

## 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 perflourinated 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:

Printed on Recycled Paper

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 of Westfield's website and can be viewed accessible through the City http://public.dep.state.ma.us/fileviewer/Rtn.aspx?rtn=1-0020093.

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

Sincerely,

Michael Gorski Regional Director Ecc: Barnes ANG - Colonel James Suhr

Colonel Peter Green John Richardson

Barnes Aquifer Protection Committee - Patty Gambarini

Westfield DPW - David Billips

Westfield Health Department - Joseph Rouse Westfield Councilor Mary Ann Babinski

Massachusetts Department of Public Health - Dr. Marc Nascarella



Commonwealth of Massachusetts
Executive Office of Energy & Environmental Affairs

## Department of Environmental Protection

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

Charles D. Baker Governor

Karyn E. Polito Lieutenant Governor Matthew A. Beaton Secretary

> Martin Suuberg Commissioner

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. <sup>1</sup>

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.

Notice of Environmental Sampling 240 Buck Pond Road Westfield, RTN: 1-20093 Page 2 of 2

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

V. Tor

Attachments: Notice of Environmental Sampling (BWSC-123)

Laboratory Report

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

cc:

Denise Andler, DEP WERO Data Entry: FOLOFF, FOLFLD

<sup>&</sup>lt;sup>1</sup> Fact Sheet PFOA & PFOS Drinking Water Health Advisories. EPA, EPA 800 F-16-003, June 2016

### Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup

### **BWSC123**

This Notice is Related to: Release Tracking Number

	т .	
1	-	20093

## NOTICE OF ENVIRONMENTAL SAMPLING

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

	The required by the chart for the charter of the ch
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
В.	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:
-	☐ Immediate Response Action ☐ Phase III Feasibility Evaluation
	☐ Release Abatement Measure ☐ Phase IV Remedy Implementation Plan ☐ Utility-related Abatement Measure ☐ Phase V/Remedy Operation Status
	Phase I Initial Site Investigation Post-Temporary Solution Operation, Maintenance and Monitoring
	Phase II Comprehensive Site Assessment Other (specify)
3.	Description of property where sampling will be/has been conducted:
	☑residential ☐commercial ☐industrial ☐school/playground ☐Other
	(specify)
	Description of the sampling locations and types (e.g., soil, groundwater, indoor air, soil gas) to the extent known at the ee of this notice.
	inking water samples were collected from the private well located on the above-referenced
	operty and analyzed for PHAS via EPA Method 537.1.1.
E. (	Contact information related to the party providing this notice:
	ntact Name: MA Department of Environmental Protection
	reet Address: 436 Dwight Street
	y/Town: Springfield Zip Code: 01103
Те	lephone: (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

1

20093

### **NOTICE OF ENVIRONMENTAL SAMPLING**

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 <a href="http://www.mass.gov/eea/agencies/massdep/cleanup">http://www.mass.gov/eea/agencies/massdep/cleanup</a>. 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 <a href="http://public.dep.state.ma.us/SearchableSites2/Search.aspx">http://public.dep.state.ma.us/SearchableSites2/Search.aspx</a> to view site-specific files on-line or <a href="http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html">http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html</a> 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.

Revised: 5/30/2014 Page 2 of 2



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

Berry K. Mille

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

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ATC Group Services LLC - West Springfield 73 Williams Franks Drive

West Springfield, MA 01089 ATTN: Rob Smith PURCHASE ORDER NUMBER:

REPORT DATE: 11/22/2017

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.

Lisa A. Worthington Project Manager

na Wasslengten



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

			· M	liscellaneous Org	ganic Analys	es				
			MCL/SMC	L				Date	Date/Time	
Analyte	Results	RL	MA ORSG	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
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	I		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
Perfluorogetanoic 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	BL <sub>M</sub>
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 (PFTrDA)	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		% Re	covery	Recovery Limits	3	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	



### 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	



### 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: [1	/09/17 Anal	yzed: 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							
Perfluorofiexanesulfonic 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)	NĐ	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 Anal	yzed: 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			



### 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
ИD	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
EPA 537 in Drinking Water	
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
Perfluorenonanoic 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:

02/1/2018
06/30/2018
09/30/2019
AP 04/1/2018
AP 02/5/2018
12/30/2017
12/31/2017
ELAP 06/30/2018
ELAP 06/30/2018
07/30/2018
. 06/9/2019
12/14/2017
AP 09/6/2018
6 06/12/2018
07/31/2018

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12	1116-3	731	1 .( )(	116-31	и

http://www.contestlabs.com Phone: 413-525-2332

> Address: hone:

CHAIN OF CUSTODY RECORD

Doc # 381 Rev 1\_03242017

Page\_\_1\_\_\_ of \_\_\_\_1\_\_

Dissolved Metals Samples <sup>2</sup> Preservation Codes: X = Sodium Hydroxide N ≅ Nitric Acid S ≅ Sulfuric Acid B ≥ Sodium Bisulfate GW = Ground Water WW = Waste Water DW = Drinking Water Orthophosphate Sam SOL = Solid O = Other (please 2 Preservation Code O. Field Filtered O Field Filtered Matrix Codes O Lab to Filter O. Lab to Filter M = Methanol Container Code r ≅ Sodium SL\* Sludge # of Containers A = Air P821 HANGE HANGE define 39 Spruce Street East Longmeadow, MA 01028 ANALYSIS REQUESTED ᆂ > TOTAL As, Fe, HARDNESS, TOC × z Д Ó ۵. × **EPA METHOD 537** × × ⊃ ⊃  $\Rightarrow$ Requested Turnaround Time Grab Matrix Code O ⋛ š ₹ 10-Day Rush-Approval Rec Data Delivery 3-Day 4-Day EXCEL CLP Like Data Pkg Required: × × × Composite Due Date: 5-day TAT PDF [ Beginning Ending Date/Time 15:58 11/7/2017 15:244 15:57 Email To: Format: Fax To #: Other: 1-Day 2-Day 7-Day 11/7/2017 11/7/2017 73 William Franks Drive, West Springfield, MA Email: info@contestlabs.com 240 Buck Pond Rd - field blank Fax: 413-525-6405 240 Buck Pond Rd, Westfield 240 Buck Pond Rd, Westfield 240 Buck Pond Rd - 1 240 Buck Pond Rd - 2 ATC Group Services Elizabeth O'Connor (413) 781-0070 183EM00170 Rob Smith Con-Test Quote Name/Number: CON-LEST Work Order# 大学 在公园CONTest 公 nvoice Recipient: Project Manager: Company Name: Project Location: Project Number: Project Name: Sampled By:

S = Summa Canister 3 Container Codes: o≡ Other (please Non Soxhlet A = Amber Glass G = Glass = Tedlar Bag PCB ONLY Soxhlet ST = Sterile V = Vial TRIZMA P = Plastic define) define) Please use the following codes to indicate possible sample concentration con-test" Chromatogram www.contestlabs.com AIHA-LAP,LLC H - High; M - Medium; L - Low; C - Clean; U - Unknown within the Conc Code column above; Other WRTA MCP Certification Form Required MA MCP Required CT RCP Required RCP Certification Form Required MWRA School MA State DW Required MBTA Special Requirements Municípality Brownfield # QISMd Detection Limit Requireme Government Federal EXTRACT & HOLD EPA Method 537: 240 Buck Pond Rd-field blank & 240 Buck Pond Rd-2 읈 Project Entity Other: 5 WA 8:00 منع 11/6/11 date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: 11/8/11 ナンハンナ HOLD As, Fe, Hardness, TOC Relinquished by: (signature) elinquished by: (signature) quished by: (signature) Received by: (signature) 2556 ived by: (signature) ived by: (signature) Page 10 of 11

O = Other (please

RUN EPA Method 537: 240 Buck Pond Rd-1

Comments

Thiosulfate

### 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		ITC		···					
Receiv	red By	- BLE		Date		2/17	Time		<u> </u>
How were to	•	In Cooler		No Cooler		On ice		No Ice	
recei	ved?	Direct from Sam	pling			Ambient		Melted ice	
1410	ملطانت ممام		By Gun#	<u> </u>		Actual Tem	p-44.	5.40	
Were sam Temperatu		7	By Blank #			Actual Tem	<del></del>		•
•	Custody Se	al Intact?	_ v 🛆		re Sample	s Tampered		V (C)	
	COC Relin				•	ree With Sa			
		eaking/loose caps	on any sam	,	<u></u>	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	mpide:		
Is COC in in		· ·	on any can	•	nples rece	- ived within h	oldina time?	<del></del>	
Did COC i	_	Client	-	Analysis	1		er Name		
pertinent In		Project		ID's	T T		Dates/Times	T	
Are Sample	labels filled	out and legible?	7	•		•			•
Are there La		·-	F	•	Who wa	s notified?			
Are there Ru	ishes?		<del></del>	•	Who wa	s notified?			
Are there Sh	ort Holds?		F	•	Who wa	s notified?		,	
Is there eno	ugh Volume	?		•					
Is there Hea	dspace whe	re applicable?	<u> </u>		MS/MSD?	<u>wa</u>			
Proper Medi	a/Container	s Used?	7		ls splitting	samples req	uired?	<del></del>	
Were trip bla	anks receive	d?	F		On COC?	<u>PA</u>			
Do all sampl	es have the	proper pH?		Acid	T		Base	10	
Vials	#	Containers				#			#
Unp-		1 Liter Amb.		1 Liter I	Plastic		16 oz	: Amb.	
HCL-	2	500 mL Amb.		500 mL				nb/Clear	
Meoh-		250 mL Amb.		250 mL		3		nb/Clear	
Bisulfate-		Col./Bacteria		Flash				nb/Clear	
DI-		Other Plastic		Other				core	
Thiosulfate-		SOC Kit		Plastic			Frozen:		
Sulfuric-		Perchlorate		Ziplo					
				Unused A	ledia				
Vials	#	Containers:				Ħ	10		#
Unp-		1 Liter Amb.	·	1 Liter I				Amb.	
HCL-		500 mL Amb.		500 mL			<del></del>	b/Clear	
Meoh-		250 mL Amb. Col./Bacteria		250 mL			<del> </del>	b/Clear b/Clear	
Bisulfate- DI-		Other Plastic		Flash		-		core	
Thiosulfate-		SOC Kit		Plastic			Frozen:	.016	
Sulfuric-		Perchlorate	<u> </u>	Ziplo			1 102011.		
Comments:			<u></u>	2	7011	<u>!</u>	<del></del>		***************************************
									1
		,							
		•							



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

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. <sup>1</sup>

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.

Notice of Environmental Sampling 1948 East Mountain 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

V. Tor

Attachments: Notice of Environmental Sampling (BWSC-123)

Laboratory Report

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

cc:

Denise Andler, DEP WERO Data Entry: FOLOFF, FOLFLD

<sup>&</sup>lt;sup>1</sup> Fact Sheet PFOA & PFOS Drinking Water Health Advisories. EPA, EPA 800 F-16-003, June 2016

# Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup

### **BWSC123**

This Notice is Related to: Release Tracking Number

1	-	20093

### NOTICE OF ENVIRONMENTAL SAMPLING

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 N	lumber (provided above):
1. Street Address: 175 Falcon Drive			
City/Town: Westfield	_ Zip Code:	01085	•
B. This notice is being provided to the follo	wing party:		,
Name: Scott and Cindy Warner	<del>,</del>		
2. Street Address: 1948 East Mountain Road			•
City/Town: Westfield	Zip Code:	01085	
C. This notice is being given to inform its re	ecipient (the	party listed in Section B	<b>):</b> _
1. That environmental sampling will be	has been cor	nducted at property owned	by the recipient of this notice.
2. Of the results of environmental samp	olina conducte	ed at property owned by th	e recipient of this notice.
· ·			•
<ol> <li>Check to indicate if the analytical re the environmental sampling must be at</li> </ol>			checked, the analytical results from
D. Location of the property where the enviro	nmental sar	mpling will he/has been o	conducted:
Street Address: 1948 East Mountain Road	Jimionai Jai	mpining with bothless booth t	
•	Zip Code:	01085	
2. MCP phase of work during which the sampli Immediate Response Action		e III Feasibility Evaluation	
Release Abatement Measure	☐ Phas	se IV Remedy Implementat	
☐ Utility-related Abatement Measure ☐ Phase I Initial Site Investigation		se V/Remedy Operation St	atus ation, Maintenance and Monitoring
Phase II Comprehensive Site Assessmen	—	r	
		(specify)	
3. Description of property where sampling will			Пон
residential Commercial	_industrial	☐school/playground	(specify)
4. Description of the sampling locations and ty	pes (e.g., soil	, groundwater, indoor air,	, , , , , , , , , , , , , , , , , , , ,
time of this notice.		•	•
Drinking water samples were collected property and analyzed for PHAS via EF			ne above-referenced
property and analyzed for i ino via Er	Aiviouriou		
E. Contact information related to the party p			·
Contact Name: MA Department of Environme	ntal Protectio	<u>n</u>	
Street Address: 436 Dwight Street	75-0-20	01103	
City/Town: Springfield Telephone: (413) 784-1100	Zip Code: Email· da	avid.bachand.jr@state.ma.	us
relebuoue: 7.1.2/1/2011100	Linaii. ac		· · · · · · · · · · · · · · · · · · ·



### Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup

### **BWSC123**

This Notice is Related to: Release Tracking Number

1

20093

### NOTICE OF ENVIRONMENTAL SAMPLING

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 <a href="http://www.mass.gov/eea/agencies/massdep/cleanup">http://www.mass.gov/eea/agencies/massdep/cleanup</a>. 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 <a href="http://public.dep.state.ma.us/SearchableSites2/Search.aspx">http://public.dep.state.ma.us/SearchableSites2/Search.aspx</a> to view site-specific files on-line or <a href="http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html">http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html</a> 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.

