	BLM

Surrogates	% Recovery	Recovery Limits	Flag/Qual
13C-PFHxA	125	70-130	11/17/17 16:25
13C-PFDA	129	70-130	11/17/17 16:25
d5-NEtFOSAA	71.3	70-130	11/17/17 16:25



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
17K0440-01 [1948 East Mountain Rd-1]	B190547	250	1.00	11/09/17



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 B190547 - EPA 537										
Blank (B190547-BLKI)										
Prepared: 11/09/17 Analyzed: 11/19/17										
Perfluoropentanoic acid (PFPeA)	ND	2.0	ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	2.0	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	2.0	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	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							
Perfluorodecanoic acid (PFDA)	ND	2.0	ng/L							
NMeFOSAA	ND	2.0	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L							
NEtFOSAA	ND	2.0	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	2.0	ng/L							
Perfluorotridecanoic acid (PFTrDA)	ND	2.0	ng/L							
Perfluorotetradecanoic acid (PFTA)	ND	2.0	ng/L							
Surrogate: 13C-PFHxA	35.2		ng/L	40.0		88.0	70-130			
Surrogate: 13C-PFDA	34.4		ng/L	40.0		86.1	70-130			
Surrogate: d5-NEtFOSAA	150		ng/L	160		93.7	70-130			
LCS (B190547-BSI)										
Prepared: 11/09/17 Analyzed: 11/17/17										
Perfluorobutanesulfonic acid (PFBS)	1.99	2.0	ng/L	1.77		112	50-150			
Perfluorohexanoic acid (PFHxA)	2.63	2.0	ng/L	2.00		132	50-150			
Perfluoroheptanoic acid (PFHpA)	1.95	2.0	ng/L	2.00		97.5	50-150			
Perfluorohexanesulfonic acid (PFHxS)	2.16	2.0	ng/L	1.82		119	50-150			
Perfluorooctanoic acid (PFOA)	2.56	2.0	ng/L	2.00		128	50-150			
Perfluorooctanesulfonic acid (PFOS)	2.32	2.0	ng/L	1.85		126	50-150			
Perfluorononanoic acid (PFNA)	2.87	2.0	ng/L	2.00		144	50-150			
Perfluorodecanoic acid (PFDA)	2.76	2.0	ng/L	2.00		138	50-150			
NMeFOSAA	1.63	2.0	ng/L	2.00		81.6	50-150			
Perfluoroundecanoic acid (PFUnA)	2.64	2.0	ng/L	2.00		132	50-150			
NEtFOSAA	1.59	2.0	ng/L	2.00		79.7	50-150			
Perfluorododecanoic acid (PFDoA)	2.28	2.0	ng/L	2.00		114	50-150			
Perfluorotridecanoic acid (PFTrDA)	2.25	2.0	ng/L	2.00		113	50-150			
Perfluorotetradecanoic acid (PFTA)	2.45	2.0	ng/L	2.00		122	50-150			
Surrogate: 13C-PFHxA	43.0		ng/L	40.0		107	70-130			
Surrogate: 13C-PFDA	49.2		ng/L	40.0		123	70-130			
Surrogate: d5-NEtFOSAA	112		ng/L	160		70.2	70-130			

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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.



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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>EPA 537 in Drinking Water</i>	
Perfluorobutanesulfonic acid (PFBS)	VT-DW,ME
Perfluorohexanoic acid (PFHxA)	VT-DW,ME
Perfluoroheptanoic acid (PFHpA)	VT-DW,ME
Perfluorohexanesulfonic acid (PFHxS)	VT-DW,ME
Perfluorooctanoic acid (PFOA)	NH,NY,VT-DW,ME
Perfluorooctanesulfonic acid (PFOS)	NH,NY,VT-DW,ME
Perfluorononanoic acid (PFNA)	VT-DW,ME
Perfluorodecanoic acid (PFDA)	VT-DW,ME
NMeFOSAA	VT-DW
Perfluoroundecanoic acid (PFUnA)	VT-DW,ME
NEtFOSAA	VT-DW
Perfluorododecanoic acid (PFDoA)	VT-DW,ME
Perfluorotridecanoic acid (PFTtDA)	VT-DW,ME
Perfluorotetradecanoic acid (PFTA)	VT-DW,ME

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 Public Health	PH-0567	09/30/2019
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	09/6/2018
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

17K0440
 http://www.contestlabs.com
 CHAIN OF CUSTODY RECORD
 39 Spruce Street
 East Longmeadow, MA 01028
 Phone: 413-525-2332
 Fax: 413-525-6405
 Email: info@contestlabs.com



Company Name: ATC Group Services
Address: 73 William Franks Drive, West Springfield, MA
Phone: (413) 781-0070
Project Name: 1948 East Mountain Rd., Westfield
Project Location: 1948 East Mountain Rd., Westfield
Project Number: 183EM00170
Project Manager: Rob Smith
Con-Test Quote Name/Number:
Invoice Recipient:
Sampled By: Elizabeth O'Connor

Con-Test Work Order #	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
	1948 East Mountain Rd - field blank	11/7/2017	14:08		X	DW	U
	1948 East Mountain Rd - 1	11/7/2017	14:13		X	DW	U
	1948 East Mountain Rd - 2	11/7/2017	14:14		X	DW	U

Requested Turnaround Time: 7-Day 10-Day
Due Date: 5-day IAT
Rush-Approval Required: 1-Day 3-Day 2-Day 4-Day
Data Delivery: Format: PDF EXCEL
 Other:
 CLP Like Data Pig Required:
 Email To:
 Fax To #:

Comments:
 RUI EPA Method 537: 1948 East Mountain Rd-1
 EXTRACT & HOLD EPA Method 537: 1948 East Mountain Rd-field blank & 1948 East Mountain 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) *Elizabeth O'Connor* Date/Time: 11/17/17 9:00
Received by: (signature) *4454* Date/Time: 11/17/17 8:00
Relinquished by: (signature) Date/Time:
Received by: (signature) Date/Time:
Relinquished by: (signature) Date/Time:

Special Requirements:
 MA MCP Required
 MCP Certification Form Required
 CT RCP Required
 RCP Certification Form Required
 MA State DW Required

Detection Limit Requirements:
 MA
 CT

Other: PWSID #

Project Entity:
 Government Municipality MWRA WRTA Other
 Federal 21 J School Chromatogram
 City Brownfield MBTA A/H/LAP, LLC Non Soxhlet



PCB ONLY
 Soxhlet
 Non Soxhlet

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 BLF Date 11/8/17 Time 800

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

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 4.4, 5.4°C
 By Blank # _____ Actual Temp - _____

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

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 Is splitting samples required? F
 Were trip blanks received? F On COC? NA

Do all samples have the proper pH? Acid T Base NA

Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-	<u>2</u>	500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic	<u>3</u>	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

December 11, 2017

Mark and Nancy Logan
101 Ridge Trail Road
Westfield, MA 01085

RE: Notice of Environmental Sampling
101 Ridge Trail Road
Westfield Private Well Sampling

Dear Mr. & Mrs. Logan:

The Department of Environmental Protection (DEP) collected a drinking water sample from your private well on November 7, 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 that PFOA and PFOS compounds were not detected in the drinking water sample above the laboratory reporting limit of 2 ppt. Based on this data, no further action, including additional sampling and/or mitigation measures (i.e. bottled water) are required at this time. However, additional sampling may be required in the future. The Department thanks you for granting access to your property.

This information is available in alternate format. Contact Michelle Waters-Ekanem, Director of Diversity/Civil Rights at 617-292-6751.

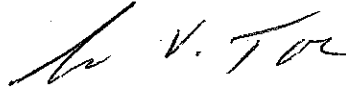
TTY# MassRelay Service 1-800-439-2370

MassDEP Website: www.mass.gov/dep

Printed on Recycled Paper

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

cc : 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



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

NOTICE OF ENVIRONMENTAL SAMPLING

1 - 20093

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: 175 Falcon Drive
City/Town: Westfield Zip Code: 01085

B. This notice is being provided to the following party:

1. Name: Mark and Nancy Logan
2. Street Address: 101 Ridge Trail Road
City/Town: Westfield Zip Code: 01085

C. This notice is being given to inform its recipient (the party listed in Section B):

- 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
- 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
- 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 101 Ridge Trail Road
City/Town: Westfield Zip Code: 01085

2. MCP phase of work during which the sampling will be/has been conducted:

- Immediate Response Action
- Release Abatement Measure
- Utility-related Abatement Measure
- Phase I Initial Site Investigation
- Phase II Comprehensive Site Assessment
- Phase III Feasibility Evaluation
- Phase IV Remedy Implementation Plan
- Phase V/Remedy Operation Status
- Post-Temporary Solution Operation, Maintenance and Monitoring
- Other _____ (specify)

3. Description of property where sampling will be/has been conducted:

- residential
- commercial
- industrial
- school/playground
- Other _____ (specify)

4. Description of the sampling locations and types (e.g., soil, groundwater, indoor air, soil gas) to the extent known at the time of this notice.

Drinking water samples were collected from the private well located on the above-referenced property and analyzed for PHAS via EPA Method 537.1.1.

E. Contact information related to the party providing this notice:

Contact Name: MA Department of Environmental Protection
Street Address: 436 Dwight Street
City/Town: Springfield Zip Code: 01103
Telephone: (413) 784-1100 Email: david.bachand.jr@state.ma.us



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

NOTICE OF ENVIRONMENTAL SAMPLING

1 - 20093

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation of a release for which a notification to MassDEP has been made under the Massachusetts Contingency Plan (310 CMR 40.0300) on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/eea/agencies/massdep/cleanup>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://public.dep.state.ma.us/SearchableSites2/Search.aspx> to view site-specific files on-line or <http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html> if you would like to make an appointment to see these files in person. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.



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

November 22, 2017

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

Project Location: 101 Ridge Trail Rd., Westfield
Client Job Number:
Project Number: 183EM00170
Laboratory Work Order Number: 17K0446

Enclosed are results of analyses for samples received by the laboratory on November 8, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Kerry K. McGee". The signature is written in a cursive, flowing style.

Kerry K. McGee
Project Manager

Table of Contents

Sample Summary	3
Case Narrative	4
Sample Results	5
17K0446-01	5
17K0446-02	6
Sample Preparation Information	7
QC Data	8
Miscellaneous Organic Analyses	8
B190547	8
Flag/Qualifier Summary	9
Certifications	10
Chain of Custody/Sample Receipt	11



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: 11/22/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 183EM00170

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17K0446

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

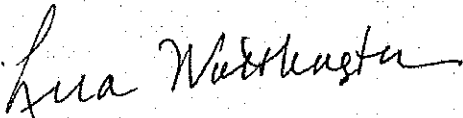
PROJECT LOCATION: 101 Ridge Trail Rd., Westfield

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
101 Ridge Trail Rd-1	17K0446-01	Drinking Water		EPA 537	
Trip Blank	17K0446-02	Drinking Water		EPA 537	

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.

A handwritten signature in black ink, appearing to read "Lisa A. Worthington". The signature is written in a cursive, flowing style.

Lisa A. Worthington
Project Manager



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

Project Location: 101 Ridge Trail Rd., Westfield

Sample Description:

Work Order: 17K0446

Date Received: 11/8/2017

Field Sample #: 101 Ridge Trail Rd-1

Sampled: 11/7/2017 09:07

Sample ID: 17K0446-01

Sample Matrix: Drinking Water

Miscellaneous Organic Analyses

Analyte	Results	MCL/SMCL		Units	Dilution	Flag/Qual	Method	Date	Date/Time	Analyst
		RL	MA ORSG					Prepared	Analyzed	
Perfluoropentanoic acid (PFPeA)	ND	2.0		ng/L	1		EPA 537	11/9/17	11/19/17 17:27	BLM
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 17:27	BLM
Perfluorohexanoic acid (PFHxA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 17:27	BLM
Perfluoroheptanoic acid (PFHpA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 17:27	BLM
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 17:27	BLM
Perfluorooctanoic acid (PFOA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 17:27	BLM
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 17:27	BLM
Perfluorononanoic acid (PFNA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 17:27	BLM
Perfluorodecanoic acid (PFDA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 17:27	BLM
NMeFOSAA	ND	2.0		ng/L	1		EPA 537	11/9/17	11/19/17 17:27	BLM
Perfluoroundecanoic acid (PFUnA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 17:27	BLM
NEtFOSAA	ND	2.0		ng/L	1		EPA 537	11/9/17	11/19/17 17:27	BLM
Perfluorododecanoic acid (PFDoA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 17:27	BLM
Perfluorotridecanoic acid (PFTyDA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 17:27	BLM
Perfluorotetradecanoic acid (PFTA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 17:27	BLM

Surrogates	% Recovery	Recovery Limits	Flag/Qual
13C-PFHxA	70.6	70-130	11/19/17 17:27
13C-PFDA	83.0	70-130	11/19/17 17:27
d5-NEtFOSAA	84.4	70-130	11/19/17 17:27

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

Project Location: 101 Ridge Trail Rd., Westfield

Sample Description:

Work Order: 17K0446

Date Received: 11/8/2017

Field Sample #: Trip Blank

Sampled: 11/6/2017 16:15

Sample ID: 17K0446-02

Sample Matrix: Drinking Water

Miscellaneous Organic Analyses

Analyte	Results	MCL/SMCL			Units	Dilution	Flag/Qual	Method	Date	Date/Time	Analyst
		RL	MA	ORSG					Prepared	Analyzed	
Perfluoropentanoic acid (PFPeA)	ND	2.0			ng/L	1	EPA 537	11/9/17	11/19/17 17:40	BLM	
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	2		ng/L	1	EPA 537	11/9/17	11/19/17 17:40	BLM	
Perfluorohexanoic acid (PFHxA)	ND	2.0	2		ng/L	1	EPA 537	11/9/17	11/19/17 17:40	BLM	
Perfluoroheptanoic acid (PFHpA)	ND	2.0	2		ng/L	1	EPA 537	11/9/17	11/19/17 17:40	BLM	
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	2		ng/L	1	EPA 537	11/9/17	11/19/17 17:40	BLM	
Perfluorooctanoic acid (PFOA)	ND	2.0	2		ng/L	1	EPA 537	11/9/17	11/19/17 17:40	BLM	
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	2		ng/L	1	EPA 537	11/9/17	11/19/17 17:40	BLM	
Perfluorononanoic acid (PFNA)	ND	2.0	2		ng/L	1	EPA 537	11/9/17	11/19/17 17:40	BLM	
Perfluorodecanoic acid (PFDA)	ND	2.0	2		ng/L	1	EPA 537	11/9/17	11/19/17 17:40	BLM	
NMeFOSAA	ND	2.0			ng/L	1	EPA 537	11/9/17	11/19/17 17:40	BLM	
Perfluoroundecanoic acid (PFUnA)	ND	2.0	2		ng/L	1	EPA 537	11/9/17	11/19/17 17:40	BLM	
NEtFOSAA	ND	2.0			ng/L	1	EPA 537	11/9/17	11/19/17 17:40	BLM	
Perfluorododecanoic acid (PFDoA)	ND	2.0	2		ng/L	1	EPA 537	11/9/17	11/19/17 17:40	BLM	
Perfluorotridecanoic acid (PFTrDA)	ND	2.0	2		ng/L	1	EPA 537	11/9/17	11/19/17 17:40	BLM	
Perfluorotetradecanoic acid (PFTA)	ND	2.0	2		ng/L	1	EPA 537	11/9/17	11/19/17 17:40	BLM	
Surrogates		% Recovery	Recovery Limits				Flag/Qual				
13C-PFHxA		91.6	70-130						11/19/17 17:40		
13C-PFDA		80.1	70-130						11/19/17 17:40		
d5-NEtFOSAA		89.2	70-130						11/19/17 17:40		



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
17K0446-01 [101 Ridge Trail Rd-1]	B190547	250	1.00	11/09/17
17K0446-02 [Trip Blank]	B190547	250	1.00	11/09/17

QUALITY CONTROL

Miscellaneous Organic Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B190547 - EPA 537										
Blank (B190547-BLKI)										
Prepared: 11/09/17 Analyzed: 11/19/17										
Perfluoropentanoic acid (PFPeA)	ND	2.0	ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	2.0	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	2.0	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	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							
Perfluorodecanoic acid (PFDA)	ND	2.0	ng/L							
NMeFOSAA	ND	2.0	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L							
NEtFOSAA	ND	2.0	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	2.0	ng/L							
Perfluorotridecanoic acid (PFTTrDA)	ND	2.0	ng/L							
Perfluorotetradecanoic acid (PFTA)	ND	2.0	ng/L							
Surrogate: 13C-PFHxA	35.2		ng/L	40.0		88.0	70-130			
Surrogate: 13C-PFDA	34.4		ng/L	40.0		86.1	70-130			
Surrogate: d5-NEtFOSAA	150		ng/L	160		93.7	70-130			
LCS (B190547-BS1)										
Prepared: 11/09/17 Analyzed: 11/17/17										
Perfluorobutanesulfonic acid (PFBS)	1.99	2.0	ng/L	1.77		112	50-150			
Perfluorohexanoic acid (PFHxA)	2.63	2.0	ng/L	2.00		132	50-150			
Perfluoroheptanoic acid (PFHpA)	1.95	2.0	ng/L	2.00		97.5	50-150			
Perfluorohexanesulfonic acid (PFHxS)	2.16	2.0	ng/L	1.82		119	50-150			
Perfluorooctanoic acid (PFOA)	2.56	2.0	ng/L	2.00		128	50-150			
Perfluorooctanesulfonic acid (PFOS)	2.32	2.0	ng/L	1.85		126	50-150			
Perfluorononanoic acid (PFNA)	2.87	2.0	ng/L	2.00		144	50-150			
Perfluorodecanoic acid (PFDA)	2.76	2.0	ng/L	2.00		138	50-150			
NMeFOSAA	1.63	2.0	ng/L	2.00		81.6	50-150			
Perfluoroundecanoic acid (PFUnA)	2.64	2.0	ng/L	2.00		132	50-150			
NEtFOSAA	1.59	2.0	ng/L	2.00		79.7	50-150			
Perfluorododecanoic acid (PFDoA)	2.28	2.0	ng/L	2.00		114	50-150			
Perfluorotridecanoic acid (PFTTrDA)	2.25	2.0	ng/L	2.00		113	50-150			
Perfluorotetradecanoic acid (PFTA)	2.45	2.0	ng/L	2.00		122	50-150			
Surrogate: 13C-PFHxA	43.0		ng/L	40.0		107	70-130			
Surrogate: 13C-PFDA	49.2		ng/L	40.0		123	70-130			
Surrogate: d5-NEtFOSAA	112		ng/L	160		70.2	70-130			



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.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>EPA 537 in Drinking Water</i>	
Perfluoropentanoic acid (PFPeA)	NH,VT-DW
Perfluorobutanesulfonic acid (PFBS)	VT-DW,ME
Perfluorohexanoic acid (PFHxA)	VT-DW,ME
Perfluoroheptanoic acid (PFHpA)	VT-DW,ME
Perfluorohexanesulfonic acid (PFHxS)	VT-DW,ME
Perfluorooctanoic acid (PFOA)	NH,NY,VT-DW,ME
Perfluorooctanesulfonic acid (PFOS)	NH,NY,VT-DW,ME
Perfluorononanoic acid (PFNA)	VT-DW,ME
Perfluorodecanoic acid (PFDA)	VT-DW,ME
NMeFOSAA	VT-DW
Perfluoroundecanoic acid (PFUnA)	VT-DW,ME
NEtFOSAA	VT-DW
Perfluorododecanoic acid (PFDoA)	VT-DW,ME
Perfluorotridecanoic acid (PFTtDA)	VT-DW,ME
Perfluorotetradecanoic acid (PFTTA)	VT-DW,ME

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 Public Health	PH-0567	09/30/2019
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	09/6/2018
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018



17K04410
 Phone: 413-525-2332
 Fax: 413-525-6405
 Email: info@contestlabs.com

http://www.contestlabs.com
 CHAIN OF CUSTODY RECORD

Doc # 381 Rev 1_03242017
 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: 101 Ridge Trail Rd, Westfield
Project Location: 101 Ridge Trail Rd, Westfield
Project Number: 183EM00170
Project Manager: Rob Smith
Con-Test Quote Name/Number:
Invoice Recipient:
Sampled By: Elizabeth O'Connor

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:
 Fax To #:

Con-Test Work Order #	Client Sample ID / Description	Beginning Date / Time	Ending Date / Time	Composite	Grab	Water Code	Cont. Code
01	101 Ridge Trail Rd - field blank	11/17/2017	8:54		X	DW	U
	101 Ridge Trail Rd - 1	11/17/2017	9:07		X	DW	U
	101 Ridge Trail Rd - 2	11/17/2017	9:08		X	DW	U
	Trip blank	11/16/17	16:15				X

Comments:
 RUN EPA Method 537: 101 Ridge Trail Rd-1
 EXTRACT & HOLD EPA Method 537: 101 Ridge Trail Rd-field blank & 101 Ridge Trail Rd-2
 HOLD As, Fe, Hardness, TOC

Reinquished by: (signature) *ELIZABETH O'CONNOR* Date/Time: 11/17/17 8:00
Received by: (signature) *Rob Smith* Date/Time: 11/17/17 8:00
Relinquished by: (signature) Date/Time:

Received by: (signature) Date/Time:
Relinquished by: (signature) Date/Time:

of Containers
 2 Preservation Code
 3 Container Code

Dissolved Metals-Samples
 Field Filtered
 Lab-to-Filter

Orthophosphate-Samples
 Field Filtered
 Lab-to-Filter

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

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

Container Codes:
 TRIZMA
 A = Amber Glass
 G = Glass
 P = Plastic
 ST = Sterile
 Y = Ytal
 S = Summa Canister
 T = Tediator Bag
 O = Other (please define)

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

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 G = Glass
 P = Plastic
 ST = Sterile
 Y = Ytal
 S = Summa Canister
 T = Tediator Bag
 O = Other (please define)

ANALYSIS REQUESTED
 TOTAL As, Fe, HARDNESS, TOC
 EPA METHOD 537

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

Special Requirements:
 MA MCP Required
 MA State DW Required
 CT MCP Certification Form Required
 CT RCP Certification Form Required

Project Entity:
 Government Municipality
 Federal 21 J
 City Brownfield
 MWRA WRTA
 School
 MBTA
 Chromatogram
 AIHA-LAP, LLC
 PCB ONLY
 Soxhlet
 Non Soxhlet

con-test
 ANALYTICAL LABORATORY
 www.contestlabs.com

Reinquished by: (signature) *ELIZABETH O'CONNOR* Date/Time: 11/17/17 8:00
Received by: (signature) *Rob Smith* Date/Time: 11/17/17 8:00
Relinquished by: (signature) Date/Time:

Received by: (signature) Date/Time:
Relinquished by: (signature) Date/Time:

Project Entity:
 Government Municipality
 Federal 21 J
 City Brownfield
 MWRA WRTA
 School
 MBTA
 Chromatogram
 AIHA-LAP, LLC
 PCB ONLY
 Soxhlet
 Non Soxhlet

PSWID #
 PWSID #

Page 11 of 12

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



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 PLF Date 11/8/17 Time 800

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

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 4.4, 5.4°C
 By Blank # _____ Actual Temp - _____

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

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 Is splitting samples required? F

Were trip blanks received? F On COC? NA

Do all samples have the proper pH? Acid T Base NA

Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-	<u>2</u>	500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic	<u>34</u>	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:

[Empty box for 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

December 11, 2017

Larry and Cheryl Humphrey
77 Ridge Trail Road
Westfield, MA 01085

RE: Notice of Environmental Sampling
77 Ridge Trail Road
Westfield Private Well Sampling

Dear Mr. & Mrs. Humphrey:

The Department of Environmental Protection (DEP) collected a drinking water sample from your private well on November 7, 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 2.5 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. Based on the concentrations of PFC compounds detected 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. However, additional sampling may be required in the future. The Department thanks you for granting access to your property.

This information is available in alternate format. Contact Michelle Waters-Ekanem, Director of Diversity/Civil Rights at 617-292-5751.

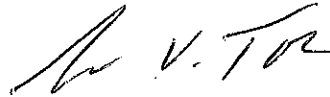
TTY# MassRelay Service 1-800-439-2370

MassDEP Website: www.mass.gov/dep

Printed on Recycled Paper

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

cc : 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



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

NOTICE OF ENVIRONMENTAL SAMPLING

1 - 20093

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: 175 Falcon Drive
City/Town: Westfield Zip Code: 01085

B. This notice is being provided to the following party:

1. Name: Larry & Cheryl Humphrey
2. Street Address: 77 Ridge Trail Road
City/Town: Westfield Zip Code: 01085

C. This notice is being given to inform its recipient (the party listed in Section B):

- 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
- 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
- 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 77 Ridge Trail Road
City/Town: Westfield Zip Code: 01085

2. MCP phase of work during which the sampling will be/has been conducted:

- | | |
|---|--|
| <input checked="" type="checkbox"/> Immediate Response Action | <input type="checkbox"/> Phase III Feasibility Evaluation |
| <input type="checkbox"/> Release Abatement Measure | <input type="checkbox"/> Phase IV Remedy Implementation Plan |
| <input type="checkbox"/> Utility-related Abatement Measure | <input type="checkbox"/> Phase V/Remedy Operation Status |
| <input type="checkbox"/> Phase I Initial Site Investigation | <input type="checkbox"/> Post-Temporary Solution Operation, Maintenance and Monitoring |
| <input type="checkbox"/> Phase II Comprehensive Site Assessment | <input type="checkbox"/> Other _____ |
- (specify)

3. Description of property where sampling will be/has been conducted:

- residential commercial industrial school/playground Other _____
- (specify)

4. Description of the sampling locations and types (e.g., soil, groundwater, indoor air, soil gas) to the extent known at the time of this notice.

Drinking water samples were collected from the private well located on the above-referenced property and analyzed for PHAS via EPA Method 537.1.1.

E. Contact information related to the party providing this notice:

Contact Name: MA Department of Environmental Protection
Street Address: 436 Dwight Street
City/Town: Springfield Zip Code: 01103
Telephone: (413) 784-1100 Email: david.bachand.jr@state.ma.us



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

NOTICE OF ENVIRONMENTAL SAMPLING

1 - 20093

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation of a release for which a notification to MassDEP has been made under the Massachusetts Contingency Plan (310 CMR 40.0300) on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/eea/agencies/massdep/cleanup>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://public.dep.state.ma.us/SearchableSites2/Search.aspx> to view site-specific files on-line or <http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html> if you would like to make an appointment to see these files in person. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.



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

November 22, 2017

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

Project Location: 77 Ridge Trail Rd., Westfield
Client Job Number:
Project Number: 183EM00170
Laboratory Work Order Number: 17K0443

Enclosed are results of analyses for samples received by the laboratory on November 8, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Kerry K. McGee". The signature is written in a cursive, flowing style.

Kerry K. McGee
Project Manager

Table of Contents

Sample Summary	3
Case Narrative	4
Sample Results	5
17K0443-01	5
Sample Preparation Information	6
QC Data	7
Miscellaneous Organic Analyses	7
B190547	7
Flag/Qualifier Summary	8
Certifications	9
Chain of Custody/Sample Receipt	10



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: 11/22/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 183EM00170

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17K0443

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

PROJECT LOCATION: 77 Ridge Trail Rd., Westfield

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
77 Ridge Trail Rd-I	17K0443-01	Drinking Water		EPA 537	



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-08

Duplicate analysis confirmed surrogate failure due to matrix effects.

Analyte & Samples(s) Qualified:

13C-PFDA

17K0443-01[77 Ridge Trail Rd-1]

13C-PFHxA

17K0443-01[77 Ridge Trail 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.

A handwritten signature in black ink, appearing to read "Lisa A. Worthington". The signature is written in a cursive, flowing style.

Lisa A. Worthington
Project Manager



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

Project Location: 77 Ridge Trail Rd., Westfield

Sample Description:

Work Order: 17K0443

Date Received: 11/8/2017

Field Sample #: 77 Ridge Trail Rd-1

Sampled: 11/7/2017 13:40

Sample ID: 17K0443-01

Sample Matrix: Drinking Water

Miscellaneous Organic Analyses

Analyte	Results	MCL/SMCL		Units	Dilution	Flag/Qual	Method	Date	Date/Time	Analyst
		RL	MA ORSG					Prepared	Analyzed	
Perfluoropentanoic acid (PFPeA)	ND	2.0		ng/L	1		EPA 537	11/9/17	11/19/17 17:14	BLM
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 17:14	BLM
Perfluorohexanoic acid (PFHxA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 17:14	BLM
Perfluoroheptanoic acid (PFHpA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 17:14	BLM
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 17:14	BLM
# Perfluorooctanoic acid (PFOA)	2.5	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 17:14	BLM
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 17:14	BLM
Perfluorononanoic acid (PFNA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 17:14	BLM
Perfluorodecanoic acid (PFDA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 17:14	BLM
NMeFOSAA	ND	2.0		ng/L	1		EPA 537	11/9/17	11/19/17 17:14	BLM
Perfluoroundecanoic acid (PFUnA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 17:14	BLM
NEtFOSAA	ND	2.0		ng/L	1		EPA 537	11/9/17	11/19/17 17:14	BLM
Perfluorododecanoic acid (PFDoA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 17:14	BLM
Perfluorotridecanoic acid (PFTriDA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 17:14	BLM
Perfluorotetradecanoic acid (PFTA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 17:14	BLM
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
13C-PFHxA		42.2 *	70-130			S-08			11/19/17 17:14	
13C-PFDA		66.1 *	70-130			S-08			11/19/17 17:14	
d5-NEtFOSAA		75.2	70-130						11/19/17 17:14	



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Sample Extraction Data

Prep Method: EPA 537-EPA 537

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17K0443-01 [77 Ridge Trail Rd-1]	B190547	250	1.00	11/09/17



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 B190547 - EPA 537										
Blank (B190547-BLK1)										
Prepared: 11/09/17 Analyzed: 11/19/17										
Perfluoropentanoic acid (PFPeA)	ND	2.0	ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	2.0	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	2.0	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	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							
Perfluorodecanoic acid (PFDA)	ND	2.0	ng/L							
NMeFOSAA	ND	2.0	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L							
NEtFOSAA	ND	2.0	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	2.0	ng/L							
Perfluorotridecanoic acid (PFTriDA)	ND	2.0	ng/L							
Perfluorotetradecanoic acid (PFTA)	ND	2.0	ng/L							
Surrogate: 13C-PFHxA	35.2		ng/L	40.0		88.0	70-130			
Surrogate: 13C-PFDA	34.4		ng/L	40.0		86.1	70-130			
Surrogate: d5-NEtFOSAA	150		ng/L	160		93.7	70-130			
LCS (B190547-BS1)										
Prepared: 11/09/17 Analyzed: 11/17/17										
Perfluorobutanesulfonic acid (PFBS)	1.99	2.0	ng/L	1.77		112	50-150			
Perfluorohexanoic acid (PFHxA)	2.63	2.0	ng/L	2.00		132	50-150			
Perfluoroheptanoic acid (PFHpA)	1.95	2.0	ng/L	2.00		97.5	50-150			
Perfluorohexanesulfonic acid (PFHxS)	2.16	2.0	ng/L	1.82		119	50-150			
Perfluorooctanoic acid (PFOA)	2.56	2.0	ng/L	2.00		128	50-150			
Perfluorooctanesulfonic acid (PFOS)	2.32	2.0	ng/L	1.85		126	50-150			
Perfluorononanoic acid (PFNA)	2.87	2.0	ng/L	2.00		144	50-150			
Perfluorodecanoic acid (PFDA)	2.76	2.0	ng/L	2.00		138	50-150			
NMeFOSAA	1.63	2.0	ng/L	2.00		81.6	50-150			
Perfluoroundecanoic acid (PFUnA)	2.64	2.0	ng/L	2.00		132	50-150			
NEtFOSAA	1.59	2.0	ng/L	2.00		79.7	50-150			
Perfluorododecanoic acid (PFDoA)	2.28	2.0	ng/L	2.00		114	50-150			
Perfluorotridecanoic acid (PFTriDA)	2.25	2.0	ng/L	2.00		113	50-150			
Perfluorotetradecanoic acid (PFTA)	2.45	2.0	ng/L	2.00		122	50-150			
Surrogate: 13C-PFHxA	43.0		ng/L	40.0		107	70-130			
Surrogate: 13C-PFDA	49.2		ng/L	40.0		123	70-130			
Surrogate: d5-NEtFOSAA	112		ng/L	160		70.2	70-130			



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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-08	Duplicate analysis confirmed surrogate failure due to matrix effects.



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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>EPA 537 in Drinking Water</i>	
Perfluoropentanoic acid (PFPeA)	NH,VT-DW
Perfluorobutanesulfonic acid (PFBS)	VT-DW,ME
Perfluorohexanoic acid (PFHxA)	VT-DW,ME
Perfluoroheptanoic acid (PFHpA)	VT-DW,ME
Perfluorohexanesulfonic acid (PFHxS)	VT-DW,ME
Perfluorooctanoic acid (PFOA)	NH,NY,VT-DW,ME
Perfluorooctanesulfonic acid (PFOS)	NH,NY,VT-DW,ME
Perfluorononanoic acid (PFNA)	VT-DW,ME
Perfluorodecanoic acid (PFDA)	VT-DW,ME
NMeFOSAA	VT-DW
Perfluoroundecanoic acid (PFUnA)	VT-DW,ME
NEtFOSAA	VT-DW
Perfluorododecanoic acid (PFDoA)	VT-DW,ME
Perfluorotridecanoic acid (PFTtDA)	VT-DW,ME
Perfluorotetradecanoic acid (PFTA)	VT-DW,ME

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 Public Health	PH-0567	09/30/2019
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	09/6/2018
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018



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

Company Name: ATC Group Services
Address: 73 William Franks Drive, West Springfield, MA
Phone: (413) 781-0070

Project Name: 77 Ridge Trail Rd, Westfield
Project Location: 77 Ridge Trail Rd, Westfield
Project Number: 183EM00170
Project Manager: Rob Smith

Con-Test Quote Name/Number:
Invoice Recipient:
Sampled By: Elizabeth O'Connor

Con-Test Work Order #	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Con-Code
01	77 Ridge Trail Rd - field blank	11/17/2017	13:26		X	DW	U
	77 Ridge Trail Rd - 1	11/17/2017	13:40		X	DW	U
	77 Ridge Trail Rd - 2	11/17/2017	13:41		X	DW	U

Comments:
 RUN EPA Method 537: 77 Ridge Trail Rd-1
 EXTRACT & HOLD EPA Method 537: 77 Ridge Trail Rd-field blank & 77 Ridge Trail Rd-2
 HOLD As, Fe, Hardness, TOC

Requisitioned by: (signature) Elizabeth O'Connor
Date/Time: 11/17/17 8:00
Received by: (signature) Elizabeth O'Connor
Date/Time: 11/18/17 8:00
Retrievished by: (signature)
Date/Time:

Special Requirements:
 MA MCP Required
 MCP Certification Form Required
 CT RCP Required
 RCP Certification Form Required
 MA State DW Required

Detection Limit Requirements:
 MA
 CT

Other: PWSID #

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

Other: Chromatogram AIHA-LAP, LLC



# of Containers	1	2	3	4	5	6	7	8	9	10	11	12
Preservation Code	O	N	H									
Container Code	P	P	V									

ANALYSIS REQUESTED
 TOTAL As, Fe, HARDNESS, TOC
 EPA METHOD 537

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

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)

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

PCB ONLY
 Soxhlet
 Non Soxhlet

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 BLF Date 11/8/17 Time 800

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

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 4.4, 5.4°C
 By Blank # _____ Actual Temp - _____

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

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? F Is splitting samples required? F

Were trip blanks received? F On COC? NA

Do all samples have the proper pH? Acid T Base NA

Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-	<u>2</u>	500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic	<u>3</u>	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:



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November 30, 2017

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

Project Location: 77 Ridge Trail Rd., Westfield
Client Job Number:
Project Number: 183EM00170
Laboratory Work Order Number: 17K0458

Enclosed are results of analyses for samples received by the laboratory on November 8, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Kerry K. McGee". The signature is written in a cursive, flowing style.

Kerry K. McGee
Project Manager

Table of Contents

Sample Summary	3
Case Narrative	4
Sample Results	5
17K0458-01	5
17K0458-02	6
Sample Preparation Information	7
QC Data	8
Miscellaneous Organic Analyses	8
B190551	8
Flag/Qualifier Summary	9
Certifications	10
Chain of Custody/Sample Receipt	11



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

REPORT DATE: 11/30/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 183EM00170

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17K0458

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

PROJECT LOCATION: 77 Ridge Trail Rd., Westfield

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
77 Ridge Trail Rd-field blank	17K0458-01	Drinking Water		EPA 537	
77 Ridge Trail Rd-2	17K0458-02	Drinking Water		EPA 537	

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-08

Duplicate analysis confirmed surrogate failure due to matrix effects.

Analyte & Samples(s) Qualified:

13C-PFDA

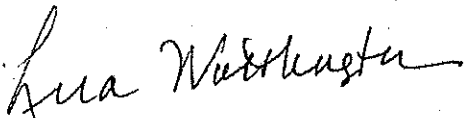
17K0458-02[77 Ridge Trail Rd-2]

13C-PFHxA

17K0458-02[77 Ridge Trail Rd-2]

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.



Lisa A. Worthington
Project Manager



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

Project Location: 77 Ridge Trail Rd., Westfield

Sample Description:

Work Order: 17K0458

Date Received: 11/8/2017

Field Sample #: 77 Ridge Trail Rd-field blank

Sampled: 11/7/2017 13:26

Sample ID: 17K0458-01

Sample Matrix: Drinking Water

Miscellaneous Organic Analyses

Analyte	Results	MCL/SMCL		Units	Dilution	Flag/Qual	Method	Date	Date/Time	Analyst
		RL	MA ORSG					Prepared	Analyzed	
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/28/17 18:25	BLM
Perfluorohexanoic acid (PFHxA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/28/17 18:25	BLM
Perfluoroheptanoic acid (PFHpA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/28/17 18:25	BLM
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/28/17 18:25	BLM
Perfluorooctanoic acid (PFOA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/28/17 18:25	BLM
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/28/17 18:25	BLM
Perfluorononanoic acid (PFNA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/28/17 18:25	BLM
Perfluorodecanoic acid (PFDA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/28/17 18:25	BLM
NMeFOSAA	ND	2.0		ng/L	1		EPA 537	11/9/17	11/28/17 18:25	BLM
Perfluoroundecanoic acid (PFUnA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/28/17 18:25	BLM
NEtFOSAA	ND	2.0		ng/L	1		EPA 537	11/9/17	11/28/17 18:25	BLM
Perfluorododecanoic acid (PFDoA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/28/17 18:25	BLM
Perfluorotridecanoic acid (PFTTrDA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/28/17 18:25	BLM
Perfluorotetradecanoic acid (PFTA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/28/17 18:25	BLM

Surrogates	% Recovery	Recovery Limits	Flag/Qual
13C-PFHxA	85.7	70-130	11/28/17 18:25
13C-PFDA	82.8	70-130	11/28/17 18:25
d5-NEtFOSAA	81.4	70-130	11/28/17 18:25

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

Project Location: 77 Ridge Trail Rd., Westfield

Sample Description:

Work Order: 17K0458

Date Received: 11/8/2017

Field Sample #: 77 Ridge Trail Rd-2

Sampled: 11/7/2017 13:41

Sample ID: 17K0458-02

Sample Matrix: Drinking Water

Miscellaneous Organic Analyses

Analyte	Results	MCL/SMCL		Units	Dilution	Flag/Qual	Method	Date	Date/Time	Analyst
		RL	MA ORSG					Prepared	Analyzed	
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 20:12	BLM
Perfluorohexanoic acid (PFHxA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 20:12	BLM
Perfluoroheptanoic acid (PFHpA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 20:12	BLM
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 20:12	BLM
# Perfluorooctanoic acid (PFOA)	2.7	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 20:12	BLM
# Perfluorooctanesulfonic acid (PFOS)	2.5	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 20:12	BLM
Perfluorononanoic acid (PFNA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 20:12	BLM
Perfluorodecanoic acid (PFDA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 20:12	BLM
NMeFOSAA	ND	2.0		ng/L	1		EPA 537	11/9/17	11/19/17 20:12	BLM
Perfluoroundecanoic acid (PFUnA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 20:12	BLM
NEtFOSAA	ND	2.0		ng/L	1		EPA 537	11/9/17	11/19/17 20:12	BLM
Perfluorododecanoic acid (PFDoA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 20:12	BLM
Perfluorotridecanoic acid (PFTrDA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 20:12	BLM
Perfluorotetradecanoic acid (PFTA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 20:12	BLM
Surrogates		% Recovery		Recovery Limits		Flag/Qual				
13C-PFHxA		36.3 *		70-130		S-08				11/19/17 20:12
13C-PFDA		56.1 *		70-130		S-08				11/19/17 20:12
d5-NEtFOSAA		71.9		70-130						11/19/17 20:12



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Sample Extraction Data

Prep Method: EPA 537-EPA 537

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17K0458-01 [77 Ridge Trail Rd-field blank]	B190551	250	1.00	11/09/17
17K0458-02 [77 Ridge Trail Rd-2]	B190551	250	1.00	11/09/17

QUALITY CONTROL

Miscellaneous Organic Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B190551 - EPA 537										
Blank (B190551-BLK1)										
Prepared: 11/09/17 Analyzed: 11/19/17										
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	2.0	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	2.0	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	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							
Perfluorodecanoic acid (PFDA)	ND	2.0	ng/L							
NMeFOSAA	ND	2.0	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L							
NEtFOSAA	ND	2.0	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	2.0	ng/L							
Perfluorotridecanoic acid (PFTrDA)	ND	2.0	ng/L							
Perfluorotetradecanoic acid (PFTA)	ND	2.0	ng/L							
Surrogate: 13C-PFHxA	35.2		ng/L	40.0		87.9	70-130			
Surrogate: 13C-PFDA	36.8		ng/L	40.0		92.0	70-130			
Surrogate: d5-NEtFOSAA	143		ng/L	160		89.1	70-130			
LCS (B190551-BS1)										
Prepared: 11/09/17 Analyzed: 11/19/17										
Perfluorobutanesulfonic acid (PFBS)	10.2	2.0	ng/L	8.85		115	70-130			
Perfluorohexanoic acid (PFHxA)	9.49	2.0	ng/L	10.0		94.9	70-130			
Perfluoroheptanoic acid (PFHpA)	9.09	2.0	ng/L	10.0		90.9	70-130			
Perfluorohexanesulfonic acid (PFHxS)	10.7	2.0	ng/L	9.10		117	70-130			
Perfluorooctanoic acid (PFOA)	10.9	2.0	ng/L	10.0		109	70-130			
Perfluorooctanesulfonic acid (PFOS)	9.14	2.0	ng/L	9.25		98.8	70-130			
Perfluorononanoic acid (PFNA)	10.1	2.0	ng/L	10.0		101	70-130			
Perfluorodecanoic acid (PFDA)	11.3	2.0	ug/L	10.0		113	70-130			
NMeFOSAA	10.6	2.0	ng/L	10.0		106	70-130			
Perfluoroundecanoic acid (PFUnA)	10.6	2.0	ng/L	10.0		106	70-130			
NEtFOSAA	11.5	2.0	ng/L	10.0		115	70-130			
Perfluorododecanoic acid (PFDoA)	9.96	2.0	ng/L	10.0		99.6	70-130			
Perfluorotridecanoic acid (PFTrDA)	9.54	2.0	ng/L	10.0		95.4	70-130			
Perfluorotetradecanoic acid (PFTA)	10.5	2.0	ng/L	10.0		105	70-130			
Surrogate: 13C-PFHxA	37.9		ng/L	40.0		94.9	70-130			
Surrogate: 13C-PFDA	40.7		ng/L	40.0		102	70-130			
Surrogate: d5-NEtFOSAA	154		ng/L	160		96.1	70-130			



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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-08	Duplicate analysis confirmed surrogate failure due to matrix effects.
------	---

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>EPA 537 in Drinking Water</i>	
Perfluorobutanesulfonic acid (PFBS)	VT-DW,ME
Perfluorohexanoic acid (PFHxA)	VT-DW,ME
Perfluoroheptanoic acid (PFHpA)	VT-DW,ME
Perfluorohexanesulfonic acid (PFHxS)	VT-DW,ME
Perfluorooctanoic acid (PFOA)	NH,NY,VT-DW,ME
Perfluorooctanesulfonic acid (PFOS)	NH,NY,VT-DW,ME
Perfluorononanoic acid (PFNA)	VT-DW,ME
Perfluorodecanoic acid (PFDA)	VT-DW,ME
NMeFOSAA	VT-DW
Perfluoroundecanoic acid (PFUnA)	VT-DW,ME
NEtFOSAA	VT-DW
Perfluorododecanoic acid (PFDoA)	VT-DW,ME
Perfluorotridecanoic acid (PFTTrDA)	VT-DW,ME
Perfluorotetradecanoic acid (PFTA)	VT-DW,ME

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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 Public Health	PH-0567	09/30/2019
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	09/6/2018
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

39 Spruce Street
 East Longmeadow, MA 01028

http://www.con-testlabs.com
 CHAIN OF CUSTODY RECORD

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

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: Elizabeth O'Connor
Fax To #:

Con-Test Work Order #	Client Sample ID / Description	Assigned Date/Time	Analysis Date/Time	Compos. Type	Matrix Code	Cons. Code
01	77 Ridge Trail Rd - field blank	11/7/2017	13:26	X	DW	U
	77 Ridge Trail Rd - 1	11/7/2017	13:40	X	DW	U
	77 Ridge Trail Rd - 2	11/7/2017	13:41	X	DW	U

Comments:
 RUN EPA Method 537: 77 Ridge Trail Rd-1
 EXTRACT & HOLD EPA Method 537: 77 Ridge Trail Rd-field blank & 77 Ridge Trail 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) *S. O'Connor* Date/Time: 11/8/17 8:00
Received by: (signature) *Elizabeth O'Connor* Date/Time: 11/8/17 8:00
Relinquished by: (signature) _____ Date/Time: _____
Received by: (signature) _____ Date/Time: _____
Relinquished by: (signature) _____ Date/Time: _____

Detection Limit Requirements: MA MA MCP Required
 MCP Certification Form Required
Special Requirements: MA MCP Required
 CT RCP Required
 RCP Certification Form Required
 MA State DW Required
PWSID # _____

Project Entity:
 Government Municipality WRA WRTA
 Federal 21 J School Chromatogram
 City Brownfield MBTA AHA-LAP, LLC
 PCB ONLY Soxhlet Non Soxhlet



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



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 PLF Date 11/8/17 Time 800
 How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____
 Direct from Sampling _____ Ambient _____ Melted Ice _____
 Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 4.4, 5.4°C
 By Blank # _____ Actual Temp - _____
 Was Custody Seal Intact? NA Were Samples Tampered with? NA
 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? T
 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? NA MS/MSD? NA
 Proper Media/Containers Used? T Is splitting samples required? F
 Were trip blanks received? F On COC? NA
 Do all samples have the proper pH? Acid NA Base NA

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	

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

December 11, 2017

Douglas Sudnick
30 Hopkins Road
Westfield, MA 01085

RE: Notice of Environmental Sampling
30 Hopkins Road
Westfield Private Well Sampling

Dear Mr. Sudnick:

The Department of Environmental Protection (DEP) collected a drinking water sample from your private well on November 7, 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 14.2 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. Based on the concentrations of PFC compounds detected 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. However, additional sampling may be required in the future. The Department thanks you for granting access to your property.

This information is available in alternate format. Contact Michelle Waters-Ekanem, Director of Diversity/Civil Rights at 617-292-5751.

TTY# MassRelay Service 1-800-439-2370

MassDEP Website: www.mass.gov/dep

Printed on Recycled Paper

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

cc : 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



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

NOTICE OF ENVIRONMENTAL SAMPLING

1 - 20093

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: 175 Falcon Drive
City/Town: Westfield Zip Code: 01085

B. This notice is being provided to the following party:

1. Name: Douglas Sudnick
2. Street Address: 30 Hopkins Road
City/Town: Westfield Zip Code: 01085

C. This notice is being given to inform its recipient (the party listed in Section B):

- 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
- 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
- 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 30 Hopkins Road
City/Town: Westfield Zip Code: 01085

2. MCP phase of work during which the sampling will be/has been conducted:

- | | |
|---|--|
| <input checked="" type="checkbox"/> Immediate Response Action | <input type="checkbox"/> Phase III Feasibility Evaluation |
| <input type="checkbox"/> Release Abatement Measure | <input type="checkbox"/> Phase IV Remedy Implementation Plan |
| <input type="checkbox"/> Utility-related Abatement Measure | <input type="checkbox"/> Phase V/Remedy Operation Status |
| <input type="checkbox"/> Phase I Initial Site Investigation | <input type="checkbox"/> Post-Temporary Solution Operation, Maintenance and Monitoring |
| <input type="checkbox"/> Phase II Comprehensive Site Assessment | <input type="checkbox"/> Other _____
(specify) |

3. Description of property where sampling will be/has been conducted:

- residential commercial industrial school/playground Other _____
(specify)

4. Description of the sampling locations and types (e.g., soil, groundwater, indoor air, soil gas) to the extent known at the time of this notice.

Drinking water samples were collected from the private well located on the above-referenced property and analyzed for PHAS via EPA Method 537.1.1.

E. Contact information related to the party providing this notice:

Contact Name: MA Department of Environmental Protection
Street Address: 436 Dwight Street
City/Town: Springfield Zip Code: 01103
Telephone: (413) 784-1100 Email: david.bachand.jr@state.ma.us



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

NOTICE OF ENVIRONMENTAL SAMPLING

1 - 20093

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation of a release for which a notification to MassDEP has been made under the Massachusetts Contingency Plan (310 CMR 40.0300) on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/eea/agencies/massdep/cleanup>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://public.dep.state.ma.us/SearchableSites2/Search.aspx> to view site-specific files on-line or <http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html> if you would like to make an appointment to see these files in person. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.



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

November 22, 2017

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

Project Location: 30 Hopkins Rd., Westfield
Client Job Number:
Project Number: 183EM00170
Laboratory Work Order Number: 17K0444

Enclosed are results of analyses for samples received by the laboratory on November 8, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Kerry K. McGee". The signature is written in a cursive style with a large, prominent "K" at the beginning.

Kerry K. McGee
Project Manager

Table of Contents

Sample Summary	3
Case Narrative	4
Sample Results	5
17K0444-01	5
Sample Preparation Information	6
QC Data	7
Miscellaneous Organic Analyses	7
B190551	7
Flag/Qualifier Summary	8
Certifications	9
Chain of Custody/Sample Receipt	10



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: 11/22/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 183EM00170

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17K0444

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

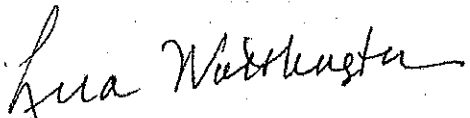
PROJECT LOCATION: 30 Hopkins Rd., Westfield

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
30 Hopkins Rd-1	17K0444-01	Drinking Water		EPA 537	

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.

A handwritten signature in black ink, appearing to read "Lisa Worthington", written in a cursive style.

Lisa A. Worthington
Project Manager



39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-8405 * TEL. 413/525-2332

Project Location: 30 Hopkins Rd., Westfield

Sample Description:

Work Order: 17K0444

Date Received: 11/8/2017

Field Sample #: 30 Hopkins Rd-1

Sampled: 11/7/2017 16:32

Sample ID: 17K0444-01

Sample Matrix: Drinking Water

Miscellaneous Organic Analyses

Analyte	Results	MCL/SMCL			Dilution	Flag/Qual	Method	Date	Date/Time	Analyst
		RL	MA	ORSG				Prepared	Analyzed	
# Perfluorobutanesulfonic acid (PFBS)	3.5	2.0	2	ng/L	1	EPA 537	11/9/17	11/19/17 19:09	BLM	
# Perfluorohexanoic acid (PFHxA)	6.9	2.0	2	ng/L	1	EPA 537	11/9/17	11/19/17 19:09	BLM	
# Perfluoroheptanoic acid (PFHpA)	2.4	2.0	2	ng/L	1	EPA 537	11/9/17	11/19/17 19:09	BLM	
# Perfluorohexanesulfonic acid (PFHxS)	18	2.0	2	ng/L	1	EPA 537	11/9/17	11/19/17 19:09	BLM	
# Perfluorooctanoic acid (PFOA)	7.4	2.0	2	ng/L	1	EPA 537	11/9/17	11/19/17 19:09	BLM	
# Perfluorooctanesulfonic acid (PFOS)	6.8	2.0	2	ng/L	1	EPA 537	11/9/17	11/19/17 19:09	BLM	
Perfluorononanoic acid (PFNA)	ND	2.0	2	ng/L	1	EPA 537	11/9/17	11/19/17 19:09	BLM	
Perfluorodecanoic acid (PFDA)	ND	2.0	2	ng/L	1	EPA 537	11/9/17	11/19/17 19:09	BLM	
NMeFOSAA	ND	2.0		ng/L	1	EPA 537	11/9/17	11/19/17 19:09	BLM	
Perfluoroundecanoic acid (PFUnA)	ND	2.0	2	ng/L	1	EPA 537	11/9/17	11/19/17 19:09	BLM	
NEtFOSAA	ND	2.0		ng/L	1	EPA 537	11/9/17	11/19/17 19:09	BLM	
Perfluorododecanoic acid (PFDoA)	ND	2.0	2	ng/L	1	EPA 537	11/9/17	11/19/17 19:09	BLM	
Perfluorotridecanoic acid (PFTriDA)	ND	2.0	2	ng/L	1	EPA 537	11/9/17	11/19/17 19:09	BLM	
Perfluorotetradecanoic acid (PFTA)	ND	2.0	2	ng/L	1	EPA 537	11/9/17	11/19/17 19:09	BLM	
Surrogates		% Recovery	Recovery Limits							
13C-PFHxA		120	70-130					11/19/17 19:09		
13C-PFDA		95.2	70-130					11/19/17 19:09		
d5-NEtFOSAA		71.6	70-130					11/19/17 19:09		

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
17K0444-01 [30 Hopkins Rd-1]	B190551	250	1.00	11/09/17



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 B190551 - EPA 537										
Blank (B190551-BLK1)										
Prepared: 11/09/17 Analyzed: 11/19/17										
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	2.0	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	2.0	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	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							
Perfluorodecanoic acid (PFDA)	ND	2.0	ng/L							
NMeFOSAA	ND	2.0	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L							
NEtFOSAA	ND	2.0	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	2.0	ng/L							
Perfluorotridecanoic acid (PFTTrDA)	ND	2.0	ng/L							
Perfluorotetradecanoic acid (PFTA)	ND	2.0	ng/L							
Surrogate: 13C-PFHxA	35.2		ng/L	40.0		87.9	70-130			
Surrogate: 13C-PFDA	36.8		ng/L	40.0		92.0	70-130			
Surrogate: d5-NEtFOSAA	143		ng/L	160		89.1	70-130			
LCS (B190551-BS1)										
Prepared: 11/09/17 Analyzed: 11/19/17										
Perfluorobutanesulfonic acid (PFBS)	10.2	2.0	ng/L	8.85		115	70-130			
Perfluorohexanoic acid (PFHxA)	9.49	2.0	ng/L	10.0		94.9	70-130			
Perfluoroheptanoic acid (PFHpA)	9.09	2.0	ng/L	10.0		90.9	70-130			
Perfluorohexanesulfonic acid (PFHxS)	10.7	2.0	ng/L	9.10		117	70-130			
Perfluorooctanoic acid (PFOA)	10.9	2.0	ng/L	10.0		109	70-130			
Perfluorooctanesulfonic acid (PFOS)	9.14	2.0	ng/L	9.25		98.8	70-130			
Perfluorononanoic acid (PFNA)	10.1	2.0	ng/L	10.0		101	70-130			
Perfluorodecanoic acid (PFDA)	11.3	2.0	ng/L	10.0		113	70-130			
NMeFOSAA	10.6	2.0	ng/L	10.0		106	70-130			
Perfluoroundecanoic acid (PFUnA)	10.6	2.0	ng/L	10.0		106	70-130			
NEtFOSAA	11.5	2.0	ng/L	10.0		115	70-130			
Perfluorododecanoic acid (PFDoA)	9.96	2.0	ng/L	10.0		99.6	70-130			
Perfluorotridecanoic acid (PFTTrDA)	9.54	2.0	ng/L	10.0		95.4	70-130			
Perfluorotetradecanoic acid (PFTA)	10.5	2.0	ng/L	10.0		105	70-130			
Surrogate: 13C-PFHxA	37.9		ng/L	40.0		94.9	70-130			
Surrogate: 13C-PFDA	40.7		ng/L	40.0		102	70-130			
Surrogate: d5-NEtFOSAA	154		ng/L	160		96.1	70-130			

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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.



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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>EPA 537 in Drinking Water</i>	
Perfluorobutanesulfonic acid (PFBS)	VT-DW,ME
Perfluorohexanoic acid (PFHxA)	VT-DW,ME
Perfluorohexanoic acid (PFHpA)	VT-DW,ME
Perfluorohexanesulfonic acid (PFHxS)	VT-DW,ME
Perfluorooctanoic acid (PFOA)	NH,NY,VT-DW,ME
Perfluorooctanesulfonic acid (PFOS)	NH,NY,VT-DW,ME
Perfluorononanoic acid (PFNA)	VT-DW,ME
Perfluorodecanoic acid (PFDA)	VT-DW,ME
NMeFOSAA	VT-DW
Perfluoroundecanoic acid (PFUnA)	VT-DW,ME
NEtFOSAA	VT-DW
Perfluorododecanoic acid (PFDoA)	VT-DW,ME
Perfluorotridecanoic acid (PFTeDA)	VT-DW,ME
Perfluorotetradecanoic acid (PFTA)	VT-DW,ME

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 Public Health	PH-0567	09/30/2019
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	09/6/2018
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

http://www.contestlabs.com
 CHAIN OF CUSTODY RECORD

Doc # 381 Rev 1_03242017
 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: 30 Hopkins Rd, Westfield
Project Location: 30 Hopkins Rd, Westfield
Project Number: 183EM00170
Project Manager: Rob Smith

Con-Test Quote Name/Number:
Invoice Recipient:
Sampled By: Elizabeth O'Connor

Con-Test Work Order #	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composited	Matrix Code	Grab Code	Conc Code
51	30 Hopkins Rd - field blank	11/17/2017	10:20	X	DW	U	
	30 Hopkins Rd - 1	11/17/2017	16:32	X	DW	U	X
	30 Hopkins Rd - 2	11/17/2017	16:33	X	DW	U	X

Comments:
 RUN EPA Method 537: 30 Hopkins Rd-1
 EXTRACT & HOLD EPA Method 537: 30 Hopkins Rd-field blank & 30 Hopkins 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) [Signature]
Received by: (signature) [Signature]
Relinquished by: (signature) [Signature]

Date/Time: 11/18/17 8:00
Date/Time: 11/18/17 8:00
Date/Time: 11/18/17 8:00

Detection Limit Requirements: MA
Special Requirements: MA MCP Required
Other: MA State DW Required

Project Entity:
 Government
 Federal
 City
 Municipality
 21 J
 Brownfield
 WRTA
 Chromatogram
 A/HA-LAP, LLC

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: _____
 Fax To #: _____

ANALYSIS REQUESTED

EPA METHOD 537
 TOTAL As, Fe, HARDNESS, TOC

# of Containers	1	2	3	4	5	6	7	8	9	10
Preservation Code	O	N	H							
Container Code	P	P	V							

Dissolved/Metals Samples
 Field Filtered
 Lab to Filter

Orthophosphate Samples
 Field Filtered
 Lab to Filter

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

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)

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

PCB ONLY
 Soxhlet
 Non Soxhlet



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 PLF Date 11/8/17 Time 800

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

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 4.4, 5.4°C
 By Blank # _____ Actual Temp - _____

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

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? F Is splitting samples required? F
 Were trip blanks received? F On COC? NA

Do all samples have the proper pH? Acid T Base NA

Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-	<u>2</u>	500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic	<u>3</u>	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:



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

November 30, 2017

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

Project Location: 30 Hopkins Rd., Westfield
Client Job Number:
Project Number: 183EM00170
Laboratory Work Order Number: 17K0459

Enclosed are results of analyses for samples received by the laboratory on November 8, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Kerry K. McGee". The signature is written in a cursive, flowing style.

Kerry K. McGee
Project Manager

Table of Contents

Sample Summary	3
Case Narrative	4
Sample Results	5
17K0459-01	5
17K0459-02	6
Sample Preparation Information	7
QC Data	8
Miscellaneous Organic Analyses	8
B190551	8
Flag/Qualifier Summary	9
Certifications	10
Chain of Custody/Sample Receipt	11



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

REPORT DATE: 11/30/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 183EM00170

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17K0459

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

PROJECT LOCATION: 30 Hopkins Rd., Westfield

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
30 Hopkins Rd-field blank	17K0459-01	Drinking Water		EPA 537	
30 Hopkins Rd-2	17K0459-02	Drinking Water		EPA 537	



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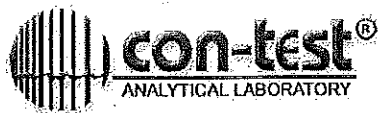
CASE NARRATIVE SUMMARY

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.

A handwritten signature in black ink, appearing to read "Lisa A. Worthington". The signature is fluid and cursive, written over a light gray grid background.

Lisa A. Worthington
Project Manager



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

Project Location: 30 Hopkins Rd., Westfield

Sample Description:

Work Order: 17K0459

Date Received: 11/8/2017

Field Sample #: 30 Hopkins Rd-field blank

Sampled: 11/7/2017 16:20

Sample ID: 17K0459-01

Sample Matrix: Drinking Water

Miscellaneous Organic Analyses

Analyte	Results	MCL/SMCL			Dilution	Flag/Qual	Method	Date	Date/Time	Analyst
		RL	MA	ORSG				Prepared	Analyzed	
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	2		ng/L	1	EPA 537	11/9/17	11/28/17 18:38	BLM
Perfluorohexanoic acid (PFHxA)	ND	2.0	2		ng/L	1	EPA 537	11/9/17	11/28/17 18:38	BLM
Perfluoroheptanoic acid (PFHpA)	ND	2.0	2		ng/L	1	EPA 537	11/9/17	11/28/17 18:38	BLM
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	2		ng/L	1	EPA 537	11/9/17	11/28/17 18:38	BLM
Perfluorooctanoic acid (PFOA)	ND	2.0	2		ng/L	1	EPA 537	11/9/17	11/28/17 18:38	BLM
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	2		ng/L	1	EPA 537	11/9/17	11/28/17 18:38	BLM
Perfluorononanoic acid (PFNA)	ND	2.0	2		ng/L	1	EPA 537	11/9/17	11/28/17 18:38	BLM
Perfluorodecanoic acid (PFDA)	ND	2.0	2		ng/L	1	EPA 537	11/9/17	11/28/17 18:38	BLM
NMeFOSAA	ND	2.0			ng/L	1	EPA 537	11/9/17	11/28/17 18:38	BLM
Perfluoroundecanoic acid (PFUnA)	ND	2.0	2		ng/L	1	EPA 537	11/9/17	11/28/17 18:38	BLM
NEtFOSAA	ND	2.0			ng/L	1	EPA 537	11/9/17	11/28/17 18:38	BLM
Perfluorododecanoic acid (PFDoA)	ND	2.0	2		ng/L	1	EPA 537	11/9/17	11/28/17 18:38	BLM
Perfluorotridecanoic acid (PFTTrDA)	ND	2.0	2		ng/L	1	EPA 537	11/9/17	11/28/17 18:38	BLM
Perfluorotetradecanoic acid (PFTA)	ND	2.0	2		ng/L	1	EPA 537	11/9/17	11/28/17 18:38	BLM
Surrogates		% Recovery			Recovery Limits					
I3C-PFHxA		76.9			70-130				11/28/17 18:38	
I3C-PFDA		71.6			70-130				11/28/17 18:38	
d5-NEtFOSAA		70.4			70-130				11/28/17 18:38	

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Project Location: 30 Hopkins Rd., Westfield

Sample Description:

Work Order: 17K0459

Date Received: 11/8/2017

Field Sample #: 30 Hopkins Rd-2

Sampled: 11/7/2017 16:33

Sample ID: 17K0459-02

Sample Matrix: Drinking Water

Miscellaneous Organic Analyses

Analyte	Results	MCL/SMCL		Units	Dilution	Flag/Qual	Method	Date	Date/Time	Analyst
		RL	MA ORSG					Prepared	Analyzed	
# Perfluorobutanesulfonic acid (PFBS)	2.9	2.0	2	ng/L	1		EPA 537	11/9/17	11/28/17 18:50	BLM
# Perfluorohexanoic acid (PFHxA)	5.0	2.0	2	ng/L	1		EPA 537	11/9/17	11/28/17 18:50	BLM
Perfluoroheptanoic acid (PFHpA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/28/17 18:50	BLM
# Perfluorohexanesulfonic acid (PFHxS)	15	2.0	2	ng/L	1		EPA 537	11/9/17	11/28/17 18:50	BLM
# Perfluorooctanoic acid (PFOA)	5.4	2.0	2	ng/L	1		EPA 537	11/9/17	11/28/17 18:50	BLM
# Perfluorooctanesulfonic acid (PFOS)	5.1	2.0	2	ng/L	1		EPA 537	11/9/17	11/28/17 18:50	BLM
Perfluorononanoic acid (PFNA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/28/17 18:50	BLM
Perfluorodecanoic acid (PFDA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/28/17 18:50	BLM
NMeFOSAA	ND	2.0		ng/L	1		EPA 537	11/9/17	11/28/17 18:50	BLM
Perfluoroundecanoic acid (PFUnA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/28/17 18:50	BLM
NEtFOSAA	ND	2.0		ng/L	1		EPA 537	11/9/17	11/28/17 18:50	BLM
Perfluorododecanoic acid (PFDoA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/28/17 18:50	BLM
Perfluorotridecanoic acid (PFTriDA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/28/17 18:50	BLM
Perfluorotetradecanoic acid (PFTA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/28/17 18:50	BLM
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
13C-PFHxA	78.0		70-130				11/28/17 18:50			
13C-PFDA	70.3		70-130				11/28/17 18:50			
d5-NEtFOSAA	70.2		70-130				11/28/17 18:50			



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Sample Extraction Data

Prep Method: EPA 537-EPA 537

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17K0459-01 [30 Hopkins Rd-field blank]	B190551	250	1.00	11/09/17
17K0459-02 [30 Hopkins Rd-2]	B190551	250	1.00	11/09/17

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QUALITY CONTROL

Miscellaneous Organic Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B190551 - EPA 537										
Blank (B190551-BLKI)										
Prepared: 11/09/17 Analyzed: 11/19/17										
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	2.0	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	2.0	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	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							
Perfluorodecanoic acid (PFDA)	ND	2.0	ng/L							
NMeFOSAA	ND	2.0	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L							
NEtFOSAA	ND	2.0	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	2.0	ng/L							
Perfluorotridecanoic acid (PFTrDA)	ND	2.0	ng/L							
Perfluorotetradecanoic acid (PFTA)	ND	2.0	ng/L							
Surrogate: 13C-PFHxA	35.2		ng/L	40.0		87.9	70-130			
Surrogate: 13C-PFDA	36.8		ng/L	40.0		92.0	70-130			
Surrogate: d5-NEtFOSAA	143		ng/L	160		89.1	70-130			
LCS (B190551-BS1)										
Prepared: 11/09/17 Analyzed: 11/19/17										
Perfluorobutanesulfonic acid (PFBS)	10.2	2.0	ng/L	8.85		115	70-130			
Perfluorohexanoic acid (PFHxA)	9.49	2.0	ng/L	10.0		94.9	70-130			
Perfluoroheptanoic acid (PFHpA)	9.09	2.0	ng/L	10.0		90.9	70-130			
Perfluorohexanesulfonic acid (PFHxS)	10.7	2.0	ng/L	9.10		117	70-130			
Perfluorooctanoic acid (PFOA)	10.9	2.0	ng/L	10.0		109	70-130			
Perfluorooctanesulfonic acid (PFOS)	9.14	2.0	ng/L	9.25		98.8	70-130			
Perfluorononanoic acid (PFNA)	10.1	2.0	ng/L	10.0		101	70-130			
Perfluorodecanoic acid (PFDA)	11.3	2.0	ng/L	10.0		113	70-130			
NMeFOSAA	10.6	2.0	ng/L	10.0		106	70-130			
Perfluoroundecanoic acid (PFUnA)	10.6	2.0	ng/L	10.0		106	70-130			
NEtFOSAA	11.5	2.0	ng/L	10.0		115	70-130			
Perfluorododecanoic acid (PFDoA)	9.96	2.0	ng/L	10.0		99.6	70-130			
Perfluorotridecanoic acid (PFTrDA)	9.54	2.0	ng/L	10.0		95.4	70-130			
Perfluorotetradecanoic acid (PFTA)	10.5	2.0	ng/L	10.0		105	70-130			
Surrogate: 13C-PFHxA	37.9		ng/L	40.0		94.9	70-130			
Surrogate: 13C-PFDA	40.7		ng/L	40.0		102	70-130			
Surrogate: d5-NEtFOSAA	154		ng/L	160		96.1	70-130			



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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.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>EPA 537 in Drinking Water</i>	
Perfluorobutanesulfonic acid (PFBS)	VT-DW,ME
Perfluorohexanoic acid (PFHxA)	VT-DW,ME
Perfluoroheptanoic acid (PFHpA)	VT-DW,ME
Perfluorohexanesulfonic acid (PFHxS)	VT-DW,ME
Perfluorooctanoic acid (PFOA)	NH,NY,VT-DW,ME
Perfluorooctanesulfonic acid (PFOS)	NH,NY,VT-DW,ME
Perfluorononanoic acid (PFNA)	VT-DW,ME
Perfluorodecanoic acid (PFDA)	VT-DW,ME
NMeFOSAA	VT-DW
Perfluoroundecanoic acid (PFUnA)	VT-DW,ME
NEtFOSAA	VT-DW
Perfluorododecanoic acid (PFDoA)	VT-DW,ME
Perfluorotridecanoic acid (PFTTrDA)	VT-DW,ME
Perfluorotetradecanoic acid (PFTA)	VT-DW,ME

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	I00033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
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	09/6/2018
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

http://www.con-testlabs.com
 CHAIN OF CUSTODY RECORD

Doc # 381 Rev 1_03242017

39 Spruce Street
 East Longmeadow, MA 01028

Page 1 of 1



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

Company Name: ATC Group Services
 Address: 73 William Franks Drive, West Springfield, MA
 Phone: (413) 781-0070

Project Name: 30 Hopkins Rd, Westfield
 Project Location: 30 Hopkins Rd, Westfield
 Project Number: 183EM00170
 Project Manager: Rob Smith

Con-Test Quote Name/Number:

Invoice Recipient:

Sampled By: Elizabeth O'Connor

Requested Turnaround Time
 7-Day 10-Day
 Due Date: 3-da. 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:
 Fax To #:

Con-Test Work Order #	Client Sample ID	Sample Date/Time	Collection Date/Time	Compos	Stabil	Matrix Code
01	30 Hopkins Rd - field blank	11/17/2017	10:20	X	DW	U
02	30 Hopkins Rd - 1	11/17/2017	16:32	X	DW	U
	30 Hopkins Rd - 2	11/17/2017	16:33	X	DW	U

Comments:
 RUN EPA Method 537: 30 Hopkins Rd-1
 EXTRACT & HOLD EPA Method 537: 30 Hopkins Rd-field blank & 30 Hopkins 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

# of Containers	Preservation Code	Container Code
5	O	P
1	N	H
2	P	V

ANALYSIS REQUESTED

TOTAL As, Fe, HARDNESS, TOC

EPA METHOD 537

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

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)

FRIZWA

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

Relinquished by: (signature) *[Signature]* Date/Time: 11/17 8:00

Received by: (signature) *[Signature]* Date/Time: 11/17 8:00

Relinquished by: (signature) *[Signature]* Date/Time: 11/17 8:00

Received by: (signature) *[Signature]* Date/Time: 11/17 8:00

Relinquished by: (signature) *[Signature]* Date/Time: 11/17 8:00

Received by: (signature) *[Signature]* Date/Time: 11/17 8:00

Relinquished by: (signature) *[Signature]* Date/Time: 11/17 8:00

Received by: (signature) *[Signature]* Date/Time: 11/17 8:00

Detection Limit Requirements

MA MCP Required

MCP Certification Form Required

CT RCP Required

RCP Certification Form Required

MA State DW Required

Other: PWSID #

Special Requirements

MA MCP Required

MCP Certification Form Required

CT RCP Required

RCP Certification Form Required

MA State DW Required

Other: PWSID #

Project Entity

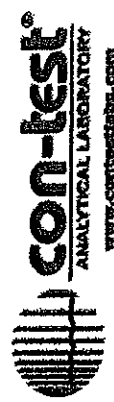
Government Municipality WRTA Other

Federal 21 J School

City Brownfield MBTA

MWRA Chromatogram

Non Soxhlet AIHA-LAP, LLC



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 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 PLF Date 11/8/17 Time 800

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

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 4.4, 5.4 °C
 By Blank # _____ Actual Temp - _____

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

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

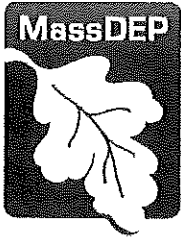
Is there Headspace where applicable? NA MS/MSD? NA
 Proper Media/Containers Used? T Is splitting samples required? F
 Were trip blanks received? F On COC? NA
 Do all samples have the proper pH? Acid NA Base NA

Containers				
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	

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

December 11, 2017

Anthony and Selina Fedora
287 Buck Pond Road
Westfield, MA 01085

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

Dear Mr. & Mrs. Fedora:

The Department of Environmental Protection (DEP) collected a drinking water sample from your private well on November 7, 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 that PFOA and PFOS compounds were not detected in the drinking water sample above the laboratory reporting limit of 2 ppt. Based on this data, no further action, including additional sampling and/or mitigation measures (i.e. bottled water) are required at this time. However, additional sampling may be required in the future. The Department thanks you for granting access to your property.