Page 2 of 2



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

Keny K. Mille

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

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B190547	÷ .	7
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ATC Group Services LLC - West Springfield
73 Williams Franks Drive

REPORT DATE: 11/22/2017

73 Williams Franks Drive West Springfield, MA 01089 ATTN: Rob Smith

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:

SAMPLE DESCRIPTION

TEST

SUB LAB

1948 East Mountain Rd-1

17K0440-01 Dri

Drinking Water

MATRIX

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

Wastenster



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										
MCL/SMCL Date  Analyte Results RL MA ORSG Units Dilution Flag/Qual Method Prepared									Date/Time Analyzed	Analyst
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	i		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 (PFTrDA)	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	i.		EPA 537	11/9/17	11/17/17 16:25	BLM
Surrogates % Recovery Recovery Limits Flag/Qual										
13C-PFH×A		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	



### 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	



### 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: II	/09/17 Anal	yzed: 11/19/	17			. <b></b>
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							
MeFOSAA	ND	2.0	ng/L							
Perfluoroundecanoic acid (PFUnA)	ИD	2.0	ng/L							•
IEtFOSAA	ND	2.0	ng/L							
Perfluorododecanoic acid (PFDoA)	. ND	2.0	ng/L							
erfluorotridecanoic acid (PFTrDA)	ND	2.0	ng/L							
erfluorotetradecanoic acid (PFTA)	ND	2.0	ng/L							
urrogate: 13C-PFHxA	35.2		ng/L	40.0		88.0	70-130			•
urrogate: 13C-PFDA	34.4		ng/L	40.0		86.1	70-130			
urrogate: d5-NEtFOSAA	150		ng/L	160		93.7	70-130		'	
.CS (B190547-BS1)				Prepared: 11	/09/17 Anal	yzed: 11/17/	17			
erfluorobutanesulfonic acid (PFBS)	1.99	2.0	ng/L	1.77		112	50-150			
erfluoroliexanoic acid (PFHxA)	2.63	2.0	ng/L	2.00		132	50-150			
erfluorolieptanoic acid (PFHpA)	1.95	2.0	ng/L	2.00		97.5	50-150			
erfluorohexanesulfonic acid (PFHxS)	2.16	2.0	ng/L	1.82		119	50-150			
erfluorooctanoic acid (PFOA)	2.56	2.0	ng/L	2.00		128	50-150			
erfluorooctanesulfonic acid (PFOS)	2.32	2.0	ng/L	1.85		126	50-150			
erfluorononanoic acid (PFNA)	2.87	2.0	ng/L	2.00		144	50-150			
erfluorodecanoic acid (PFDA)	2.76	. 2.0	ng/L	2.00		138	50-150			
IMeFOSAA	1.63	2.0	ng/L	2.00		81.6	50-150			
erfluoroundecanoic acid (PFUnA)	2.64	2.0	ng/L	2.00		132	50-150			
IEtFOSAA	1,59	2.0	ng/L	2.00		79.7	50-150			
erfluorododecanoic acid (PFDoA)	2.28	2.0	ng/L	2.00		114	50-150			
erfluorotridecanoic acid (PFTrDA)	2.25	2.0	ng/L	2,00		113	50-150			
erfluorotetradecanoic acid (PFTA)	2.45	2,0	ng/L	2.00		122	50-150			
urrogate: 13C-PFHxA	43.0		ng/L	40,0		107	70-130			
urrogate: 13C-PFDA	49.2		ng/L	40,0		123	70-130			
urrogate: d5-NEtFOSAA	112		ng/L	160		70.2	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
4D	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
EPA 537 in Drinking Water	
Perfluorobutanesulfonic acid (PFBS)	VT-DW,ME
Perfluorohexanoic acid (PFHxA)	VT-DW,ME
Perfluoroheptanoic acid (PFHpA)	VT-DW,ME
Perfluorchexanesulfonic 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
Perfluerodecanoic 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	AJHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Publile 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

Orthophosphate Samples <sup>2</sup> Preservation Codes: X = Sodium Hydroxide T = Sodium DW - Drinking Water B = Sodium Bisurfate GW = Ground Water WW = Waste Water Container Codes: S = Summa Canister Page \_\_1\_\_\_ of \_\_\_\_1\_\_ Sol = Solid O = Other (please o = Other (please define) T = Tedlar Bag O = Other (please Dissolved Metals S Non Soxhlet A = Amber Glass S ≅ Sutfurie Aeid PCB ONLY O-Field Filtered Soxhlet \* Matrix Codes: <sup>2</sup> Preservation Code O Field Filtered NEWIFTCACIO H = HCL M = Methanol O Lab to Fitter ST = Sterile V = Vial O Lab to Filter Container Code SL = Sludge Thiosulfate TRIZMA Paplastic # of Containers \* Ced define) A= Air S= Soil define) Please use the following codes to indicate possible sample concentration CON-LEST www.contestlabs.com Chromatogram AIHA-LAP,LLC 39 Spruce Street East Longmeadow, MA 01028 H - High; M - Medium; L - Low; C - Clean; U - Unknown ANALYSIS REQUESTED within the Conc Code column above: Other Doc # 381 Rev 1\_03242017 WRTA x > TOTAL As, Fe, HARDNESS, TOC × MCP Certification Form Required CT RCP Required RCP Certification Form Required MA MCP Required Z. Δ. MWRA School MA State DW Required MBTA Special Requirements O م × × × EPA METHOD 537 =  $\Rightarrow$  $\Rightarrow$ http://www.contest(abs.com Requested Turnaround Time Matrix CHAIN OF CUSTODY RECORD O MΩ ⋛ Municipality ⋛ Brownfield PWSID # 10-Day Data Delivery EXCEL 3-Day 4-Day g CLP Like Data Pkg Required: 21.3 Þ × × × Composite Due Date: 5-day TAT POF [ EXTRACT & HOLD EPA Method 537: 1948 East Mountain Rd-field blank & 1948 East Mountain Rd-2 Government Beginning Ending Date/Time Detection Limit Reg Email To: 14:14 11/7/2017 14:08 14:13 Format: Fax To #: Federal Other: 1-Day 2-Day 7-Day 3 Project Entity 11/7/2017 11/7/2017 Other 16 73 William Franks Drive, West Springfield, MA Email: info@contestlabs.com L 61.7 EXX 1948 East Mountain Rd - field blank 8 1948-East Mountain Rd, Westfield 1948 East Mountain Rd, Westfield Phone: 413-525-2332 Fax: 413-525-6405 Date/Time: Date/Time: Date/Time: Date/Time: 1948 East Mountain Rd - 1 1948 East Mountain Rd - 2 <u>80</u> Client Sample ID ATC Group Services Elizabeth O'Connor آ دُ (413) 781-0070 RUN EPA Method 537: 1948 East Mountain Rd-1 183EM00170 Rob Smith エエク Con-Test Quote Name/Number: CON-TEST 10LD As, Fe, Hardness, TOC \$2.5CP iquished by: (signature) Relinquished by: (signature) telinquished by: (signature (ved by: (signature) Received by: (signature) ived by: (signature) Con-Test Work Order# Invoice Recipient: Project Location: Project Manager: Project Number: roject Name: Company Nau Sampled By: Comments: \*ddress: Phone: Page 10 of 11

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 .						
Recei	ved By	BLE		Date	1/8	2/17	Time	_800
	he samples	In Cooler		No Cooler		On Ice	· T	No Ice
rece	ived?	Direct from Sam	pling			Ambient		Melted Ice
Mare com	ples within		By Gun#	1		Actual Tem	p-4.4.	5.40
	re? 2-6°C	Т	By Blank #			Actual Tem		
•	Custody S	eal Intact?	LA		re Sample:	s Tampered		<u> </u>
	s COC Relin		T	Does	-	ree With Sa		
		eaking/loose caps	on any sam		E			***************************************
	nk/ Legible?				nples recei		olding time?	
Did COC i pertinent In		Client Project		Analysis _ iD's	<del> </del>		er Name Dates/Times	
•		f out and legible?	<del></del>	אַרווו פ		Collection	Dates/Times	
Are there La		_			Who was	notified?		•
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Are there St	nort Holds?		F		Who was	notified?	<del></del>	e <del>lem (1848-1848-1844) and and and an explayer per reprod</del> •
Is there eno	_		T			_		
		re applicable?	E		MS/MSD?	$ \nu$ $\!$		
Proper Medi			<u> </u>			samples req	uired?	
Were trip bla			<del></del>		On COC?	<u> </u>	Door	
Do all sampl	es nave me	brober bus		Acid			Base	
uais Unp-		1 Liter Amb.		1 Liter F	Plaetic		16 oz	Amh
HCL-	2	500 mL Amb.		500 mL l				ıb/Clear
Meoh-		250 mL Amb.	· <del></del>	250 mL		ろ	4oz Am	
Bisulfate-		Col./Bacteria		Flash	oint		2oz Am	
DI-		Other Plastic	<del></del>	Other C			Enc	ore
Thiosulfate- Sulfuric-		SOC Kit Perchlorate		Plastic			Frozen:	
Sullulio-		rerunurale		Ziplo				
				Eliting out of	Bulling and			
Jaja Unp-		1 Liter Amb.		1 Liter P	lactic		16 oz	Amb
HCL-		500 mL Amb.		500 mL l			8oz Am	
Meoh-		250 mL Amb.	***, **	250 mL F			4oz Am	
3isulfate-		Col./Bacteria		Flashp			2oz Am	
DI-		Other Plastic		Other G			Enc	оге
Thiosulfate- Sulfuric-		SOC Kit Perchlorate		Plastic	<del>,</del>		Frozen:	
Comments:		reichiorate [		Ziplo	СК			
3011111301103.					<del></del>			1
	•							
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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

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. Department thanks you for granting access to your property.

Notice of Environmental Sampling 101 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

V. Ton

Attachments: Notice of Environmental Sampling (BWSC-123)

Laboratory Report

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

Dr. Marc A. Nascarena, 1 n.D/D1 1

cc:

Denise Andler, DEP WERO Data Entry: FOLOFF, FOLFLD

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

#### Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup

#### **BWSC123**

This Notice is Related to: Release Tracking Number

-	200

#### NOTICE OF ENVIRONMENTAL SAMPLING

)93 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 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: 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 01085 City/Town: Westfield Zip Code: 2. MCP phase of work during which the sampling will be/has been conducted: ✓ Immediate Response Action ☐ Phase III Feasibility Evaluation Phase IV Remedy Implementation Plan Release Abatement Measure ☐ Phase V/Remedy Operation Status Utility-related Abatement Measure Post-Temporary Solution Operation, Maintenance and Monitoring Phase I Initial Site Investigation Phase II Comprehensive Site Assessment ☐ Other (specify) 3. Description of property where sampling will be/has been conducted: commercial industrial school/playground ✓ residential 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 01103 Zip Code: Email: david.bachand.jr@state.ma.us Telephone: (413) 784-1100



# Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup

### NOTICE OF ENVIRONMENTAL SAMPLING

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

#### **BWSC123**

This Notice is Related to: Release Tracking Number

1	
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20093

#### 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 <a href="http://www.mass.gov/eea/agencies/massdep/cleanup">http://www.mass.gov/eea/agencies/massdep/cleanup</a>. 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 <a href="http://public.dep.state.ma.us/SearchableSites2/Search.aspx">http://public.dep.state.ma.us/SearchableSites2/Search.aspx</a> to view site-specific files on-line or <a href="http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html">http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html</a> 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.