This information is available in alternate format. Contact Michelle Waters-Ekanem, Director of Diversity/Civil Rights at 617-292-5751.

TTY# MassRelay Service 1-800-439-2370

MassDEP Website: www.mass.gov/dep

Printed on Recycled Paper

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

cc : 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



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

1 - 20093

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: 175 Falcon Drive
City/Town: Westfield Zip Code: 01085

B. This notice is being provided to the following party:

1. Name: Anthony & Selina Fedora
2. Street Address: 287 Buck Pond Road
City/Town: Westfield Zip Code: 01085

C. This notice is being given to inform its recipient (the party listed in Section B):

- 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
- 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
- 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 287 Buck Pond Road
City/Town: Westfield Zip Code: 01085

2. MCP phase of work during which the sampling will be/has been conducted:

- | | |
|---|--|
| <input checked="" type="checkbox"/> Immediate Response Action | <input type="checkbox"/> Phase III Feasibility Evaluation |
| <input type="checkbox"/> Release Abatement Measure | <input type="checkbox"/> Phase IV Remedy Implementation Plan |
| <input type="checkbox"/> Utility-related Abatement Measure | <input type="checkbox"/> Phase V/Remedy Operation Status |
| <input type="checkbox"/> Phase I Initial Site Investigation | <input type="checkbox"/> Post-Temporary Solution Operation, Maintenance and Monitoring |
| <input type="checkbox"/> Phase II Comprehensive Site Assessment | <input type="checkbox"/> Other _____ |
- (specify)

3. Description of property where sampling will be/has been conducted:

- residential commercial industrial school/playground Other _____
- (specify)

4. Description of the sampling locations and types (e.g., soil, groundwater, indoor air, soil gas) to the extent known at the time of this notice.

Drinking water samples were collected from the private well located on the above-referenced property and analyzed for PHAS via EPA Method 537.1.1.

E. Contact information related to the party providing this notice:

Contact Name: MA Department of Environmental Protection
Street Address: 436 Dwight Street
City/Town: Springfield Zip Code: 01103
Telephone: (413) 784-1100 Email: david.bachand.jr@state.ma.us



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

NOTICE OF ENVIRONMENTAL SAMPLING

1 - 20093

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation of a release for which a notification to MassDEP has been made under the Massachusetts Contingency Plan (310 CMR 40.0300) on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/eea/agencies/massdep/cleanup>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://public.dep.state.ma.us/SearchableSites2/Search.aspx> to view site-specific files on-line or <http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html> if you would like to make an appointment to see these files in person. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.



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

November 29, 2017

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

Project Location: 287 Buck Pond Rd., Westfield
Client Job Number:
Project Number: 183EM00170
Laboratory Work Order Number: 17K0485

Enclosed are results of analyses for samples received by the laboratory on November 8, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Kerry K. McGee". The signature is written in a cursive style with a large initial 'K'.

Kerry K. McGee
Project Manager

Table of Contents

Sample Summary	3
Case Narrative	4
Sample Results	5
17K0485-01	5
Sample Preparation Information	6
QC Data	7
Miscellaneous Organic Analyses	7
B190551	7
B191687	7
Flag/Qualifier Summary	9
Certifications	10
Chain of Custody/Sample Receipt	11



39 Spruce Street * East Longmeadow, MA 01026 * 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: 11/29/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 183EM00170

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17K0485

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

PROJECT LOCATION: 287 Buck Pond Rd., Westfield

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
287 Buck Pond-1	17K0485-01	Drinking Water		EPA 537	

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-26

Surrogate outside of control limits.

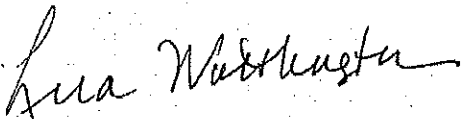
Analyte & Samples(s) Qualified:

d5-NEtFOSAA

17K0485-01[287 Buck Pond-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.



Lisa A. Worthington
Project Manager

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

Project Location: 287 Buck Pond Rd., Westfield

Sample Description:

Work Order: 17K0485

Date Received: 11/8/2017

Field Sample #: 287 Buck Pond-1

Sampled: 11/8/2017 14:43

Sample ID: 17K0485-01

Sample Matrix: Drinking Water

Miscellaneous Organic Analyses

Analyte	Results	MCL/SMCL		Units	Dilution	Flag/Qual	Method	Date	Date/Time	Analyst
		RL	MA ORSG					Prepared	Analyzed	
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 19:22	BLM
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	2	ng/L	1		EPA 537	11/22/17	11/28/17 20:32	BLM
Perfluorohexanoic acid (PFHxA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 19:22	BLM
Perfluorohexanoic acid (PFHxA)	ND	2.0	2	ng/L	1		EPA 537	11/22/17	11/28/17 20:32	BLM
Perfluoroheptanoic acid (PFHpA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 19:22	BLM
Perfluoroheptanoic acid (PFHpA)	ND	2.0	2	ng/L	1		EPA 537	11/22/17	11/28/17 20:32	BLM
# Perfluorohexanesulfonic acid (PFHxS)	2.8	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 19:22	BLM
# Perfluorohexanesulfonic acid (PFHxS)	2.8	2.0	2	ng/L	1		EPA 537	11/22/17	11/28/17 20:32	BLM
Perfluorooctanoic acid (PFOA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 19:22	BLM
Perfluorooctanoic acid (PFOA)	ND	2.0	2	ng/L	1		EPA 537	11/22/17	11/28/17 20:32	BLM
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 19:22	BLM
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	2	ng/L	1		EPA 537	11/22/17	11/28/17 20:32	BLM
Perfluorononanoic acid (PFNA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 19:22	BLM
Perfluorononanoic acid (PFNA)	ND	2.0	2	ng/L	1		EPA 537	11/22/17	11/28/17 20:32	BLM
Perfluorodecanoic acid (PFDA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 19:22	BLM
Perfluorodecanoic acid (PFDA)	ND	2.0	2	ng/L	1		EPA 537	11/22/17	11/28/17 20:32	BLM
NMeFOSAA	ND	2.0		ng/L	1		EPA 537	11/9/17	11/19/17 19:22	BLM
NMeFOSAA	ND	2.0		ng/L	1		EPA 537	11/22/17	11/28/17 20:32	BLM
Perfluoroundecanoic acid (PFUnA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 19:22	BLM
Perfluoroundecanoic acid (PFUnA)	ND	2.0	2	ng/L	1		EPA 537	11/22/17	11/28/17 20:32	BLM
NEtFOSAA	ND	2.0		ng/L	1		EPA 537	11/9/17	11/19/17 19:22	BLM
NEtFOSAA	ND	2.0		ng/L	1		EPA 537	11/22/17	11/28/17 20:32	BLM
Perfluorododecanoic acid (PFDoA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 19:22	BLM
Perfluorododecanoic acid (PFDoA)	ND	2.0	2	ng/L	1		EPA 537	11/22/17	11/28/17 20:32	BLM
Perfluorotridecanoic acid (PFTTrDA)	ND	2.0	2	ng/L	1		EPA 537	11/22/17	11/28/17 20:32	BLM
Perfluorotridecanoic acid (PFTTrDA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 19:22	BLM
Perfluorotetradecanoic acid (PFTA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 19:22	BLM
Perfluorotetradecanoic acid (PFTA)	ND	2.0	2	ng/L	1		EPA 537	11/22/17	11/28/17 20:32	BLM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	Date/Time
13C-PFHxA	118	70-130		11/19/17 19:22
13C-PFHxA	99.1	70-130		11/28/17 20:32
13C-PFDA	95.7	70-130		11/19/17 19:22
13C-PFDA	88.6	70-130		11/28/17 20:32
d5-NEtFOSAA	59.6 *	70-130	S-26	11/19/17 19:22
d5-NEtFOSAA	87.6	70-130		11/28/17 20:32

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
17K0485-01 [287 Buck Pond-1]	B190551	250	1.00	11/09/17

Prep Method: EPA 537-EPA 537

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17K0485-01REI [287 Buck Pond-1]	B191687	250	1.00	11/22/17

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 B190551 - EPA 537										
Blank (B190551-BLK1) Prepared: 11/09/17 Analyzed: 11/19/17										
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	2.0	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	2.0	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	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							
Perfluorodecanoic acid (PFDA)	ND	2.0	ng/L							
NMeFOSAA	ND	2.0	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L							
NEtFOSAA	ND	2.0	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	2.0	ng/L							
Perfluorotridecanoic acid (PFTrDA)	ND	2.0	ng/L							
Perfluorotetradecanoic acid (PFTA)	ND	2.0	ng/L							
Surrogate: 13C-PFHxA	35.2		ng/L	40.0		87.9	70-130			
Surrogate: 13C-PFDA	36.8		ng/L	40.0		92.0	70-130			
Surrogate: d5-NEtFOSAA	143		ng/L	160		89.1	70-130			
LCS (B190551-BS1) Prepared: 11/09/17 Analyzed: 11/19/17										
Perfluorobutanesulfonic acid (PFBS)	10.2	2.0	ng/L	8.85		115	70-130			
Perfluorohexanoic acid (PFHxA)	9.49	2.0	ng/L	10.0		94.9	70-130			
Perfluoroheptanoic acid (PFHpA)	9.09	2.0	ng/L	10.0		90.9	70-130			
Perfluorohexanesulfonic acid (PFHxS)	10.7	2.0	ng/L	9.10		117	70-130			
Perfluorooctanoic acid (PFOA)	10.9	2.0	ng/L	10.0		109	70-130			
Perfluorooctanesulfonic acid (PFOS)	9.14	2.0	ng/L	9.25		98.8	70-130			
Perfluorononanoic acid (PFNA)	10.1	2.0	ng/L	10.0		101	70-130			
Perfluorodecanoic acid (PFDA)	11.3	2.0	ng/L	10.0		113	70-130			
NMeFOSAA	10.6	2.0	ng/L	10.0		106	70-130			
Perfluoroundecanoic acid (PFUnA)	10.6	2.0	ng/L	10.0		106	70-130			
NEtFOSAA	11.5	2.0	ng/L	10.0		115	70-130			
Perfluorododecanoic acid (PFDoA)	9.96	2.0	ng/L	10.0		99.6	70-130			
Perfluorotridecanoic acid (PFTrDA)	9.54	2.0	ng/L	10.0		95.4	70-130			
Perfluorotetradecanoic acid (PFTA)	10.5	2.0	ng/L	10.0		105	70-130			
Surrogate: 13C-PFHxA	37.9		ng/L	40.0		94.9	70-130			
Surrogate: 13C-PFDA	40.7		ng/L	40.0		102	70-130			
Surrogate: d5-NEtFOSAA	154		ng/L	160		96.1	70-130			
Batch B191687 - EPA 537										
Blank (B191687-BLK1) Prepared: 11/22/17 Analyzed: 11/28/17										
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	2.0	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	2.0	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	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							
Perfluorodecanoic acid (PFDA)	ND	2.0	ng/L							
NMeFOSAA	ND	2.0	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L							
NEtFOSAA	ND	2.0	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	2.0	ng/L							
Perfluorotridecanoic acid (PFTrDA)	ND	2.0	ng/L							

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 B191687 - EPA 537										
Blank (B191687-BLK1)										
Prepared: 11/22/17 Analyzed: 11/28/17										
Perfluorotetradecanoic acid (PFTA)	ND	2.0	ng/L							
Surrogate: 13C-PFHxA	36.9		ng/L	40.0		92.3	70-130			
Surrogate: 13C-PFDA	36.7		ng/L	40.0		91.7	70-130			
Surrogate: d5-NEtFOSAA	155		ng/L	160		97.1	70-130			
LCS (B191687-BS1)										
Prepared: 11/22/17 Analyzed: 11/28/17										
Perfluorobutanesulfonic acid (PFBS)	2.34	2.0	ng/L	1.77		132	50-150			
Perfluorohexanoic acid (PFHxA)	2.11	2.0	ng/L	2.00		105	50-150			
Perfluoroheptanoic acid (PFHpA)	1.95	2.0	ng/L	2.00		97.7	50-150			
Perfluorohexanesulfonic acid (PFHxS)	2.56	2.0	ng/L	1.82		141	50-150			
Perfluorooctanoic acid (PFOA)	2.64	2.0	ng/L	2.00		132	50-150			
Perfluorooctanesulfonic acid (PFOS)	2.20	2.0	ng/L	1.85		119	50-150			
Perfluorononanoic acid (PFNA)	2.26	2.0	ng/L	2.00		113	50-150			
Perfluorodecanoic acid (PFDA)	2.09	2.0	ng/L	2.00		105	50-150			
NMeFOSAA	2.07	2.0	ng/L	2.00		103	50-150			
Perfluoroundecanoic acid (PFUnA)	2.26	2.0	ng/L	2.00		113	50-150			
NEtFOSAA	2.25	2.0	ng/L	2.00		113	50-150			
Perfluorododecanoic acid (PFDoA)	2.05	2.0	ng/L	2.00		102	50-150			
Perfluorotridecanoic acid (PFTrDA)	1.98	2.0	ng/L	2.00		99.0	50-150			
Perfluorotetradecanoic acid (PFTA)	1.96	2.0	ng/L	2.00		98.0	50-150			
Surrogate: 13C-PFHxA	38.3		ng/L	40.0		95.7	70-130			
Surrogate: 13C-PFDA	34.6		ng/L	40.0		86.6	70-130			
Surrogate: d5-NEtFOSAA	136		ng/L	160		85.1	70-130			



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-26	Surrogate outside of control limits.
------	--------------------------------------

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>EPA 537 in Drinking Water</i>	
Perfluorobutanesulfonic acid (PFBS)	VT-DW,ME
Perfluorohexanoic acid (PFHxA)	VT-DW,ME
Perfluoroheptanoic acid (PFHpA)	VT-DW,ME
Perfluorohexanesulfonic acid (PFHxS)	VT-DW,ME
Perfluorooctanoic acid (PFOA)	NH,NY,VT-DW,ME
Perfluorooctanesulfonic acid (PFOS)	NH,NY,VT-DW,ME
Perfluorononanoic acid (PFNA)	VT-DW,ME
Perfluorodecanoic acid (PFDA)	VT-DW,ME
NMeFOSAA	VT-DW
Perfluoroundecanoic acid (PFUnA)	VT-DW,ME
NEtFOSAA	VT-DW
Perfluorododecanoic acid (PFDoA)	VT-DW,ME
Perfluorotridecanoic acid (PFTTrDA)	VT-DW,ME
Perfluorotetradecanoic acid (PFTA)	VT-DW,ME

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 Public Health	PH-0567	09/30/2019
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	09/6/2018
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

17604855
<http://www.contestlabs.com>
 CHAIN OF CUSTODY RECORD
 Phone: 413-525-2332
 Fax: 413-525-6405
 Email: info@contestlabs.com

Company Name: ATC Group Services
Address: 73 William Franks Drive, West Springfield, MA
Phone: (413) 781-0070
Project Name: 287 Buck Pond Rd, Westfield
Project Location: 287 Buck Pond Rd, Westfield
Project Number: 183EM00170
Project Manager: Rob Smith
Con-Test Quote Name/Number:
Invoice Recipient:
Sampled By: Elizabeth O'Connor

Con-Test Work Order #	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
	287 Buck Pond Rd - field blank	11/8/17	14:30		X	DW	U
	287 Buck Pond Rd - 1	11/8/17	14:43		X	DW	U
	287 Buck Pond Rd - 2	11/8/17	14:44		X	DW	U

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:
 Fax To #:

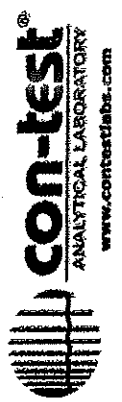
Comments:
 RUN EPA Method 537: 287 Buck Pond Rd-1
 EXTRACT & HOLD EPA Method 537: 287 Buck Pond Rd-field blank & 287 Buck Pond Rd-2
 HOLD As, Fe, Hardness, TOC

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:** 11/8/17 16:10
Received by: (signature) **Date/Time:** 11/8/17 16:10
Relinquished by: (signature) **Date/Time:** 11/8/17 16:10
Received by: (signature) **Date/Time:** 11/8/17 16:10

Project Entity:
 Government Municipality WRTA Other
 Federal 21 J School Chromatogram
 City Brownfield MBTA AIHA-LAP, LLC

PCB ONLY:
 Soxhlet
 Non Soxhlet



39 Spruce St.
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 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 PLF Date 11/8/17 Time 1610

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

Were samples within Temperature? 2-6°C F By Gun # 1 Actual Temp - 14.8°C
 By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? LA Were Samples Tampered with? LA
 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? T
 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? LA
 Proper Media/Containers Used? T Is splitting samples required? F
 Were trip blanks received? F On COC? LA
 Do all samples have the proper pH? Acid T Base LA

Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-	<u>2</u>	500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic	<u>3</u>	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:



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

November 29, 2017

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

Project Location: 287 Buck Pond Rd., Westfield
Client Job Number:
Project Number: 183EM00170
Laboratory Work Order Number: 17K0487.

Enclosed are results of analyses for samples received by the laboratory on November 8, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Kerry K. McGee". The signature is written in a cursive, flowing style.

Kerry K. McGee
Project Manager

Table of Contents

Sample Summary	3
Case Narrative	4
Sample Results	5
17K0487-01	5
17K0487-02	6
Sample Preparation Information	7
QC Data	8
Miscellaneous Organic Analyses	8
B190938	8
Flag/Qualifier Summary	9
Certifications	10
Chain of Custody/Sample Receipt	11



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: 11/29/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 183EM00170

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17K0487

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

PROJECT LOCATION: 287 Buck Pond Rd., Westfield

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
287 Buck Pond-field blank	17K0487-01	Drinking Water		EPA 537	
287 Buck Pond-2	17K0487-02	Drinking Water		EPA 537	

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.



Lisa A. Worthington
Project Manager



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

Project Location: 287 Buck Pond Rd., Westfield

Sample Description:

Work Order: 17K0487

Date Received: 11/8/2017

Field Sample #: 287 Buck Pond-field blank

Sampled: 11/8/2017 14:30

Sample ID: 17K0487-01

Sample Matrix: Drinking Water

Miscellaneous Organic Analyses

Analyte	Results	MCL/SMCL		Units	Dilution	Flag/Qual	Method	Date	Date/Time	Analyst
		RL	MA ORSG					Prepared	Analyzed	
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	2	ng/L	1		EPA 537	11/17/17	11/28/17 16:30	BLM
Perfluorohexanoic acid (PFHxA)	ND	2.0	2	ng/L	1		EPA 537	11/17/17	11/28/17 16:30	BLM
Perfluoroheptanoic acid (PFHpA)	ND	2.0	2	ng/L	1		EPA 537	11/17/17	11/28/17 16:30	BLM
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	2	ng/L	1		EPA 537	11/17/17	11/28/17 16:30	BLM
Perfluorooctanoic acid (PFOA)	ND	2.0	2	ng/L	1		EPA 537	11/17/17	11/28/17 16:30	BLM
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	2	ng/L	1		EPA 537	11/17/17	11/28/17 16:30	BLM
Perfluorononanoic acid (PFNA)	ND	2.0	2	ng/L	1		EPA 537	11/17/17	11/28/17 16:30	BLM
Perfluorodecanoic acid (PFDA)	ND	2.0	2	ng/L	1		EPA 537	11/17/17	11/28/17 16:30	BLM
NMeFOSAA	ND	2.0		ng/L	1		EPA 537	11/17/17	11/28/17 16:30	BLM
Perfluoroundecanoic acid (PFUnA)	ND	2.0	2	ng/L	1		EPA 537	11/17/17	11/28/17 16:30	BLM
NEtFOSAA	ND	2.0		ng/L	1		EPA 537	11/17/17	11/28/17 16:30	BLM
Perfluorododecanoic acid (PFDoA)	ND	2.0	2	ng/L	1		EPA 537	11/17/17	11/28/17 16:30	BLM
Perfluorotridecanoic acid (PFTriDA)	ND	2.0	2	ng/L	1		EPA 537	11/17/17	11/28/17 16:30	BLM
Perfluorotetradecanoic acid (PFTA)	ND	2.0	2	ng/L	1		EPA 537	11/17/17	11/28/17 16:30	BLM
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
13C-PFHxA		84.3	70-130						11/28/17 16:30	
13C-PFDA		76.1	70-130						11/28/17 16:30	
d5-NEtFOSAA		70.5	70-130						11/28/17 16:30	

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Project Location: 287 Buck Pond Rd., Westfield

Sample Description:

Work Order: 17K0487

Date Received: 11/8/2017

Field Sample #: 287 Buck Pond-2

Sampled: 11/8/2017 14:44

Sample ID: 17K0487-02

Sample Matrix: Drinking Water

Miscellaneous Organic Analyses

Analyte	Results	MCL/SMCL		Units	Dilution	Flag/Qual	Method	Date	Date/Time	Analyst
		RL	MA ORSG					Prepared	Analyzed	
# Perfluorobutanesulfonic acid (PFBS)	2.2	2.0	2	ng/L	1		EPA 537	11/17/17	11/28/17 16:43	BLM
Perfluorohexanoic acid (PFHxA)	ND	2.0	2	ng/L	1		EPA 537	11/17/17	11/28/17 16:43	BLM
Perfluoroheptanoic acid (PFHpA)	ND	2.0	2	ng/L	1		EPA 537	11/17/17	11/28/17 16:43	BLM
# Perfluorohexanesulfonic acid (PFHxS)	2.2	2.0	2	ng/L	1		EPA 537	11/17/17	11/28/17 16:43	BLM
# Perfluorooctanoic acid (PFOA)	2.0	2.0	2	ng/L	1		EPA 537	11/17/17	11/28/17 16:43	BLM
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	2	ng/L	1		EPA 537	11/17/17	11/28/17 16:43	BLM
Perfluorononanoic acid (PFNA)	ND	2.0	2	ng/L	1		EPA 537	11/17/17	11/28/17 16:43	BLM
Perfluorodecanoic acid (PFDA)	ND	2.0	2	ng/L	1		EPA 537	11/17/17	11/28/17 16:43	BLM
NMeFOSAA	ND	2.0		ng/L	1		EPA 537	11/17/17	11/28/17 16:43	BLM
Perfluoroundecanoic acid (PFUnA)	ND	2.0	2	ng/L	1		EPA 537	11/17/17	11/28/17 16:43	BLM
NEtFOSAA	ND	2.0		ng/L	1		EPA 537	11/17/17	11/28/17 16:43	BLM
Perfluorododecanoic acid (PFDoA)	ND	2.0	2	ng/L	1		EPA 537	11/17/17	11/28/17 16:43	BLM
Perfluorotridecanoic acid (PFTiDA)	ND	2.0	2	ng/L	1		EPA 537	11/17/17	11/28/17 16:43	BLM
Perfluorotetradecanoic acid (PFTA)	ND	2.0	2	ng/L	1		EPA 537	11/17/17	11/28/17 16:43	BLM
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
13C-PFHxA		92.1	70-130						11/28/17 16:43	
13C-PFDA		81.7	70-130						11/28/17 16:43	
d5-NEtFOSAA		76.4	70-130						11/28/17 16:43	



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Sample Extraction Data

Prep Method: EPA 537-EPA 537

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17K0487-01 [287 Buck Pond-field blank]	B190938	250	1.00	11/17/17
17K0487-02 [287 Buck Pond-2]	B190938	250	1.00	11/17/17

QUALITY CONTROL

Miscellaneous Organic Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B190938 - EPA 537										
Blank (B190938-BLK1)										
Prepared: 11/17/17 Analyzed: 11/28/17										
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	2.0	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	2.0	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	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							
Perfluorodecanoic acid (PFDA)	ND	2.0	ng/L							
NMeFOSAA	ND	2.0	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L							
NEtFOSAA	ND	2.0	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	2.0	ng/L							
Perfluorotridecanoic acid (PFTTrDA)	ND	2.0	ng/L							
Perfluorotetradecanoic acid (PFTA)	ND	2.0	ng/L							
Surrogate: 13C-PFHxA	37.3		ng/L	40.0		93.2	70-130			
Surrogate: 13C-PFDA	32.2		ng/L	40.0		80.5	70-130			
Surrogate: d5-NEtFOSAA	139		ng/L	160		86.8	70-130			
LCS (B190938-BS1)										
Prepared: 11/17/17 Analyzed: 11/28/17										
Perfluorobutanesulfonic acid (PFBS)	2.30	2.0	ng/L	1.77		130	50-150			
Perfluorohexanoic acid (PFHxA)	2.12	2.0	ng/L	2.00		106	50-150			
Perfluoroheptanoic acid (PFHpA)	2.13	2.0	ng/L	2.00		107	50-150			
Perfluorohexanesulfonic acid (PFHxS)	2.68	2.0	ng/L	1.82		147	50-150			
Perfluorooctanoic acid (PFOA)	2.46	2.0	ng/L	2.00		123	50-150			
Perfluorooctanesulfonic acid (PFOS)	1.96	2.0	ng/L	1.85		106	50-150			
Perfluorononanoic acid (PFNA)	2.28	2.0	ng/L	2.00		114	50-150			
Perfluorodecanoic acid (PFDA)	2.10	2.0	ng/L	2.00		105	50-150			
NMeFOSAA	2.19	2.0	ng/L	2.00		109	50-150			
Perfluoroundecanoic acid (PFUnA)	1.95	2.0	ng/L	2.00		97.7	50-150			
NEtFOSAA	2.27	2.0	ng/L	2.00		114	50-150			
Perfluorododecanoic acid (PFDoA)	1.77	2.0	ng/L	2.00		88.4	50-150			
Perfluorotridecanoic acid (PFTTrDA)	1.69	2.0	ng/L	2.00		84.5	50-150			
Perfluorotetradecanoic acid (PFTA)	1.86	2.0	ng/L	2.00		93.1	50-150			
Surrogate: 13C-PFHxA	33.5		ng/L	40.0		83.7	70-130			
Surrogate: 13C-PFDA	30.6		ng/L	40.0		76.5	70-130			
Surrogate: d5-NEtFOSAA	125		ng/L	160		78.3	70-130			



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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.



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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>EPA 537 in Drinking Water</i>	
Perfluorobutanesulfonic acid (PFBS)	VT-DW,ME
Perfluorohexanoic acid (PFHxA)	VT-DW,ME
Perfluoroheptanoic acid (PFHpA)	VT-DW,ME
Perfluorohexanesulfonic acid (PFHxS)	VT-DW,ME
Perfluorooctanoic acid (PFOA)	NH,NY,VT-DW,ME
Perfluorooctanesulfonic acid (PFOS)	NH,NY,VT-DW,ME
Perfluorononanoic acid (PFNA)	VT-DW,ME
Perfluorodecanoic acid (PFDA)	VT-DW,ME
NMeFOSAA	VT-DW
Perfluoroundecanoic acid (PFUnA)	VT-DW,ME
NEFOSAA	VT-DW
Perfluorododecanoic acid (PFDoA)	VT-DW,ME
Perfluorotridecanoic acid (PFTTrDA)	VT-DW,ME
Perfluorotetradecanoic acid (PFTA)	VT-DW,ME

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 Public Health	PH-0567	09/30/2019
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	09/6/2018
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018



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

Company Name: ATC Group Services
Address: 73 William Franks Drive, West Springfield, MA
 (413) 781-0070
Project Name: 287 Buck Pond Rd, Westfield
Project Location: 287 Buck Pond Rd, Westfield
Project Number: 1835M00170
Project Manager: Rob Smith

Con-Test Quote Name/Number:
Invoice Recipient:
Sampled By: Elizabeth O'Connor

Con-Test Work Order #	Client/Project Name	Sampling Date	Sampling Time	Matrix	Filter	Preservation	Analysis	Method	Remarks
01	287 Buck Pond Rd - field blank	11/8/17	14:30	DW	U	X			
02	287 Buck Pond Rd - 1	11/8/17	14:43	DW	U	X			
03	287 Buck Pond Rd - 2	11/8/17	14:44	DW	U	X			

Comments:
 RUN EPA Method 537: 287 Buck Pond Rd-1
 EXTRACT & HOLD EPA Method 537: 287 Buck Pond Rd-field blank & 287 Buck Pond Rd-2
 HOLD As, Fe, Hardness, TOC

Relinquished by: (signature)
 Received by: (signature)
 Relinquished by: (signature)
 Date/Time: 11/8/17 16:10
 Date/Time: 11/8/17 16:10
 Date/Time: 11/8/17 16:10

Doc # 381 Rev 1_03242017
 39 Spruce Street
 East Longmeadow, MA 01028

CHAIN OF CUSTODY RECORD

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:
 Fax To #:

# of Containers	2 Preservation Code	3 Container Code	4 Matrix Codes	5 O N H P Y	6 ANALYSIS REQUESTED
					TOTAL As, Fe, HARDNESS, TOC

7-Day	10-Day	1-Day	3-Day	2-Day	4-Day	Format	Other	CLP Like Data Pkg Required	Email To	Fax To #
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	PDF <input checked="" type="checkbox"/>	EXCEL <input checked="" type="checkbox"/>	<input type="checkbox"/>		

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

Detection Limit Requirements
 MA MA MCP Required
 CT MCP Certification Form Required
 Other: CT RCP Required
 RCP Certification Form Required

Special Requirements
 MA MA MCP Required
 CT MCP Certification Form Required
 Other: CT RCP Required
 RCP Certification Form Required

Project Entity
 PWSID #
 Government
 Federal
 City
 Municipality
 21 J
 Brownfield
 MWRA
 School
 MBTA
 WRTA
 Chromatogram
 AHA-LAP, LLC
 PCB ONLY
 Soxhlet
 Non Soxhlet



Dissolved Metals Samples
 Field Filtered
 Lab-to-Filter

Orthophosphate Samples
 Field Filtered
 Lab-to-Filter

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

Preservation Codes:
 F = Filled
 H = HCl
 M = Methanol
 N = Nitric Acid
 S = Sulfuric Acid
 B = Sodium Bisulfate
 X = Sodium Hydroxide
 T = Sodium Thiosulfate
 O = Other (please define)
 TRIZWA

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

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 East Longmeadow, MA. 01028
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 F: 413-525-6405
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 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 BLF Date 11/8/17 Time 1010

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

Were samples within Temperature? 2-6°C F By Gun # 1 Actual Temp - 14.8°C
 By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? LA Were Samples Tampered with? LA
 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? T

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? LA MS/MSD? LA
 Proper Media/Containers Used? T Is splitting samples required? F
 Were trip blanks received? F On COC? LA

Do all samples have the proper pH? Acid LA Base LA

Vials	#	Containers	#	#	#
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	

Unused Media

Vials	#	Containers	#	#	#
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

December 11, 2017

Walter Figueroa
12 Ivy Lane
Westfield, MA 01085

RE: Notice of Environmental Sampling
12 Ivy Lane
Westfield Private Well Sampling

Dear Mr. Figueroa:

The Department of Environmental Protection (DEP) collected a drinking water sample from your private well on November 7, 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 15.7 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. Based on the concentrations of PFC compounds detected 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. However, additional sampling may be required in the future. The Department thanks you for granting access to your property.

This information is available in alternate format. Contact Michelle Waters-Ekanem, Director of Diversity/Civil Rights at 617-292-5751.

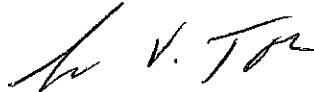
TTY# MassRelay Service 1-800-439-2370

MassDEP Website: www.mass.gov/dep

Printed on Recycled Paper

If you have any questions pertaining to this Notice of Environmental Sampling or with the informationn 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



NOTICE OF ENVIRONMENTAL SAMPLING

1 - 20093

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: 175 Falcon Drive
City/Town: Westfield Zip Code: 01085

B. This notice is being provided to the following party:

1. Name: Walter Figueroa
2. Street Address: 12 Ivy Lane
City/Town: Westfield Zip Code: 01085

C. This notice is being given to inform its recipient (the party listed in Section B):

- 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
- 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
- 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 12 Ivy Lane
City/Town: Westfield Zip Code: 01085

2. MCP phase of work during which the sampling will be/has been conducted:

- | | |
|---|--|
| <input checked="" type="checkbox"/> Immediate Response Action | <input type="checkbox"/> Phase III Feasibility Evaluation |
| <input type="checkbox"/> Release Abatement Measure | <input type="checkbox"/> Phase IV Remedy Implementation Plan |
| <input type="checkbox"/> Utility-related Abatement Measure | <input type="checkbox"/> Phase V/Remedy Operation Status |
| <input type="checkbox"/> Phase I Initial Site Investigation | <input type="checkbox"/> Post-Temporary Solution Operation, Maintenance and Monitoring |
| <input type="checkbox"/> Phase II Comprehensive Site Assessment | <input type="checkbox"/> Other _____
(specify) |

3. Description of property where sampling will be/has been conducted:

- residential commercial industrial school/playground Other _____
(specify)

4. Description of the sampling locations and types (e.g., soil, groundwater, indoor air, soil gas) to the extent known at the time of this notice.

Drinking water samples were collected from the private well located on the above-referenced property and analyzed for PHAS via EPA Method 537.1.1.

E. Contact information related to the party providing this notice:

Contact Name: MA Department of Environmental Protection
Street Address: 436 Dwight Street
City/Town: Springfield Zip Code: 01103
Telephone: (413) 784-1100 Email: david.bachand.jr@state.ma.us



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

NOTICE OF ENVIRONMENTAL SAMPLING

1 - 20093

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation of a release for which a notification to MassDEP has been made under the Massachusetts Contingency Plan (310 CMR 40.0300) on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/eea/agencies/massdep/cleanup>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://public.dep.state.ma.us/SearchableSites2/Search.aspx> to view site-specific files on-line or <http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html> if you would like to make an appointment to see these files in person. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.



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

November 22, 2017

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

Project Location: 12 Ivy Ave., Westfield
Client Job Number:
Project Number: 183EM00170
Laboratory Work Order Number: 17K0450

Enclosed are results of analyses for samples received by the laboratory on November 8, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Kerry K. McGee". The signature is written in a cursive, flowing style.

Kerry K. McGee
Project Manager

Table of Contents

Sample Summary	3
Case Narrative	4
Sample Results	5
17K0450-01	5
Sample Preparation Information	6
QC Data	7
Miscellaneous Organic Analyses	7
B190547	7
Flag/Qualifier Summary	8
Certifications	9
Chain of Custody/Sample Receipt	10



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: 11/22/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 183EM00170

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17K0450

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

PROJECT LOCATION: 12 Ivy Ave., Westfield

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
12 Ivy Ave-1	17K0450-01	Drinking Water		EPA 537	

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.



Daren J. Damboragian
Director of Operations



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

Project Location: 12 Ivy Ave., Westfield

Sample Description:

Work Order: 17K0450

Date Received: 11/8/2017

Field Sample #: 12 Ivy Ave-1

Sampled: 11/7/2017 10:30

Sample ID: 17K0450-01

Sample Matrix: Drinking Water

Miscellaneous Organic Analyses

Analyte	Results	MCL/SMCL		Units	Dilution	Flag/Qual	Method	Date	Date/Time	Analyst
		RL	MA ORSG					Prepared	Analyzed	
# Perfluorobutanesulfonic acid (PFBS)	4.9	2.0	2	ng/L	1		EPA 537	11/9/17	11/17/17 17:42	BLM
# Perfluorohexanoic acid (PFHxA)	8.5	2.0	2	ng/L	1		EPA 537	11/9/17	11/17/17 17:42	BLM
# Perfluoroheptanoic acid (PFHpA)	2.4	2.0	2	ng/L	1		EPA 537	11/9/17	11/17/17 17:42	BLM
# Perfluorohexanesulfonic acid (PFHxS)	20	2.0	2	ng/L	1		EPA 537	11/9/17	11/17/17 17:42	BLM
# Perfluorooctanoic acid (PFOA)	7.5	2.0	2	ng/L	1		EPA 537	11/9/17	11/17/17 17:42	BLM
# Perfluorooctanesulfonic acid (PFOS)	8.2	2.0	2	ng/L	1		EPA 537	11/9/17	11/17/17 17:42	BLM
Perfluorononanoic acid (PFNA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/17/17 17:42	BLM
Perfluorodecanoic acid (PFDA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/17/17 17:42	BLM
NMeFOSAA	ND	2.0		ng/L	1		EPA 537	11/9/17	11/17/17 17:42	BLM
Perfluoroundecanoic acid (PFUnA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/17/17 17:42	BLM
NEtFOSAA	ND	2.0		ng/L	1		EPA 537	11/9/17	11/17/17 17:42	BLM
Perfluorododecanoic acid (PFDoA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/17/17 17:42	BLM
Perfluorotridecanoic acid (PFTriDA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/17/17 17:42	BLM
Perfluorotetradecanoic acid (PFTA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/17/17 17:42	BLM
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
13C-PFHxA		129	70-130						11/17/17 17:42	
13C-PFDA		97.3	70-130						11/17/17 17:42	
d5-NEtFOSAA		70.4	70-130						11/17/17 17:42	

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Sample Extraction Data

Prep Method: EPA 537-EPA 537

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17K0450-01 [12 Ivy Ave-1]	B190547	250	1.00	11/09/17

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 B190547 - EPA 537										
Blank (B190547-BLK1)										
Prepared: 11/09/17 Analyzed: 11/19/17										
Perfluoropentanoic acid (PFPeA)	ND	2.0	ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	2.0	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	2.0	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	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							
Perfluorodecanoic acid (PFDA)	ND	2.0	ng/L							
NMeFOSAA	ND	2.0	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L							
NEtFOSAA	ND	2.0	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	2.0	ng/L							
Perfluorotridecanoic acid (PFTriDA)	ND	2.0	ng/L							
Perfluorotetradecanoic acid (PFTA)	ND	2.0	ng/L							
Surrogate: 13C-PFHxA	35.2		ng/L	40.0		88.0	70-130			
Surrogate: 13C-PFDA	34.4		ng/L	40.0		86.1	70-130			
Surrogate: d5-NEtFOSAA	150		ng/L	160		93.7	70-130			
LCS (B190547-BS1)										
Prepared: 11/09/17 Analyzed: 11/17/17										
Perfluorobutanesulfonic acid (PFBS)	1.99	2.0	ng/L	1.77		112	50-150			
Perfluorohexanoic acid (PFHxA)	2.63	2.0	ng/L	2.00		132	50-150			
Perfluoroheptanoic acid (PFHpA)	1.95	2.0	ng/L	2.00		97.5	50-150			
Perfluorohexanesulfonic acid (PFHxS)	2.16	2.0	ng/L	1.82		119	50-150			
Perfluorooctanoic acid (PFOA)	2.56	2.0	ng/L	2.00		128	50-150			
Perfluorooctanesulfonic acid (PFOS)	2.32	2.0	ng/L	1.85		126	50-150			
Perfluorononanoic acid (PFNA)	2.87	2.0	ng/L	2.00		144	50-150			
Perfluorodecanoic acid (PFDA)	2.76	2.0	ng/L	2.00		138	50-150			
NMeFOSAA	1.63	2.0	ng/L	2.00		81.6	50-150			
Perfluoroundecanoic acid (PFUnA)	2.64	2.0	ng/L	2.00		132	50-150			
NEtFOSAA	1.59	2.0	ng/L	2.00		79.7	50-150			
Perfluorododecanoic acid (PFDoA)	2.28	2.0	ng/L	2.00		114	50-150			
Perfluorotridecanoic acid (PFTriDA)	2.25	2.0	ng/L	2.00		113	50-150			
Perfluorotetradecanoic acid (PFTA)	2.45	2.0	ng/L	2.00		122	50-150			
Surrogate: 13C-PFHxA	43.0		ng/L	40.0		107	70-130			
Surrogate: 13C-PFDA	49.2		ng/L	40.0		123	70-130			
Surrogate: d5-NEtFOSAA	112		ng/L	160		70.2	70-130			



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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.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>EPA 537 in Drinking Water</i>	
Perfluorobutanesulfonic acid (PFBS)	VT-DW,ME
Perfluorohexanoic acid (PFHxA)	VT-DW,ME
Perfluoroheptanoic acid (PFHpA)	VT-DW,ME
Perfluorohexanesulfonic acid (PFHxS)	VT-DW,ME
Perfluorooctanoic acid (PFOA)	NH,NY,VT-DW,ME
Perfluorooctanesulfonic acid (PFOS)	NH,NY,VT-DW,ME
Perfluorononanoic acid (PFNA)	VT-DW,ME
Perfluorodecanoic acid (PFDA)	VT-DW,ME
NMeFOSAA	VT-DW
Perfluoroundecanoic acid (PFUnA)	VT-DW,ME
NEtFOSAA	VT-DW
Perfluorododecanoic acid (PFDoA)	VT-DW,ME
Perfluorotridecanoic acid (PFTiDA)	VT-DW,ME
Perfluorotetradecanoic acid (PFTA)	VT-DW,ME

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 Public Health	PH-0567	09/30/2019
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	09/6/2018
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

http://www.con-testlabs.com
 CHAIN OF CUSTODY RECORD
 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 Pig Required:
 Email To:
 Fax To #:

Phone: 413-525-2332
 Fax: 413-525-6405
 Email: info@con-testlabs.com
 ATC Group Services
 73 William Franks Drive, West Springfield, MA
 (413) 781-0070
 12 Ivy Ave, Westfield
 12 Ivy Ave, Westfield
 183E00170
 Rob Smith
 Con-Test Quote Name/Number:
 Invoice Recipient:
 Sampled By: Elizabeth O'Connor

Company Name:
 Address:
 Phone:
 Project Name:
 Project Location:
 Project Number:
 Project Manager:
 Con-Test Quote Name/Number:
 Invoice Recipient:
 Sampled By:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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Con-Test Work Order #	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Matrix Code	Conc. Code	Analysis Requested
01	12 Ivy Ave - field blank	11/17/2017	10:14	X	DW	U	TOTAL AS, Fe, HARDNESS, TOC EPA METHOD 537
	12 Ivy Ave - 1	11/17/2017	10:30	X	DW	U	
	12 Ivy Ave - 2	11/17/2017	10:31	X	DW	U	

Detection Limit Requirements	Special Requirements
MA	MA MCP Required
	MCP Certification Form Required
CT	CT RCP Required
	RCP Certification Form Required
Other	MA State DW Required
	PWSID #

Relinquished by: (signature)	Date/Time:	Project Entity
<i>[Signature]</i>	11/17 8:00	Government <input type="checkbox"/> Municipality <input type="checkbox"/> City <input type="checkbox"/>
<i>[Signature]</i>	11/17 8:00	Federal <input type="checkbox"/> 21 J <input type="checkbox"/> School <input type="checkbox"/>
<i>[Signature]</i>		City <input type="checkbox"/> Brownfield <input type="checkbox"/> MBTA <input type="checkbox"/>
<i>[Signature]</i>		Other <input type="checkbox"/> Chromatogram <input type="checkbox"/> AIHA-LAP, LLC <input type="checkbox"/>

Comments:
 RUN EPA Method 537: 12 Ivy Ave-1
 EXTRACT & HOLD EPA Method 537: 12 Ivy Ave-field blank & 12 Ivy Ave-2
 HOLD As, Fe, Hardness, TOC

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



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 PLF Date 11/8/17 Time 800

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

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 4.4, 5.4°
 By Blank # _____ Actual Temp - _____

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

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? F Is splitting samples required? F

Were trip blanks received? F On COC? NA

Do all samples have the proper pH? Acid T Base NA

Media	Containers	Media	Containers
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	

Unused Media

Media	Containers	Media	Containers
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:



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

November 29, 2017

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

Project Location: 12 Ivy Ave., Westfield
Client Job Number:
Project Number: 183EM00170
Laboratory Work Order Number: 17K0466

Enclosed are results of analyses for samples received by the laboratory on November 8, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Kerry K. McGee". The signature is written in a cursive, flowing style.

Kerry K. McGee
Project Manager

Table of Contents

Sample Summary	3
Case Narrative	4
Sample Results	5
17K0466-01	5
17K0466-02	6
Sample Preparation Information	7
QC Data	8
Miscellaneous Organic Analyses	8
B190938	8
Flag/Qualifier Summary	9
Certifications	10
Chain of Custody/Sample Receipt	11



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: 11/29/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 183EM00170

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17K0466

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

PROJECT LOCATION: 12 Ivy Ave., Westfield

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
12 Ivy Ave-field blank	17K0466-01	Drinking Water		EPA 537	
12 Ivy Ave-2	17K0466-02	Drinking Water		EPA 537	



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.

A handwritten signature in black ink, appearing to read "Lisa A. Worthington", is written over a light grey grid background.

Lisa A. Worthington
Project Manager



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

Project Location: 12 Ivy Ave., Westfield

Sample Description:

Work Order: 17K0466

Date Received: 11/8/2017

Field Sample #: 12 Ivy Ave-field blank

Sampled: 11/7/2017 10:14

Sample ID: 17K0466-01

Sample Matrix: Drinking Water

Miscellaneous Organic Analyses

Analyte	Results	MCL/SMCL		Units	Dilution	Flag/Qual	Method	Date	Date/Time	Analyst
		RL	MA ORSG					Prepared	Analyzed	
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	2	ng/L	1		EPA 537	11/17/17	11/28/17 14:48	BLM
Perfluorohexanoic acid (PFHxA)	ND	2.0	2	ng/L	1		EPA 537	11/17/17	11/28/17 14:48	BLM
Perfluoroheptanoic acid (PFHpA)	ND	2.0	2	ng/L	1		EPA 537	11/17/17	11/28/17 14:48	BLM
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	2	ng/L	1		EPA 537	11/17/17	11/28/17 14:48	BLM
Perfluorooctanoic acid (PFOA)	ND	2.0	2	ng/L	1		EPA 537	11/17/17	11/28/17 14:48	BLM
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	2	ng/L	1		EPA 537	11/17/17	11/28/17 14:48	BLM
Perfluorononanoic acid (PFNA)	ND	2.0	2	ng/L	1		EPA 537	11/17/17	11/28/17 14:48	BLM
Perfluorodecanoic acid (PFDA)	ND	2.0	2	ng/L	1		EPA 537	11/17/17	11/28/17 14:48	BLM
NMeFOSAA	ND	2.0		ng/L	1		EPA 537	11/17/17	11/28/17 14:48	BLM
Perfluoroundecanoic acid (PFUnA)	ND	2.0	2	ng/L	1		EPA 537	11/17/17	11/28/17 14:48	BLM
NEtFOSAA	ND	2.0		ng/L	1		EPA 537	11/17/17	11/28/17 14:48	BLM
Perfluorododecanoic acid (PFDoA)	ND	2.0	2	ng/L	1		EPA 537	11/17/17	11/28/17 14:48	BLM
Perfluorotridecanoic acid (PFTriDA)	ND	2.0	2	ng/L	1		EPA 537	11/17/17	11/28/17 14:48	BLM
Perfluorotetradecanoic acid (PFTA)	ND	2.0	2	ng/L	1		EPA 537	11/17/17	11/28/17 14:48	BLM
Surrogates		% Recovery	Recovery Limits							
13C-PFHxA		81.4	70-130						11/28/17 14:48	
13C-PFDA		80.1	70-130						11/28/17 14:48	
d5-NEtFOSAA		80.8	70-130						11/28/17 14:48	

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Project Location: 12 Ivy Ave., Westfield

Sample Description:

Work Order: 17K0466

Date Received: 11/8/2017

Field Sample #: 12 Ivy Ave-2

Sampled: 11/7/2017 10:31

Sample ID: 17K0466-02

Sample Matrix: Drinking Water

Miscellaneous Organic Analyses

Analyte	Results	MCL/SMCL		Units	Dilution	Flag/Qual	Method	Date	Date/Time	Analyst
		RL	MA ORSG					Prepared	Analyzed	
# Perfluorobutanesulfonic acid (PFBS)	5.4	2.0	2	ng/L	1		EPA 537	11/17/17	11/28/17 15:01	BLM
# Perfluorohexanoic acid (PFHxA)	7.1	2.0	2	ng/L	1		EPA 537	11/17/17	11/28/17 15:01	BLM
# Perfluoroheptanoic acid (PFHpA)	2.6	2.0	2	ng/L	1		EPA 537	11/17/17	11/28/17 15:01	BLM
# Perfluorohexanesulfonic acid (PFHxS)	23	2.0	2	ng/L	1		EPA 537	11/17/17	11/28/17 15:01	BLM
# Perfluorooctanoic acid (PFOA)	7.1	2.0	2	ng/L	1		EPA 537	11/17/17	11/28/17 15:01	BLM
# Perfluorooctanesulfonic acid (PFOS)	9.6	2.0	2	ng/L	1		EPA 537	11/17/17	11/28/17 15:01	BLM
Perfluorononanoic acid (PFNA)	ND	2.0	2	ng/L	1		EPA 537	11/17/17	11/28/17 15:01	BLM
Perfluorodecanoic acid (PFDA)	ND	2.0	2	ng/L	1		EPA 537	11/17/17	11/28/17 15:01	BLM
NMeFOSAA	ND	2.0		ng/L	1		EPA 537	11/17/17	11/28/17 15:01	BLM
Perfluoroundecanoic acid (PFUnA)	ND	2.0	2	ng/L	1		EPA 537	11/17/17	11/28/17 15:01	BLM
NEtFOSAA	ND	2.0		ng/L	1		EPA 537	11/17/17	11/28/17 15:01	BLM
Perfluorododecanoic acid (PFDoA)	ND	2.0	2	ng/L	1		EPA 537	11/17/17	11/28/17 15:01	BLM
Perfluorotridecanoic acid (PFTriDA)	ND	2.0	2	ng/L	1		EPA 537	11/17/17	11/28/17 15:01	BLM
Perfluorotetradecanoic acid (PFTA)	ND	2.0	2	ng/L	1		EPA 537	11/17/17	11/28/17 15:01	BLM
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
13C-PFHxA		93.5	70-130					11/28/17	15:01	
13C-PFDA		81.5	70-130					11/28/17	15:01	
d5-NEtFOSAA		90.0	70-130					11/28/17	15:01	



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Sample Extraction Data

Prep Method: EPA 537-EPA 537

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17K0466-01 [12 Ivy Ave-field blank]	B190938	250	1.00	11/17/17
17K0466-02 [12 Ivy Ave-2]	B190938	250	1.00	11/17/17

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QUALITY CONTROL

Miscellaneous Organic Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD RPD	Limit	Notes
Batch B190938 - EPA 537										
Blank (B190938-BLK1)										
Prepared: 11/17/17 Analyzed: 11/28/17										
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	2.0	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	2.0	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	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							
Perfluorodecanoic acid (PFDA)	ND	2.0	ng/L							
NMeFOSAA	ND	2.0	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L							
NEtFOSAA	ND	2.0	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	2.0	ng/L							
Perfluorotridecanoic acid (PFTTrDA)	ND	2.0	ng/L							
Perfluorotetradecanoic acid (PFTA)	ND	2.0	ng/L							
Surrogate: 13C-PFHxA	37.3		ng/L	40.0		93.2	70-130			
Surrogate: 13C-PFDA	32.2		ng/L	40.0		80.5	70-130			
Surrogate: d5-NEtFOSAA	139		ng/L	160		86.8	70-130			
LCS (B190938-BS1)										
Prepared: 11/17/17 Analyzed: 11/28/17										
Perfluorobutanesulfonic acid (PFBS)	2.30	2.0	ng/L	1.77		130	50-150			
Perfluorohexanoic acid (PFHxA)	2.12	2.0	ng/L	2.00		106	50-150			
Perfluoroheptanoic acid (PFHpA)	2.13	2.0	ng/L	2.00		107	50-150			
Perfluorohexanesulfonic acid (PFHxS)	2.68	2.0	ng/L	1.82		147	50-150			
Perfluorooctanoic acid (PFOA)	2.46	2.0	ng/L	2.00		123	50-150			
Perfluorooctanesulfonic acid (PFOS)	1.96	2.0	ng/L	1.85		106	50-150			
Perfluorononanoic acid (PFNA)	2.28	2.0	ng/L	2.00		114	50-150			
Perfluorodecanoic acid (PFDA)	2.10	2.0	ng/L	2.00		105	50-150			
NMeFOSAA	2.19	2.0	ng/L	2.00		109	50-150			
Perfluoroundecanoic acid (PFUnA)	1.95	2.0	ng/L	2.00		97.7	50-150			
NEtFOSAA	2.27	2.0	ng/L	2.00		114	50-150			
Perfluorododecanoic acid (PFDoA)	1.77	2.0	ng/L	2.00		88.4	50-150			
Perfluorotridecanoic acid (PFTTrDA)	1.69	2.0	ng/L	2.00		84.5	50-150			
Perfluorotetradecanoic acid (PFTA)	1.86	2.0	ng/L	2.00		93.1	50-150			
Surrogate: 13C-PFHxA	33.5		ng/L	40.0		83.7	70-130			
Surrogate: 13C-PFDA	30.6		ng/L	40.0		76.5	70-130			
Surrogate: d5-NEtFOSAA	125		ng/L	160		78.3	70-130			



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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.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>EPA 537 in Drinking Water</i>	
Perfluorobutanesulfonic acid (PFBS)	VT-DW,ME
Perfluorohexanoic acid (PFHxA)	VT-DW,ME
Perfluoroheptanoic acid (PFHpA)	VT-DW,ME
Perfluorohexanesulfonic acid (PFHxS)	VT-DW,ME
Perfluorooctanoic acid (PFOA)	NH,NY,VT-DW,ME
Perfluorooctanesulfonic acid (PFOS)	NH,NY,VT-DW,ME
Perfluorononanoic acid (PFNA)	VT-DW,ME
Perfluorodecanoic acid (PFDA)	VT-DW,ME
NMcFOSAA	VT-DW
Perfluoroundecanoic acid (PFUnA)	VT-DW,ME
NEtFOSAA	VT-DW
Perfluorododecanoic acid (PFDoA)	VT-DW,ME
Perfluorotridecanoic acid (PFTrDA)	VT-DW,ME
Perfluorotetradecanoic acid (PFTA)	VT-DW,ME

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 Public Health	PH-0567	09/30/2019
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	09/6/2018
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018



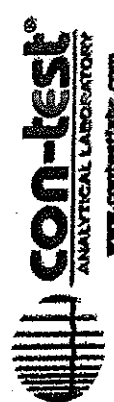
<http://www.contestlabs.com>
CHAIN OF CUSTODY RECORD
 ATC Group Services
 73 William Franks Drive, West Springfield, MA
 (413) 781-0070
 12 Ivy Ave, Westfield
 12 Ivy Ave, Westfield
 183EM00170
 Rob Smith
 Elizabeth O'Connor

Doc # 381 Rev 1_03242017
 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: 12 Ivy Ave, Westfield Project Location: 12 Ivy Ave, Westfield Project Number: 183EM00170 Project Manager: Rob Smith Con-Test Quote Name/Number: Invoice Recipient: Sampled By: Elizabeth O'Connor		Requested Turnaround Time 7-Day <input type="checkbox"/> 10-Day <input type="checkbox"/> Due Date: 5-day TAT Rush-Approval Required 1-Day <input type="checkbox"/> 3-Day <input type="checkbox"/> 2-Day <input type="checkbox"/> 4-Day <input type="checkbox"/> Data Delivery Format: PDF <input checked="" type="checkbox"/> EXCEL <input checked="" type="checkbox"/> Other: CLP Like Data Pkg Required: <input type="checkbox"/> Email To: Fax To #:	
Client Sample ID/Description 12 Ivy Ave - field blank 12 Ivy Ave - 1 12 Ivy Ave - 2		Date/Time 11/17/2017 10:14 11/17/2017 10:30 11/17/2017 10:31	
Matrix Codes: GW = Ground Water WW = Waste Water DW = Drinking Water A = Air S = Soil SL = Sludge SOL = Solid O = Other (please define)		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)	
Container Codes: A = Amber-Glass G = Glass P = Plastic ST = Sterile V = Vial S = Summa-Canister T = Tedlar-Bag O = Other (please define)		PCB ONLY Soxhlet <input type="checkbox"/> Non Soxhlet <input type="checkbox"/>	
ANALYSIS REQUESTED TOTAL As, Fe, HARDNESS, TOC EPA METHOD 537			
Matrix Codes: GW = Ground Water WW = Waste Water DW = Drinking Water A = Air S = Soil SL = Sludge SOL = Solid O = Other (please define)		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)	
Container Codes: A = Amber-Glass G = Glass P = Plastic ST = Sterile V = Vial S = Summa-Canister T = Tedlar-Bag O = Other (please define)		PCB ONLY Soxhlet <input type="checkbox"/> Non Soxhlet <input type="checkbox"/>	

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



Detection Limit Requirements MA <input type="checkbox"/> MA MCP Required MCP Certification Form Required CT <input type="checkbox"/> CT RCP Required RCP Certification Form Required MA State DW Required PWSID #		Special Requirements MA MCP Required MCP Certification Form Required CT RCP Required RCP Certification Form Required MA State DW Required PWSID #	
Project Entity Government <input type="checkbox"/> Municipality <input type="checkbox"/> MWRA <input type="checkbox"/> Other <input type="checkbox"/> Federal <input type="checkbox"/> 21 J <input type="checkbox"/> School <input type="checkbox"/> City <input type="checkbox"/> Brownfield <input type="checkbox"/> MBTA <input type="checkbox"/>		Chromatogram <input type="checkbox"/> AIHA-LAP, LLC <input type="checkbox"/>	

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 PLJ Date 11/8/17 Time 800

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

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 4.4, 5.4 °C
 By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA
 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 Client T Analysis T Sampler Name T
 pertinent Information? Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F

Are there Rushes? F

Are there Short Holds? F

Is there enough Volume? T

Is there Headspace where applicable? NA

Proper Media/Containers Used? T

Were trip blanks received? F

Do all samples have the proper pH?

Who was notified? _____
 Who was notified? _____
 Who was notified? _____

MS/MSD? NA
 Is splitting samples required? F

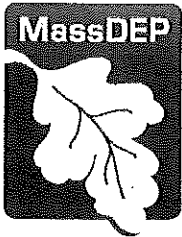
On COC? NA
 Acid NA Base NA

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	

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

Matthew A. Beaton
Secretary

Karyn E. Polito
Lieutenant Governor

Martin Suuberg
Commissioner

December 11, 2017

John and Elizabeth Adams
1768 East Mountain Road
Westfield, MA 01085

RE: Notice of Environmental Sampling
1768 East Mountain Road
Westfield Private Well Sampling

Dear Mr. & Mrs. Adams:

The Department of Environmental Protection (DEP) collected a drinking water sample from your private well on November 7, 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 2.5 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. Based on the concentrations of PFC compounds detected 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. However, additional sampling may be required in the future. The Department thanks you for granting access to your property.

This information is available in alternate format. Contact Michelle Waters-Ekanem, Director of Diversity/Civil Rights at 617-292-5751.

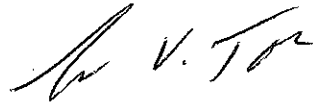
TTY# MassRelay Service 1-800-439-2370

MassDEP Website: www.mass.gov/dep

Printed on Recycled Paper

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

cc : 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



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

NOTICE OF ENVIRONMENTAL SAMPLING

1 - 20093

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: 175 Falcon Drive
City/Town: Westfield Zip Code: 01085

B. This notice is being provided to the following party:

1. Name: John & Elizabeth Adams
2. Street Address: 1768 East Mountain Road
City/Town: Westfield Zip Code: 01085

C. This notice is being given to inform its recipient (the party listed in Section B):

- 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
- 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
- 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 1768 East Mountain Road
City/Town: Westfield Zip Code: 01085

2. MCP phase of work during which the sampling will be/has been conducted:

- | | |
|---|--|
| <input checked="" type="checkbox"/> Immediate Response Action | <input type="checkbox"/> Phase III Feasibility Evaluation |
| <input type="checkbox"/> Release Abatement Measure | <input type="checkbox"/> Phase IV Remedy Implementation Plan |
| <input type="checkbox"/> Utility-related Abatement Measure | <input type="checkbox"/> Phase V/Remedy Operation Status |
| <input type="checkbox"/> Phase I Initial Site Investigation | <input type="checkbox"/> Post-Temporary Solution Operation, Maintenance and Monitoring |
| <input type="checkbox"/> Phase II Comprehensive Site Assessment | <input type="checkbox"/> Other _____ |
- (specify)

3. Description of property where sampling will be/has been conducted:

- residential commercial industrial school/playground Other _____
- (specify)

4. Description of the sampling locations and types (e.g., soil, groundwater, indoor air, soil gas) to the extent known at the time of this notice.

Drinking water samples were collected from the private well located on the above-referenced property and analyzed for PHAS via EPA Method 537.1.1.

E. Contact information related to the party providing this notice:

Contact Name: MA Department of Environmental Protection
Street Address: 436 Dwight Street
City/Town: Springfield Zip Code: 01103
Telephone: (413) 784-1100 Email: david.bachand.jr@state.ma.us



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release/Tracking Number

NOTICE OF ENVIRONMENTAL SAMPLING

1 - 20093

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation of a release for which a notification to MassDEP has been made under the Massachusetts Contingency Plan (310 CMR 40.0300) on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/eea/agencies/massdep/cleanup>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://public.dep.state.ma.us/SearchableSites2/Search.aspx> to view site-specific files on-line or <http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html> if you would like to make an appointment to see these files in person. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.

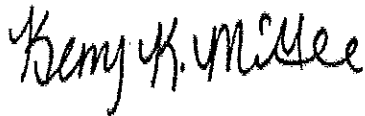
November 22, 2017

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

Project Location: 1768 East Mountain Rd-1
Client Job Number:
Project Number: 183EM00170
Laboratory Work Order Number: 17K0451

Enclosed are results of analyses for samples received by the laboratory on November 8, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kerry K. McGee
Project Manager

Table of Contents

Sample Summary	3
Case Narrative	4
Sample Results	5
17K0451-01	5
Sample Preparation Information	6
QC Data	7
Miscellaneous Organic Analyses	7
B190547	7
Flag/Qualifier Summary	8
Certifications	9
Chain of Custody/Sample Receipt	10



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: 11/22/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 183EM00170

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17K0451

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

PROJECT LOCATION: 1768 East Mountain Rd-1

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
1768 East Mountain Rd-1	17K0451-01	Drinking Water		EPA 537	

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.



Daren J. Damboragian
Director of Operations



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

Project Location: 1768 East Mountain Rd-1

Sample Description:

Work Order: 17K0451

Date Received: 11/8/2017

Field Sample #: 1768 East Mountain Rd-1

Sampled: 11/7/2017 11:25

Sample ID: 17K0451-01

Sample Matrix: Drinking Water

Miscellaneous Organic Analyses

Analyte	Results	MCL/SMCL		Units	Dilution	Flag/Qual	Method	Date	Date/Time	Analyst
		RL	MA ORSG					Prepared	Analyzed	
Perfluoropentanoic acid (PFPeA)	ND	2.0		ng/L	1		EPA 537	11/9/17	11/19/17 18:05	BLM
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 18:05	BLM
Perfluorohexanoic acid (PFHxA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 18:05	BLM
Perfluoroheptanoic acid (PFHpA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 18:05	BLM
# Perfluorohexanesulfonic acid (PFHxS)	3.3	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 18:05	BLM
Perfluorooctanoic acid (PFOA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 18:05	BLM
# Perfluorooctanesulfonic acid (PFOS)	2.5	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 18:05	BLM
Perfluorononanoic acid (PFNA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 18:05	BLM
Perfluorodecanoic acid (PFDA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 18:05	BLM
NMeFOSAA	ND	2.0		ng/L	1		EPA 537	11/9/17	11/19/17 18:05	BLM
Perfluoroundecanoic acid (PFUnA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 18:05	BLM
NEtFOSAA	ND	2.0		ng/L	1		EPA 537	11/9/17	11/19/17 18:05	BLM
Perfluorododecanoic acid (PFDoA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 18:05	BLM
Perfluorotridecanoic acid (PFTrDA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 18:05	BLM
Perfluorotetradecanoic acid (PFTA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 18:05	BLM
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
13C-PFHxA		129	70-130					11/19/17	18:05	
13C-PFDA		118	70-130					11/19/17	18:05	
d5-NEtFOSAA		80.7	70-130					11/19/17	18:05	



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Sample Extraction Data

Prep Method: EPA 537-EPA 537

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17K0451-01 [1768 East Mountain Rd-1]	B190547	250	1.00	11/09/17

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	RPD RPD	RPD Limit	Notes
Batch B190547 - EPA 537									
Blank (B190547-BLK1)					Prepared: 11/09/17 Analyzed: 11/19/17				
Perfluoropentanoic acid (PFPeA)	ND	2.0	ng/L						
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	ng/L						
Perfluorohexanoic acid (PFHxA)	ND	2.0	ng/L						
Perfluoroheptanoic acid (PFHpA)	ND	2.0	ng/L						
Perfluorohexanesulfonic acid (PFHxS)	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						
Perfluorodecanoic acid (PFDA)	ND	2.0	ng/L						
NMeFOSAA	ND	2.0	ng/L						
Perfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L						
NEtFOSAA	ND	2.0	ng/L						
Perfluorododecanoic acid (PFDoA)	ND	2.0	ng/L						
Perfluorotridecanoic acid (PFTriDA)	ND	2.0	ng/L						
Perfluorotetradecanoic acid (PFTA)	ND	2.0	ng/L						
Surrogate: 13C-PFHxA	35.2		ng/L	40.0		88.0		70-130	
Surrogate: 13C-PFDA	34.4		ng/L	40.0		86.1		70-130	
Surrogate: d5-NEtFOSAA	150		ng/L	160		93.7		70-130	
LCS (B190547-BS1)					Prepared: 11/09/17 Analyzed: 11/17/17				
Perfluorobutanesulfonic acid (PFBS)	1.99	2.0	ng/L	1.77		112		50-150	
Perfluorohexanoic acid (PFHxA)	2.63	2.0	ng/L	2.00		132		50-150	
Perfluoroheptanoic acid (PFHpA)	1.95	2.0	ng/L	2.00		97.5		50-150	
Perfluorohexanesulfonic acid (PFHxS)	2.16	2.0	ng/L	1.82		119		50-150	
Perfluorooctanoic acid (PFOA)	2.56	2.0	ng/L	2.00		128		50-150	
Perfluorooctanesulfonic acid (PFOS)	2.32	2.0	ng/L	1.85		126		50-150	
Perfluorononanoic acid (PFNA)	2.87	2.0	ng/L	2.00		144		50-150	
Perfluorodecanoic acid (PFDA)	2.76	2.0	ng/L	2.00		138		50-150	
NMeFOSAA	1.63	2.0	ng/L	2.00		81.6		50-150	
Perfluoroundecanoic acid (PFUnA)	2.64	2.0	ng/L	2.00		132		50-150	
NEtFOSAA	1.59	2.0	ng/L	2.00		79.7		50-150	
Perfluorododecanoic acid (PFDoA)	2.28	2.0	ng/L	2.00		114		50-150	
Perfluorotridecanoic acid (PFTriDA)	2.25	2.0	ng/L	2.00		113		50-150	
Perfluorotetradecanoic acid (PFTA)	2.45	2.0	ng/L	2.00		122		50-150	
Surrogate: 13C-PFHxA	43.0		ng/L	40.0		107		70-130	
Surrogate: 13C-PFDA	49.2		ng/L	40.0		123		70-130	
Surrogate: d5-NEtFOSAA	112		ng/L	160		70.2		70-130	



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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.