Revised: 5/30/2014 Page 2 of 2



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

Keny K. Mille

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

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B190547	8
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ATC Group Services LLC - West Springfield 73 Williams Franks Drive West Springfield, MA 01089

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:

ATTN: Rob Smith

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.

Lisa A. Worthington Project Manager

na Wastlenster



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

			M	liscellaneous Org	anic Analys	es				
			MCL/SMC	L .				Date	Date/Time	
Analyte	Results	RL	MA ORSO	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
Perfluoropentanoic acid (PFPeA)	ND	2.0		ng/L	I		EPA 537	11/9/17	11/19/17 17:27	BLM
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	2	ng/L	I		EPA 537	11/9/17	11/19/17 17:27	BLM
Perfluorohexanoic acid (PFHxA)	ND	2.0	2	ng/L	I		EPA 537	11/9/17	11/19/17 17:27	BLM
Perfluoroheptanoic acid (PFHpA)	ND	2.0	2	ng/L	ı		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 (PFTrDA)	ND	2.0	2	ng/L	ı		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	· · · · · · · · · · · · · · · · · · ·	% Re	covery	Recovery Limits		Flag/Qual				
I3C-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	



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									
			MCL/SMC					Date	Date/Time	
Analyte	Results	RL	MA ORS	G Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
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	I		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	I .		EPA 537	11/9/17	11/19/17 17:40	BLM
Surrogates		% Rec	overy	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	



#### 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	



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

#### Miscellaneous Organic Analyses - Quality Control

[		Reporting		Spike	Source	e	%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD .	Limit	Notes
Batch B190547 - EPA 537										
Blank (B190547-BLK1)	· ———			Prepared: 11	/09/17 Anal	yzed: 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						<u>,</u>	
Perfluorenonanoic acid (PFNA)	ND	2,0	ng/L							
Perfluorodecanoic acid (PFDA)	ND	2.0	ng/L							
NMcFOSAA	ND	2.0	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L							
NEIFOSAA	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-BS1)				Prepared: 11	/09/17 Analy	yzed: 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			
Perfluorocetanoic 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	•	881	50-150			
NMcFOSAA	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			
NEIFOSAA	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			



#### 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
<b>i</b> CL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the

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



#### CERTIFICATIONS

#### Certified Analyses included in this Report

Certifications
NH,VT-DW
VT-DW,ME
VT-DW,ME
VT-DW,ME
VT-DW,ME
NH,NY,VT-DW,ME
NH,NY,VT-DW,ME
VT-DW,ME
VT-DW,ME
VT-DW
VT-DW,ME
VT-DW
VT-DW,ME
VT-DW,ME
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-Р	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

Page 11 of 12

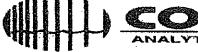
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium
Thiosulfate GW = Ground Water WW = Waste Water DW = Drinking Water <sup>2</sup> Preservation Codes S - Summa Canister 3 Container Codes Page \_\_1\_\_\_ of \_\_\_1\_\_ O = Other (please O = Other (please O = Other (please Non Soxhiet T = Tedlar Bag A = Amber Glass
G = Glass PCB ONLY Dissolved Metals Matrix Codes: S=Sutfuricacid Soxhlet M = Methanol N = Nitric Acid O Field Filtered Preservation Code O Field Filtered O Lab to Fitter O Lab to Filter ST = Sterile V = Vial SL = Studge Container Code P = Plastic TRIZMA # of Containers define) define) S≅-Soil EN EC A=Arr Please use the following codes to indicate possible sample concentration CON-LEST AIHA-LAP,LLC Chromatogram 39 Spruce Street East Longmeadow, MA 01028 H - High; M - Medium; L - Low; C - Clean; U - Unknown ANALYSIS REQUESTED within the Conc Code column above: Other Doc # 381 Rev 1\_03242017 WRTA J. × TOTAL As, Fe, HARDNESS, TOC CT RCP Required
RCP Certification Form Required MA MCP Required MCP Certification Form Required MWRA School z ۵ MA State DW Required MBTA Special Requirements 0 × × × EPA METHOD 537 × Code aboy  $\supset$  $\supset$ ⊃ Matrix Code http://www.contestlabs.com CHAIN OF CUSTODY RECORD  $\Box$ ձ ձ š Municipality Brownfield PWSID # 10-Day 4-Day 9 3-Day EXCEL CLP Like Data Pkg Required: × × × Composite Due Date: 5-day TAT Government Enging Date/Time Email 70: Federal Format: 11/7/2017 8:54 11/7/2017 9:07 11/7/2017 9:08 16:15 Fax To #: EXTRACT & HOLD EPA Method 537: 101 Ridge Trail Rd-field blank & 101 Ridge Trail Rd-2 O-Day Other: 7-Day 1-Day Ü Project Entity Other r/9/u C 73 William Franks Drive, West Springfield, MA Email: info@contestlabs.com J 6:00 101 Ridge Trail Rd - field blank 101 Ridge Trail Rd, Westfield 101 Ridge Trail Rd, Westfield 11/8/17 Date/Time: Fax: 413-525-6405 Date/Time: Date/Time: Date/Time: Date/Time: Date/Ťime; ill Bh7 101 Ridge Trail Rd - 2 101 Ridge Trail Rd - 1 ATC Group Services Elizabeth O'Connor Trip Blank (413) 781-0070 183EM00170 RUN EPA Method 537: 101 Ridge Trail Rd-1 Rob Smith η. Σ.Θ Received by: (signature) 4.4 Con-Test Quote Name/Number: HOLD As, Fe, Hardness, TOC CON-LEST quished by: (signature) Relinguished by: (signature) Relinquished by: (signature) ived by: (signature) ved by: (signature) COUR CONTEST Work Order# Ō Invoice Recipient: Project Location: Project Manager: Project Number: Project Names Sampled By: Comments Address: Phone:

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		ITC .							
Recei	ved By	- PLF		Date	1/18	2117	Time	_8	$\sim$
	he samples	in Cooler		No Cooler	•	On Ice		No Ice	
rece	ived?	Direct from Samp	oling			Ambient		Melted Ice	
Were sam	ples within		By Gun#		•	Actual Tem	p. 4.4.	5.4.0	
	re? 2-6°C	T	By Blank #			Actual Tem	p -		_
Was	s Custody So	eal Intact?	LA	We	re Sample	s Tampered		<u>ua</u>	
	s COC Relin	•	<u> </u>		Chain Ag	ree With Sa	mples?	T	-
		eaking/loose caps	on any sam			<u>.</u>			
Is COC in in Did COC	nk/ Legible?	Client	. <del>4-</del>	Were sam Analysis	ples recei	ved within h			•
pertinent In		Project		ID's	·		er Name Dates/Times		-
•		out and legible?	<del></del>			Conconon	Dates/ Fillipes		•
	b to Filters?		<del>-</del>		Who was	s notified?			
Are there Ru			E		Who wa	s notified?			
Are there St			<u> </u>		Who was	s notified?			•
	ugh Volume								
	• ,	re applicable?	-E-		MS/MSD?			·	
_	ia/Container anks receive		<u> </u>		s splitting On COC?	samples req	uired?	<del></del>	
•	es have the			Acid	511000; T	<u></u>	Base	LA	
elets		propor pri	Constant Constant Pri				Daoo.		and the control of the control of
Jnp-		1 Liter Amb.		1 Liter F	lastic		16 oz	Amh	
-ICL-	2	500 mL Amb.		500 mL l			8oz Am		
Meoh-		250 mL Amb.		250 mL l		374	4oz Am		···
3isulfate-		Col./Bacteria		Flash			2oz Am		
Ol- Fhiosulfate⊷		Other Plastic		Other C			Enc	ore	
Hosunate- Sulfuric-		SOC Kit Perchlorate		Plastic Ziplo			Frozen:		
		T GIO/IIG/GRO							
				Unused (					
Jnp-		1 Liter Amb.	ere dieta a tradesia.	1 Liter P	iastic		16 oz	Amb.	
ICL-		500 mL Amb.	· · · · · · · · · · · · · · · · · · ·	500 mL F			8oz Am		
/leoh-		250 mL Amb.		250 mL f	·		4oz Am	b/Clear	
Bisulfate-		Col./Bacteria		Flashp			2oz Am		
)l- hiosulfate-		Other Plastic SOC Kit		Other G			Enc	ore	
Sulfuric-		Perchlorate		Plastic Ziplo	<del></del>	<del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>	Frozen:		·
omments:			L	2:010	<u> </u>				L
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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. <sup>1</sup>

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.

Notice of Environmental Sampling 77 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 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

L V.TR

Attachments: Notice of Environmental Sampling (BWSC-123)

Laboratory Report

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

cc:

Denise Andler, DEP WERO Data Entry: FOLOFF, FOLFLD

<sup>&</sup>lt;sup>1</sup> Fact Sheet PFOA & PFOS Drinking Water Health Advisories. EPA, EPA 800 F-16-003, June 2016

#### Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup

#### **BWSC123**

This Notice is Related to: Release Tracking Number

1	-	20093	

#### NOTICE OF ENVIRONMENTAL SAMPLING

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 01085 Zip Code: 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 01085 Zip Code: 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 01085 City/Town: Westfield Zip Code: 2. MCP phase of work during which the sampling will be/has been conducted: Immediate Response Action Phase III Feasibility Evaluation Phase IV Remedy Implementation Plan Release Abatement Measure Phase V/Remedy Operation Status Utility-related Abatement Measure Post-Temporary Solution Operation, Maintenance and Monitoring Phase I Initial Site Investigation Phase II Comprehensive Site Assessment Other. (specify) 3. Description of property where sampling will be/has been conducted: School/playground Commercial Tindustrial Other residential 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 01103 Zip Code: 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

1	
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- 20093

#### **NOTICE OF ENVIRONMENTAL SAMPLING**

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 méasured 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 <a href="http://www.mass.gov/eea/agencies/massdep/cleanup">http://www.mass.gov/eea/agencies/massdep/cleanup</a>. 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 <a href="http://public.dep.state.ma.us/SearchableSites2/Search.aspx">http://public.dep.state.ma.us/SearchableSites2/Search.aspx</a> to view site-specific files on-line or <a href="http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html">http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html</a> 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.

Revised: 5/30/2014 Page 2 of 2



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

Keny K. Mille

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
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17K0443-01	. 5
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B190547	. 7
Flag/Qualifier Summary	8
Certifications	9
Chain of Custody/Sample Receipt	10



ATC Group Services LLC - West Springfield

73 Williams Franks Drive West Springfield, MA 01089 ATTN: Rob Smith PURCHASE ORDER NUMBER:

REPORT DATE: 11/22/2017

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



#### 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.

Lisa A. Worthington
Project Manager



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

			M	liscellaneous Org	anic Analys	es				
			MCL/SMC	L				Date	Date/Time	
Analyte	Results	RL	MA ORSG	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analys
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	I		EPA 537	11/9/17	11/19/17 17:14	BLM
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	2	ng/L	. 1		EPA 537	11/ <del>9</del> /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	I		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 (PFTrDA)	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		% Re	covery	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	



#### Sample Extraction Data

Prep Method: EPA 537-EPA 537

Lab Number [Field ID]	Batch	Initial [mL]	Finat [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

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B190547 - EPA 537				-						
Blank (B190547-BLK1)			-	Prepared: 11	/09/17 Anal	zed: 11/19/1	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	*						
erfluorononanoic acid (PFNA)	·ND	2,0	ng/L							
Perfluorodecanoic acid (PFDA)	ND	2.0	ng/L							-
MeFOSAA	ND	2.0	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L							
NE(FOSAA	ND	2.0	ng/L							
erfluorododecanoic acid (PFDoA)	ND	2.0	ng/L							
erfluorotridecanoic acid (PFTrDA)	ND	2.0	ng/L							
erfluorotetradecanoic acid (PFTA)	ND	2.0	ng/L							
urrogate: 13C-PFHxA	35.2		ng/L	40.0		88.0	70-130			-
urrogate: 13C-PFDA	34.4		ng/L	40.0		86.1	70-130			
urrogate: d5-NEtFOSAA	150	•	ng/L	160		93.7	70-130			
.CS (B190547-BS1)	•			Prepared: 11	/09/17 Anal	yzed: 11/17/	17			
Perfluorobutanesulfonic acid (PFBS)	1.99	2.0	ng/L	1,77		112	50-150			
erfluorohexanoic acid (PFHxA)	2.63	2.0	ng/L	2.00		132	50-150			
erfluoroheptanoic acid (PFHpA)	1.95	2.0	ng/L	2.00		97.5	50-150			
erfluorohexanesulfonic 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			
erfluorooctanesulfonic 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			
erfluorodecanoic acid (PFDA)	2.76	2.0	ng/L	2,00		138	50-150			
MeFOSAA	1.63	2.0	ng/L	2.00		81.6	50-150			
erfluoroundecanoic acid (PFUnA)	2.64	2.0	ng/L	2.00		132	50-150			
IEIFOSAA	1.59	2,0	ng/L	2.00		79.7	50-150			
erfluorododecanoic acid (PFDoA)	2,28	2.0	ng/L	2,00		114	50-150			
erfluorottidecanoic acid (PFTrDA)	2.25	2.0	ng/L	2.00		113	50-150			
erfluorotetradecanoic acid (PFTA)	2.45	2.0	ng/L	2.00		122	50-150			
urrogate: 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.