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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>EPA 537 in Drinking Water</i>	
Perfluoropentanoic acid (PFPeA)	NH,VT-DW
Perfluorobutanesulfonic acid (PFBS)	VT-DW,ME
Perfluorohexanoic acid (PFHxA)	VT-DW,ME
Perfluoroheptanoic acid (PFHpA)	VT-DW,ME
Perfluorohexanesulfonic acid (PFHxS)	VT-DW,ME
Perfluorooctanoic acid (PFOA)	NH,NY,VT-DW,ME
Perfluorooctanesulfonic acid (PFOS)	NH,NY,VT-DW,ME
Perfluorononanoic acid (PFNA)	VT-DW,ME
Perfluorodecanoic acid (PFDA)	VT-DW,ME
NMeFOSAA	VT-DW
Perfluoroundecanoic acid (PFUnA)	VT-DW,ME
NEtFOSAA	VT-DW
Perfluorododecanoic acid (PFDoA)	VT-DW,ME
Perfluorotridecanoic acid (PFTriDA)	VT-DW,ME
Perfluorotetradecanoic acid (PFTA)	VT-DW,ME

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 Public Health	PH-0567	09/30/2019
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	09/6/2018
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

1760451

http://www.contestlabs.com
39 Spruce Street
East Longmeadow, MA 01028

Doc # 381 Rev 1_03242017

Page 1 of 1

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

Company Name: ATC Group Services
Address: 73 William Franks Drive, West Springfield, MA (413) 781-0070

Project Name: 1768 East Mountain Rd, Westfield
Project Location: 1768 East Mountain Rd, Westfield
Project Number: 183EM00170
Project Manager: Rob Smith

Con-Test Quote Name/Number:
Invoice Recipient:
Sampled By: Elizabeth O'Connor

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:
Fax To #:

ANALYSIS REQUESTED		EPA METHOD 537	
5	1	2	3
O	N	H	
P	P	V	
TOTAL As, Fe, HARDNESS, TOC			
	X		
	X		
	X		

of Containers
2 Preservation Code
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:
F = Ficed
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)
-TRIZWA

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: 1768 East Mountain Rd-1
EXTRACT & HOLD EPA Method 537: 1768 East Mountain Rd-field blank & 1768 East Mountain 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

Detection Limit Requirements	Special Requirements
MA	MA MCP Required
	MCP Certification Form Required
CT	CT RCP Required
	RCP Certification Form Required
Other:	MA State DW Required
PWSID #	

Project Entity

<input type="checkbox"/> Government	<input type="checkbox"/> Municipality	<input type="checkbox"/> MWRA	<input type="checkbox"/> WRTA	<input type="checkbox"/> Other
<input type="checkbox"/> Federal	<input type="checkbox"/> 21 J	<input type="checkbox"/> School	<input type="checkbox"/> AIHA-LAP, LLC	
<input type="checkbox"/> City	<input type="checkbox"/> Brownfield	<input type="checkbox"/> MBTA		

Relinquished by: (signature) Date/Time: 11/17/17 8:00
Received by: (signature) Date/Time: 11/17/17 8:00
Relinquished by: (signature) Date/Time: 11/17/17 8:00

Relinquished by: (signature) Date/Time:
Relinquished by: (signature) Date/Time:
Relinquished by: (signature) Date/Time:

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 BLF Date 11/8/17 Time 800

How were the samples received? In Cooler T No Cooler On Ice T No Ice
 Direct from Sampling Ambient Melted Ice

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 4.4, 5.4°C
 By Blank # Actual Temp -

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

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 Is splitting samples required? F
 Were trip blanks received? F On COC? NA

Do all samples have the proper pH? Acid T Base NA

Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-	<u>2</u>	500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic	<u>3</u>	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:

November 30, 2017

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

Project Location: 1768 East Mountain Rd., Westfield
Client Job Number:
Project Number: 183EM00170
Laboratory Work Order Number: 17K0468

Enclosed are results of analyses for samples received by the laboratory on November 8, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kerry K. McGee
Project Manager

Table of Contents

Sample Summary	3
Case Narrative	4
Sample Results	5
17K0468-01	5
17K0468-02	6
Sample Preparation Information	7
QC Data	8
Miscellaneous Organic Analyses	8
B190551	8
Flag/Qualifier Summary	9
Certifications	10
Chain of Custody/Sample Receipt	11



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: 11/30/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 183EM00170

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17K0468

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

PROJECT LOCATION: 1768 East Mountain Rd., Westfield

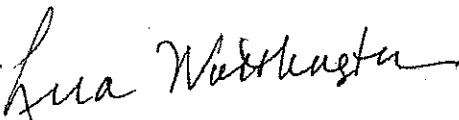
FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
1768 East Mountain Rd-field blank	17K0468-01	Drinking Water		EPA 537	
1768 East Mountain Rd-2	17K0468-02	Drinking Water		EPA 537	

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.



Lisa A. Worthington
Project Manager

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

Project Location: 1768 East Mountain Rd., Westfic

Sample Description:

Work Order: 17K0468

Date Received: 11/8/2017

Field Sample #: 1768 East Mountain Rd-field blank

Sampled: 11/7/2017 11:10

Sample ID: 17K0468-01

Sample Matrix: Drinking Water

Miscellaneous Organic Analyses

Analyte	Results	MCL/SMCL		Units	Dilution	Flag/Qual	Method	Date	Date/Time	Analyst
		RL	MA ORSG					Prepared	Analyzed	
Perfluoropentanoic acid (PFPeA)	ND	2.0		ng/L	1		EPA 537	11/9/17	11/28/17 19:29	BLM
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/28/17 19:29	BLM
Perfluorohexanoic acid (PFHxA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/28/17 19:29	BLM
Perfluoroheptanoic acid (PFHpA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/28/17 19:29	BLM
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/28/17 19:29	BLM
Perfluorooctanoic acid (PFOA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/28/17 19:29	BLM
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/28/17 19:29	BLM
Perfluorononanoic acid (PFNA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/28/17 19:29	BLM
Perfluorodecanoic acid (PFDA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/28/17 19:29	BLM
NMeFOSAA	ND	2.0		ng/L	1		EPA 537	11/9/17	11/28/17 19:29	BLM
Perfluoroundecanoic acid (PFUnA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/28/17 19:29	BLM
NEtFOSAA	ND	2.0		ng/L	1		EPA 537	11/9/17	11/28/17 19:29	BLM
Perfluorododecanoic acid (PFDoA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/28/17 19:29	BLM
Perfluorotridecanoic acid (PFTriDA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/28/17 19:29	BLM
Perfluorotetradecanoic acid (PFTA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/28/17 19:29	BLM
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
13C-PFHxA		79.2	70-130						11/28/17 19:29	
13C-PFDA		76.3	70-130						11/28/17 19:29	
d5-NEtFOSAA		76.3	70-130						11/28/17 19:29	

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

Project Location: 1768 East Mountain Rd., Westfie

Sample Description:

Work Order: 17K0468

Date Received: 11/8/2017

Field Sample #: 1768 East Mountain Rd-2

Sampled: 11/7/2017 11:26

Sample ID: 17K0468-02

Sample Matrix: Drinking Water

Miscellaneous Organic Analyses

Analyte	Results	MCL/SMCL			Units	Dilution	Flag/Qual	Method	Date	Date/Time	Analyst
		RL	MA	ORSG					Prepared	Analyzed	
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	2		ng/L	1	EPA 537	11/9/17	11/28/17 19:41	BLM	
Perfluorohexanoic acid (PFHxA)	ND	2.0	2		ng/L	1	EPA 537	11/9/17	11/28/17 19:41	BLM	
Perfluoroheptanoic acid (PFHpA)	ND	2.0	2		ng/L	1	EPA 537	11/9/17	11/28/17 19:41	BLM	
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	2		ng/L	1	EPA 537	11/9/17	11/28/17 19:41	BLM	
Perfluorooctanoic acid (PFOA)	ND	2.0	2		ng/L	1	EPA 537	11/9/17	11/28/17 19:41	BLM	
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	2		ng/L	1	EPA 537	11/9/17	11/28/17 19:41	BLM	
Perfluorononanoic acid (PFNA)	ND	2.0	2		ng/L	1	EPA 537	11/9/17	11/28/17 19:41	BLM	
Perfluorodecanoic acid (PFDA)	ND	2.0	2		ng/L	1	EPA 537	11/9/17	11/28/17 19:41	BLM	
NMeFOSAA	ND	2.0			ng/L	1	EPA 537	11/9/17	11/28/17 19:41	BLM	
Perfluoroundecanoic acid (PFUnA)	ND	2.0	2		ng/L	1	EPA 537	11/9/17	11/28/17 19:41	BLM	
NEtFOSAA	ND	2.0			ng/L	1	EPA 537	11/9/17	11/28/17 19:41	BLM	
Perfluorododecanoic acid (PFDoA)	ND	2.0	2		ng/L	1	EPA 537	11/9/17	11/28/17 19:41	BLM	
Perfluorotridecanoic acid (PFTtDA)	ND	2.0	2		ng/L	1	EPA 537	11/9/17	11/28/17 19:41	BLM	
Perfluorotetradecanoic acid (PFTA)	ND	2.0	2		ng/L	1	EPA 537	11/9/17	11/28/17 19:41	BLM	
Surrogates		% Recovery	Recovery Limits			Flag/Qual					
13C-PFHxA		92.4	70-130					11/28/17 19:41			
13C-PFDA		75.4	70-130					11/28/17 19:41			
d5-NEtFOSAA		89.2	70-130					11/28/17 19:41			



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
17K0468-01 [1768 East Mountain Rd-field blank]	B190551	250	1.00	11/09/17
17K0468-02 [1768 East Mountain Rd-2]	B190551	250	1.00	11/09/17

QUALITY CONTROL

Miscellaneous Organic Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B190551 - EPA 537										
Blank (B190551-BLK1)										
Prepared: 11/09/17 Analyzed: 11/19/17										
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	2.0	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	2.0	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	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							
Perfluorodecanoic acid (PFDA)	ND	2.0	ng/L							
NMeFOSAA	ND	2.0	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L							
NEtFOSAA	ND	2.0	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	2.0	ng/L							
Perfluorotridecanoic acid (PFTriDA)	ND	2.0	ng/L							
Perfluorotetradecanoic acid (PFTA)	ND	2.0	ng/L							
Surrogate: 13C-PFHxA	35.2		ng/L	40.0		87.9	70-130			
Surrogate: 13C-PFDA	36.8		ng/L	40.0		92.0	70-130			
Surrogate: d5-NEtFOSAA	143		ng/L	160		89.1	70-130			
LCS (B190551-BS1)										
Prepared: 11/09/17 Analyzed: 11/19/17										
Perfluorobutanesulfonic acid (PFBS)	10.2	2.0	ng/L	8.85		115	70-130			
Perfluorohexanoic acid (PFHxA)	9.49	2.0	ng/L	10.0		94.9	70-130			
Perfluoroheptanoic acid (PFHpA)	9.09	2.0	ng/L	10.0		90.9	70-130			
Perfluorohexanesulfonic acid (PFHxS)	10.7	2.0	ng/L	9.10		117	70-130			
Perfluorooctanoic acid (PFOA)	10.9	2.0	ng/L	10.0		109	70-130			
Perfluorooctanesulfonic acid (PFOS)	9.14	2.0	ng/L	9.25		98.8	70-130			
Perfluorononanoic acid (PFNA)	10.1	2.0	ng/L	10.0		101	70-130			
Perfluorodecanoic acid (PFDA)	11.3	2.0	ng/L	10.0		113	70-130			
NMeFOSAA	10.6	2.0	ng/L	10.0		106	70-130			
Perfluoroundecanoic acid (PFUnA)	10.6	2.0	ng/L	10.0		106	70-130			
NEtFOSAA	11.5	2.0	ng/L	10.0		115	70-130			
Perfluorododecanoic acid (PFDoA)	9.96	2.0	ng/L	10.0		99.6	70-130			
Perfluorotridecanoic acid (PFTriDA)	9.54	2.0	ng/L	10.0		95.4	70-130			
Perfluorotetradecanoic acid (PFTA)	10.5	2.0	ng/L	10.0		105	70-130			
Surrogate: 13C-PFHxA	37.9		ng/L	40.0		94.9	70-130			
Surrogate: 13C-PFDA	40.7		ng/L	40.0		102	70-130			
Surrogate: d5-NEtFOSAA	154		ng/L	160		96.1	70-130			



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.



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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>EPA 537 in Drinking Water</i>	
Perfluoropentanoic acid (PFPeA)	NH,VT-DW
Perfluorobutanesulfonic acid (PFBS)	VT-DW,ME
Perfluorohexanoic acid (PFHxA)	VT-DW,ME
Perfluoroheptanoic acid (PFHpA)	VT-DW,ME
Perfluorohexanesulfonic acid (PFHxS)	VT-DW,ME
Perfluorooctanoic acid (PFOA)	NH,NY,VT-DW,ME
Perfluorooctanesulfonic acid (PFOS)	NH,NY,VT-DW,ME
Perfluorononanoic acid (PFNA)	VT-DW,ME
Perfluorodecanoic acid (PFDA)	VT-DW,ME
NMeFOSAA	VT-DW
Perfluoroundecanoic acid (PFUnA)	VT-DW,ME
NEtFOSAA	VT-DW
Perfluorododecanoic acid (PFDoA)	VT-DW,ME
Perfluorotridecanoic acid (PFTriDA)	VT-DW,ME
Perfluorotetradecanoic acid (PFTA)	VT-DW,ME

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 Public Health	PH-0567	09/30/2019
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	09/6/2018
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018



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

http://www.contestlabs.com
 CHAIN OF CUSTODY RECORD

Doc # 381 Rev 1_03242017
 39 Spruce Street
 East Longmeadow, MA 01028

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: _____
 Fax To #: _____

Company Name: ATC Group Services
Address: 73 William Franks Drive, West Springfield, MA
Phone: (413) 781-0070

Project Name: 1768 East Mountain Rd, Westfield
Project Location: 1768 East Mountain Rd, Westfield
Project Number: 183EM00170
Project Manager: Rob Smith

Con-Test Quote Name/Number:
Invoice Recipient:
Sampled By: Elizabeth O'Connor

Con-Test Work Order #	Client Sample ID / Description	Sampling Date/Time	Field Date/Time	Composite	Matrix Code	Container Code
01	1768 East Mountain Rd - field blank	11/17/2017	11:10	X	DW	U
02	1768 East Mountain Rd - 1	11/17/2017	11:25	X	DW	U
	1768 East Mountain Rd - 2	11/17/2017	11:26	X	DW	U

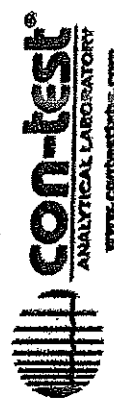
Comments: RUN EPA Method 537: 1768 East Mountain Rd-1
 EXTRACT & HOLD EPA Method 537: 1768 East Mountain Rd-field blank & 1768 East Mountain Rd-2
 HOLD As, Fe, Hardness, TOC

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) [Signature] Date/Time: 11/17 8:00
Received by: (signature) [Signature] Date/Time: 11/17 8:00
Relinquished by: (signature) [Signature] Date/Time: _____

MA State DW Required
MCP Certification Form Required
CT RCP Required
RCP Certification Form Required

Project Entity
 Government Municipality MWRA Other
 Federal 21 J School Chromatogram
 City Brownfield MBTA AIHA-LAP, LLC



# of Containers	Preservation Code	Container Code
5	O	P
1	N	P
2	H	V

ANALYSIS REQUESTED
 TOTAL As, Fe, HARDNESS, TOC
 EPA METHOD 537

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:
 1 = 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 = Tedia Bag
 O = Other (please define)

PCB ONLY
 Soxhlet
 Non Soxhlet

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 PLJ Date 11/8/17 Time 800

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

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 4.4, 5.4 C
 By Blank # _____ Actual Temp - _____

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

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? NA MS/MSD? NA

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? NA

Do all samples have the proper pH? Acid NA Base NA

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	

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:

[Empty box for 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

Matthew A. Beaton
Secretary

Karyn E. Polito
Lieutenant Governor

Martin Suuberg
Commissioner

December 11, 2017

Daniel and Laura Misseri
89 Ridge Trail Road
Westfield, MA 01085

RE: Notice of Environmental Sampling
89 Ridge Trail Road
Westfield Private Well Sampling

Dear Mr. & Mrs. Misseri:

The Department of Environmental Protection (DEP) collected a drinking water sample from your private well on November 7, 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 7.5 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. Based on the concentrations of PFC compounds detected 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. However, additional sampling may be required in the future. The Department thanks you for granting access to your property.

This information is available in alternate format. Contact Michelle Waters-Ekanem, Director of Diversity/Civil Rights at 617-292-5751.

TTY# MassRelay Service 1-800-439-2370

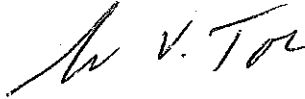
MassDEP Website: www.mass.gov/dep

Printed on Recycled Paper

Notice of Environmental Sampling
89 Ridge Trail Road
Westfield, RTN: 1-20093
Page 2 of 2

If you have any questions pertaining to this Notice of Environmental Sampling or with the informationn 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

cc : 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



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

NOTICE OF ENVIRONMENTAL SAMPLING

1 - 20093

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: 175 Falcon Drive
City/Town: Westfield Zip Code: 01085

B. This notice is being provided to the following party:

1. Name: Daniel & Laura Misseri
2. Street Address: 89 Ridge Trail Road
City/Town: Westfield Zip Code: 01085

C. This notice is being given to inform its recipient (the party listed in Section B):

- 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
- 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
- 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 89 Ridge Trail Road
City/Town: Westfield Zip Code: 01085

2. MCP phase of work during which the sampling will be/has been conducted:

- | | |
|---|--|
| <input checked="" type="checkbox"/> Immediate Response Action | <input type="checkbox"/> Phase III Feasibility Evaluation |
| <input type="checkbox"/> Release Abatement Measure | <input type="checkbox"/> Phase IV Remedy Implementation Plan |
| <input type="checkbox"/> Utility-related Abatement Measure | <input type="checkbox"/> Phase V/Remedy Operation Status |
| <input type="checkbox"/> Phase I Initial Site Investigation | <input type="checkbox"/> Post-Temporary Solution Operation, Maintenance and Monitoring |
| <input type="checkbox"/> Phase II Comprehensive Site Assessment | <input type="checkbox"/> Other _____ |
- (specify)

3. Description of property where sampling will be/has been conducted:

- residential commercial industrial school/playground Other _____
- (specify)

4. Description of the sampling locations and types (e.g., soil, groundwater, indoor air, soil gas) to the extent known at the time of this notice.

Drinking water samples were collected from the private well located on the above-referenced property and analyzed for PHAS via EPA Method 537.1.1.

E. Contact information related to the party providing this notice:

Contact Name: MA Department of Environmental Protection
Street Address: 436 Dwight Street
City/Town: Springfield Zip Code: 01103
Telephone: (413) 784-1100 Email: david.bachand.jr@state.ma.us



NOTICE OF ENVIRONMENTAL SAMPLING

1 - 20093

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation of a release for which a notification to MassDEP has been made under the Massachusetts Contingency Plan (310 CMR 40.0300) on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/eea/agencies/massdep/cleanup>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://public.dep.state.ma.us/SearchableSites2/Search.aspx> to view site-specific files on-line or <http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html> if you would like to make an appointment to see these files in person. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.



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

November 22, 2017

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

Project Location: 89 Ridge Trail Rd., Westfield
Client Job Number:
Project Number: 183EM00170
Laboratory Work Order Number: 17K0441

Enclosed are results of analyses for samples received by the laboratory on November 8, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Kerry K. McGee". The signature is written in a cursive, flowing style.

Kerry K. McGee
Project Manager

Table of Contents

Sample Summary	3
Case Narrative	4
Sample Results	5
17K0441-01	5
Sample Preparation Information	6
QC Data	7
Miscellaneous Organic Analyses	7
B190547	7
Flag/Qualifier Summary	8
Certifications	9
Chain of Custody/Sample Receipt	10



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: 11/22/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 183EM00170

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17K0441

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

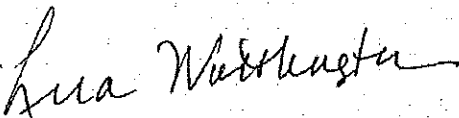
PROJECT LOCATION: 89 Ridge Trail Rd., Westfield

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
89 Ridge Trail Rd-1	17K0441-01	Drinking Water		EPA 537	

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.

A handwritten signature in black ink, appearing to read "Lisa A. Worthington". The signature is fluid and cursive, written over a light grey grid background.

Lisa A. Worthington
Project Manager

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

Project Location: 89 Ridge Trail Rd., Westfield

Sample Description:

Work Order: 17K0441

Date Received: 11/8/2017

Field Sample #: 89 Ridge Trail Rd-1

Sampled: 11/7/2017 12:12

Sample ID: 17K0441-01

Sample Matrix: Drinking Water

Miscellaneous Organic Analyses

Analyte	Results	MCL/SMCL		Units	Dilution	Flag/Qual	Method	Date	Date/Time	Analyst
		RL	MA ORSG					Prepared	Analyzed	
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/17/17 18:45	BLM
# Perfluorohexanoic acid (PFHxA)	2.1	2.0	2	ng/L	1		EPA 537	11/9/17	11/17/17 18:45	BLM
Perfluoroheptanoic acid (PFHpA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/17/17 18:45	BLM
# Perfluorohexanesulfonic acid (PFHxS)	2.1	2.0	2	ng/L	1		EPA 537	11/9/17	11/17/17 18:45	BLM
# Perfluorooctanoic acid (PFOA)	4.3	2.0	2	ng/L	1		EPA 537	11/9/17	11/17/17 18:45	BLM
# Perfluorooctanesulfonic acid (PFOS)	3.2	2.0	2	ng/L	1		EPA 537	11/9/17	11/17/17 18:45	BLM
Perfluorononanoic acid (PFNA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/17/17 18:45	BLM
Perfluorodecanoic acid (PFDA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/17/17 18:45	BLM
NMeFOSAA	ND	2.0		ng/L	1		EPA 537	11/9/17	11/17/17 18:45	BLM
Perfluoroundecanoic acid (PFUnA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/17/17 18:45	BLM
NEFOSAA	ND	2.0		ng/L	1		EPA 537	11/9/17	11/17/17 18:45	BLM
Perfluorododecanoic acid (PFDoA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/17/17 18:45	BLM
Perfluorotridecanoic acid (PFTrDA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/17/17 18:45	BLM
Perfluorotetradecanoic acid (PFTA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/17/17 18:45	BLM
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
13C-PFHxA		129	70-130						11/17/17 18:45	
13C-PFDA		114	70-130						11/17/17 18:45	
d5-NEFOSAA		71.6	70-130						11/17/17 18:45	



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
17K0441-01 [89 Ridge Trail Rd-1]	B190547	250	1.00	11/09/17

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 B190547 - EPA S37										
Blank (B190547-BLK1)										
Prepared: 11/09/17 Analyzed: 11/19/17										
Perfluoropentanoic acid (PFPeA)	ND	2.0	ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	2.0	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	2.0	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	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							
Perfluorodecanoic acid (PFDA)	ND	2.0	ng/L							
NMeFOSAA	ND	2.0	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L							
NEtFOSAA	ND	2.0	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	2.0	ng/L							
Perfluorotridecanoic acid (PFTriDA)	ND	2.0	ng/L							
Perfluorotetradecanoic acid (PFTA)	ND	2.0	ng/L							
Surrogate: 13C-PFHxA	35.2		ng/L	40.0		88.0	70-130			
Surrogate: 13C-PFDA	34.4		ng/L	40.0		86.1	70-130			
Surrogate: d5-NEtFOSAA	150		ng/L	160		93.7	70-130			
LCS (B190547-BS1)										
Prepared: 11/09/17 Analyzed: 11/17/17										
Perfluorobutanesulfonic acid (PFBS)	1.99	2.0	ng/L	1.77		112	50-150			
Perfluorohexanoic acid (PFHxA)	2.63	2.0	ng/L	2.00		132	50-150			
Perfluoroheptanoic acid (PFHpA)	1.95	2.0	ng/L	2.00		97.5	50-150			
Perfluorohexanesulfonic acid (PFHxS)	2.16	2.0	ng/L	1.82		119	50-150			
Perfluorooctanoic acid (PFOA)	2.56	2.0	ng/L	2.00		128	50-150			
Perfluorooctanesulfonic acid (PFOS)	2.32	2.0	ng/L	1.85		126	50-150			
Perfluorononanoic acid (PFNA)	2.87	2.0	ng/L	2.00		144	50-150			
Perfluorodecanoic acid (PFDA)	2.76	2.0	ng/L	2.00		138	50-150			
NMeFOSAA	1.63	2.0	ng/L	2.00		81.6	50-150			
Perfluoroundecanoic acid (PFUnA)	2.64	2.0	ng/L	2.00		132	50-150			
NEtFOSAA	1.59	2.0	ng/L	2.00		79.7	50-150			
Perfluorododecanoic acid (PFDoA)	2.28	2.0	ng/L	2.00		114	50-150			
Perfluorotridecanoic acid (PFTriDA)	2.25	2.0	ng/L	2.00		113	50-150			
Perfluorotetradecanoic acid (PFTA)	2.45	2.0	ng/L	2.00		122	50-150			
Surrogate: 13C-PFHxA	43.0		ng/L	40.0		107	70-130			
Surrogate: 13C-PFDA	49.2		ng/L	40.0		123	70-130			
Surrogate: d5-NEtFOSAA	112		ng/L	160		70.2	70-130			



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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.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>EPA 537 in Drinking Water</i>	
Perfluorobutanesulfonic acid (PFBS)	VT-DW,ME
Perfluorohexanoic acid (PFHxA)	VT-DW,ME
Perfluoroheptanoic acid (PFHpA)	VT-DW,ME
Perfluorohexanesulfonic acid (PFHxS)	VT-DW,ME
Perfluorooctanoic acid (PFOA)	NH,NY,VT-DW,ME
Perfluorooctanesulfonic acid (PFOS)	NH,NY,VT-DW,ME
Perfluorononanoic acid (PFNA)	VT-DW,ME
Perfluorodecanoic acid (PFDA)	VT-DW,ME
NMeFOSAA	VT-DW
Perfluoroundecanoic acid (PFUnA)	VT-DW,ME
NEtFOSAA	VT-DW
Perfluorododecanoic acid (PFDoA)	VT-DW,ME
Perfluorotridecanoic acid (PFTrDA)	VT-DW,ME
Perfluorotetradecanoic acid (PFTTA)	VT-DW,ME

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 Public Health	PH-0567	09/30/2019
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	09/6/2018
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

17k0441
<http://www.contestlabs.com>
 CHAIN OF CUSTODY RECORD

Doc # 381 Rev 1_03242017
 39 Spruce Street
 East Longmeadow, MA 01028



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

Company Name: ATC Group Services
Address: 73 William Franks Drive, West Springfield, MA (413) 781-0070
Project Name: 89 Ridge Trail Rd, Westfield
Project Location: 89 Ridge Trail Rd, Westfield
Project Number: 183EM00170
Project Manager: Rob Smith
Con-Test Quote Name/Number:
Invoice Recipient:
Sampled By: Elizabeth O'Connor

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:
 Fax To #:

Con-Test Work Order #	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc. Code
	89 Ridge Trail Rd - field blank	11/17/17	12:02		X	DW	U
01	89 Ridge Trail Rd - 1	11/17/17	12:12		X	DW	U
	89 Ridge Trail Rd - 2	11/17/17	12:13		X	DW	U

ANALYSIS REQUESTED
 TOTAL As, Fe, HARDNESS, TOC
 EPA METHOD 537

of Containers
 2 Preservation Code
 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)

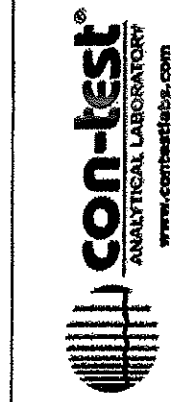
2 Preservation Codes:
 I = Iced
 H = HCl
 M = Methanol
 N = Nitric Acid
 S = Sulfuric Acid
 B = Sodium Bisulfate
 X = Sodium Hydroxide
 T = Sodium Trisulfate
 O = Other (please define)
 TRIZMA

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: 89 Ridge Trail Rd-1
 EXTRACT & HOLD EPA Method 537: 89 Ridge Trail Rd-field blank & 89 Ridge Trail 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

Detection Limit Requirements	Special Requirements
MA	MA MCP Required <input type="checkbox"/>
	MCP Certification Form Required <input type="checkbox"/>
CT	CT RCP Required <input type="checkbox"/>
	RCP Certification Form Required <input type="checkbox"/>
Other:	MA State DW Required <input type="checkbox"/>
	PWSID #
Project Entity	Municipality <input type="checkbox"/> WRTA <input type="checkbox"/> Other <input type="checkbox"/>
	Government <input type="checkbox"/> MWRA <input type="checkbox"/> Chromatogram <input type="checkbox"/>
	Federal <input type="checkbox"/> Z1 J <input type="checkbox"/> School <input type="checkbox"/> AIHA-LAP, LLC <input type="checkbox"/>
	City <input type="checkbox"/> Brownfield <input type="checkbox"/> MBTA <input type="checkbox"/>



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



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 BLF Date 11/8/17 Time 800

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

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp -4.4, 5.4°C
 By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA
 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 Client T Analysis T Sampler Name T
 pertinent Information? Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

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? F Is splitting samples required? F
 Were trip blanks received? F On COC? NA

Do all samples have the proper pH? Acid T Base NA

Vials	Containers			
Unp-	1 Liter Amb.		1 Liter Plastic	16 oz Amb.
HCL-	500 mL Amb.	<u>2</u>	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	

Unused Media

Vials	Containers			
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:



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

November 30, 2017

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

Project Location: 89 Ridge Trail Rd., Westfield
Client Job Number:
Project Number: 183EM00170
Laboratory Work Order Number: 17K0456

Enclosed are results of analyses for samples received by the laboratory on November 8, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Kerry K. McGee". The signature is written in a cursive style with a large, prominent "K" at the beginning.

Kerry K. McGee
Project Manager

Table of Contents

Sample Summary	3
Case Narrative	4
Sample Results	5
17K0456-01	5
17K0456-02	6
Sample Preparation Information	7
QC Data	8
Miscellaneous Organic Analyses	8
B190551	8
Flag/Qualifier Summary	9
Certifications	10
Chain of Custody/Sample Receipt	11



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: 11/30/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 183EM00170

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17K0456

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

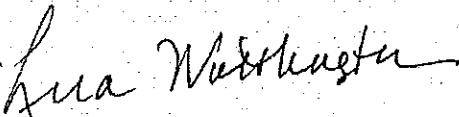
PROJECT LOCATION: 89 Ridge Trail Rd., Westfield

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
89 Ridge Trail Rd-field blank	17K0456-01	Drinking Water		EPA 537	
89 Ridge Trail Rd-2	17K0456-02	Drinking Water		EPA 537	

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.

A handwritten signature in black ink, appearing to read "Lisa A. Worthington". The signature is written in a cursive, flowing style.

Lisa A. Worthington
Project Manager



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

Project Location: 89 Ridge Trail Rd., Westfield

Sample Description:

Work Order: 17K0456

Date Received: 11/8/2017

Field Sample #: 89 Ridge Trail Rd-field blank

Sampled: 11/7/2017 12:02

Sample ID: 17K0456-01

Sample Matrix: Drinking Water

Miscellaneous Organic Analyses

Analyte	Results	MCL/SMCL		Units	Dilution	Flag/Qual	Method	Date	Date/Time	Analyst
		RL	MA ORSG					Prepared	Analyzed	
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/28/17 17:59	BLM
Perfluorohexanoic acid (PFHxA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/28/17 17:59	BLM
Perfluoroheptanoic acid (PFHpA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/28/17 17:59	BLM
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/28/17 17:59	BLM
Perfluorooctanoic acid (PFOA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/28/17 17:59	BLM
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/28/17 17:59	BLM
Perfluorononanoic acid (PFNA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/28/17 17:59	BLM
Perfluorodecanoic acid (PFDA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/28/17 17:59	BLM
NMeFOSAA	ND	2.0		ng/L	1		EPA 537	11/9/17	11/28/17 17:59	BLM
Perfluoroundecanoic acid (PFUnA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/28/17 17:59	BLM
NEtFOSAA	ND	2.0		ng/L	1		EPA 537	11/9/17	11/28/17 17:59	BLM
Perfluorododecanoic acid (PFDoA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/28/17 17:59	BLM
Perfluorotridecanoic acid (PFTriDA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/28/17 17:59	BLM
Perfluorotetradecanoic acid (PFTA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/28/17 17:59	BLM
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
13C-PFHxA		78.7	70-130						11/28/17 17:59	
13C-PFDA		77.5	70-130						11/28/17 17:59	
d5-NEtFOSAA		70.7	70-130						11/28/17 17:59	

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

Project Location: 89 Ridge Trail Rd., Westfield

Sample Description:

Work Order: 17K0456

Date Received: 11/8/2017

Field Sample #: 89 Ridge Trail Rd-2

Sampled: 11/7/2017 12:13

Sample ID: 17K0456-02

Sample Matrix: Drinking Water

Miscellaneous Organic Analyses

Analyte	Results	MCL/SMCL		Units	Dilution	Flag/Qual	Method	Date	Date/Time	Analyst
		RL	MA ORSG					Prepared	Analyzed	
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/28/17 18:12	BLM
Perfluorohexanoic acid (PFHxA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/28/17 18:12	BLM
Perfluoroheptanoic acid (PFHpA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/28/17 18:12	BLM
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/28/17 18:12	BLM
# Perfluorooctanoic acid (PFOA)	3.4	2.0	2	ng/L	1		EPA 537	11/9/17	11/28/17 18:12	BLM
# Perfluorooctanesulfonic acid (PFOS)	2.5	2.0	2	ng/L	1		EPA 537	11/9/17	11/28/17 18:12	BLM
Perfluorononanoic acid (PFNA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/28/17 18:12	BLM
Perfluorodecanoic acid (PFDA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/28/17 18:12	BLM
NMeFOSAA	ND	2.0		ng/L	1		EPA 537	11/9/17	11/28/17 18:12	BLM
Perfluoroundecanoic acid (PFUnA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/28/17 18:12	BLM
NEtFOSAA	ND	2.0		ng/L	1		EPA 537	11/9/17	11/28/17 18:12	BLM
Perfluorododecanoic acid (PFDoA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/28/17 18:12	BLM
Perfluorotridecanoic acid (PFTriDA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/28/17 18:12	BLM
Perfluorotetradecanoic acid (PFTA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/28/17 18:12	BLM
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
I3C-PFHxA		91.0	70-130						11/28/17 18:12	
I3C-PFDA		85.4	70-130						11/28/17 18:12	
d5-NEtFOSAA		79.2	70-130						11/28/17 18:12	



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
17K0456-01 [89 Ridge Trail Rd-field blank]	B190551	250	1.00	11/09/17
17K0456-02 [89 Ridge Trail Rd-2]	B190551	250	1.00	11/09/17

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	Limit	RPD RPD	Limit	Notes
Batch B190551 - EPA 537										
Blank (B190551-BLK1)										
Prepared: 11/09/17 Analyzed: 11/19/17										
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	2.0	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	2.0	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	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							
Perfluorodecanoic acid (PFDA)	ND	2.0	ng/L							
NMeFOSAA	ND	2.0	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L							
NEtFOSAA	ND	2.0	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	2.0	ng/L							
Perfluorotridecanoic acid (PFTrDA)	ND	2.0	ng/L							
Perfluorotetradecanoic acid (PFTA)	ND	2.0	ng/L							
Surrogate: 13C-PFHxA	35.2		ng/L	40.0		87.9	70-130			
Surrogate: 13C-PFDA	36.8		ng/L	40.0		92.0	70-130			
Surrogate: d5-NEtFOSAA	143		ng/L	160		89.1	70-130			
LCS (B190551-BS1)										
Prepared: 11/09/17 Analyzed: 11/19/17										
Perfluorobutanesulfonic acid (PFBS)	10.2	2.0	ng/L	8.85		115	70-130			
Perfluorohexanoic acid (PFHxA)	9.49	2.0	ng/L	10.0		94.9	70-130			
Perfluoroheptanoic acid (PFHpA)	9.09	2.0	ng/L	10.0		90.9	70-130			
Perfluorohexanesulfonic acid (PFHxS)	10.7	2.0	ng/L	9.10		117	70-130			
Perfluorooctanoic acid (PFOA)	10.9	2.0	ng/L	10.0		109	70-130			
Perfluorooctanesulfonic acid (PFOS)	9.14	2.0	ng/L	9.25		98.8	70-130			
Perfluorononanoic acid (PFNA)	10.1	2.0	ng/L	10.0		101	70-130			
Perfluorodecanoic acid (PFDA)	11.3	2.0	ng/L	10.0		113	70-130			
NMeFOSAA	10.6	2.0	ng/L	10.0		106	70-130			
Perfluoroundecanoic acid (PFUnA)	10.6	2.0	ng/L	10.0		106	70-130			
NEtFOSAA	11.5	2.0	ng/L	10.0		115	70-130			
Perfluorododecanoic acid (PFDoA)	9.96	2.0	ng/L	10.0		99.6	70-130			
Perfluorotridecanoic acid (PFTTrDA)	9.54	2.0	ng/L	10.0		95.4	70-130			
Perfluorotetradecanoic acid (PFTA)	10.5	2.0	ng/L	10.0		105	70-130			
Surrogate: 13C-PFHxA	37.9		ng/L	40.0		94.9	70-130			
Surrogate: 13C-PFDA	40.7		ng/L	40.0		102	70-130			
Surrogate: d5-NEtFOSAA	151		ng/L	160		96.1	70-130			