#### CERTIFICATIONS

#### Certified Analyses included in this Report

Analyte ,	Certifications	
EPA 537 in Drinking Water	(	
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)	ин,иү,vт-dw,ме	
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	
NEIFOSAA	VT-DW	
Perfluorododecanoic acid (PFDoA)	VT-DW,ME	
Perfluorotridecanoic acid (PFTrDA)	VT-DW,ME	
Perfluorotetradecanoic acid (PFTA)	VT-DW,ME	•
mt governomm '	ter and an electric feeting and appredictions:	

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	Verniont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018
	<u>-</u>	and the second s	

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$T_{\sim}$	ble	αf	$\sim$	nta	nte
10	UIIC	w		1116	1113

<sup>2</sup> Preservation Codes ✓ Sodium Hydroxide GW ≈ Ground Water WW = Waste Water DW ≅ Drinking Water 5 Sodium Bisulfate Container Codes: S = Summa Canister Page \_\_1\_\_ of \_\_\_1\_\_ T≅ Tedlar Bag O ≠ Other (please **O** ≅ Other (please O = Other (please Yon Soxhlet Dissolved Metals Or Field Filtered = Suffuric Acid A = Amber Glass PCB ONLY O Field Filtered **Orthophosphate** Matrix Codes: Soxhlet Preservation Code N INTERIOR ACID O Lab to Fifter O Lab to Filter N = Wethanol ST = Sterile <sup>3</sup> Container Code SL=Sludge SOL≈ Solid hiosulfate G = Glass P = Plastic # of Containers € Sodium define NEW ≅V define define) **B** HAT HOL A = Air S = 501 Please use the following codes to indicate possible sample concentration con-test www.contestlabs.com Chromatogram AIHA-LAP, LLC 39 Spruce Street East Longmeadow, MA 01028 H - High; M - Medium; L - Low; C - Clean; U - Unknown ANALYSIS REQUESTED Other within the Conc Code column above; Doc # 381 Rev 1\_03242017 WRTA 1 > TOTAL AS, Fe, HARDNESS, TOC × CT RCP Required MA MCP Required MCP Certification Form Required RCP Certification Form Required Z. ۵, School MA State DW Required MWRA MBTA Special Requirements 0 \_ × × **EPA METHOD 537** ×  $\Rightarrow$ ⊃ ⊃ http://www.contestlabs.com Matrix CHAIN OF CUSTODY RECORD [] ձ Ã Ă Municipatity Brownfield PWSID # 10-Day Rush Approval Reg Data Delivery EXCEL 3-Day 4-Day Grab CLP Like Data Pkg Required: 口 × × × Due Date: 5-day TAT PDF [3 Government 
Federal 
City Ending of Oate/Time 13:26 13:40 Email To: Fax To# 13:41 Format: 2-Day Other: 7-Day -bay EXTRACT & HOLD EPA Method 537: 77 Ridge Trail Rd-field blank & 77 Ridge Trail Rd-2 Project Entity 11/7/2017 11/7/2017 11/7/2017 Other: MA 15 73 William Franks Drive, West Springfield, MA Email: info@contestlabs.com 800 Date/Time: 11 5/17 600 77 Ridge Trail Rd - field blank Fax: 413-525-6405 77 Ridge Trail Rd, Westfield 77 Ridge Trail Rd, Westfield 11 8 17 Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: 77 Ridge Trail Rd - 1 77 Ridge Trail Rd - 2 ATC Group Services Elizabeth O'Connor (413) 781-0070 183EM00170 いるのでい Rob Smith RUN EPA Method 537: 77 Ridge Trail Rd-1 Con-Test Quote Name/Number: CON-LEST HOLD As, Fe, Hardness, TOC Relinguished by: (signature) Relinquished by: (signature) quished by: (signature) Received by: (signature) OCENTO ived by: (signature) ived by: (signature) Con-Test Work Order 6 Invoice Recipient: Company Name: Project Location: Project Manager: Project Number: roject Name: Sampled By: \ddress: Page 10 of 11

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	<u> </u>	ATC		`	the Onem	- Otale 110	ic Of False		
Recei	ved By	BLE		Date	1/8	7/17	Time	8\	$\bigcirc$
	the samples	in Cooler		No Cooler	,	On Ice		No Ice	
rece	ived?	Direct from Sam	pling			Ambient	1 <del>-1 </del>	Melted Ice	
Were sam	ples within		By Gun#			Actual Ten	np - 4.4	,5.40	
Temperat	ure? 2-6°C		By Blank #			Actual Ten	np -		
Wa	s Custody S	eal Intact?	LA	Wei	re Samples	Tampered	d with?	LA	
	s COC Relir	•	T.		Chain Agr	ee With Sa	imples?	T	
		eaking/loose caps	s on any sam		F				
	nk/ Legible?	<del></del>	<u>⊶,</u> .		iples receiv		olding time?		
	include all	Client		Analysis _		•	ler Name	T	
•	formation?	Project	<u> </u>	ID's		Collection	Dates/Time	s	
		d out and legible?							
	ab to Filters?	?	<u>+</u>		Who was			· · · · · · · · · · · · · · · · · · ·	
Are there R		•	<u> </u>		Who was				
Are there St		0	<u></u>		Who was	notified?	·		
	ugh Volume							•	
	-	ere applicable?	<u> </u>		MS/MSD?_				
•	ia/Container				s splitting s	amples red	quired?	+-	
•	anks receive	proper pH?			Ou COC.				
	es have the	hiohei hu i		Acid _			Base		
		<b>Statistics</b>							
Unp-		1 Liter Amb.		1 Liter P		·	<u> </u>	z Amb.	
-lCL- Meoh-	2	500 mL Amb.		500 mL F				nb/Clear	· ,
Sisulfate-		250 mL Amb. Col./Bacteria		250 mL F		3_	<del></del>	nb/Clear	
DI-		Other Plastic		Flashp Other G				nb/Clear	
hiosulfate-		SOC Kit	<del></del>	Plastic		***	Frozen:	core	
Sulfuric-		Perchlorate		Ziplo		<del></del>	102611.		
(615)		jen elimes es		University					
Jnp-		1 Liter Amb.		1 Liter Pi	lactic		16.0-	z Amb.	
iCL-		500 mL Amb.		500 mL F				nb/Clear	
/leoh-		250 mL Amb.		250 mL P		** * * * * * * * * * * * * * * * * * * *		nb/Clear	
Bisulfate-		Col./Bacteria		Flashpo				nb/Clear	
) -		Other Plastic		Other G				core	
hiosulfate-		SOC Kit		Plastic I		***************************************	Frozen:	<del></del>	
Sulfuric-		Perchlorate		Ziploc	ck .	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
comments:									
. ,									
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•								•	l
									1



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

Keny K. Mille

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
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ATC Group Services LLC - West Springfield
73 Williams Franks Drive

West Springfield, MA 01089 ATTN: Rob Smith PURCHASE ORDER NUMBER:

REPORT DATE: 11/30/2017

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

Wastlenster



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

			Λ	Miscellaneous Or	ganic Analys	es		•		
Analyte	Results	RL	MCL/SMC		Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
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
Perfluorononanoie 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
NEIFOSAA	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 (PFTrDA)	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		% Rec	covery	Recovery Limit	s	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	



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

			I	Aiscellaneous O	rganic Analy	ses				
MCL/SMCL Date Date/Time										
- Analyte	Results	RL	MA ORS	- Units	Dilution	Flag/Qual	Method	Prepared	Analyzed ·	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	2	ng/L	i		EPA 537	11/9/17	11/19/17 20:12	BLM
Perfluoronexanoic 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	I		EPA 537	11/9/17	11/19/17 20:12	BLM
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	. 2	ng/L	I		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
NMcFOSAA	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		% Rec	overy	Recovery Limit	ts	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	



#### . 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	



# 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
	Kesui	Tinité	OIMG	Fever	Resuit	70KEC	PHH7	- KID	Pime	Notes
Batch B190551 - EPA 537				<del></del>						
Blank (B190551-BLK1)		•		Prepared: 11	/09/17 Analy	/zed: 11/19/	17			
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	ng/L							
Perfluorobexanoic acid (PFHxA)	ND	2.0	ng/L							
Perfluoreheptanoic acid (PFHpA)	ND	2.0	ng/L							
Perfluorohexanesulfonic acid (PFHxS)	ND	2.0	ng/L							
erfluorooctanoic acid (PFOA)	ND	2.0	ng/L							
erfluorooctanesulfonic acid (PFOS)	ND	2.0	ng/L							
erfluorononanoic acid (PFNA)	ND	2.0	ng/L							
erfluorodecanoic acid (PFDA)	ND	2.0	ng/L							
MeFOSAA	ND	2.0	ng/L							
erfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L							
EtFOSAA	ND	2.0	ng/L							
erfluorododecanoic acid (PFDoA)	ND	2.0	ng/L							
erfluorotridecanoic acid (PFTrDA)	ND	2.0	ng/L							
erfluorotetradecanoic acid (PFTA)	ND	2.0	ng/L							
штоgate: 13C-PFHxA	35.2		ng/L	40.0		87.9	70-130			
urrogate: 13C-PFDA	36.8		ng/L	40.0		92.0	70-130			
urrogate: d5-NEtFOSAA	143		ng/L	160		89.1	70-130		:	
CS (B190551-BS1)				Prepared: 11	/09/17 Analy	zed: 11/19/1	.7			
erfluorobutanesulfonic acid (PFBS)	10.2	2.0	ng/L	8,85		115	70-130			
erfluorohexanoic acid (PFHxA)	9.49	2.0	ng/L	10.0		94.9	70-130			
erfluoroheptanoic acid (PFHpA)	9.09	2.0	ng/L	10.0		90.9	70-130			
erfluorohexanesulfonic acid (PFHxS)	10.7	2,0	ng/L	9,10		117	70-130			
erfluorooctanoic acid (PFOA)	10,9	2.0	ng/L	10.0		109	70-130			
erfluorooctanesulfonic acid (PFOS)	9.14	2,0	ng/L	9.25		98.8	70-130			
erfluorononanoic acid (PFNA)	10.1	2.0	ng/L	10.0		101	70-130			
erfluorodecanoic acid (PFDA)	11.3	2.0	ng/L	10.0		113	70-130			
IM¢FOSAA	10.6	2.0	ng/L	10,0		106	70-130			
erfluoroundecanoic acid (PFUnA)	10.6	2.0	ng/L	10.0		106	70-130		Λ.	
EtFOSAA	11.5	2.0	ng/L	10.0		115	70-130		*	
erfluorododecanoic acid (PFDoA)	9,96	2.0	ng/L	10.0		99.6	70-130			
erfluorotridecanoic acid (PFTrDA)	9,54	2.0	ng/L	10.0		95.4	70-130			
erfluorotetradecanoic acid (PFTA)	10.5	2,0	ng/L	10.0		105	70-130			
ırrogate: 13C-PFHxA	37.9		ng/L	40.0		94,9	70-130			
urrogate: I3C-PFDA	40.7		ng/L	40.0	•	102	70-130			
urrogate; 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.



#### CERTIFICATIONS

#### Certified Analyses included in this Report

Analyte	Certifications	
EPA 537 in Drinking Water		
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 Publik 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-LEST

Phone: 413-525-2332

Fax: 413-525-6405

http://www.contestlabs.com

CHAIN OF CUSTODY RECORD

Doc # 381 Rev 1\_03242017

39 Spruce Street East Longmeadow, MA 01028

Page \_\_1\_\_\_ of \_\_\_1\_\_

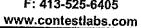
Table of Contents Dissolved Metals Sampl GW = Ground water WW = WasterWater DW = Drinking Water Preservation Codes: B = Sodiem Bisulfate X = Sodiem Hydroxide 3 Container Codes: SOL=Suidge SOL=Solid O = Other (please S ≤ Summa Canister O=Other (please O = Other (please N = Nitric Acid S = Sulfuric Acid A = Amber Glass G = Glass Non Soxhle Matrix Codes: PCB ONLY Soxhlet <sup>2</sup> Preservation Code O .Field/Filtered O. Field Filtered T = Tedlar Bap O Lab to Filter O Lab to Filter M = Wethanol = Sodium ST = Sterile Thiosulfate # of Containers -TRIZMA P = Plastic deffnê) A = Air S = Soil define Please use the following codes to indicate possible sample concentration Chromatogram AIHA-LAP,LLC www.combestlebs.com H - High; M - Medium; L - Low; C - Clean; U - Unknown ANALYSIS REQUESTED within the Conc Code column above: Other WRTA r TOTAL As, Fe, HARDNESS, TOC MCP Certification Form Required z CT RCP Required RCP Certification Form Required MWRA School MA State DW Required MBTA ın O Special Requirements EPA METHOD 537 × ×  $\Rightarrow$  $\supset$  $\supset$ O χĎ Ã Ճ Municipality Brownfield # GISMd 10-Day Rush-Approval Requ Data Delivery 3-Day 4-Day EXCE 되 CLP Like Data Pkg Required: × × Due Date: 5-day TAT Detection Limit Requirements o ida Government 13:26 13:40 Email To: Format: Fax To # 13:41 Federal Other: 7-Day 1-Day 2-Day EXTRACT & HOLD EPA Method 537; 77 Ridge Trail Rd-field blank & 77 Ridge Trail Rd-2 City Project Entity 11/7/2017 11/7/2017 11/7/2017 Other: MA נל 73 William Franks Drive, West Springfield, MA Email: info@contestlabs,com 8:00 Date/Time: 11 8 17 600 Date/Time: 77 Ridge Trail Rd - field blank 77 Ridge Trail Rd, Westfield 77 Ridge Trail Rd, Westfield 1119111 Date/Time: Date/Time; Date/Time: Date/Time: 77 Ridge Trail Rd · 2 77 Ridge Trail Rd - 1 ATC Group Services Elizabeth O'Connor (413) 781-0070 183EM00170 Rob Smith RUN EPA Method 537: 77 Ridge Trail Rd-1 Ţ. T Con-Test Quote Name/Number: HOLD As, Fe, Hardness, TOC Relinguished by: (signature) Relinquished by: (signature) quished by: (signature) **建设是建设的工程** Con-Test. Work Order# Dening Ó Received by: (signature) ived by: (signature) ived by: (signature) invoice Recipient: Project Location: Project Manager: Project Number: Project Name: Sampled By: Address: hone: Page 11 of 12

39 Spruce St.

East Longmeadow, MA. 01028

P: 413-525-2332

F: 413-525-6405





Doc# 277 Rev 5 2017

	Sample R	eceipt Checklist	- (Rejection	Criteria Listi.	ng - Using Acce	ptance Policy)	UT/ Anv False	ileleleleleleleleleleleleleletetetete
	State	ment will be bro	ught to the a	ttention of ti	ie Client - State	True or False	<b>,</b>	
Client		$\mathbb{C}$						-
	ved By	PIF		Date	1118117	Time	80	· · · · · · · · · · · · · · · · · · ·
How were t		In Cooler		No Cooler	On lo	ce T	No Ice	
rece	ived?	Direct from San	npling		Amble	<del></del>	Melted Ice	<del></del>
Were sam	ples within		By Gun#	1	Actual 1			
	ure? 2-6°C	·· ~	By Blank #			<del></del>	+0.9	<del></del>
	s Custody S	eal Intact?			Actual آ Samples Tampe		· ·	•
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#### 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. <sup>1</sup>

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.

Notice of Environmental Sampling 30 Hopkins 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

Attachments: Notice of Environmental Sampling (BWSC-123)

Laboratory Report

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

cc:

Denise Andler, DEP WERO Data Entry: FOLOFF, FOLFLD

<sup>&</sup>lt;sup>1</sup> Fact Sheet PFOA & PFOS Drinking Water Health Advisories. EPA, EPA 800 F-16-003, June 2016

#### 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 01085 Zip Code: B. This notice is being provided to the following party: 1. Name: Douglas Sudnick 2. Street Address: 30 Hopkins Road City/Town: Westfield 01085 Zip Code: 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 01085 City/Town: Westfield Zip Code: 2. MCP phase of work during which the sampling will be/has been conducted: Phase III Feasibility Evaluation ✓ Immediate Response Action Release Abatement Measure Phase IV Remedy Implementation Plan Phase V/Remedy Operation Status Utility-related Abatement Measure Post-Temporary Solution Operation, Maintenance and Monitoring ☐ Phase I Initial Site Investigation Phase II Comprehensive Site Assessment Other (specify) 3. Description of property where sampling will be/has been conducted: industrial school/playground residential ☐ commercial 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 01103 Zip Code: Email: david.bachand.jr@state.ma.us Telephone: (413) 784-1100



# Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup

### BWSC123

This Notice is Related to: Release Tracking Number

1
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- 20093

#### NOTICE OF ENVIRONMENTAL SAMPLING

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 <a href="http://www.mass.gov/eea/agencies/massdep/cleanup">http://www.mass.gov/eea/agencies/massdep/cleanup</a>. 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 <a href="http://public.dep.state.ma.us/SearchableSites2/Search.aspx">http://mass.gov/eea/agencies/Search.aspx</a> to view site-specific files on-line or <a href="http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html">http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html</a> 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.

Revised: 5/30/2014 Page 2 of 2



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

Keny K. Mille

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

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Certifications	9
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ATC Group Services LLC - West Springfield 73 Williams Franks Drive West Springfield, MA 01089

PURCHASE ORDER NUMBER:

REPORT DATE: 11/22/2017

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#

ATTN: Rob Smith

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 fisted 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

Wasslingten



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

Sample Water. Dissense Water			N	1iscellaneous Or	ganic Analys	es				
Analyte	Results	RL	MCL/SMC MA ORSG		Dilution	Flag/Qual .	Method	Date Prepared	Date/Time Analyzed	Analyst
# 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
# Perfluorocctanoic acid (PFOA)	7.4	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 19:09	BĽM
# Perfluorocetanesulfonic acid (PFOS)	6.8	2.0	2	ng/L			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	l		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 (PFTrDA)	, ND	2,0	2	ng/L	I		EPA 537	11/9/17	11/19/17 19:09	BLM
Perfluorotetradecanoic acid (PFTA)	ND	2.0	2	ng/L	i		EPA 537	11/9/17	11/19/17 19:09	BLM
Surrogates		% Re	covery	Recovery Limit	s	Flag/Qual				
13C-PFHxA		120		70-130					11/19/17 19:09	
13C-PFDA		95.2		70-130		•			11/19/17 19:09	
d5-NE¢FOSAA		71.6		70-130					11/19/17 19:09	



#### 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

			Reporting		Spike	Source		%REC		RPD	•
Analyte	-	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B190551 - EPA 537										
Blank (B190551-BLK1)		-		Prepared: 11	1/09/17 Anal	yzed: 11/19/	'17			
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	ng/L							
Perfluorofrexanoic acid (PFHxA)	ND	2.0	ng/L		•					
Perfluorokeptanoic 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						,	
Perfluorotrídecanoie 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	<i>36.8</i>		ng/L	40.0		92.0	70-130			
Surrogate: d5-NEtFOSAA	143		ng/L	160		89.1	70-130			
LCS (B190551-BS1)				Prepared: 1	1/09/17 Anal	yzed; 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			
Perfiuorooctanesulfonic acid (PFOS)	9.14	2.0	ng/L	9.25		98.8	70-130			
Perfluorononanoic acid (PFNA)	10.1	2.0	ng/L	. 0.01		101	70-130			
Perfluorodecanoic acid (PFDA)	11.3	2.0	ng/L	9.01		113	70-130			
NMeFOSAA	10.6	2.0	ng/L	10.0		106	70-130			
Perfluoroundecanoic acid (PFUnA)	6,01	, 2.0	ng/L	0.01	٠	106	70-130			
NEtFOSAA	11.5	2.0	ng/L	10.0		115	70-130			
Perfluoredodecanoic 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			



#### FLAG/QUALIFIER SUMMARY

	QC result is outside of established filling.
†	Wide recovery limits established for difficult compound.
<b>‡</b>	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
EPA 537 in Drinking Water	
Perfluorobutanesulfonic acid (PFBS)	VT-DW,ME
Perfluorohexanoic acid (PFHxA)	VT-DW,ME
Perfluoroheptanoic acid (PFHpA)	VT-DW,ME
Perfluorohexanesulfonic acid (PFHxS)	VT-DW,ME
Perfluorocctanoic 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
NEIFOSAA	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-MAI00	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

	_		
Table	Ωf	Conte	ni

Orthophosphate Samples 2 Preservation Codes: X = Sodium Hydroxide S=Sulfuric Acid B=Sodium Bisulfate DW - Drinking Water GW = Ground Water WW = Waste Water <sup>3</sup> Container Codes: A = Amber Glass Page \_\_1\_\_ of \_\_\_1\_\_ S = Summa Caniste 0 = Other (please O = Other (please O = Other (please Dissolved Metals Sa Non Soxhlet PCB ONLY T = Tedlar Bag Matrix Codes Soxhlet O Field Filtered <sup>2</sup> Preservation Code O Field Filtered N = Nitric Acid O Lab to Filter O Lab to Filter M = Methanol ST = Sterile V = Vial Calced and I Container Code A = Air S = Soil SL = Slüdge SOL = Solid Thiosulfate G = Glass P = Plastic T Sodium TRIZMA # of Containers define) define) THE PERSON IN define Please use the following codes to indicate possible sample concentration con-test wew.contestlebs.com Chromatogram AIHA-LAP,LLC 39 Spruce Street East Longmeadow, MA 01028 H - High; M - Medium; L - Low; C - Clean; U - Unknown ANALYSIS REQUESTED within the Conc Code column above: Other Doc # 381 Rev 1\_03242017 WRTA ж. > TOTAL As, Fe, HARDNESS, TOC × MA MCP Required CT RCP Required RCP Certification Form Required z MCP Certification Form Required School MWRA MA State DW Required MBTA Special Requirements 0 م × **EPA METHOD 537** × × =  $\Rightarrow$  $\Rightarrow$ http://www.contestlabs.com Requested Turnaround Time CHAIN OF CUSTODY RECORD 14abax Code  $\square$ Rush-Approval Required Ѯ Ѯ Ѯ Municípality Brownfield PWSID # 10-Day Data Delivery AP CO 3-Day EXCEL 4-Day CLP Like Data Pkg Required: 口 × × Ending Composite Date/Trime Due Date: 5-day TAT PDF [S] Government 
Federal 
City 16:33 11/7/2017 16:20 Email To: 11/7/2017 16:32 Format: Fax To# Other: 1-Day 2-Day 7-Day Project Entity 11/7/2017 EXTRACT & HOLD EPA Method 537: 30 Hopkins Rd-field blank & 30 Hopkins Rd-2 Other: WW CI 73 William Franks Drive, West Springfield, MA Email: info@contestlabs.com *8*000 G 00 Phone: 413-525-2332 11/5/11 Fax: 413-525-6405 Date/Time: Date/Time: 11/8/11 Date/Time: Date/Time: Date/Time; Date/Time: 30 Hopkins Rd - field blank 30 Hopkins Rd, Westfield 30 Hopkins Rd, Westfield Gisent Sample ID ATC Group Services Elizabeth O'Connor 30 Hopkins Rd - 2 30 Hapkins Rd - 1 (413) 781-0070 アクラブ 183EM00170 Rob Smith RUN EPA Method 537: 30 Hopkins Rd-1 Con-Test Quote Name/Number: CON-KESK® HOLD As, Fe, Hardness, TOC Relinquished by: (signature) Relinquished by: (signature) quished by: (signature) Coren Received by: (signature) ived by: (signature) ived by: (signature) Con-Test. Work Order# Company Name: nvoice Recipient: roject Location: Project Manager: Project Number: roject Name: Sampled By: Comments: Address: Page 10 of 11