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.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>EPA 537 in Drinking Water</i>	
Perfluorobutanesulfonic acid (PFBS)	VT-DW,ME
Perfluorohexanoic acid (PFHxA)	VT-DW,ME
Perfluoroheptanoic acid (PFHpA)	VT-DW,ME
Perfluorohexanesulfonic acid (PFHxS)	VT-DW,ME
Perfluorooctanoic acid (PFOA)	NH,NY,VT-DW,ME
Perfluorooctanesulfonic acid (PFOS)	NH,NY,VT-DW,ME
Perfluorononanoic acid (PFNA)	VT-DW,ME
Perfluorodecanoic acid (PFDA)	VT-DW,ME
NMeFOSAA	VT-DW
Perfluoroundecanoic acid (PFUnA)	VT-DW,ME
NEFOSAA	VT-DW
Perfluorododecanoic acid (PFDoA)	VT-DW,ME
Perfluorotridecanoic acid (PFTrDA)	VT-DW,ME
Perfluorotetradecanoic acid (PFTA)	VT-DW,ME

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 Public Health	PH-0567	09/30/2019
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	09/6/2018
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

Doc # 381 Rev 1_03242017
 39 Spruce Street
 East Longmeadow, MA 01028

http://www.contestlabs.com
CHAIN OF CUSTODY RECORD



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

Company Name: ATC Group Services
Address: 73 William Franks Drive, West Springfield, MA
Phone: (413) 781-0070
Project Name: 89 Ridge Trail Rd, Westfield
Project Location: 89 Ridge Trail Rd, Westfield
Project Number: 183EM00170
Project Manager: Rob Smith
Con-Test Quote Name/Number:
Invoice Recipient:
Sampled By: Elizabeth O'Connor

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:
 Fax To #:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
										ANALYSIS REQUESTED																																																																																									
										TOTAL AS, Fe, HARDNESS, TOC																																																																																									
										EPA METHOD 537																																																																																									

Matrix Codes: GW = Ground Water WW = Waste Water DW = Drinking Water A = Air S = Soil SL = Sludge SOL = Solid O = Other (please define)	Preservation Codes: T = Iced H = HCL M = Methanol N = Nitric Acid S = Sulfuric Acid B = Sodium Bisulfate X = Sodium Hydroxide T = Sodium Hydroxide	Container Codes: A = Amber Glass G = Glass P = Plastic ST = Sterile V = Vial S = Stimma Canister T = Tedlar Bag O = Other (please define)	PCB ONLY <input type="checkbox"/> Soxhlet <input type="checkbox"/> Non Soxhlet
--	---	--	---

Comments: RUN EPA Method 537: 89 Ridge Trail Rd-1 EXTRACT & HOLD EPA Method 537: 89 Ridge Trail Rd-field blank & 89 Ridge Trail 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) <i>Elizabeth O'Connor</i>	Date/Time: 11/17 8:00	Detection Limit Requirements: MA	Special Requirements: MA MCP Required
Received by: (signature) <i>Elizabeth O'Connor</i>	Date/Time: 11/17 8:00	MCP Certification Form Required: <input type="checkbox"/>	CT RCP Required: <input type="checkbox"/>
Relinquished by: (signature)	Date/Time:	RCP Certification Form Required: <input type="checkbox"/>	MA State DW Required: <input type="checkbox"/>
Relinquished by: (signature)	Date/Time:	Other:	PWSID #:
Relinquished by: (signature)	Date/Time:	Project Entity:	Other:
Relinquished by: (signature)	Date/Time:	<input type="checkbox"/> Government	<input type="checkbox"/> Municipality
Relinquished by: (signature)	Date/Time:	<input type="checkbox"/> Federal	<input type="checkbox"/> 21 J
Relinquished by: (signature)	Date/Time:	<input type="checkbox"/> City	<input type="checkbox"/> Brownfield
		<input type="checkbox"/> MWRA	<input type="checkbox"/> School
		<input type="checkbox"/> WRTA	<input type="checkbox"/> MBTA
		<input type="checkbox"/> Chromatogram	<input type="checkbox"/> AIHA-LAP, LLC



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 RF Date 11/8/17 Time 800

How were the samples received? In Cooler T No Cooler On Ice T No Ice
 Direct from Sampling Ambient Melted Ice

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 4.4, 5.4 °C
 By Blank # Actual Temp -

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

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? NA MS/MSD? NA

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? NA

Do all samples have the proper pH? Acid NA Base NA

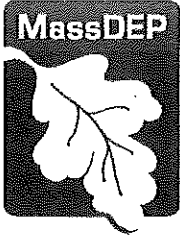
Unp-	1 Liter Amb.	1 Liter Plastic	16 oz Amb.
HCL-	500 mL Amb.	500 mL Plastic	8oz Amb/Clear
Meoh-	250 mL Amb.	250 mL Plastic	4oz Amb/Clear
Bisulfate-	Col./Bacteria	Flashpoint	2oz Amb/Clear
DI-	Other Plastic	Other Glass	Encore
Thiosulfate-	SOC Kit	Plastic Bag	Frozen:
Sulfuric-	Perchlorate	Ziplock	

Un-used 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:

(Empty box for 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

December 11, 2017

Jeffery and Theresa Neece
52 Ridge Trail Road
Westfield, MA 01085

RE: Notice of Environmental Sampling
52 Ridge Trail Road
Westfield Private Well Sampling

Dear Mr. & Mrs. Neece:

The Department of Environmental Protection (DEP) collected a drinking water sample from your private well on November 7, 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 8 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. Based on the concentrations of PFC compounds detected 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. However, additional sampling may be required in the future. The Department thanks you for granting access to your property.

This information is available in alternate format. Contact Michelle Waters-Ekanem, Director of Diversity/Civil Rights at 617-292-5751.

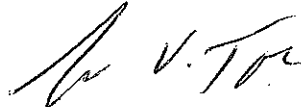
TTY# MassRelay Service 1-800-439-2370

MassDEP Website: www.mass.gov/dep

Printed on Recycled Paper

If you have any questions pertaining to this Notice of Environmental Sampling or with the informationn 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

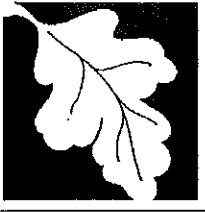
¹ Fact Sheet PFOA & PFOS Drinking Water Health Advisories. EPA, EPA 800 F-16-003, June 2016

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

cc : 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



NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

1 - 20093

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: 175 Falcon Drive
City/Town: Westfield Zip Code: 01085

B. This notice is being provided to the following party:

1. Name: Jeffery and Theresa Neece
2. Street Address: 52 Ridge Trail Road
City/Town: Westfield Zip Code: 01085

C. This notice is being given to inform its recipient (the party listed in Section B):

- 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
- 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
- 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 52 Ridge Trail Road
City/Town: Westfield Zip Code: 01085

2. MCP phase of work during which the sampling will be/has been conducted:

- | | |
|---|--|
| <input checked="" type="checkbox"/> Immediate Response Action | <input type="checkbox"/> Phase III Feasibility Evaluation |
| <input type="checkbox"/> Release Abatement Measure | <input type="checkbox"/> Phase IV Remedy Implementation Plan |
| <input type="checkbox"/> Utility-related Abatement Measure | <input type="checkbox"/> Phase V/Remedy Operation Status |
| <input type="checkbox"/> Phase I Initial Site Investigation | <input type="checkbox"/> Post-Temporary Solution Operation, Maintenance and Monitoring |
| <input type="checkbox"/> Phase II Comprehensive Site Assessment | <input type="checkbox"/> Other _____ |
- (specify)

3. Description of property where sampling will be/has been conducted:

- residential commercial industrial school/playground Other _____
- (specify)

4. Description of the sampling locations and types (e.g., soil, groundwater, indoor air, soil gas) to the extent known at the time of this notice.

Drinking water samples were collected from the private well located on the above-referenced property and analyzed for PHAS via EPA Method 537.1.1.

E. Contact information related to the party providing this notice:

Contact Name: MA Department of Environmental Protection
Street Address: 436 Dwight Street
City/Town: Springfield Zip Code: 01103
Telephone: (413) 784-1100 Email: david.bachand,jr@state.ma.us



NOTICE OF ENVIRONMENTAL SAMPLING

1 - 20093

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation of a release for which a notification to MassDEP has been made under the Massachusetts Contingency Plan (310 CMR 40.0300) on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/eea/agencies/massdep/cleanup>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://public.dep.state.ma.us/SearchableSites2/Search.aspx> to view site-specific files on-line or <http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html> if you would like to make an appointment to see these files in person. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.



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

November 22, 2017

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

Project Location: 52 Ridge Trail Rd., Westfield
Client Job Number:
Project Number: 183EM00170
Laboratory Work Order Number: 17K0483

Enclosed are results of analyses for samples received by the laboratory on November 8, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Kerry K. McGee". The signature is written in a cursive, flowing style.

Kerry K. McGee
Project Manager

Table of Contents

Sample Summary	3
Case Narrative	4
Sample Results	5
17K0483-02	5
Sample Preparation Information	6
QC Data	7
Miscellaneous Organic Analyses	7
B190551	7
Flag/Qualifier Summary	8
Certifications	9
Chain of Custody/Sample Receipt	10



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: 11/22/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 183EM00170

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17K0483

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

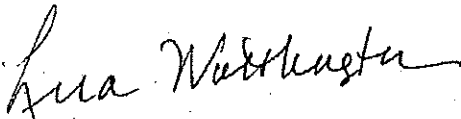
PROJECT LOCATION: 52 Ridge Trail Rd., Westfield

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
52 Ridge Trail Rd-1	17K0483-02	Drinking Water		EPA 537	

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.

A handwritten signature in black ink, appearing to read "Lisa A. Worthington". The signature is fluid and cursive, written over a white background.

Lisa A. Worthington
Project Manager



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

Project Location: 52 Ridge Trail Rd., Westfield

Sample Description:

Work Order: 17K0483

Date Received: 11/8/2017

Field Sample #: 52 Ridge Trail Rd-1

Sampled: 11/7/2017 15:13

Sample ID: 17K0483-02

Sample Matrix: Drinking Water

Miscellaneous Organic Analyses

Analyte	Results	MCL/SMCL		Units	Dilution	Flag/Qual	Method	Date	Date/Time	Analyst
		RL	MA ORSG					Prepared	Analyzed	
# Perfluorobutanesulfonic acid (PFBS)	4.6	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 19:47	BLM
# Perfluorohexanoic acid (PFHxA)	3.3	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 19:47	BLM
Perfluoroheptanoic acid (PFHpA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 19:47	BLM
# Perfluorohexanesulfonic acid (PFHxS)	3.4	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 19:47	BLM
# Perfluorooctanoic acid (PFOA)	4.9	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 19:47	BLM
# Perfluorooctanesulfonic acid (PFOS)	3.1	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 19:47	BLM
Perfluorononanoic acid (PFNA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 19:47	BLM
Perfluorodecanoic acid (PFDA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 19:47	BLM
NMeFOSAA	ND	2.0		ng/L	1		EPA 537	11/9/17	11/19/17 19:47	BLM
Perfluoroundecanoic acid (PFUnA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 19:47	BLM
NEtFOSAA	ND	2.0		ng/L	1		EPA 537	11/9/17	11/19/17 19:47	BLM
Perfluorododecanoic acid (PFDoA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 19:47	BLM
Perfluorotridecanoic acid (PFTriDA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 19:47	BLM
Perfluorotetradecanoic acid (PFTA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 19:47	BLM
Surrogates		% Recovery	Recovery Limits							
13C-PFHxA		130	70-130						11/19/17 19:47	
13C-PFDA		97.2	70-130						11/19/17 19:47	
d5-NEtFOSAA		73.4	70-130						11/19/17 19:47	

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
17K0483-02 [52 Ridge Trail Rd-1]	B190551	250	1.00	11/09/17

QUALITY CONTROL

Miscellaneous Organic Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B190551 - EPA 537										
Blank (B190551-BLK1)										
Prepared: 11/09/17 Analyzed: 11/19/17										
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	2.0	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	2.0	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	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							
Perfluorodecanoic acid (PFDA)	ND	2.0	ng/L							
NMeFOSAA	ND	2.0	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L							
NEtFOSAA	ND	2.0	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	2.0	ng/L							
Perfluorotridecanoic acid (PFTriDA)	ND	2.0	ng/L							
Perfluorotetradecanoic acid (PFTA)	ND	2.0	ng/L							
Surrogate: 13C-PFHxA	35.2		ng/L	40.0		87.9	70-130			
Surrogate: 13C-PFDA	36.8		ng/L	40.0		92.0	70-130			
Surrogate: d5-NEtFOSAA	143		ng/L	160		89.1	70-130			
LCS (B190551-BS1)										
Prepared: 11/09/17 Analyzed: 11/19/17										
Perfluorobutanesulfonic acid (PFBS)	10.2	2.0	ng/L	8.85		115	70-130			
Perfluorohexanoic acid (PFHxA)	9.49	2.0	ng/L	10.0		94.9	70-130			
Perfluoroheptanoic acid (PFHpA)	9.09	2.0	ng/L	10.0		90.9	70-130			
Perfluorohexanesulfonic acid (PFHxS)	10.7	2.0	ng/L	9.10		117	70-130			
Perfluorooctanoic acid (PFOA)	10.9	2.0	ng/L	10.0		109	70-130			
Perfluorooctanesulfonic acid (PFOS)	9.14	2.0	ng/L	9.25		98.8	70-130			
Perfluorononanoic acid (PFNA)	10.1	2.0	ng/L	10.0		101	70-130			
Perfluorodecanoic acid (PFDA)	11.3	2.0	ng/L	10.0		113	70-130			
NMeFOSAA	10.6	2.0	ng/L	10.0		106	70-130			
Perfluoroundecanoic acid (PFUnA)	10.6	2.0	ng/L	10.0		106	70-130			
NEtFOSAA	11.5	2.0	ng/L	10.0		115	70-130			
Perfluorododecanoic acid (PFDoA)	9.96	2.0	ng/L	10.0		99.6	70-130			
Perfluorotridecanoic acid (PFTriDA)	9.54	2.0	ng/L	10.0		95.4	70-130			
Perfluorotetradecanoic acid (PFTA)	10.5	2.0	ng/L	10.0		105	70-130			
Surrogate: 13C-PFHxA	37.9		ng/L	40.0		94.9	70-130			
Surrogate: 13C-PFDA	40.7		ng/L	40.0		102	70-130			
Surrogate: d5-NEtFOSAA	154		ng/L	160		96.1	70-130			

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.



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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>EPA 537 in Drinking Water</i>	
Perfluorobutanesulfonic acid (PFBS)	VT-DW,ME
Perfluorohexanoic acid (PFHxA)	VT-DW,ME
Perfluoroheptanoic acid (PFHpA)	VT-DW,ME
Perfluorohexanesulfonic acid (PFHxS)	VT-DW,ME
Perfluorooctanoic acid (PFOA)	NH,NY,VT-DW,ME
Perfluorooctanesulfonic acid (PFOS)	NH,NY,VT-DW,ME
Perfluorononanoic acid (PFNA)	VT-DW,ME
Perfluorodecanoic acid (PFDA)	VT-DW,ME
NMcFOSAA	VT-DW
Perfluoroundecanoic acid (PFUnA)	VT-DW,ME
NEtFOSAA	VT-DW
Perfluorododecanoic acid (PFDoA)	VT-DW,ME
Perfluorotridecanoic acid (PFTriDA)	VT-DW,ME
Perfluorotetradecanoic acid (PFTA)	VT-DW,ME

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 Public Health	PH-0567	09/30/2019
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	09/6/2018
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018



17K0483

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 CHAIN OF CUSTODY RECORD

Doc # 381 Rev 1_03242017
 39 Spruce Street
 East Longmeadow, MA 01028

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

Company Name: ATC Group Services
Address: 73 William Franks Drive, West Springfield, MA
Phone: (413) 781-0070
Project Name: 52 Ridge Trail Rd, Westfield
Project Location: 52 Ridge Trail Rd, Westfield
Project Number: 183EM00170
Project Manager: Rob Smith
Con-Test Quote Name/Number:
Invoice Recipient:
Sampled By: Elizabeth O'Connor

Con-Test Work Order #	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composites	Grab	Main Sample Code	Conc Code
01	Trip blank	11/17/2017	17:00				
02	52 Ridge Trail Rd - field blank	11/17/2017	15:01	X	DW	U	X
	52 Ridge Trail Rd - 1	11/17/2017	15:13	X	DW	U	X
	52 Ridge Trail Rd - 2	11/17/2017	15:14	X	DW	U	X

Comments:
 RUN EPA Method 537: Trip Blank and 52 Ridge Trail Rd-1
 EXTRACT & HOLD EPA Method 537: 52 Ridge Trail Rd-field blank & 52 Ridge Trail Rd-2
 HOLD As, Fe, Hardness, TOC

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: PDF EXCEL
Other:
CLP Like Data Pkg Required:
Email To:
Fax To #:

Special Requirements:
 MA MCP Required
 MCP Certification Form Required
 CT RCP Required
 RCP Certification Form Required
 MA State DW Required

Detection Limit Requirements:
 MA:
 CT:

Project Entity:
 Government Municipality WRTA
 Federal 21 J School MWRA Chromatogram
 City Brownfield MBTA AHA-LAP, LLC

PCB ONLY:
 Soxhlet
 Non Soxhlet



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

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 East Longmeadow, MA. 01028
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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 PLF Date 11/8/17 Time 11:10
 How were the samples received? In Cooler T No Cooler On Ice T No Ice
 Direct from Sampling T Ambient Melted Ice
 Were samples within Temperature? 2-6°C F By Gun # 1 Actual Temp - 14.8°C
 By Blank # Actual Temp -
 Was Custody Seal Intact? LA Were Samples Tampered with? LA
 Was COC Relinquished? T Does Chain Agree With Samples? F
 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? T
 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? LA
 Proper Media/Containers Used? T Is splitting samples required? F
 Were trip blanks received? F On COC? LA
 Do all samples have the proper pH? Acid T Base LA

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 <u>3</u>	4oz Amb/Clear
Bisulfate-	Col./Bacteria	Flashpoint <u>PLF</u>	2oz Amb/Clear
DI-	Other Plastic	Other Glass	Encore
Thiosulfate-	SOC Kit	Plastic Bag	Frozen:
Sulfuric-	Perchlorate	Ziplock	

Unpooled Samples

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:

did not receive container for TRIP BLANK.



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

November 29, 2017

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

Project Location: 52 Ridge Trail Rd., Westfield
Client Job Number:
Project Number: 183EM00170
Laboratory Work Order Number: 17K0489

Enclosed are results of analyses for samples received by the laboratory on November 8, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Kerry K. McGee". The signature is written in a cursive, flowing style.

Kerry K. McGee
Project Manager

Table of Contents

Sample Summary	3
Case Narrative	4
Sample Results	5
17K0489-01	5
17K0489-02	6
Sample Preparation Information	7
QC Data	8
Miscellaneous Organic Analyses	8
B190938	8
Flag/Qualifier Summary	9
Certifications	10
Chain of Custody/Sample Receipt	11



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: 11/29/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 183EM00170

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17K0489

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

PROJECT LOCATION: 52 Ridge Trail Rd., Westfield

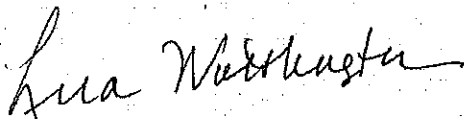
FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
52 Ridge Trail Rd-field blank	17K0489-01	Drinking Water		EPA 537	
52 Ridge Trail Rd-2	17K0489-02	Drinking Water		EPA 537	

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.

A handwritten signature in black ink, appearing to read "Lisa A. Worthington". The signature is written in a cursive style with a large initial "L".

Lisa A. Worthington
Project Manager



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

Project Location: 52 Ridge Trail Rd., Westfield

Sample Description:

Work Order: 17K0489

Date Received: 11/8/2017

Field Sample #: 52 Ridge Trail Rd-field blank

Sampled: 11/7/2017 15:01

Sample ID: 17K0489-01

Sample Matrix: Drinking Water

Miscellaneous Organic Analyses

Analyte	Results	MCL/SMCL		Units	Dilution	Flag/Qual	Method	Date	Date/Time	Analyst
		RL	MA ORSG					Prepared	Analyzed	
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	2	ng/L	1		EPA 537	11/17/17	11/28/17 17:09	BLM
Perfluorohexanoic acid (PFHxA)	ND	2.0	2	ng/L	1		EPA 537	11/17/17	11/28/17 17:09	BLM
Perfluoroheptanoic acid (PFHpA)	ND	2.0	2	ng/L	1		EPA 537	11/17/17	11/28/17 17:09	BLM
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	2	ng/L	1		EPA 537	11/17/17	11/28/17 17:09	BLM
Perfluorooctanoic acid (PFOA)	ND	2.0	2	ng/L	1		EPA 537	11/17/17	11/28/17 17:09	BLM
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	2	ng/L	1		EPA 537	11/17/17	11/28/17 17:09	BLM
Perfluorononanoic acid (PFNA)	ND	2.0	2	ng/L	1		EPA 537	11/17/17	11/28/17 17:09	BLM
Perfluorodecanoic acid (PFDA)	ND	2.0	2	ng/L	1		EPA 537	11/17/17	11/28/17 17:09	BLM
NMeFOSAA	ND	2.0		ng/L	1		EPA 537	11/17/17	11/28/17 17:09	BLM
Perfluoroundecanoic acid (PFUnA)	ND	2.0	2	ng/L	1		EPA 537	11/17/17	11/28/17 17:09	BLM
NEtFOSAA	ND	2.0		ng/L	1		EPA 537	11/17/17	11/28/17 17:09	BLM
Perfluorododecanoic acid (PFDoA)	ND	2.0	2	ng/L	1		EPA 537	11/17/17	11/28/17 17:09	BLM
Perfluorotridecanoic acid (PFTriDA)	ND	2.0	2	ng/L	1		EPA 537	11/17/17	11/28/17 17:09	BLM
Perfluorotetradecanoic acid (PFTA)	ND	2.0	2	ng/L	1		EPA 537	11/17/17	11/28/17 17:09	BLM
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
13C-PFHxA		90.4	70-130						11/28/17 17:09	
13C-PFDA		79.4	70-130						11/28/17 17:09	
d5-NEtFOSAA		77.5	70-130						11/28/17 17:09	

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

Project Location: 52 Ridge Trail Rd., Westfield

Sample Description:

Work Order: 17K0489

Date Received: 11/8/2017

Field Sample #: 52 Ridge Trail Rd-2

Sampled: 11/7/2017 15:14

Sample ID: 17K0489-02

Sample Matrix: Drinking Water

Miscellaneous Organic Analyses

Analyte	Results	MCL/SMCL			Units	Dilution	Flag/Qual	Method	Date	Date/Time	Analyst
		RL	MA	ORSG					Prepared	Analyzed	
# Perfluorobutanesulfonic acid (PFBS)	3.4	2.0	2		ng/L	1	EPA 537	11/17/17	11/28/17 17:21	BLM	
Perfluorohexanoic acid (PFHxA)	ND	2.0	2		ng/L	1	EPA 537	11/17/17	11/28/17 17:21	BLM	
Perfluoroheptanoic acid (PFHpA)	ND	2.0	2		ng/L	1	EPA 537	11/17/17	11/28/17 17:21	BLM	
# Perfluorohexanesulfonic acid (PFHxS)	2.4	2.0	2		ng/L	1	EPA 537	11/17/17	11/28/17 17:21	BLM	
# Perfluorooctanoic acid (PFOA)	4.2	2.0	2		ng/L	1	EPA 537	11/17/17	11/28/17 17:21	BLM	
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	2		ng/L	1	EPA 537	11/17/17	11/28/17 17:21	BLM	
Perfluorononanoic acid (PFNA)	ND	2.0	2		ng/L	1	EPA 537	11/17/17	11/28/17 17:21	BLM	
Perfluorodecanoic acid (PFDA)	ND	2.0	2		ng/L	1	EPA 537	11/17/17	11/28/17 17:21	BLM	
NMeFOSAA	ND	2.0			ng/L	1	EPA 537	11/17/17	11/28/17 17:21	BLM	
Perfluoroundecanoic acid (PFUnA)	ND	2.0	2		ng/L	1	EPA 537	11/17/17	11/28/17 17:21	BLM	
NEtFOSAA	ND	2.0			ng/L	1	EPA 537	11/17/17	11/28/17 17:21	BLM	
Perfluorododecanoic acid (PFDoA)	ND	2.0	2		ng/L	1	EPA 537	11/17/17	11/28/17 17:21	BLM	
Perfluorotridecanoic acid (PFTriDA)	ND	2.0	2		ng/L	1	EPA 537	11/17/17	11/28/17 17:21	BLM	
Perfluorotetradecanoic acid (PFTA)	ND	2.0	2		ng/L	1	EPA 537	11/17/17	11/28/17 17:21	BLM	
Surrogates		% Recovery	Recovery Limits				Flag/Qual				
13C-PFHxA		86.0	70-130						11/28/17 17:21		
13C-PFDA		91.0	70-130						11/28/17 17:21		
d5-NEtFOSAA		85.7	70-130						11/28/17 17:21		



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Sample Extraction Data

Prep Method: EPA 537-EPA 537

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17K0489-01 [52 Ridge Trail Rd-field blank]	B190938	250	1.00	11/17/17
17K0489-02 [52 Ridge Trail Rd-2]	B190938	250	1.00	11/17/17

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QUALITY CONTROL

Miscellaneous Organic Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD RPD	Limit	Notes
Batch B190938 - EPA 537										
Blank (B190938-BLK1)										
Prepared: 11/17/17 Analyzed: 11/28/17										
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	2.0	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	2.0	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	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							
Perfluorodecanoic acid (PFDA)	ND	2.0	ng/L							
NMeFOSAA	ND	2.0	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L							
NEtFOSAA	ND	2.0	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	2.0	ng/L							
Perfluorotridecanoic acid (PFTtDA)	ND	2.0	ng/L							
Perfluorotetradecanoic acid (PFTA)	ND	2.0	ng/L							
Surrogate: 13C-PFHxA	37.3		ng/L	40.0		93.2	70-130			
Surrogate: 13C-PFDA	32.2		ng/L	40.0		80.5	70-130			
Surrogate: d5-NEtFOSAA	139		ng/L	160		86.8	70-130			
LCS (B190938-BS1)										
Prepared: 11/17/17 Analyzed: 11/28/17										
Perfluorobutanesulfonic acid (PFBS)	2.30	2.0	ng/L	1.77		130	50-150			
Perfluorohexanoic acid (PFHxA)	2.12	2.0	ng/L	2.00		106	50-150			
Perfluoroheptanoic acid (PFHpA)	2.13	2.0	ng/L	2.00		107	50-150			
Perfluorohexanesulfonic acid (PFHxS)	2.68	2.0	ng/L	1.82		147	50-150			
Perfluorooctanoic acid (PFOA)	2.46	2.0	ng/L	2.00		123	50-150			
Perfluorooctanesulfonic acid (PFOS)	1.96	2.0	ng/L	1.85		106	50-150			
Perfluorononanoic acid (PFNA)	2.28	2.0	ng/L	2.00		114	50-150			
Perfluorodecanoic acid (PFDA)	2.10	2.0	ng/L	2.00		105	50-150			
NMeFOSAA	2.19	2.0	ng/L	2.00		109	50-150			
Perfluoroundecanoic acid (PFUnA)	1.95	2.0	ng/L	2.00		97.7	50-150			
NEtFOSAA	2.27	2.0	ng/L	2.00		114	50-150			
Perfluorododecanoic acid (PFDoA)	1.77	2.0	ng/L	2.00		88.4	50-150			
Perfluorotridecanoic acid (PFTtDA)	1.69	2.0	ng/L	2.00		84.5	50-150			
Perfluorotetradecanoic acid (PFTA)	1.86	2.0	ng/L	2.00		93.1	50-150			
Surrogate: 13C-PFHxA	33.5		ng/L	40.0		83.7	70-130			
Surrogate: 13C-PFDA	30.6		ng/L	40.0		76.5	70-130			
Surrogate: d5-NEtFOSAA	125		ng/L	160		78.3	70-130			



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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.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>EPA 537 in Drinking Water</i>	
Perfluorobutanesulfonic acid (PFBS)	VT-DW,ME
Perfluorohexanoic acid (PFHxA)	VT-DW,ME
Perfluoroheptanoic acid (PFHpA)	VT-DW,ME
Perfluorohexanesulfonic acid (PFHxS)	VT-DW,ME
Perfluorooctanoic acid (PFOA)	NH,NY,VT-DW,ME
Perfluorooctanesulfonic acid (PFOS)	NH,NY,VT-DW,ME
Perfluorononanoic acid (PFNA)	VT-DW,ME
Perfluorodecanoic acid (PFDA)	VT-DW,ME
NMeFOSAA	VT-DW
Perfluoroundecanoic acid (PFUnA)	VT-DW,ME
NEFOSAA	VT-DW
Perfluorododecanoic acid (PFDoA)	VT-DW,ME
Perfluorotridecanoic acid (PFTrDA)	VT-DW,ME
Perfluorotetradecanoic acid (PFTA)	VT-DW,ME

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 Public Health	PH-0567	09/30/2019
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	09/6/2018
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

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Doc # 381 Rev 1_03242017
 39 Spruce Street
 East Longmeadow, MA 01028

Page 1 of 1

1760483
 Phone: 413-525-2332
 Fax: 413-525-6405
 Email: info@contestlabs.com



Company Name: ATC Group Services
 Address: 73 William Franks Drive, West Springfield, MA
 Phone: (413) 781-0070

Project Name: 52 Ridge Trail Rd, Westfield
 Project Location: 52 Ridge Trail Rd, Westfield
 Project Number: 183EM00170
 Project Manager: Rob Smith

Con-Test Quote Name/Number:
 Invoice Recipient:
 Sampled By: Elizabeth O'Connor

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:
 Fax To #:

Con-Test Work Order #	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
01	Trip blank	11/17/2017 17:00					
	52 Ridge Trail Rd - field blank	11/17/2017 15:01		X		DW	U
02	52 Ridge Trail Rd - 1	11/17/2017 15:13		X		DW	U
	52 Ridge Trail Rd - 2	11/17/2017 15:14		X		DW	U

Comments:
 RUN EPA Method 537: Trip Blank and 52 Ridge Trail Rd-1
 EXTRACT & HOLD EPA Method 537: 52 Ridge Trail Rd-field blank & 52 Ridge Trail Rd-2
 HOLD As, Fe, Hardness, TOC

Date/Time	Signature	Activity
11/17/17 16:10	<i>[Signature]</i>	Relinquished by: (signature)
11/17/17 14:08	<i>[Signature]</i>	Received by: (signature)
11/17/17 16:10	<i>[Signature]</i>	Relinquished by: (signature)
		Received by: (signature)
		Relinquished by: (signature)
		Received by: (signature)

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

Special Requirements:
 MA MCP Required
 MCP Certification Form Required
 CT RCP Required
 RCP Certification Form Required
 MA State DW Required

Other: PWSID #

Project Entity:
 Government Municipality MWRA WRTA
 Federal 21 J School Chromatogram
 City Brownfield MBTA A/HA-LAP, LLC

Other:
 PCB ONLY
 Soxhlet
 Non Soxhlet



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



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 PLF Date 11/8/17 Time 1620

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

Were samples within Temperature? 2-6°C F By Gun # 1 Actual Temp - 14.8°C
 By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? LA Were Samples Tampered with? LA
 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? T
 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? LA
 Proper Media/Containers Used? T Is splitting samples required? F
 Were trip blanks received? F On COC? LA
 Do all samples have the proper pH? Acid T Base NA

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	

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:

did not receive a container for Trip Blank



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

Matthew A. Beaton
Secretary

Karyn E. Polito
Lieutenant Governor

Martin Stueberg
Commissioner

December 11, 2017

James & Rose Oleksak
31 Schumann Drive
Westfield, MA 01085

RE: Notice of Environmental Sampling
31 Schumann Drive
Westfield Private Well Sampling

Dear Mr. & Mrs. Oleksak:

The Department of Environmental Protection (DEP) collected a drinking water sample from your private well on November 7, 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 15.6 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. Due to a quality control issue with the laboratory analyses the Department would like to collect an additional sample as a conservative measure to assure the testing data is as accurate as possible. However, the Department anticipates that no further action, including additional sampling and/or mitigation measures (i.e. bottled water) will be required after the additional sampling is conducted. The Department thanks you for granting access to your property.

This information is available in alternate format. Contact Michelle Waters-Ekanem, Director of Diversity/Civil Rights at 617-292-5751.

TTY# MassRelay Service 1-800-439-2370

MassDEP Website: www.mass.gov/dep

Printed on Recycled Paper

If you have any questions pertaining to this Notice of Environmental Sampling or with the informationn 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

cc : 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



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

NOTICE OF ENVIRONMENTAL SAMPLING

1 - 20093

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: 175 Falcon Drive
City/Town: Westfield Zip Code: 01085

B. This notice is being provided to the following party:

1. Name: James & Rose Oleksak
2. Street Address: 31 Schumann Drive
City/Town: Westfield Zip Code: 01085

C. This notice is being given to inform its recipient (the party listed in Section B):

1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 31 Schumann Drive
City/Town: Westfield Zip Code: 01085

2. MCP phase of work during which the sampling will be/has been conducted:

- | | |
|---|--|
| <input checked="" type="checkbox"/> Immediate Response Action | <input type="checkbox"/> Phase III Feasibility Evaluation |
| <input type="checkbox"/> Release Abatement Measure | <input type="checkbox"/> Phase IV Remedy Implementation Plan |
| <input type="checkbox"/> Utility-related Abatement Measure | <input type="checkbox"/> Phase V/Remedy Operation Status |
| <input type="checkbox"/> Phase I Initial Site Investigation | <input type="checkbox"/> Post-Temporary Solution Operation, Maintenance and Monitoring |
| <input type="checkbox"/> Phase II Comprehensive Site Assessment | <input type="checkbox"/> Other _____ |
- (specify)

3. Description of property where sampling will be/has been conducted:

- residential commercial industrial school/playground Other _____
- (specify)

4. Description of the sampling locations and types (e.g., soil, groundwater, indoor air, soil gas) to the extent known at the time of this notice.

Drinking water samples were collected from the private well located on the above-referenced property and analyzed for PFAS via EPA Method 537.1.1.

E. Contact information related to the party providing this notice:

Contact Name: MA Department of Environmental Protection
Street Address: 436 Dwight Street
City/Town: Springfield Zip Code: 01103
Telephone: (413) 784-1100 Email: david.bachand.jr@state.ma.us



NOTICE OF ENVIRONMENTAL SAMPLING

1 - 20093

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation of a release for which a notification to MassDEP has been made under the Massachusetts Contingency Plan (310 CMR 40.0300) on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/eea/agencies/massdep/cleanup>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://public.dep.state.ma.us/SearchableSites2/Search.aspx> to view site-specific files on-line or <http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html> if you would like to make an appointment to see these files in person. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.



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

November 22, 2017

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

Project Location: 31 Schumann Dr., Westfield
Client Job Number:
Project Number: 183EM00170
Laboratory Work Order Number: 17K0448

Enclosed are results of analyses for samples received by the laboratory on November 8, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Kerry K. McGee". The signature is written in a cursive, flowing style.