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.					i disc		
Recei	ved By	PLF		Date	11/8	517	Time	8Y\	$\bigcirc$
	the samples	In Cooler	7	No Cooler		On Ice	. <u> </u>	No Ice	
rece	ived?	Direct from Samp	oling	*	,	~ Ambient		Melted Ice	<del></del>
Mara sam	valaa wiithia	·	By Gun #	i	-	Actual Ter	D. U. J	- 5 U C	·····
	ples within ure? 2-6°C	Т	By Blank #		-		*************		•
-	s Custody S	eal Intact?	_	\\/	- ara Cample	Actual Ter			
	s COC Relir		14			s Tampere ree With Sa		<u></u>	
		eaking/loose caps	On any sam	nlee?	s Chain Ag	nee with St	ampies r		
Is COC in ir			on any sam	•	nnlee rece	- luad within t	olding time?	<del></del>	
Did COC i	-	Client	` <del>-  </del>	Analysis	inpida rece		ler Name	<del></del>	
pertinent In	formation?	Project	-T	ID's	·- <del></del>		Dates/Times		
Are Sample	e labels filled	out and legible?	7.	•	<u></u>	•	. = 4.00, 111100		
Are there La			F		Who wa	s notified?			
Are there Ru	ushes?	•	F.			s notified?			
Are there Sh	ort Holds?	•	E			s notified?		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
ls there enoi	ugh Volume	?	τ			,			
		re applicable?	¥		MS/MSD?	WA			
Proper Medi			1		ls splitting	samples red	- quired?	F	
Were trip bla			<del>_</del>		On COC?	M	·		
Oo all sampl	es have the	proper pH?		Acid	T	, , , , , , , , , , , , , , , , , , , ,	Base	LA_	
Jnp- -ICL-		1 Liter Amb.		1 Liter I			16 oz		
Mech-	_2	500 mL Amb. 250 mL Amb.		500 mL			8oz Am		
Bisulfate-		Col./Bacteria		250 mL		3_	4oz Am		
)]-		Other Plastic		Flash Other (		<del></del>	2oz Am		
hiosulfate-		SOC Kit		Plastic		·	Enc Frozen:	ore	
Sulfuric-		Perchlorate		Ziplo			1102611.		
		The state of the s							
		and the second		Unused V	rans.				
Inp-		1 Liter Amb.		1 Liter F	Plastic		16 oz	Amb	
ICL-		500 mL Amb.		500 mL			8oz Ami		
1eoh-	-	250 mL Amb.		250 mL l		***********	4oz Ami	**************************************	
isulfate-		Col./Bacteria		Flashp	oint		2oz Aml		
) -		Other Plastic		Other C			Ence		
hiosulfate-		SOC Kit		Plastic		~~	Frozen:		
ulfuric- omments:		Perchlorate		Ziplo	ck				
Officials.				<del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>					
,					•		-		]
									1



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

Keny K. Mille

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

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

PURCHASE ORDER NUMBER:

REPORT DATE: 11/30/2017

PROJECT NUMBER:

183EM00170

ANALYTICAL SUMMARÝ

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:

ATTN: Rob Smith

30 Hopkins Rd., Westfield

· · ·					i i
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	



#### 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

na Watchington

Work Order: 17K0459



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

Project Location: 30 Hopkins Rd., Westfield

Sample Description:

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 Wate

Sample Matrix: Drinking Water									· · · · · · · · · · · · · · · · · · ·	
			īv	Tiscellaneous Or	ganic Analys	es		-		
	Date	Date/Time								
Analyte	Results	RL	MA ORSO	- Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
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	I		EPA 537	11/9/17	11/28/17 18:38	BLM
Perfluoronexanesulfonic 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	i		EPA 537	11/9/17	11/28/17 18:38	BLM
Perfluorodecanoic acid (PFDA)	ND	2.0	2	ng/L	I		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	ŧ		EPA 537	11/9/17	11/28/17 18:38	BLM
Perfluorotridecanoic acid (PFTrDA)	ND	2.0	` 2	ng/L	i		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		% Re	covery	Recovery Limits	3	Flag/Qual		:		
13C-PFH×A		76.9		70-130		_			11/28/17 18:38	
13C-PFDA		71.6		70-130	•				11/28/17 18:38	
d5-NEtFOSAA		70,4		70-130					11/28/17 18:38	



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

Samule Matrix Drinking Wate

Sample Matrix: Drinking Water										
			M	liscellaneous Or	ganic Analys	es				
•			MCL/SMC	L				Date	Date/Time	
Analyte	Results	RL	MA ORSG	Units	Dilution	Flag/Qual	Method	Prepared.	Analyzed	Analyst
# 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	ı		EPA 537	11/9/17	11/28/17 18:50	BLM
Perfluerododecanoic acid (PFDoA)	ND	2.0	2	ng/L	1.		EPA 537	11/9/17	11/28/17 18:50	BLM
Perfluorotridecanoic acid (PFTrDA)	, 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		% Rec	covery	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	



#### 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	00.1	11/09/17	
17K0459-02 [30 Hopkins Rd-2]	B190551	250	00.1	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

		Reporting	•	Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B190551 - EPA 537										-
Blank (B190551-BLK1)				Prepared: 11	/09/17 Analy	/zed: 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			
.CS (B190551-BS1)				Prepared: 11	/09/17 Analy	zed: 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			
VEtFOSAA	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			



#### FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
· <b>†</b>	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
1CL	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	
EPA 537 in Drinking Water		
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 Publile 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

Tabl	a af	Cont	tant

http://www.contestlabs.com

Doc # 381 Rev 1\_03242017

Dissolved Metals Samples GW = Ground Water WW = Waste Water DW = Drinking Water 2 Preservation Codes X = Sodrum Hydroxide Orthophosphate Samp B = Sodium Bisultate S - Summa Canister 3 Container Codes: O=Other (please o = Other (please Page \_1 \_\_ of \_\_1\_ Non Soxhlet O = Other (please N = Nitric Acid A = Amber Glass G = Glass PCB ONLY Soxhlet \* Tedlar Bag O frield Filtered
O Lab to Filter 1 Matrix Codes: Preservation Code O Field Filtered O Lab to Filter M = Methanol ST = Sterile V = Vial hiosulfate S = Soil SL = Sludge T = Sedium Container Code P= Plasefic TRIZMA Sol= Solid # of Containers define) define) 北京 define) This led Please use the following codes to indicate possible sample concentration AMALYTICAL LABORATORY Chromatogram www.contestiabs.com AIHA-LAP,LLC 39 Spruce Street East Longmeadow, MA 01028 H - High; M - Medium; L - Low; C - Clean; U - Unknown AMALYSIS REQUESTED within the Conc Code column above: Other WRTA > x TOTAL AS, Fe, HARDNESS, TOC MCP Certification Form Required CT RCP Required RCP Certification Form Required MWRA School MBTA z D. MA State DW Required Special Requirements o × × EPA METHOD 537  $\supset$  $\Rightarrow$  $\supset$ CHAIN OF CUSTODY RECORD Rushar proval Required Municipality ⋛ ⋛ ⋛ Brownfield Requested Turnaround Ti # QISMd 10-Day Data Delivery EXCEL 3-Day 4-Day CLP Like Data Pkg Required: × Detection Limit Requirements Oue Date: 3-day TAT POF [5] Government 16:33 (e:37 16:20 Email To: Federal Format: Fax To #: Other: I-Day 2-Day City Project Entity 11/7/2017 11/7/2017 11/7/2017 EXTRACT & HOLD EPA Method 537: 30 Hopkins Rd-field blank & 30 Hopkins Rd-2 CT Other: MA 73 William Franks Drive, West Springfield, MA G 00 800 Email: info@contestlabs.com Phone: 413-525-2332 11/2/11 Date/Time: Date/Time; 11 | 8 | 11 Date/Time: Date/Time: Fax: 413-525-6405 Date/Time: Date/Time: 30 Hopkins Rd - field blank 30 Hopkins Rd, Westfield 30 Hopkins Rd, Westfield ATC Group Services Elizabeth O'Connor 30 Hopkins Rd - 2 30 Hopkins Rd - 1 (413) 781-0070 183EM00170 Rob Smith RUN EPA Method 537: 30 Hopkins Rd-1 Ĺ Con-Test Quote Name/Number: Dena HOLD As, Fe, Hardness, TOC equished by; (signature) Relinquished by: (signature) CON-LASONATION elinquished by: (signature) Received by: (signature) .Coh-Test. Wark Order# ived by: (signature) eived by: (signature) 0 Ō invoice Recipient: Project Manager: Project Location: Project Number: Project Name: Sampled By: Address: 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	IC.							
Received By	PIF		Date		8117.	Time	800	<u> </u>
How were the sample	s In Cooler	Т	No Cooler		On Ice	- -	No Ice	
received?	Direct from Sam	pling	• '		Ambient		Melted Ice	Bergaran (1984)
Were samples withir		By Gun#	1		Actual Tem	n- UU	- MONOG 100	
Temperature? 2-6°C		By Blank #					<u> </u>	<del>-</del>
Was Custody		_ by blank #		ra Samale	Actual Tem s Tampered			<del></del>
Was COC Rei					gree With Sai			<u></u>
	/leaking/loose cap	s on anv sam	ples?	T CHAIL Y	, .	ilibies:		-
Is COC in ink/ Legible	? —			noles rece	- ived within ho	oldina time?	<b>—</b> T	
Did COC include all	Client		Analysis	T		er Name	<del></del>	-
pertinent Information?	Project		ID's	Ť		Dates/Times	; <del>'</del>	-
Are Sample labels fille	ed out and legible?	$\overline{T}$	•		_			-
Are there Lab to Filters	s? ·	F		Who wa	s notified?			
Are there Rushes?		F		Who wa	s notified?		***	•
Are there Short Holds?		E		Who wa	s notified?		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	<b>.</b>
ls there enough Volum				,				•
Is there Headspace wh		<u> M</u>		MS/MSD?	MA			
Proper Media/Containe					samples req	uired?		
Were trip blanks receiv		<u>_</u> F	(	On COC?	<u></u>			
Do all samples have th	e proper pH?		Acid _	<u> 141</u>		Base	<u> </u>	•
	o grite							
Jnp-	1 Liter Amb.		1 Liter F			16 oz	Amb.	
HCL-	500 mL Amb.		500 mL l				ıb/Clear	
Meoh- Bisulfate-	250 mL Amb. Col./Bacteria		250 mL		3		b/Clear	
OI-	Other Plastic		Flashp				b/Clear	
hlosulfate-	SOC Kit		Other C Plastic			Enc	ore	
Sulfuric-	Perchiorate		Ziplo	***************************************		Frozen:		
			etions to d					
Jnp-	1 Liter Amb.		1 Liter P	lactic .	STATE OF THE STATE	16 oz	Amb	rājoša jūras izā
ICL-	500 mL Amb.		500 mL F			8oz Am		
fleoh-	250 mL Amb.		250 mL F			4oz Am		
lisulfate-	Col./Bacteria		Flashp			2oz Am		
) -	Other Plastic		Other G			Enc		
hiosulfate-	SOC Kit		Plastic	Bag	F	rozen:	·····	
ulfurio-	Perchlorate		Ziplo	ck				
omments:	<u> </u>							
						4.4		
				4				I
		•			•			



# 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

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. <sup>1</sup>

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.

Notice of Environmental Sampling 287 Buck Pond 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

Attachments: Notice of Environmental Sampling (BWSC-123)

Laboratory Report

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

cc:

Denise Andler, DEP WERO Data Entry: FOLOFF, FOLFLD

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



### Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup

#### **BWSC123**

This Notice is Related to: Release Tracking Number

	1 -	20093
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### NOTICE OF ENVIRONMENTAL SAMPLING

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

A. The address of the	disposal site related t	o this Notice	and Release Tracking	Number (provided above):	
1. Street Address: 17	5 Falcon Drive			•	-
City/Town: Westfie	eld	_ Zip Code:	01085		
B. This notice is being 1. Name: Anthony &		wing party:			
2. Street Address: 28	7 Buck Pond Road	•			
City/Town: Westfie		_ Zip Code:	01085		-
1. That environ 2. Of the result 3. Check to inc	mental sampling will be	has been con bling conducte sults are attac	ed at property owned by t	B):  d by the recipient of this notice.  he recipient of this notice.  checked, the analytical results	
D. Location of the pro		onmental san	npling will be/has been	conducted:	
City/Town: Westfie	ld	Zip Code:	01085		
2. MCP phase of work  Immediate Response Abatement Utility-related Abatement Phase I Initial Sit	onse Action ent Measure atement Measure	☐ Phase☐ Phase☐ PhasE☐ Post-	e III Feasibility Evaluation e IV Remedy Implement e V/Remedy Operation S Temporary Solution Ope	ation Plan	oring
	rty where sampling will		conducted: □school/playground	Other(specify)	
time of this notice.	ples were collected	from the pri	vate well located on	, soil gas) to the extent known a	at the
Street Address: 436 Dv City/Town: Springfield	epartment of Environme vight Street	ntal Protection Zip Code:	01103		
Telephone: (413) 784-	1100	∟mail: da	vid.bachand.jr@state.ma	1.uə	

Revised: 5/30/2014 Page 1 of 2



#### Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup

#### **BWSC123**

This Notice is Related to: Release Tracking Number

1	
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- 20093

#### NOTICE OF ENVIRONMENTAL SAMPLING

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 <a href="http://www.mass.gov/eea/agencies/massdep/cleanup">http://www.mass.gov/eea/agencies/massdep/cleanup</a>. 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 <a href="http://public.dep.state.ma.us/SearchableSites2/Search.aspx">http://public.dep.state.ma.us/SearchableSites2/Search.aspx</a> to view site-specific files on-line or <a href="http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html">http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html</a> 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.

Revised: 5/30/2014 Page 2 of 2



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

Berry K. Mille

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

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ATC Group Services LLC - West Springfield

73 Williams Franks Drive West Springfield, MA 01089 A'TTN: Rob Smith

PURCHASE ORDER NUMBER:

REPORT DATE: 11/29/2017

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:

SAMPLE DESCRIPTION

EST

SUB LAB

287 Buck Pond-1

17K0485-01

Drinking Water

MATRIX

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



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

			N	liscellaneous O	rganic Analys	ses				
			MCL/SMC	L				Date	Date/Time	
Analyte	Results	RL	MA ORSG	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analysi
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	i		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	ı		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
NMcFOSAA	ND	2,0		ng/L	1		EPA 537	11/9/17	11/19/17 19:22	BLM
NMcFOSAA	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	I		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	BĽM
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 (PFTrDA)	ND	2.0	2	ng/L	1		EPA 537	11/22/17	11/28/17 20:32	BLM
Perfluorotridecanoic acid (PFTrDA)	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		% Rec	ากขอาว	Recovery Limi	ts	Flag/Qual				
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	



## Sample Extraction Data

Prep Method: EPA 537-EPA 537

17K0485-01REI [287 Buck Pond-1]

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Dafe	
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	

1.00

11/22/17

250

B191687



### 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	1/09/17 Anal	yzed: 11/19/	17			
Perfluorebutanesulfonic 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							
Perfluoreoctanesulfonic acid (PFOS)	ND	2.0	ng/L							
Perfluorononanoic acid (PFNA)	ND	2.0	ng/L							
erfluorodecanoic acid (PFDA)	ND	2.0	ng/L							
IMeFOSAA	, ND	2,0	ng/L							
erfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L				•			
IEtFOSAA	ND	2.0	ng/L							
erfluorododecanoic acid (PFDoA)	ND	2.0	ng/L		-					
erfluorotridecanoic acid (PFTrDA)	ND	2.0	ng/L			-				
erfluorotetradecanoic acid (PFTA)	ND	2,0	ng/L							
arrogate: 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			٠
urrogate: d5-NEtFOSAA	143		ng/L	160		89.1	70-130			
CS (B190551-BS1)				Prepared: 11	1/09/17 Anal	yzed; 11/19/	17			
erfluorobutanesulfonic acid (PFBS)	10.2	2.0	ng/L	8,85		115	70-130			
erfluorohexanoic acid (PFHxA)	9.49	2.0	ng/L	10.0		94.9	70-130			
erfluoroheptanoic acid (PFHpA)	9.09	2.0	ng/L	10.0		90.9	70-130			
erfluorohexanesulfonic acid (PFHxS)	10.7	2.0	ng/L	9,10		117	70-130			
erfluorooctanoic acid (PFOA)	10.9	2.0	ng/L	10.0		109	70-130			
erfluorooctanesulfonic acid (PFOS)	9,14	2.0	ng/L	9.25		98.8	70-130			
erfluorononanoie acid (PFNA)	10,1	2.0	ng/L	10.0		101	70-130			
erfluorodecanoic acid (PFDA)	11.3	2.0	ng/L	10.0		113	70-130			
IMeFOSAA	10.6	2,0	ng/L	10.0		106	70-130			
erfluoroundecanoic acid (PFUnA)	10.6	2.0	ng/L	10.0		106	70-130			
PETFOSAA	11.5	2.0	ng/L	10.0		115	70-130			
erfluorododecanoic acid (PFDoA)	9.96	2.0	ng/L	10.0		99.6	70-130			
erfluorotridecanoic acid (PFTrDA)	9.54	2.0	ng/L	10.0		95.4	70-130			
erfluorotetradecanoic acid (PFTA)	10.5	2.0	ng/L	10.0		105	70-130			
urrogate: 13C-PFHxA	37.9		ng/L	40.0		94.9	70-130			
urrogate: 13C-PFDA	40.7		ng/L	40.0		102	70-130			
urrogate; d5-NEtFOSAA	154		ng/L	160		96.1	70-130			
Batch B191687 - EPA 537										
Blank (B191687-BLK1)				Prepared: 11	/22/17 Anal	yzed: 11/28/	17			
erfluorobutanesulfonic acid (PFBS)	ND	2.0	ng/L							
erfluorohexanoic acid (PFHxA)	ND	2,0	ng/L							
erfluoroheptanoic acid (PFHpA)	ND	2.0	ng/L							
erfluorohexanesulfonic acid (PFHxS)	ND	2.0	ng/L							
erfluorooctanoic acid (PFOA)	· ND	2.0	ng/L							
erfluorooctanesulfonic acid (PFOS)	ND	2.0	ng/L							
erfluorononanoic acid (PFNA)	ND	2.0	ng/L							
erfluorodecanoic acid (PFDA)	ND	2.0	ng/L							
MeFOSAA	ND	2.0	ng/L			•				
erfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L							
JEIFOSAA	ND	2.0	ng/L							
Perfluorododecanoie acid (PFDoA)	ND	2.0	ng/L							
erfluorotridecanoic acid (PFTrDA)	ND	2.0	ng/L							
	AD		<del></del>							Page 7



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

### Miscellaucous Organic Analyses - Quality Control .

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B191687 - EPA 537			······································							
Biank (B191687-BLK1)				Prepared: 11	/22/17 Anal	yzed: 11/28/	17			
Perfluorotetradecanoic acid (PFTA)	ND	2,0	ng/L							
Surrogate: I3C-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 Anal	yzed: 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			
erfluorohexanesulfonic 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			
IMeFOSAA	2.07	2.0	ng/L	2.00		103	50-150			-
erfluoroundecanoic acid (PFUnA)	2,26	2.0	ng/L	2.00		113	50-150			
VEIFOSAA	2.25	2.0	ng/L	2.00		. 113	50-150			
erfluorododecanoic acid (PFDoA)	2.05	2.0	ng/L	2,00		102	50-150			
erfluorotridecanoic acid (PFTrDA)	1.98	2.0	ng/L	2.00		99.0	50-150			
erfluorotetradecanoic 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			



### FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
Ť	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
<b>ICL</b>	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.
2.26	Character outside of control limits



### CERTIFICATIONS

### Certified Analyses included in this Report

PA 537 in Drinking Water  Perfluorobutanesulfonic acid (PFBS)  Perfluorohexanoic acid (PFHxA)  Perfluorohexanesulfonic acid (PFHxS)  Perfluorohexanesulfonic acid (PFHxS)  Perfluorooctanoic acid (PFOA)  Perfluorooctanesulfonic acid (PFOS)  Perfluorononanoic acid (PFNA)  Perfluorodecanoic acid (PFDA)  NMeFOSAA  Perfluoroundecanoic acid (PFUnA)  NEtFOSAA  Perfluorododecanoic acid (PFDoA)  Perfluorotoridecanoic acid (PFDoA)	Сегинсаціоня				
Perfluorobutanesulfonic acid (PFBS)  Perfluorohexanoic acid (PFHxA)  Perfluoroheptanoic acid (PFHpA)  Perfluorohexanesulfonic acid (PFHxS)  Perfluorooctanoic acid (PFOA)  Perfluorooctanosulfonic acid (PFOS)  Perfluorooctanoic acid (PFNA)  Perfluorodecanoic acid (PFDA)  NMeFOSAA  Perfluoroundecanoic acid (PFUnA)  NEtFOSAA  Perfluorododecanoic acid (PFDOA)					
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 Publile 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

2 Preservation Codes: X = Sodium Hydroxide WW = Waste water DW = Drinking Water A = Air ³ <u>Container Codes:</u> A = Amber Glass G ≪ Glass P = Plastic B = Sodium Bisulfate = Summa Caniste GW = Ground Water O ≅ Other (please O = Other (please Non Soxhlet o = Other (please PCB ONLY ≠Tedlar Bag Soxhlet #Suffürfe Acie Orthophosphate <sup>2</sup> Preservation Code O. Field Filtered Matrix Codes; O Field Filtered H = HCL M = Methanol N = Nitric Acid ST ≠ Sterile V = Vial O Lab to Fitter O Lab to Filter Dissolved Meta ō SL = Studge SOL = Solid Container Code Thiosulfate TRIZMĀ # of Containers define) define) define) J= |ced S = 561 Please use the following codes to indicate possible sample concentration CON-LEST www.contestlabs.com Chromatogram AIHA-LAP, LLC 39 Spruce Street East Longmeadow, MA 01028 H - High; M - Medium; L - Low; C - Clean; U - Unknown ANALYSIS REQUESTED within the Conc Code column above: Other Doc # 381 Rev 1\_03242017 WRTA r > TOTAL As, Fe, HARDNESS, TOC × MCP Certification Form Required CT RCP Required RCP Certification Form Required MA MCP Required z α. School MWRA MBTA MA State DW Required Spacial Requirements Ó ۵. × × × EPA METHOD 537 រណ Code  $\supset$  $\Rightarrow$  $\Rightarrow$ Phone: 413-525-2332 Requested Turnaround Time  $\overline{\Sigma}$ à λΩ ձ Municipality Brownfield # GISMd 10-Day Data Delivery 8 3-Day 4-Day EXCEL b CLP Like Data Pkg Required; × × × Ending Composite Due Date: 5-day TAT. POF [] Government 14:30 7:43 וה: יהו Email To: Fax To #: Federal Format: Other: EXTRACT & HOLD EPA Method 537: 287 Buck Pond Rd-field blank & 287 Buck Pond Rd-2 7-0ay I-Day 2-Day Ç Project Entity Beginning Date/Time Other: 4 11 8 11 11811 M 73 William Franks Drive, West Springfield, MA 0.0 Email: info@contestlabs.com Client Sample ID // Description 287 Buck Pond Rd - field blank पश्चिम Fax: 413-525-6405 287 Buck Pond Rd, Westfield 287 Buck Pond Rd, Westfield r//8/11 Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: 287 Buck Pond Rd - 1 287 Buck Pond Rd - 2 ATC Group Services Elizabeth O'Connor (413) 781-0070 183EM00170 Rob Smith RUN EPA Method 537: 287 Buck Pond Rd-1 2 Con-Test Quote Name/Number: HOLD As, Fe, Hardness, TOC CON-LEST by: (signature) telinguished by: (signature) quished by: (signature)  $U \times z$ ved by: (signature) red by: (signature) Con-Test Work Order# Received by: (signal Invoice Recipient: Company Name: Project Location: Project Manager: Project Number: Sampled By: Polect Ner Comments: Address: Phone: 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