Kerry K. McGee
Project Manager

Table of Contents

Sample Summary	3
Case Narrative	4
Sample Results	5
17K0448-01	5
Sample Preparation Information	6
QC Data	7
Miscellaneous Organic Analyses	7
B190547	7
Flag/Qualifier Summary	8
Certifications	9
Chain of Custody/Sample Receipt	10



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: 11/22/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 183EM00170

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17K0448

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

PROJECT LOCATION: 31 Schumann Dr., Westfield

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
31 Schumann Dr-1	17K0448-01	Drinking Water		EPA 537	

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:

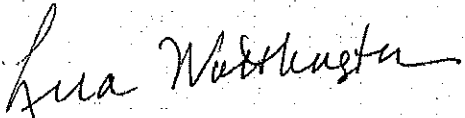
S-08

Duplicate analysis confirmed surrogate failure due to matrix effects.

Analyte & Samples(s) Qualified:

13C-PFDA
17K0448-01[31 Schumann Dr-1]
13C-PFHxA
17K0448-01[31 Schumann Dr-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.



Lisa A. Worthington
Project Manager



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

Project Location: 31 Schumann Dr., Westfield

Sample Description:

Work Order: 17K0448

Date Received: 11/8/2017

Field Sample #: 31 Schumann Dr-1

Sampled: 11/7/2017 09:45

Sample ID: 17K0448-01

Sample Matrix: Drinking Water

Miscellaneous Organic Analyses

Analyte	Results	MCL/SMCL		Units	Dilution	Flag/Qual	Method	Date	Date/Time	Analyst
		RL	MA ORSG					Prepared	Analyzed	
Perfluoropentanoic acid (PFPeA)	ND	2.0		ng/L	1		EPA 537	11/9/17	11/19/17 17:52	BLM
# Perfluorobutanesulfonic acid (PFBS)	4.8	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 17:52	BLM
# Perfluorohexanoic acid (PFHxA)	9.2	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 17:52	BLM
# Perfluoroheptanoic acid (PFHpA)	2.5	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 17:52	BLM
# Perfluorohexanesulfonic acid (PFHxS)	2.8	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 17:52	BLM
# Perfluorooctanoic acid (PFOA)	7.6	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 17:52	BLM
# Perfluorooctanesulfonic acid (PFOS)	8.0	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 17:52	BLM
Perfluorononanoic acid (PFNA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 17:52	BLM
Perfluorodecanoic acid (PFDA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 17:52	BLM
NMeFOSAA	ND	2.0		ng/L	1		EPA 537	11/9/17	11/19/17 17:52	BLM
Perfluoroundecanoic acid (PFUnA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 17:52	BLM
NEtFOSAA	ND	2.0		ng/L	1		EPA 537	11/9/17	11/19/17 17:52	BLM
Perfluorododecanoic acid (PFDoA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 17:52	BLM
Perfluorotridecanoic acid (PFTrDA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 17:52	BLM
Perfluorotetradecanoic acid (PFTA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 17:52	BLM
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
13C-PFHxA		57.6 *	70-130			S-08			11/19/17 17:52	
13C-PFDA		63.6 *	70-130			S-08			11/19/17 17:52	
d5-NEtFOSAA		73.6	70-130						11/19/17 17:52	

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Sample Extraction Data

Prep Method: EPA 537-EPA 537

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17K0448-01 [31 Schumann Dr-1]	B190547	250	1.00	11/09/17

QUALITY CONTROL

Miscellaneous Organic Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B190547 - EPA 537										
Blank (B190547-BLK1)										
Prepared: 11/09/17 Analyzed: 11/19/17										
Perfluoropentanoic acid (PFPeA)	ND	2.0	ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	2.0	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	2.0	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	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							
Perfluorodecanoic acid (PFDA)	ND	2.0	ng/L							
NMeFOSAA	ND	2.0	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L							
NEtFOSAA	ND	2.0	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	2.0	ng/L							
Perfluorotridecanoic acid (PFTriDA)	ND	2.0	ng/L							
Perfluorotetradecanoic acid (PFTA)	ND	2.0	ng/L							
Surrogate: 13C-PFHxA	35.2		ng/L	40.0		88.0	70-130			
Surrogate: 13C-PFDA	34.4		ng/L	40.0		86.1	70-130			
Surrogate: d5-NEtFOSAA	150		ng/L	160		93.7	70-130			
LCS (B190547-BS1)										
Prepared: 11/09/17 Analyzed: 11/17/17										
Perfluorobutanesulfonic acid (PFBS)	1.99	2.0	ng/L	1.77		112	50-150			
Perfluorohexanoic acid (PFHxA)	2.63	2.0	ng/L	2.00		132	50-150			
Perfluoroheptanoic acid (PFHpA)	1.95	2.0	ng/L	2.00		97.5	50-150			
Perfluorohexanesulfonic acid (PFHxS)	2.16	2.0	ng/L	1.82		119	50-150			
Perfluorooctanoic acid (PFOA)	2.56	2.0	ng/L	2.00		128	50-150			
Perfluorooctanesulfonic acid (PFOS)	2.32	2.0	ng/L	1.85		126	50-150			
Perfluorononanoic acid (PFNA)	2.87	2.0	ng/L	2.00		144	50-150			
Perfluorodecanoic acid (PFDA)	2.76	2.0	ng/L	2.00		138	50-150			
NMeFOSAA	1.63	2.0	ng/L	2.00		81.6	50-150			
Perfluoroundecanoic acid (PFUnA)	2.64	2.0	ng/L	2.00		132	50-150			
NEtFOSAA	1.59	2.0	ng/L	2.00		79.7	50-150			
Perfluorododecanoic acid (PFDoA)	2.28	2.0	ng/L	2.00		114	50-150			
Perfluorotridecanoic acid (PFTriDA)	2.25	2.0	ng/L	2.00		113	50-150			
Perfluorotetradecanoic acid (PFTA)	2.45	2.0	ng/L	2.00		122	50-150			
Surrogate: 13C-PFHxA	43.0		ng/L	40.0		107	70-130			
Surrogate: 13C-PFDA	49.2		ng/L	40.0		123	70-130			
Surrogate: d5-NEtFOSAA	112		ng/L	160		70.2	70-130			



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-08	Duplicate analysis confirmed surrogate failure due to matrix effects.
------	---



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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>EPA 537 in Drinking Water</i>	
Perfluoropentanoic acid (PFPeA)	NH,VT-DW
Perfluorobutanesulfonic acid (PFBS)	VT-DW,ME
Perfluorohexanoic acid (PFHxA)	VT-DW,ME
Perfluoroheptanoic acid (PFHpA)	VT-DW,ME
Perfluorohexanesulfonic acid (PFHxS)	VT-DW,ME
Perfluorooctanoic acid (PFOA)	NH,NY,VT-DW,ME
Perfluorooctanesulfonic acid (PFOS)	NH,NY,VT-DW,ME
Perfluorononanoic acid (PFNA)	VT-DW,ME
Perfluorodecanoic acid (PFDA)	VT-DW,ME
NMeFOSAA	VT-DW
Perfluoroundecanoic acid (PFUnA)	VT-DW,ME
NEtFOSAA	VT-DW
Perfluorododecanoic acid (PFDoA)	VT-DW,ME
Perfluorotridecanoic acid (PFTTrDA)	VT-DW,ME
Perfluorotetradecanoic acid (PFTA)	VT-DW,ME

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 Public Health	PH-0567	09/30/2019
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	VL015036	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	09/6/2018
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018



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

http://www.contestlabs.com
 CHAIN OF CUSTODY RECORD

Doc # 381 Rev 1_03242017
 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: 31 Schumann Dr, Westfield
Project Location: 31 Schumann Dr, Westfield
Project Number: 183EM00170
Project Manager: Rob Smith
Con-Test Quote Name/Number:
Invoice Recipient:
Sampled By: Elizabeth O'Connor

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:
 Fax To #:

Con-Test Work Order #	Client Sample ID/Description	Beginning Date/Time	Ending Date/Time	Composite	Matrix Code	Grab	Matrix Code	Conc Code
01	31 Schumann Dr - field blank	11/7/2017	9:27			X	DW	U
	31 Schumann Dr - 1	11/7/2017	9:45			X	DW	U
	31 Schumann Dr - 2	11/7/2017	9:46			X	DW	U

ANALYSIS REQUESTED
 TOTAL AS, Fe, HARDNESS, TOC
 EPA METHOD 537

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

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

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

PCB ONLY
 Soxhlet
 Non Soxhlet

Comments:
 RUN EPA Method 537: 31 Schumann Dr-1
 EXTRACT & HOLD EPA Method 537: 31 Schumann Dr-field blank & 31 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) *Elizabeth O'Connor* Date/Time: 11/21/17 8:00
Received by: (signature) *Mike [unclear]* Date/Time: 11/21/17 8:00
Relinquished by: (signature) Date/Time: 4.15.20
Received by: (signature) Date/Time:
Relinquished by: (signature) Date/Time:
Received by: (signature) Date/Time:
Relinquished by: (signature) Date/Time:

Detection Limit Requirements: MA MA MCP Required
 CT MCP Certification Form Required
 CT CT RCP Required
 CT RCP Certification Form Required

Special Requirements: MA MCP Required
 MA State DW Required

Project Entity: Government Municipality City
 Federal 21 J Brownfield
 MBTA School MBTA
 WRTA Chromatogram
 AIHA-LAP, LLC

con-test ANALYTICAL LABORATORY
 www.contestlabs.com

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



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 PLF Date 11/8/17 Time 800
 How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____
 Direct from Sampling _____ Ambient _____ Melted Ice _____
 Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 4.4, 5.4°C
 By Blank # _____ Actual Temp - _____
 Was Custody Seal Intact? KA Were Samples Tampered with? NA
 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? T
 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? F Is splitting samples required? F
 Were trip blanks received? F On COC? NA
 Do all samples have the proper pH? Acid T Base NA

Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-	<u>2</u>	500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic	<u>3</u>	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:



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

November 30, 2017

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

Project Location: 31 Schumann Dr., Westfield
Client Job Number:
Project Number: 183EM00170
Laboratory Work Order Number: 17K0463

Enclosed are results of analyses for samples received by the laboratory on November 8, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Kerry K. McGee". The signature is written in a cursive style with a large, prominent "K" and "M".

Kerry K. McGee
Project Manager

Table of Contents

Sample Summary	3
Case Narrative	4
Sample Results	5
17K0463-01	5
17K0463-02	6
Sample Preparation Information	7
QC Data	8
Miscellaneous Organic Analyses	8
B190551	8
Flag/Qualifier Summary	9
Certifications	10
Chain of Custody/Sample Receipt	11



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: 11/30/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 183EM00170

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17K0463

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

PROJECT LOCATION: 31 Schumann Dr., Westfield

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
31 Schumann Dr-field blank	17K0463-01	Drinking Water		EPA 537	
31 Schumann Rd-2	17K0463-02	Drinking Water		EPA 537	

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-08

Duplicate analysis confirmed surrogate failure due to matrix effects.

Analyte & Samples(s) Qualified:

13C-PFDA

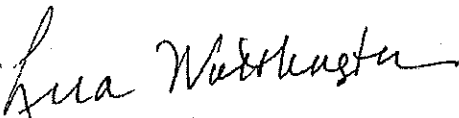
17K0463-02[31 Schumann Rd-2]

13C-PFHxA

17K0463-02[31 Schumann Rd-2]

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.



Lisa A. Worthington
Project Manager

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

Project Location: 31 Schumann Dr., Westfield

Sample Description:

Work Order: 17K0463

Date Received: 11/8/2017

Field Sample #: 31 Schumann Dr-field blank

Sampled: 11/7/2017 09:27

Sample ID: 17K0463-01

Sample Matrix: Drinking Water

Miscellaneous Organic Analyses

Analyte	Results	MCL/SMCL		Units	Dilution	Flag/Qual	Method	Date	Date/Time	Analyst
		RL	MA ORSG					Prepared	Analyzed	
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/28/17 19:03	BLM
Perfluorohexanoic acid (PFHxA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/28/17 19:03	BLM
Perfluoroheptanoic acid (PFHpA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/28/17 19:03	BLM
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/28/17 19:03	BLM
Perfluorooctanoic acid (PFOA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/28/17 19:03	BLM
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/28/17 19:03	BLM
Perfluorononanoic acid (PFNA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/28/17 19:03	BLM
Perfluorodecanoic acid (PFDA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/28/17 19:03	BLM
NMeFOSAA	ND	2.0		ng/L	1		EPA 537	11/9/17	11/28/17 19:03	BLM
Perfluoroundecanoic acid (PFUnA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/28/17 19:03	BLM
NEtFOSAA	ND	2.0		ng/L	1		EPA 537	11/9/17	11/28/17 19:03	BLM
Perfluorododecanoic acid (PFDoA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/28/17 19:03	BLM
Perfluorotridecanoic acid (PFTriDA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/28/17 19:03	BLM
Perfluorotetradecanoic acid (PFTA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/28/17 19:03	BLM

Surrogates	% Recovery	Recovery Limits	Flag/Qual
13C-PFHxA	85.6	70-130	11/28/17 19:03
13C-PFDA	79.1	70-130	11/28/17 19:03
d5-NEtFOSAA	80.6	70-130	11/28/17 19:03

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

Project Location: 31 Schumann Dr., Westfield

Sample Description:

Work Order: 17K0463

Date Received: 11/8/2017

Field Sample #: 31 Schumann Rd-2

Sampled: 11/7/2017 09:46

Sample ID: 17K0463-02

Sample Matrix: Drinking Water

Miscellaneous Organic Analyses

Analyte	Results	MCL/SMCL		Units	Dilution	Flag/Qual	Method	Date	Date/Time	Analyst
		RL	MA ORSG					Prepared	Analyzed	
# Perfluorobutanesulfonic acid (PFBS)	4.7	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 20:38	BLM
# Perfluorohexanoic acid (PFHxA)	9.2	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 20:38	BLM
# Perfluoroheptanoic acid (PFHpA)	2.6	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 20:38	BLM
# Perfluorohexanesulfonic acid (PFHxS)	2.3	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 20:38	BLM
# Perfluorooctanoic acid (PFOA)	8.4	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 20:38	BLM
# Perfluorooctanesulfonic acid (PFOS)	7.0	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 20:38	BLM
Perfluorononanoic acid (PFNA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 20:38	BLM
Perfluorodecanoic acid (PFDA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 20:38	BLM
NMeFOSAA	ND	2.0		ng/L	1		EPA 537	11/9/17	11/19/17 20:38	BLM
Perfluoroundecanoic acid (PFUnA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 20:38	BLM
NEtFOSAA	ND	2.0		ng/L	1		EPA 537	11/9/17	11/19/17 20:38	BLM
Perfluorododecanoic acid (PFDoA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 20:38	BLM
Perfluorotridecanoic acid (PFTtDA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 20:38	BLM
Perfluorotetradecanoic acid (PFTA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 20:38	BLM
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
I3C-PFHxA		57.8	* 70-130			S-08		11/19/17	20:38	
I3C-PFDA		67.0	* 70-130			S-08		11/19/17	20:38	
d5-NEtFOSAA		73.2	70-130					11/19/17	20:38	



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
17K0463-01 [31 Schumann Dr-field blank]	B190551	250	1.00	11/09/17
17K0463-02 [31 Schumann Rd-2]	B190551	250	1.00	11/09/17

QUALITY CONTROL

Miscellaneous Organic Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Notes
Batch B190551 - EPA 537										
Blank (B190551-BLK1)										
Prepared: 11/09/17 Analyzed: 11/19/17										
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	2.0	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	2.0	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	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							
Perfluorodecanoic acid (PFDA)	ND	2.0	ng/L							
NMeFOSAA	ND	2.0	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L							
NEtFOSAA	ND	2.0	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	2.0	ng/L							
Perfluorotridecanoic acid (PFTtDA)	ND	2.0	ng/L							
Perfluorotetradecanoic acid (PFTA)	ND	2.0	ng/L							
Surrogate: 13C-PFHxA	35.2		ng/L	40.0		87.9			70-130	
Surrogate: 13C-PFDA	36.8		ng/L	40.0		92.0			70-130	
Surrogate: d5-NEtFOSAA	143		ng/L	160		89.1			70-130	
LCS (B190551-BS1)										
Prepared: 11/09/17 Analyzed: 11/19/17										
Perfluorobutanesulfonic acid (PFBS)	10.2	2.0	ng/L	8.85		115			70-130	
Perfluorohexanoic acid (PFHxA)	9.49	2.0	ng/L	10.0		94.9			70-130	
Perfluoroheptanoic acid (PFHpA)	9.09	2.0	ng/L	10.0		90.9			70-130	
Perfluorohexanesulfonic acid (PFHxS)	10.7	2.0	ng/L	9.10		117			70-130	
Perfluorooctanoic acid (PFOA)	10.9	2.0	ng/L	10.0		109			70-130	
Perfluorooctanesulfonic acid (PFOS)	9.14	2.0	ng/L	9.25		98.8			70-130	
Perfluorononanoic acid (PFNA)	10.1	2.0	ng/L	10.0		101			70-130	
Perfluorodecanoic acid (PFDA)	11.3	2.0	ng/L	10.0		113			70-130	
NMeFOSAA	10.6	2.0	ng/L	10.0		106			70-130	
Perfluoroundecanoic acid (PFUnA)	10.6	2.0	ng/L	10.0		106			70-130	
NEtFOSAA	11.5	2.0	ng/L	10.0		115			70-130	
Perfluorododecanoic acid (PFDoA)	9.96	2.0	ng/L	10.0		99.6			70-130	
Perfluorotridecanoic acid (PFTtDA)	9.54	2.0	ng/L	10.0		95.4			70-130	
Perfluorotetradecanoic acid (PFTA)	10.5	2.0	ng/L	10.0		105			70-130	
Surrogate: 13C-PFHxA	37.9		ng/L	40.0		94.9			70-130	
Surrogate: 13C-PFDA	40.7		ng/L	40.0		102			70-130	
Surrogate: d5-NEtFOSAA	154		ng/L	160		96.1			70-130	

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-08 Duplicate analysis confirmed surrogate failure due to matrix effects.



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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>EPA 537 in Drinking Water</i>	
Perfluorobutanesulfonic acid (PFBS)	VT-DW,ME
Perfluorohexanoic acid (PFHxA)	VT-DW,ME
Perfluoroheptanoic acid (PFHpA)	VT-DW,ME
Perfluorohexanesulfonic acid (PFHxS)	VT-DW,ME
Perfluorooctanoic acid (PFOA)	NH,NY,VT-DW,ME
Perfluorooctanesulfonic acid (PFOS)	NH,NY,VT-DW,ME
Perfluorononanoic acid (PFNA)	VT-DW,ME
Perfluorodecanoic acid (PFDA)	VT-DW,ME
NMeFOSAA	VT-DW
Perfluoroundecanoic acid (PFUnA)	VT-DW,ME
NEtFOSAA	VT-DW
Perfluorododecanoic acid (PFDoA)	VT-DW,ME
Perfluorotridecanoic acid (PFTrDA)	VT-DW,ME
Perfluorotetradecanoic acid (PFTA)	VT-DW,ME

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 Public Health	PH-0567	09/30/2019
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	09/6/2018
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018



Company Name: ATC Group Services
 Address: 73 William Franks Drive, West Springfield, MA
 Phone: (413) 781-0070
Project Name: 31 Schumann Dr, Westfield
Project Location: 31 Schumann Dr, Westfield
Project Number: 183EM00170
Project Manager: Rob Smith

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

CLP Like Data Pkg Required:
 Other:
 Email To:
 Fax To #:

Sampled By: Elizabeth O'Connor

Doc # 381 Rev 1_03242017
 39 Spruce Street
 East Longmeadow, MA 01028

of Containers

Preservation Code

Container Code

Dissolved Metals Samples

Field Filtered

Lab to Filter

Orthophosphate Samples

Field Filtered

Lab to Filter

Matrix Codes:

GW = Ground Water

WW = Waste Water

DW = Drinking Water

A = Air

S = Soil

SL = Sludge

SOL = Solid

O = Other (please define)

Preservation Codes:

I = Iced

H = HCL

M = Methanol

N = Nitric Acid

S = Sulfuric Acid

B = Sodium Bisulfate

X = Sodium Hydroxide

T = Sodium Trisulfate

D = Other (please define)

TRIZMA

Container Codes:

A = Amber Glass

G = Glass

P = Plastic

ST = Sterile

V = Vial

S = Summa Canister

T = Tedlar Bag

O = Other (please define)

PCB ONLY

Soxhlet

Non Soxhlet

EPA METHOD 537

ANALYSIS REQUESTED

TOTAL AS, Fe, HARDNESS, TOC

5	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
P	N	H	V																	
X																				

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

Detection Limit Requirements

MA MCP Required

MCP Certification Form Required

CT RCP Required

RCP Certification Form Required

MA State DW Required

PWSID #

Project Entity

Government

Federal

City

Municipality

21 J

Brownfield

MWRA

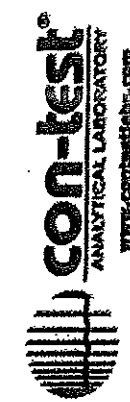
School

MBTA

WRTA

Chromatogram

AIHA-LAP, LLC



Relinquished by: (signature) [Signature]

Date/Time: 11/17/17 8:00

Received by: (signature) [Signature]

Date/Time: 11/17/17 8:00

Relinquished by: (signature) [Signature]

Date/Time:

Received by: (signature) [Signature]

Date/Time:

Relinquished by: (signature) [Signature]

Date/Time:

Comments: RUN EPA Method 537: 31 Schumann Dr-1
 EXTRACT & HOLD EPA Method 537: 31 Schumann Dr-field blank & 31 Schumann Dr-2
 HOLD AS, Fe, Hardness, TOC

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



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 PLF Date 11/8/17 Time 800

How were the samples received? In Cooler T No Cooler On Ice T No Ice
 Direct from Sampling Ambient Melted Ice

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 4.4, 5.4 °C
 By Blank # Actual Temp -

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

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? NA MS/MSD? NA
 Proper Media/Containers Used? T Is splitting samples required? F
 Were trip blanks received? F On COC? NA

Do all samples have the proper pH? Acid NA Base NA

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	

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

December 11, 2017

Couture Partners LLC
Attn: Bob Couture
504 11th Street
Hermosa Beach, CA 90254

Re: Notice of Environmental Sampling
285 Lower Sandy Hill Road
POETS Quarterly Sampling
Westfield, RTN 1-20093

Dear Mr. Couture:

The Department of Environmental Protection (DEP) collected influent, mid-fluent, and effluent, samples on November 8, 2017 from the drinking water treatment system installed in your home on July 19, 2017. Quality control samples including field and trip blanks were also collected during the sampling event. The purpose of the sampling was to confirm the treatment system is removing perfluorinated alkylated substances (PFAS) from your drinking water. The influent sample measures the concentration of PFAS in the untreated water being drawn from your private well. The mid-fluent sample measures PFAS concentrations in water after initial treatment in the first carbon vessel. The detection of PFAS compounds in this sample would indicate that the first carbon vessel is no longer removing PFAS compounds and needs to be replaced. The effluent sample measures the concentrations of PFAS compounds in the water in your home taps. The aforementioned samples were also analyzed for arsenic which is initially present in the carbon from the manufacturing process but is flushed from the system by water passing through the carbon units.

The treatment system sampling results indicate the treatment system is removing PFAS from your drinking water. The PFAS concentrations detected in the influent sample are consistent with earlier sampling results. PFAS compounds were not detected in the mid-fluent and effluent samples. Arsenic was not detected in the influent, mid-fluent and effluent samples at concentrations above the laboratory detection limit of 1 µg/l.

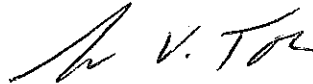
As part of the operation, maintenance, and monitoring of the drinking water treatment system, sampling will be continued on a quarterly schedule. If you experience any issues with your water (i.e. loss of

Notice of Environmental Sampling
285 Lower Sandy Hill Road
Westfield, RTN 1-20093
September 13, 2017
Page 2 of 2

water pressure) please contact us. Again, 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

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

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

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



NOTICE OF ENVIRONMENTAL SAMPLING

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

1 - 20093

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: 175 Falcon Drive
City/Town: Westfield Zip Code: 01085

B. This notice is being provided to the following party:

1. Name: Couture Partners LLC
2. Street Address: 504 11th Street
City/Town: Hermosa Beach, CA Zip Code: 90254

C. This notice is being given to inform its recipient (the party listed in Section B):

- 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
- 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
- 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 285 Lower Sandy Hill Road
City/Town: Westfield Zip Code: 01085

2. MCP phase of work during which the sampling will be/has been conducted:

- | | |
|---|--|
| <input checked="" type="checkbox"/> Immediate Response Action | <input type="checkbox"/> Phase III Feasibility Evaluation |
| <input type="checkbox"/> Release Abatement Measure | <input type="checkbox"/> Phase IV Remedy Implementation Plan |
| <input type="checkbox"/> Utility-related Abatement Measure | <input type="checkbox"/> Phase V/Remedy Operation Status |
| <input type="checkbox"/> Phase I Initial Site Investigation | <input type="checkbox"/> Post-Temporary Solution Operation, Maintenance and Monitoring |
| <input type="checkbox"/> Phase II Comprehensive Site Assessment | <input type="checkbox"/> Other _____ |
- (specify)

3. Description of property where sampling will be/has been conducted:

- residential commercial industrial school/playground Other _____
- (specify)

4. Description of the sampling locations and types (e.g., soil, groundwater, indoor air, soil gas) to the extent known at the time of this notice.

Influent, mid-fluent, and effluent water samples were collected from the POETS installed at the above-referenced residence to confirm the system is operating properly. The samples were analyzed for PFAS via EPA Method 537.1.1.

E. Contact information related to the party providing this notice:

Contact Name: MA Department of Environmental Protection
Street Address: 436 Dwight Street
City/Town: Springfield Zip Code: 01103
Telephone: (413) 784-1100 Email: david.bachand.jr@state.ma.us



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

NOTICE OF ENVIRONMENTAL SAMPLING

1 - 20093

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation of a release for which a notification to MassDEP has been made under the Massachusetts Contingency Plan (310 CMR 40.0300) on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/eea/agencies/massdep/cleanup>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in Section A is also available in files at the Massachusetts Department of Environmental Protection. See <http://public.dep.state.ma.us/SearchableSites2/Search.aspx> to view site-specific files on-line or <http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html> if you would like to make an appointment to see these files in person. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.



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

November 27, 2017

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

Project Location: 285 Lower Sandy Hill Rd., Westfield
Client Job Number:
Project Number: 183EM00170
Laboratory Work Order Number: 17K0482

Enclosed are results of analyses for samples received by the laboratory on November 8, 2017. If you have any questions concerning this report, please feel free to contact me.

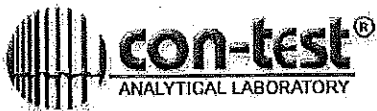
Sincerely,

A handwritten signature in black ink that reads "Kerry K. McGee". The signature is written in a cursive style with a large, prominent initial 'K'.

Kerry K. McGee
Project Manager

Table of Contents

Sample Summary	3
Case Narrative	4
Sample Results	5
17K0482-02	5
17K0482-03	6
17K0482-04	8
17K0482-05	10
Sample Preparation Information	12
QC Data	13
Miscellaneous Organic Analyses	13
B190547	13
Metals Analyses (Total)	14
B190987	14
Flag/Qualifier Summary	15
Certifications	16
Chain of Custody/Sample Receipt	17



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: 11/27/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 183EM00170

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17K0482

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

PROJECT LOCATION: 285 Lower Sandy Hill Rd., Westfield

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
285 FB	17K0482-02	Drinking Water		EPA 537	
285 EFF-2	17K0482-03	Drinking Water		EPA 200.8 EPA 537	
285 MID-2	17K0482-04	Drinking Water		EPA 200.8 EPA 537	
285 INF-2	17K0482-05	Drinking Water		EPA 200.8 EPA 537	

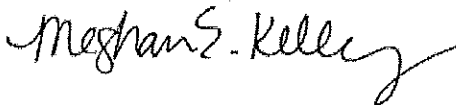
CASE NARRATIVE SUMMARY

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

REVISED REPORT 11/27/17 - Project location corrected.

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.



Meghan E. Kelley
Project Manager



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

Project Location: 285 Lower Sandy Hill Rd., Westfi

Sample Description:

Work Order: 17K0482

Date Received: 11/8/2017

Field Sample #: 285 FB

Sampled: 11/8/2017 13:40

Sample ID: 17K0482-02

Sample Matrix: Drinking Water

Miscellaneous Organic Analyses

Analyte	Results	MCL/SMCL		Units	Dilution	Flag/Qual	Method	Date	Date/Time	Analyst
		RL	MA ORSG					Prepared	Analyzed	
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/17/17 20:21	BLM
Perfluorohexanoic acid (PFHxA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/17/17 20:21	BLM
Perfluoroheptanoic acid (PFHpA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/17/17 20:21	BLM
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/17/17 20:21	BLM
Perfluorooctanoic acid (PFOA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/17/17 20:21	BLM
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/17/17 20:21	BLM
Perfluorononanoic acid (PFNA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/17/17 20:21	BLM
Perfluorodecanoic acid (PFDA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/17/17 20:21	BLM
NMeFOSAA	ND	2.0		ng/L	1		EPA 537	11/9/17	11/17/17 20:21	BLM
Perfluoroundecanoic acid (PFUnA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/17/17 20:21	BLM
NEtFOSAA	ND	2.0		ng/L	1		EPA 537	11/9/17	11/17/17 20:21	BLM
Perfluorododecanoic acid (PFDoA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/17/17 20:21	BLM
Perfluorotridecanoic acid (PFTrDA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/17/17 20:21	BLM
Perfluorotetradecanoic acid (PFTA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/17/17 20:21	BLM
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
13C-PFHxA		129	70-130						11/17/17 20:21	
13C-PFDA		129	70-130						11/17/17 20:21	
d5-NEtFOSAA		77.1	70-130						11/17/17 20:21	

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

Project Location: 285 Lower Sandy Hill Rd., Westfi

Sample Description:

Work Order: 17K0482

Date Received: 11/8/2017

Field Sample #: 285 EFF-2

Sampled: 11/8/2017 13:41

Sample ID: 17K0482-03

Sample Matrix: Drinking Water

Miscellaneous Organic Analyses

Analyte	Results	MCL/SMCL		Units	Dilution	Flag/Qual	Method	Date	Date/Time	Analyst
		RL	MA ORSG					Prepared	Analyzed	
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/17/17 20:34	BLM
Perfluorohexanoic acid (PFHxA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/17/17 20:34	BLM
Perfluoroheptanoic acid (PFHpA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/17/17 20:34	BLM
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/17/17 20:34	BLM
Perfluorooctanoic acid (PFOA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/17/17 20:34	BLM
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/17/17 20:34	BLM
Perfluorononanoic acid (PFNA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/17/17 20:34	BLM
Perfluorodecanoic acid (PFDA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/17/17 20:34	BLM
NMeFOSAA	ND	2.0		ng/L	1		EPA 537	11/9/17	11/17/17 20:34	BLM
Perfluoroundecanoic acid (PFUnA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/17/17 20:34	BLM
NEtFOSAA	ND	2.0		ng/L	1		EPA 537	11/9/17	11/17/17 20:34	BLM
Perfluorododecanoic acid (PFDoA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/17/17 20:34	BLM
Perfluorotridecanoic acid (PFTDA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/17/17 20:34	BLM
Perfluorotetradecanoic acid (PFTA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/17/17 20:34	BLM
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
13C-PFHxA		115	70-130						11/17/17 20:34	
13C-PFDA		122	70-130						11/17/17 20:34	
d5-NEtFOSAA		71.9	70-130						11/17/17 20:34	



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

Project Location: 285 Lower Sandy Hill Rd., Westfi

Sample Description:

Work Order: 17K0482

Date Received: 11/8/2017

Field Sample #: 285 EFF-2

Sampled: 11/8/2017 13:41

Sample ID: 17K0482-03

Sample Matrix: Drinking Water

Metals Analyses (Total)

Analyte	Results	MCL/SMCL		Units	Dilution	Flag/Qual	Method	Date	Date/Time	Analyst
		RL	MA ORSG					Prepared	Analyzed	
Arsenic	ND	1.0	10	µg/L	1		EPA 200.8	11/14/17	11/14/17 17:28	MJH

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

Project Location: 285 Lower Sandy Hill Rd., Westfi

Sample Description:

Work Order: 17K0482

Date Received: 11/8/2017

Field Sample #: 285 MID-2

Sampled: 11/8/2017 13:42

Sample ID: 17K0482-04

Sample Matrix: Drinking Water

Miscellaneous Organic Analyses

Analyte	Results	MCL/SMCL		Units	Dilution	Flag/Qual	Method	Date	Date/Time	Analyst
		RL	MA ORSG					Prepared	Analyzed	
Perfluoropentanoic acid (PFPeA)	ND	2.0		ng/L	1		EPA 537	11/9/17	11/19/17 18:43	BLM
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 18:43	BLM
Perfluorohexanoic acid (PFHxA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 18:43	BLM
Perfluoroheptanoic acid (PFHpA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 18:43	BLM
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 18:43	BLM
Perfluorooctanoic acid (PFOA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 18:43	BLM
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 18:43	BLM
Perfluorononanoic acid (PFNA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 18:43	BLM
Perfluorodecanoic acid (PFDA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 18:43	BLM
NMeFOSAA	ND	2.0		ng/L	1		EPA 537	11/9/17	11/19/17 18:43	BLM
Perfluoroundecanoic acid (PFUnA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 18:43	BLM
NEtFOSAA	ND	2.0		ng/L	1		EPA 537	11/9/17	11/19/17 18:43	BLM
Perfluorododecanoic acid (PFDoA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 18:43	BLM
Perfluorotridecanoic acid (PFTriDA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 18:43	BLM
Perfluorotetradecanoic acid (PFTA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 18:43	BLM
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
13C-PFHxA		94.2	70-130						11/19/17 18:43	
13C-PFDA		82.5	70-130						11/19/17 18:43	
d5-NEtFOSAA		99.7	70-130						11/19/17 18:43	



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

Project Location: 285 Lower Sandy Hill Rd., Westfi

Sample Description:

Work Order: 17K0482

Date Received: 11/8/2017

Field Sample #: 285 MID-2

Sampled: 11/8/2017 13:42

Sample ID: 17K0482-04

Sample Matrix: Drinking Water

Metals Analyses (Total)

Analyte	Results	MCL/SMCL		Units	Dilution	Flag/Qual	Method	Date	Date/Time	Analyst
		RL	MA ORSG					Prepared	Analyzed	
Arsenic	ND	1.0	10	µg/L	1		EPA 200.8	11/14/17	11/14/17 17:31	MJH

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

Project Location: 285 Lower Sandy Hill Rd., Westfi

Sample Description:

Work Order: 17K0482

Date Received: 11/8/2017

Field Sample #: 285 INF-2

Sampled: 11/8/2017 13:43

Sample ID: 17K0482-05

Sample Matrix: Drinking Water

Miscellaneous Organic Analyses

Analyte	Results	MCL/SMCL		Units	Dilution	Flag/Qual	Method	Date	Date/Time	Analyst
		RL	MA ORSG					Prepared	Analyzed	
Perfluoropentanoic acid (PFPeA)	ND	2.0		ng/L	1		EPA 537	11/9/17	11/19/17 19:34	BLM
# Perfluorobutanesulfonic acid (PFBS)	19	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 19:34	BLM
# Perfluorohexanoic acid (PFHxA)	76	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 19:34	BLM
# Perfluoroheptanoic acid (PFHpA)	21	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 19:34	BLM
# Perfluorohexanesulfonic acid (PFHxS)	260	10	2	ng/L	5		EPA 537	11/9/17	11/19/17 20:25	BLM
# Perfluorooctanoic acid (PFOA)	160	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 19:34	BLM
# Perfluorooctanesulfonic acid (PFOS)	510	10	2	ng/L	5		EPA 537	11/9/17	11/19/17 20:25	BLM
Perfluorononanoic acid (PFNA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 19:34	BLM
Perfluorodecanoic acid (PFDA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 19:34	BLM
NMeFOSAA	ND	2.0		ng/L	1		EPA 537	11/9/17	11/19/17 19:34	BLM
Perfluoroundecanoic acid (PFUnA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 19:34	BLM
NEtFOSAA	ND	2.0		ng/L	1		EPA 537	11/9/17	11/19/17 19:34	BLM
Perfluorododecanoic acid (PFDoA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 19:34	BLM
Perfluorotridecanoic acid (PFTrDA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 19:34	BLM
Perfluorotetradecanoic acid (PFTA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 19:34	BLM

Surrogates	% Recovery	Recovery Limits	Flag/Qual
13C-PFHxA	101	70-130	11/19/17 19:34
13C-PFHxA	85.3	70-130	11/19/17 20:25
13C-PFDA	87.1	70-130	11/19/17 19:34
13C-PFDA	75.2	70-130	11/19/17 20:25
d5-NEtFOSAA	70.5	70-130	11/19/17 19:34
d5-NEtFOSAA	79.2	70-130	11/19/17 20:25



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

Project Location: 285 Lower Sandy Hill Rd., Westfi

Sample Description:

Work Order: 17K0482

Date Received: 11/8/2017

Field Sample #: 285 INF-2

Sampled: 11/8/2017 13:43

Sample ID: 17K0482-05

Sample Matrix: Drinking Water

Metals Analyses (Total)

Analyte	Results	MCL/SMCL		Units	Dilution	Flag/Qual	Method	Date	Date/Time	Analyst
		RL	MA ORSG					Prepared	Analyzed	
Arsenic	ND	1.0	10	µg/L	1		EPA 200.8	11/14/17	11/14/17 17:35	MJH

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

Sample Extraction Data

Prep Method: EPA 200.8-EPA 200.8

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17K0482-03 [285 EFF-2]	B190987	10.0	10.0	11/14/17
17K0482-04 [285 MID-2]	B190987	10.0	10.0	11/14/17
17K0482-05 [285 INF-2]	B190987	10.0	10.0	11/14/17

Prep Method: EPA 537-EPA 537

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17K0482-02 [285 FB]	B190547	250	1.00	11/09/17
17K0482-03 [285 EFF-2]	B190547	250	1.00	11/09/17
17K0482-04 [285 MID-2]	B190547	250	1.00	11/09/17
17K0482-05 [285 INF-2]	B190547	250	1.00	11/09/17
17K0482-05RE1 [285 INF-2]	B190547	250	1.00	11/09/17



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	RPD Limits	RPD Limit	Notes
Batch B190547 - EPA 537									
Blank (B190547-BLK1)									
					Prepared: 11/09/17 Analyzed: 11/19/17				
Perfluoropentanoic acid (PFPeA)	ND	2.0	ng/L						
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	ng/L						
Perfluorohexanoic acid (PFHxA)	ND	2.0	ng/L						
Perfluoroheptanoic acid (PFHpA)	ND	2.0	ng/L						
Perfluorohexanesulfonic acid (PFHxS)	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						
Perfluorodecanoic acid (PFDA)	ND	2.0	ng/L						
NMeFOSAA	ND	2.0	ng/L						
Perfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L						
NEtFOSAA	ND	2.0	ng/L						
Perfluorododecanoic acid (PFDoA)	ND	2.0	ng/L						
Perfluorotridecanoic acid (PFTriDA)	ND	2.0	ng/L						
Perfluorotetradecanoic acid (PFTA)	ND	2.0	ng/L						
Surrogate: 13C-PFHxA	35.2		ng/L	40.0		88.0	70-130		
Surrogate: 13C-PFDA	34.4		ng/L	40.0		86.1	70-130		
Surrogate: d5-NEtFOSAA	150		ng/L	160		93.7	70-130		
LCS (B190547-BS1)									
					Prepared: 11/09/17 Analyzed: 11/17/17				
Perfluorobutanesulfonic acid (PFBS)	1.99	2.0	ng/L	1.77		112	50-150		
Perfluorohexanoic acid (PFHxA)	2.63	2.0	ng/L	2.00		132	50-150		
Perfluoroheptanoic acid (PFHpA)	1.95	2.0	ng/L	2.00		97.5	50-150		
Perfluorohexanesulfonic acid (PFHxS)	2.16	2.0	ng/L	1.82		119	50-150		
Perfluorooctanoic acid (PFOA)	2.56	2.0	ng/L	2.00		128	50-150		
Perfluorooctanesulfonic acid (PFOS)	2.32	2.0	ng/L	1.85		126	50-150		
Perfluorononanoic acid (PFNA)	2.87	2.0	ng/L	2.00		144	50-150		
Perfluorodecanoic acid (PFDA)	2.76	2.0	ng/L	2.00		138	50-150		
NMeFOSAA	1.63	2.0	ng/L	2.00		81.6	50-150		
Perfluoroundecanoic acid (PFUnA)	2.64	2.0	ng/L	2.00		132	50-150		
NEtFOSAA	1.59	2.0	ng/L	2.00		79.7	50-150		
Perfluorododecanoic acid (PFDoA)	2.28	2.0	ng/L	2.00		114	50-150		
Perfluorotridecanoic acid (PFTriDA)	2.25	2.0	ng/L	2.00		113	50-150		
Perfluorotetradecanoic acid (PFTA)	2.45	2.0	ng/L	2.00		122	50-150		
Surrogate: 13C-PFHxA	43.0		ng/L	40.0		107	70-130		
Surrogate: 13C-PFDA	49.2		ng/L	40.0		123	70-130		
Surrogate: d5-NEtFOSAA	112		ng/L	160		70.2	70-130		

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

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B190987 - EPA 200.8										
Blank (B190987-BLK1)										
Prepared & Analyzed: 11/14/17										
Arsenic	ND	1.0	µg/L							
LCS (B190987-BS1)										
Prepared & Analyzed: 11/14/17										
Arsenic	40.4	1.0	µg/L	40.0		101	85-115			



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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.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>EPA 200.8 in Drinking Water</i>	
Arsenic	CT,MA,NH,NY,RI,NC,ME,VA
<i>EPA 537 in Drinking Water</i>	
Perfluoropentanoic acid (PFPeA)	NH,VT-DW
Perfluorobutanesulfonic acid (PFBS)	VT-DW,ME
Perfluorohexanoic acid (PFHxA)	VT-DW,ME
Perfluorohexanoic acid (PFHpA)	VT-DW,ME
Perfluorohexanesulfonic acid (PFHxS)	VT-DW,ME
Perfluorooctanoic acid (PFOA)	NH,NY,VT-DW,ME
Perfluorooctanesulfonic acid (PFOS)	NH,NY,VT-DW,ME
Perfluorononanoic acid (PFNA)	VT-DW,ME
Perfluorodecanoic acid (PFDA)	VT-DW,ME
NMeFOSAA	VT-DW
Perfluoroundecanoic acid (PFUnA)	VT-DW,ME
NEtFOSAA	VT-DW
Perfluorododecanoic acid (PFDoA)	VT-DW,ME
Perfluorotridecanoic acid (PFTriDA)	VT-DW,ME
Perfluorotetradecanoic acid (PFTA)	VT-DW,ME

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 Public Health	PH-0567	09/30/2019
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	09/6/2018
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

Doc # 381 Rev 1_03242017
 39 Spruce Street
 East Longmeadow, MA 01028
 Page 1 of 1

http://www.contestlabs.com
 CHAIN OF CUSTODY RECORD
 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 #:

Company Name: ATC Group Services
 Address: 73 William Franks Drive, West Springfield, MA
 Phone: (413) 781-0070
 Project Name: 285 Lower Sandy Hill Rd, Westfield
 Project Location: 285 Lower Sandy Hill Rd, Westfield
 Project Number: 183EM00170
 Project Manager: Rob Smith
 Con-Test Quote Name/Number:
 Invoice Recipient:
 Sampled By: Elizabeth O'Connor

Con-Test Work Order #	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
01	Trip blank				X	DW	U
02	285 FB	11/8/17 13:40	13:40		X	DW	U
03	285 EFF-2	11/8/17 13:41	13:41		X	DW	U
04	285 MID-2	11/8/17 13:42	13:42		X	DW	U
05	285 INF-2	11/8/17 13:43	13:43		X	DW	U

EPA METHOD 537
 TOTAL AS
 ANALYSIS REQUESTED

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)

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

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

5 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)

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

7 Preservation Code
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 ANALYTICAL LABORATORY
 www.contestlabs.com

Special Requirements
 MA MCP Required
 MCP Certification Form Required
 CT RCP Required
 RCP Certification Form Required
 MA State DW Required

PWSID #

Project Entity
 Government
 Federal
 City
 Municipality
 21 J
 Brownfield
 MWRA
 WRTA
 Chromatogram
 ALPHA-LAP, LLC
 Other

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



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 PLF Date 11/8/17 Time 1010
 How were the samples received? In Cooler T No Cooler On Ice T No Ice
 Direct from Sampling T Ambient Melted Ice
 Were samples within Temperature? 2-6°C F By Gun # 1 Actual Temp - 14.8°C
 By Blank # Actual Temp -
 Was Custody Seal Intact? LA Were Samples Tampered with? NA
 Was COC Relinquished? T Does Chain Agree With Samples? FF
 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? T
 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? NA MS/MSD? NA
 Proper Media/Containers Used? T Is splitting samples required? F
 Were trip blanks received? OT On COC? T
 Do all samples have the proper pH? Acid T Base NA

Vials	#	Containers	#	#	#
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	

Unused Media

Vials	#	Containers	#	#	#
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:
 did not receive container for TRIP Blank



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

December 11, 2017

Patricia Kellogg
289 Lower Sandy Hill Road
Westfield, MA 01085

Re: Notice of Environmental Sampling
289 Lower Sandy Hill Road
POETS Quarterly Sampling
Westfield, RTN 1-20093

Dear Ms. Kellogg:

The Department of Environmental Protection (DEP) collected influent, mid-fluent, and effluent, samples on November 8, 2017 from the drinking water treatment system installed in your home on July 19, 2017. Quality control samples including field and trip blanks were also collected during the sampling event. The purpose of the sampling was to confirm the treatment system is removing perfluorinated alkylated substances (PFAS) from your drinking water. The influent sample measures the concentration of PFAS in the untreated water being drawn from your private well. The mid-fluent sample measures PFAS concentrations in water after initial treatment in the first carbon vessel. The detection of PFAS compounds in this sample would indicate that the first carbon vessel is no longer removing PFAS compounds and needs to be replaced. The effluent sample measures the concentrations of PFAS compounds in the water in your home taps. The aforementioned samples were also analyzed for arsenic which is initially present in the carbon from the manufacturing process but is flushed from the system by water passing through the carbon units.

The treatment system sampling results indicate the treatment system is removing PFAS from your drinking water. The PFAS concentrations detected in the influent sample are consistent with earlier sampling results. PFAS compounds were not detected in the mid-fluent and effluent samples. Trace concentrations of arsenic were detected in the mid-fluent and effluent samples at concentrations well below the Drinking Water Standard of 10 parts per billion ($\mu\text{g/l}$).

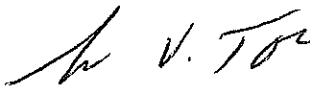
As part of the operation, maintenance, and monitoring of the drinking water treatment system, sampling will be continued on a quarterly schedule. If you experience any issues with your water (i.e. loss of

Notice of Environmental Sampling
289 Lower Sandy Hill Road
Westfield, RTN 1-20093
September 13, 2017
Page 2 of 2

water pressure) please contact us. Again, 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

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

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

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



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

NOTICE OF ENVIRONMENTAL SAMPLING

1 - 20093

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

A. The address of the disposal site related to this Notice and Release Tracking Number (provided above):

1. Street Address: 175 Falcon Drive
City/Town: Westfield Zip Code: 01085

B. This notice is being provided to the following party:

1. Name: Patricia Kellogg
2. Street Address: 289 Lower Sandy Hill Road
City/Town: Westfield Zip Code: 01085

C. This notice is being given to inform its recipient (the party listed in Section B):

- 1. That environmental sampling will be/has been conducted at property owned by the recipient of this notice.
- 2. Of the results of environmental sampling conducted at property owned by the recipient of this notice.
- 3. Check to indicate if the analytical results are attached. (If item 2. above is checked, the analytical results from the environmental sampling must be attached to this notice.)

D. Location of the property where the environmental sampling will be/has been conducted:

1. Street Address: 289 Lower Sandy Hill Road
City/Town: Westfield Zip Code: 01085

2. MCP phase of work during which the sampling will be/has been conducted:

- | | |
|---|--|
| <input checked="" type="checkbox"/> Immediate Response Action | <input type="checkbox"/> Phase III Feasibility Evaluation |
| <input type="checkbox"/> Release Abatement Measure | <input type="checkbox"/> Phase IV Remedy Implementation Plan |
| <input type="checkbox"/> Utility-related Abatement Measure | <input type="checkbox"/> Phase V/Remedy Operation Status |
| <input type="checkbox"/> Phase I Initial Site Investigation | <input type="checkbox"/> Post-Temporary Solution Operation, Maintenance and Monitoring |
| <input type="checkbox"/> Phase II Comprehensive Site Assessment | <input type="checkbox"/> Other _____ |
- (specify)

3. Description of property where sampling will be/has been conducted:

- residential commercial industrial school/playground Other _____
- (specify)

4. Description of the sampling locations and types (e.g., soil, groundwater, indoor air, soil gas) to the extent known at the time of this notice.

Influent, mid-fluent, and effluent water samples were collected from the POETS installed at the above-referenced residence to confirm the system is operating properly. The samples were analyzed for PFAS via EPA Method 537.1.1.

E. Contact information related to the party providing this notice:

Contact Name: MA Department of Environmental Protection
Street Address: 436 Dwight Street
City/Town: Springfield Zip Code: 01103
Telephone: (413) 784-1100 Email: david.bachand.jr@state.ma.us



Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC123

This Notice is Related to:
Release Tracking Number

NOTICE OF ENVIRONMENTAL SAMPLING

1 - 20093

As required by 310 CMR 40.1403(10) of the Massachusetts Contingency Plan

MASSACHUSETTS REGULATIONS THAT REQUIRE THIS NOTICE

This notice is being provided pursuant to the Massachusetts Contingency Plan and the notification requirement at 310 CMR 40.1403(10). The Massachusetts Contingency Plan is a state regulation that specifies requirements for parties who are taking actions to address releases of chemicals (oil or hazardous material) to the environment.

THE PERSON(S) PROVIDING THIS NOTICE

This notice has been sent to you by the party who is addressing a release of oil or hazardous material to the environment at the location listed in **Section A** on the reverse side of this form. (The regulations refer to the area where the oil or hazardous material is present as the "disposal site".)

PURPOSE OF THIS NOTICE

When environmental samples are taken as part of an investigation of a release for which a notification to MassDEP has been made under the Massachusetts Contingency Plan (310 CMR 40.0300) on behalf of someone other than the owner of the property, the regulations require that the property owner (listed in **Section B** on the reverse side of this form) be given notice of the environmental sampling. The regulations also require that the property owner subsequently receive the analytical results following the analysis of the environmental samples.

Section C on the reverse side of this form indicates the circumstance under which you are receiving this notice at this time. If you are receiving this notice to inform you of the analytical results following the analysis of the environmental samples, you should also have received, as an attachment, a copy of analytical results. These results should indicate the number and type(s) of samples (e.g., soil, groundwater) analyzed, any chemicals identified, and the measured concentrations of those chemicals.

Section D on the reverse side of this form identifies the property where the environmental sampling will be/has been conducted, provides a description of the sampling locations within the property, and indicates the phase of work under the Massachusetts Contingency Plan regulatory process during which the samples will be/were collected.

FOR MORE INFORMATION

Information about the general process for addressing releases of oil or hazardous material under the Massachusetts Contingency Plan and related public involvement opportunities may be found at <http://www.mass.gov/eea/agencies/massdep/cleanup>. For more information regarding this notice, you may contact the party listed in **Section E** on the reverse side of this form. Information about the disposal site identified in **Section A** is also available in files at the Massachusetts Department of Environmental Protection. See <http://public.dep.state.ma.us/SearchableSites2/Search.aspx> to view site-specific files on-line or <http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html> if you would like to make an appointment to see these files in person. Please reference the **Release Tracking Number** listed in the upper right hand corner on the reverse side of this form when making file review appointments.



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

November 22, 2017

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

Project Location: 289 Lower Sandy Hill Rd., Westfield
Client Job Number:
Project Number: 183EM00170
Laboratory Work Order Number: 17K0479

Enclosed are results of analyses for samples received by the laboratory on November 8, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Kerry K. McGee". The signature is written in a cursive, flowing style.

Kerry K. McGee
Project Manager

Table of Contents

Sample Summary	3
Case Narrative	4
Sample Results	5
17K0479-02	5
17K0479-03	6
17K0479-04	8
17K0479-05	10
Sample Preparation Information	12
QC Data	13
Miscellaneous Organic Analyses	13
B190547	13
Metals Analyses (Total)	14
B190987	14
Flag/Qualifier Summary	15
Certifications	16
Chain of Custody/Sample Receipt	17



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: 11/22/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 183EM00170

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17K0479

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

PROJECT LOCATION: 289 Lower Sandy Hill Rd., Westfield

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
289 FB	17K0479-02	Drinking Water		EPA 537	
289 EFF-2	17K0479-03	Drinking Water		EPA 200.8 EPA 537	
289 MID-2	17K0479-04	Drinking Water		EPA 200.8 EPA 537	
289 INF-2	17K0479-05	Drinking Water		EPA 200.8 EPA 537	

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.



Lisa A. Worthington
Project Manager



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

Project Location: 289 Lower Sandy Hill Rd., Westfi

Sample Description:

Work Order: 17K0479

Date Received: 11/8/2017

Field Sample #: 289 FB

Sampled: 11/8/2017 13:13

Sample ID: 17K0479-02

Sample Matrix: Drinking Water

Miscellaneous Organic Analyses

Analyte	Results	MCL/SMCL		Units	Dilution	Flag/Qual	Method	Date	Date/Time	Analyst
		RL	MA ORSG					Prepared	Analyzed	
Perfluoropentanoic acid (PFPeA)	ND	2.0		ng/L	1		EPA 537	11/9/17	11/19/17 18:31	BLM
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 18:31	BLM
Perfluorohexanoic acid (PFHxA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 18:31	BLM
Perfluoroheptanoic acid (PFHpA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 18:31	BLM
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 18:31	BLM
Perfluorooctanoic acid (PFOA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 18:31	BLM
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 18:31	BLM
Perfluorononanoic acid (PFNA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 18:31	BLM
Perfluorodecanoic acid (PFDA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 18:31	BLM
NMeFOSAA	ND	2.0		ng/L	1		EPA 537	11/9/17	11/19/17 18:31	BLM
Perfluoroundecanoic acid (PFUnA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 18:31	BLM
NEtFOSAA	ND	2.0		ng/L	1		EPA 537	11/9/17	11/19/17 18:31	BLM
Perfluorododecanoic acid (PFDoA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 18:31	BLM
Perfluorotridecanoic acid (PFTrDA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 18:31	BLM
Perfluorotetradecanoic acid (PFTA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 18:31	BLM
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
13C-PFHxA		102	70-130						11/19/17 18:31	
13C-PFDA		81.3	70-130						11/19/17 18:31	
d5-NEtFOSAA		93.2	70-130						11/19/17 18:31	

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

Project Location: 289 Lower Sandy Hill Rd., Westfi

Sample Description:

Work Order: 17K0479

Date Received: 11/8/2017

Field Sample #: 289 EFF-2

Sampled: 11/8/2017 13:14

Sample ID: 17K0479-03

Sample Matrix: Drinking Water

Miscellaneous Organic Analyses

Analyte	Results	MCL/SMCL		Units	Dilution	Flag/Qual	Method	Date	Date/Time	Analyst
		RL	MA ORSG					Prepared	Analyzed	
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/17/17 19:43	BLM
Perfluorohexanoic acid (PFHxA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/17/17 19:43	BLM
Perfluoroheptanoic acid (PFHpA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/17/17 19:43	BLM
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/17/17 19:43	BLM
Perfluorooctanoic acid (PFOA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/17/17 19:43	BLM
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/17/17 19:43	BLM
Perfluorononanoic acid (PFNA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/17/17 19:43	BLM
Perfluorodecanoic acid (PFDA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/17/17 19:43	BLM
NMeFOSAA	ND	2.0		ng/L	1		EPA 537	11/9/17	11/17/17 19:43	BLM
Perfluoroundecanoic acid (PFUnA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/17/17 19:43	BLM
NEtFOSAA	ND	2.0		ng/L	1		EPA 537	11/9/17	11/17/17 19:43	BLM
Perfluorododecanoic acid (PFDoA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/17/17 19:43	BLM
Perfluorotridecanoic acid (PFTriDA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/17/17 19:43	BLM
Perfluorotetradecanoic acid (PFTA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/17/17 19:43	BLM
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
13C-PFHxA		126	70-130					11/17/17	19:43	
13C-PFDA		120	70-130					11/17/17	19:43	
d5-NEtFOSAA		70.3	70-130					11/17/17	19:43	



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

Project Location: 289 Lower Sandy Hill Rd., Westfi

Sample Description:

Work Order: 17K0479

Date Received: 11/8/2017

Field Sample #: 289 EFF-2

Sampled: 11/8/2017 13:14

Sample ID: 17K0479-03

Sample Matrix: Drinking Water

Metals Analyses (Total)

Analyte	Results	MCL/SMCL		Units	Dilution	Flag/Qual	Method	Date	Date/Time	Analyst
		RL	MA ORSG					Prepared	Analyzed	
Arsenic	1.1	1.0	10	µg/L	1		EPA 200.8	11/14/17	11/14/17 17:14	MJH

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

Project Location: 289 Lower Sandy Hill Rd., Westfi

Sample Description:

Work Order: 17K0479

Date Received: 11/8/2017

Field Sample #: 289 MID-2

Sampled: 11/8/2017 13:15

Sample ID: 17K0479-04

Sample Matrix: Drinking Water

Miscellaneous Organic Analyses

Analyte	Results	MCL/SMCL		Units	Dilution	Flag/Qual	Method	Date	Date/Time	Analyst
		RL	MA ORSG					Prepared	Analyzed	
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/17/17 19:56	BLM
Perfluorohexanoic acid (PFHxA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/17/17 19:56	BLM
Perfluoroheptanoic acid (PFHpA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/17/17 19:56	BLM
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/17/17 19:56	BLM
Perfluorooctanoic acid (PFOA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/17/17 19:56	BLM
Perfluorooctanesulfonic acid (PFOS)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/17/17 19:56	BLM
Perfluorononanoic acid (PFNA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/17/17 19:56	BLM
Perfluorodecanoic acid (PFDA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/17/17 19:56	BLM
NMeFOSAA	ND	2.0		ng/L	1		EPA 537	11/9/17	11/17/17 19:56	BLM
Perfluoroundecanoic acid (PFUnA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/17/17 19:56	BLM
NEtFOSAA	ND	2.0		ng/L	1		EPA 537	11/9/17	11/17/17 19:56	BLM
Perfluorododecanoic acid (PFDoA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/17/17 19:56	BLM
Perfluorotridecanoic acid (PFTriDA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/17/17 19:56	BLM
Perfluorotetradecanoic acid (PFTA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/17/17 19:56	BLM
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
13C-PFHxA		114	70-130					11/17/17	19:56	
13C-PFDA		115	70-130					11/17/17	19:56	
d5-NEtFOSAA		70.1	70-130					11/17/17	19:56	



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

Project Location: 289 Lower Sandy Hill Rd., Westfi

Sample Description:

Work Order: 17K0479

Date Received: 11/8/2017

Field Sample #: 289 MID-2

Sampled: 11/8/2017 13:15

Sample ID: 17K0479-04

Sample Matrix: Drinking Water

Metals Analyses (Total)

Analyte	Results	MCL/SMCL		Units	Dilution	Flag/Qual	Method	Date	Date/Time	Analyst
		RL	MA ORSG					Prepared	Analyzed	
Arsenic	ND	1.0	10	µg/L	1		EPA 200.8	11/14/17	11/14/17 17:18	MJH

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

Project Location: 289 Lower Sandy Hill Rd., Westfi

Sample Description:

Work Order: 17K0479

Date Received: 11/8/2017

Field Sample #: 289 INF-2

Sampled: 11/8/2017 13:16

Sample ID: 17K0479-05

Sample Matrix: Drinking Water

Miscellaneous Organic Analyses

Analyte	Results	RL	MCL/SMCL		Units	Dilution	Flag/Qual	Method	Date	Date/Time	Analyst
			MA	ORSG					Prepared	Analyzed	
# Perfluorobutanesulfonic acid (PFBS)	16	2.0	2		ng/L	1		EPA 537	11/9/17	11/17/17 20:08	BLM
# Perfluorohexanoic acid (PFHxA)	88	2.0	2		ng/L	1		EPA 537	11/9/17	11/17/17 20:08	BLM
Perfluoroheptanoic acid (PFHpA)	ND	2.0	2		ng/L	1		EPA 537	11/9/17	11/17/17 20:08	BLM
# Perfluorohexanesulfonic acid (PFHxS)	220	10	2		ng/L	5		EPA 537	11/9/17	11/19/17 20:00	BLM
# Perfluorooctanoic acid (PFOA)	150	2.0	2		ng/L	1		EPA 537	11/9/17	11/17/17 20:08	BLM
# Perfluorooctanesulfonic acid (PFOS)	470	10	2		ng/L	5		EPA 537	11/9/17	11/19/17 20:00	BLM
# Perfluorononanoic acid (PFNA)	2.1	2.0	2		ng/L	1		EPA 537	11/9/17	11/17/17 20:08	BLM
Perfluorodecanoic acid (PFDA)	ND	2.0	2		ng/L	1		EPA 537	11/9/17	11/17/17 20:08	BLM
NMeFOSAA	ND	2.0			ng/L	1		EPA 537	11/9/17	11/17/17 20:08	BLM
Perfluoroundecanoic acid (PFUnA)	ND	2.0	2		ng/L	1		EPA 537	11/9/17	11/17/17 20:08	BLM
NEtFOSAA	ND	2.0			ng/L	1		EPA 537	11/9/17	11/17/17 20:08	BLM
Perfluorododecanoic acid (PFDoA)	ND	2.0	2		ng/L	1		EPA 537	11/9/17	11/17/17 20:08	BLM
Perfluorotridecanoic acid (PFTriDA)	ND	2.0	2		ng/L	1		EPA 537	11/9/17	11/17/17 20:08	BLM
Perfluorotetradecanoic acid (PFTA)	ND	2.0	2		ng/L	1		EPA 537	11/9/17	11/17/17 20:08	BLM
Surrogates		% Recovery	Recovery Limits								
13C-PFHxA		125	70-130						11/17/17	20:08	
13C-PFHxA		94.3	70-130						11/19/17	20:00	
13C-PFDA		126	70-130						11/17/17	20:08	
13C-PFDA		77.3	70-130						11/19/17	20:00	
d5-NEtFOSAA		71.0	70-130						11/17/17	20:08	
d5-NEtFOSAA		85.2	70-130						11/19/17	20:00	



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

Project Location: 289 Lower Sandy Hill Rd., Westfi

Sample Description:

Work Order: 17K0479

Date Received: 11/8/2017

Field Sample #: 289 INF-2

Sampled: 11/8/2017 13:16

Sample ID: 17K0479-05

Sample Matrix: Drinking Water

Metals Analyses (Total)

Analyte	Results	MCL/SMCL		Units	Dilution	Flag/Qual	Method	Date	Date/Time	Analyst
		RL	MA ORSG					Prepared	Analyzed	
Arsenic	ND	1.0	10	µg/L	1		EPA 200.8	11/14/17	11/14/17 17:21	MIH

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

Sample Extraction Data

Prep Method: EPA 200.8-EPA 200.8

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17K0479-03 [289 EFF-2]	B190987	10.0	10.0	11/14/17
17K0479-04 [289 MID-2]	B190987	10.0	10.0	11/14/17
17K0479-05 [289 INF-2]	B190987	10.0	10.0	11/14/17

Prep Method: EPA 537-EPA 537

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17K0479-02 [289 FB]	B190547	250	1.00	11/09/17
17K0479-03 [289 EFF-2]	B190547	250	1.00	11/09/17
17K0479-04 [289 MID-2]	B190547	250	1.00	11/09/17
17K0479-05 [289 INF-2]	B190547	250	1.00	11/09/17
17K0479-05RE1 [289 INF-2]	B190547	250	1.00	11/09/17

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 B190547 - EPA 537										
Blank (B190547-BLK1)										
Prepared: 11/09/17 Analyzed: 11/19/17										
Perfluoropentanoic acid (PFPeA)	ND	2.0	ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	2.0	ng/L							
Perfluoroheptanoic acid (PFHpA)	ND	2.0	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	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							
Perfluorodecanoic acid (PFDA)	ND	2.0	ng/L							
NMeFOSAA	ND	2.0	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L							
NEtFOSAA	ND	2.0	ng/L							
Perfluorododecanoic acid (PFDoA)	ND	2.0	ng/L							
Perfluorotridecanoic acid (PFTriDA)	ND	2.0	ng/L							
Perfluorotetradecanoic acid (PFTA)	ND	2.0	ng/L							
Surrogate: 13C-PFHxA	35.2		ng/L	40.0		88.0	70-130			
Surrogate: 13C-PFDA	34.4		ng/L	40.0		86.1	70-130			
Surrogate: d5-NEtFOSAA	150		ng/L	160		93.7	70-130			
LCS (B190547-BS1)										
Prepared: 11/09/17 Analyzed: 11/17/17										
Perfluorobutanesulfonic acid (PFBS)	1.99	2.0	ng/L	1.77		112	50-150			
Perfluorohexanoic acid (PFHxA)	2.63	2.0	ng/L	2.00		132	50-150			
Perfluoroheptanoic acid (PFHpA)	1.95	2.0	ng/L	2.00		97.5	50-150			
Perfluorohexanesulfonic acid (PFHxS)	2.16	2.0	ng/L	1.82		119	50-150			
Perfluorooctanoic acid (PFOA)	2.56	2.0	ng/L	2.00		128	50-150			
Perfluorooctanesulfonic acid (PFOS)	2.32	2.0	ng/L	1.85		126	50-150			
Perfluorononanoic acid (PFNA)	2.87	2.0	ng/L	2.00		144	50-150			
Perfluorodecanoic acid (PFDA)	2.76	2.0	ng/L	2.00		138	50-150			
NMeFOSAA	1.63	2.0	ng/L	2.00		81.6	50-150			
Perfluoroundecanoic acid (PFUnA)	2.64	2.0	ng/L	2.00		132	50-150			
NEtFOSAA	1.59	2.0	ng/L	2.00		79.7	50-150			
Perfluorododecanoic acid (PFDoA)	2.28	2.0	ng/L	2.00		114	50-150			
Perfluorotridecanoic acid (PFTriDA)	2.25	2.0	ng/L	2.00		113	50-150			
Perfluorotetradecanoic acid (PFTA)	2.45	2.0	ng/L	2.00		122	50-150			
Surrogate: 13C-PFHxA	43.0		ng/L	40.0		107	70-130			
Surrogate: 13C-PFDA	49.2		ng/L	40.0		123	70-130			
Surrogate: d5-NEtFOSAA	112		ng/L	160		70.2	70-130			

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

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B190987 - EPA 200.8										
Blank (B190987-BLK1)				Prepared & Analyzed: 11/14/17						
Arsenic	ND	1.0	µg/L							
LCS (B190987-BS1)				Prepared & Analyzed: 11/14/17						
Arsenic	40.4	1.0	µg/L	40.0		101	85-115			
Duplicate (B190987-DUP1)		Source: 17K0479-03		Prepared & Analyzed: 11/14/17						
Arsenic	1.02	1.0	µg/L		1.06			3.41	20	
Matrix Spike (B190987-MS1)		Source: 17K0479-03		Prepared & Analyzed: 11/14/17						
Arsenic	28.0	1.2	µg/L	25.0	1.06	108	70-130			



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.



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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>EPA 200.8 in Drinking Water</i>	
Arsenic	CT,MA,NH,NY,RI,NC,ME,VA
<i>EPA 537 in Drinking Water</i>	
Perfluoropentanoic acid (PFPeA)	NH,VT-DW
Perfluorobutanesulfonic acid (PFBS)	VT-DW,ME
Perfluorohexanoic acid (PFHxA)	VT-DW,ME
Perfluoroheptanoic acid (PFHpA)	VT-DW,ME
Perfluorohexanesulfonic acid (PFHxS)	VT-DW,ME
Perfluorooctanoic acid (PFOA)	NH,NY,VT-DW,ME
Perfluorooctanesulfonic acid (PFOS)	NH,NY,VT-DW,ME
Perfluorononanoic acid (PFNA)	VT-DW,ME
Perfluorodecanoic acid (PFDA)	VT-DW,ME
NMeFOSAA	VT-DW
Perfluoroundecanoic acid (PFUnA)	VT-DW,ME
NEtFOSAA	VT-DW
Perfluorododecanoic acid (PFDoA)	VT-DW,ME
Perfluorotridecanoic acid (PFTrDA)	VT-DW,ME
Perfluorotetradecanoic acid (PFTA)	VT-DW,ME

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 Public Health	PH-0567	09/30/2019
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	09/6/2018
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018



17K0479
17K0478

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

Doc # 381 Rev 1_03242017
39 Spruce Street
East Longmeadow, MA 01028

Page 1 of 1

Company Name: ATC Group Services
Address: 73 William Franks Drive, West Springfield, MA (413) 781-0070
Project Name: 289 Lower Sandy Hill Rd, Westfield
Project Location: 289 Lower Sandy Hill Rd, Westfield
Project Number: 183EM00170
Project Manager: Rob Smith
Con-Test Quote Name/Number:
Invoice Recipient:
Sampled By: Elizabeth O'Connor

Con-Test Work Order #	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
01	Trip blank				X	DW	U
02	289 FB	11/8/17 13:13			X	DW	U
03	289 EFF-2	11/8/17 13:14			X	DW	U
04	289 MID-2	11/8/17 13:15			X	DW	U
05	289 INF-2	11/8/17 13:16			X	DW	U
TOTAL As							
EPA METHOD 537							

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: PDF EXCEL
Other:
CLP Like Data Pkg Required:
Email To: rob.smith@atcassociates.com
Fax To #:

Requested: 8 O N P
Preservation Code: 2
Container Code: 3

ANALYSIS REQUESTED

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)

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

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)

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

PCB ONLY
 Soxhlet
 Non Soxhlet

Other:
 Chromatogram
 AIHA-LAP, LLC

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

Detection Limit Requirements:
 MA: MA MCP Required
 MCP Certification Form Required
 CT: CT RCP Required
 RCP Certification Form Required

Special Requirements:
 MA State DW Required

Other:
 PWSID #

Relinquished by: (signature) Elizabeth O'Connor
Date/Time: 11/8/17 16:10
Received by: (signature)
Date/Time: 11/8/17 16:11
Relinquished by: (signature)
Date/Time:
Received by: (signature)
Date/Time:
Relinquished by: (signature)
Date/Time:

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

con-test
 ANALYTICAL LABORATORY
 www.contestlabs.com

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



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 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 BLF Date 11/8/17 Time 1610

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

Were samples within Temperature? 2-6°C F By Gun # 1 Actual Temp - 14.8°C
 By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? NA Were Samples Tampered with? NA
 Was COC Relinquished? T Does Chain Agree With Samples? TF

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? T
 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? NA MS/MSD? NA
 Proper Media/Containers Used? T Is splitting samples required? F
 Were trip blanks received? ~~T~~ On COC? T

Do all samples have the proper pH? Acid T Base NA

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	

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:

did not receive a container for the Trip Blank