How were the samples In Cooler T No Cooler On Ice T No Ice received? Direct from Sampling T Ambient Melted Ice Were samples within By Gun # Actual Temp - 14.8 Custody Seal Intact? Were Samples Tampered with? Was COC Relinquished? Tooley Chain Agree With Samples?	<u> </u>
received?  Direct from Sampling  By Gun #  Actual Temp - 4.8-C  Were samples within Temperature? 2-6°C  Was Custody Seal Intact?  Were Samples Tampered with?	
Were samples within Temperature? 2-6°C Was Custody Seal Intact?  Direct from Sampling  By Gun # Actual Temp - V S C  Were Samples Tampered with?  Actual Temp -  Were Samples Tampered with?	
Were samples within Temperature? 2-6°C Was Custody Seal Intact?  By Gun # Actual Temp - Y.S-C  By Blank # Actual Temp -  Were Samples Tampered with?	3
Temperature? 2-6°C	
Was Custody Seal Intact? Were Samples Tampered with?	<del></del>
	Arteria.
Are there broken/leaking/loose caps on any samples?	
Is COC in ink/ Legible? \( \tau\) Were samples received within holding time?	
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?	<b>-</b>
Are there Lab to Filters? Who was notified?	
Are there Rushes?	_
Are there Short Holds? Who was notified?	-
s there enough Volume?	
s there Headspace where applicable? MS/MSD?	
Proper Media/Containers Used?	
Nere trip blanks received? ————————————————————————————————————	_
Do all samples have the proper pH?  Acid T  Base WA	
Jnp- 1 Liter Amb. 1 Liter Plastic 16 oz Amb.	
ICL- Soo mL Amb. 500 mL Plastic 8oz Amb/Clear	
Meoh- 250 mL Amb. 250 mL Plastic 3 4oz Amb/Clear	
Bisulfate- Col./Bacteria Flashpoint 2oz Amb/Clear	
Ol- Other Plastic Other Glass Encore Thiosulfate- SOC Kit Plastic Bag Frozen:	
hiosulfate- SOC Kit Plastic Bag Frozen: Sulfuric- Perchlorate Ziplock	ľ
Zipiock	
(P)(G)(d)(G)(D)	
al Parisa par e Asta (Calling Origin) para Leval Zene arte a la callina pris Anta Caralle (Calling Calling Cal	
Jnp- 1 Liter Amb. 1 Liter Plastic 16 oz Amb.	-
Jnp-         1 Liter Amb.         1 Liter Plastic         16 oz Amb.           ICL-         500 mL Amb.         500 mL Plastic         8oz Amb/Clear	
Jnp-         1 Liter Amb.         1 Liter Plastic         16 oz Amb.           ICL-         500 mL Amb.         500 mL Plastic         8oz Amb/Clear           Meoh-         250 mL Amb.         250 mL Plastic         4oz Amb/Clear	
Jnp-         1 Liter Amb.         1 Liter Plastic         16 oz Amb.           ICL-         500 mL Amb.         500 mL Plastic         8oz Amb/Clear           Meoh-         250 mL Amb.         250 mL Plastic         4oz Amb/Clear           disulfate-         Col./Bacteria         Flashpoint         2oz Amb/Clear	
Jnp-         1 Liter Amb.         1 Liter Plastic         16 oz Amb.           ICL-         500 mL Amb.         500 mL Plastic         8oz Amb/Clear           Meoh-         250 mL Amb.         250 mL Plastic         4oz Amb/Clear           Issulfate-         Col./Bacteria         Flashpoint         2oz Amb/Clear           II-         Other Plastic         Other Glass         Encore           hiosulfate-         SOC Kit         Plastic Bag         Frozen:	
Inp-	



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.

Keny K. Mille

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

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ATC Group Services LLC - West Springfield

73 Williams Franks Drive West Springfield, MA 01089 ATTN: Rob Smith

PURCHASE ORDER NUMBER:

REPORT DATE: 11/29/2017

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

na Watthenster



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

Samule ID: 17K0487-01

			M	liscellaneous O	rganic Analys	es			•	
*			MCL/SMC	L				Date	Date/Time	
Analyte	Results	RL	MA ORSG	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
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	i		EPA 537	11/17/17	11/28/17 16:30	BLM
Perfluorononanoic acid (PFNA)	ND	2,0	2	ng/L	· i		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
NMcFOSAA	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 (PFTrDA)	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		% Re	covery	Recovery Limi	ts	Flag/Qual				

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
AS_NEIEOS À A	70.5	70-130		11/28/17 16:30



Project Location: 287 Buck Pond Rd., Westfield

Sample Description:

76.4

Work Order: 17K0487

11/28/17 16:43

Date Received: 11/8/2017

Field Sample #: 287 Buck Pond-2

Sampled: 11/8/2017 14:44

Sample ID: 17K0487-02

d5-NEtFOSAA

Sample Matrix: Drinking Water

Samole Matrix: Drinking Water			N	Aiscellaneous Or	ganic Analys	es				
			MCL/SMC	īL	-		•	Date	Date/Time	
Analyte	Results	RL	MA ORSO	G Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
# 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
Perfluoroactanesulfonic 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	i		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	I		EPA 537	11/17/17	11/28/17 16:43	BLM
NEFOSAA	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 (PFTrDA)	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		% Rec	covery	Recovery Limits	3	Flag/Qual				
13C-PFHxA		92.1		70-130					11/28/17 16:43	
13C-PFDA		81.7		70-130					11/28/17 16:43	

70-130



### Sample Extraction Data

Prep Method: EPA 537-EPA 537

Lab Number [Field ID]	Batch	Juitial [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	,



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

### Miscellaneous Organic Analyses - Quality Control

A	DV	Reporting	77!.	Spike	Source	0/10/2/2	%REC	DDD	RPD	Tata
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B190938 - EPA 537										•
Blank (B190938-BLK1)		·		Prepared: 11	/17/17 Analy	/zed; 11/28/	17			
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	ng/L							
erfluorohexanoic acid (PFHxA)	ND	2.0	ng/L							
erfluoroheptanoic acid (PFHpA)	ND	2.0	ng/L							
erfluorohexanesulfonic acid (PFHxS)	ND .	2.0	ng/L							
erfluorooctanoic acid (PFOA)	ND	2.0	ng/L							
erfluorooctanesulfonic acid (PFOS)	ND	2.0	ng/L							
erfluorononanoic acid (PFNA)	ИD	2.0	ng/L							
erfluorodecanoic acid (PFDA)	ND	2.0	ng/L							
MeFOSAA	ND	2,0	ng/L							
erfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L				-			
VETFOSAA	ND	2.0	ng/L							
erfluorododecanoic acid (PFDoA)	ND	2.0	ng/L							
Perfluorotridecanoic acid (PFTrDA)	ND	2.0	ng/L							
erfluorotetradecanoic acid (PFTA)	ND	2.0	ng/L							
urrogate; 13C-PFHxA	37.3		ng/L	40,0		93,2	70-130			
urrogate; 13C-PFDA	32.2		ng/L	40,0		80.5	70-130			
urrogate: d5-NEtFOSAA	139		ng/L	160		86,8	70-130			
.CS (B190938-BS1)				Prepared: 11	./17/17 Analy	zed: 11/28/	17	-		
erfluorobutanesulfonic acid (PFBS)	2.30	2.0	ng/L	1,77		130	50-150			-
erfluorohexanoic acid (PFHxA)	2.12	2.0	ng/L	2.00		106	50-150			•
erfluoroheptanoic acid (PFHpA)	2.13	2.0	ng/L	2.00		107	50-150			
erfluorohexanesulfonic acid (PFHxS)	2.68	2.0	ng/L	1,82		147	50-150			
erfluorooctanoic acid (PFOA)	2.46	2.0	ng/L	2.00		123	50-150			
erfluorooctanesulfonic acid (PFOS)	1.96	2.0	ng/L	1.85		106	50-150			
erfluorononanoic acid (PFNA)	2.28	2,0	ng/L	2.00		114	50-150			
erfluorodecanoic acid (PFDA)	2.10	2.0	ng/L	2.00		105	50-150			
IMeFOSAA	· 2,19	2.0	ng/L	2,00		109	50-150			
erfluoroundecanoic acid (PFUnA)	1.95	2.0	. ng/L	2.00		97.7	50-150			
JEtFOSAA	2.27	2,0	ng/L	2.00		114	50-150			
erfluorododecanoic acid (PFDoA)	1.77	2.0	ng/L	2.00		88.4	50-150			
erfluorotridecanoic acid (PFTrDA)	1.69	2.0	ng/L	2.00		84.5	50-150			
erfluorotetradecanoic acid (PFTA)	- 1.86	2,0	ng/L	2,00		93.1	50-150			
urrogate: 13C-PFHxA	33,5		ng/L	40.0		83.7	70-130			
urrogate: 13C-PFDA ,	30.6		ng/L	40.0		76.5	70-130			
urrogate; d5-NEtFOSAA	125		ng/L	160		78.3	70-130			



### FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
t	Wide recovery limits established for difficult compound.
<b>‡</b>	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
1CL	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
EPA 537 in Drinking Water	
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 Publile 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

"Matrix.Codés, GW=Ground Water WW= Watte Water DW= Drinking Water <sup>2</sup> <u>Preservation Codes:</u> 1 = Iced X = Sodium Hydroxide Page \_\_1\_\_ of \_\_\_1\_\_ B = Sodium Bisurfate Orthophosphate Say Dissolved Metals Sa 7 = Tedlar Bag O = Other (please Container Codes: = Summa Caniste O=Other (please O Flett Filtered
O Lab to Filter O ≅ Other (please <sup>2</sup> Preservation Code S = Sulfairic Acid O Field Fittered A = Amber Glass O Lab to Fitter N = NERCACIO Container Code M = Methanol # of Containers SL = Sludge SOL = Solid P = Plastic ST = Stefile T = Societies Thiosulfate G in Glass WENNER! define) THE PERSON define AMA S=Sol Please use the following codes to indicate possible sample concentration 39 Spruce Street East Longmeadow, MA 01028 Water Continuettable com Chromatogram AIHA-LAP, LLC H. High; M. Medium; L. Low; C. Clean; U. Unknown ANALYSIS REQUESTED within the Conc Code column above: Other Doc # 381 Rev 1\_03242017 WRTA Ξ; TOTAL As, Fe, HARDNESS, TOC × z ۵. MCP Certification Form Required CT RCP Required RCP Certification Form Required MA MCP Required MA State DW Required MWRA School MBTA Special Requirements 0 ۵ **EPA METHOD 537** × × × ⊃ ₽ ∍ http://www.contestlabs.com CHAIN OF CUSTODY RECORD Requested Turnaround Time \(\overline{1}\) š ž ձ Municipality Brownfield 10-Day Rush-Approval Requ 4-Day PWSID # 3-Day EXCEL CLP Like Data Pkg Required: × × × Due Date: 5-day TAT PD 부선 Email To: Government 14:30 7:43 Format; 77.7 Fax To # 7-Day -Day 2-Day Other: Federal EXTRACT & HOLD EPA Method 537: 287 Buck Pond Rd-field blank & 287 Buck Pond Rd-2 Detection Limit Ġ Phone: 413-525-2332 Project Entity <u>=</u> 13 8 1 T 11 8 11 Other: MA CT. 73 William Franks Drive, West Springfield, MA Email: info@contestlabs.com 0:91 118 11 11/8/12 16:10 Date/Time: 287 Buck Pond Rd - field blank Fax: 413-525-6405 287 Buck Pond Rd, Westfield 287 Buck Pond Rd, Westfield Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: 287 Buck Pond Rd - 2 287 Buck Pond Rd - 1 ATC Group Services Elizabeth O'Connor (413) 781-0070 183EM00170 Rob Smith RUN EPA Method 537: 287 Buck Pond Rd-1 ď, ż Con-Test Quote Name/Number: CON-LEST HOLD As, Fe, Hardness, TOC Relinguished by: (signature) delinquished by: (signature) quished by: (signature) ved by: (signature) red by: (signature) Work Order# Con-Test Invoice Recipient: Project Location: Company Name: Project Manager: Project Number: Ned by: (s) Project Name: Sampled By: Address: Comments Page 11 of 12

Table of Contents

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	-		-						
Receive	ed By	ACT		Date	3111		Time	1610	
How were th	e samples	In Cooler	-	No Cooler	•	On Ice		No Ice	
receiv	ed?	Direct from Sam	pling	· ·	· · · · · · · · · · · · · · · · · · ·	Ambient		Melted Ice	
Were samp	lae within		By Gun#	}		Actual Ten	1p - 14.8		
Temperatur		<u> </u>	By Blank #			Actual Ten	3		
	Custody S	eal Intact?	·	Wei	e Sample:	s Tampered	<del></del>	<u> </u>	
	COC Relin		7			ree With Sa			
		eaking/loose caps	on any sam		F				
Is COC in ink		T		·	ples recei	ved within h	olding time?	-7-	
Did COC in		Client	T	Analysis	T		ler Name	T	
pertinent Info		Project	T	ID's	Ť	Collection	Dates/Times	3	
		fout and legible?				•			
Are there Lab					Who was	s notified?			
Are there Rus			— モ		Who was	s notified?			
Are there Sho		*	<del></del>		Who was	notified?			
Is there enoug									
		re applicable?		ľ	MS/MSD?	MA			
Proper Media			<u></u>		s splitting :	samples red	quired?	王	
Were trip blar			<u></u>	(	On COC?	LA	_		
Do all sample	s have the	proper pH?		Acid _	JA-		Base	<u> </u>	
Viale	#	eomalios:				4			
Unp-	,,,	1 Liter Amb.		1 Liter F			16 oz	Amb,	
HCL-		500 mL Amb.		500 mL i		· · · · · · · · · · · · · · · · · · ·	<del> </del>	nb/Clear	
Meoh-		250 mL Amb.		250 mL I		3_		nb/Clear	
Bisulfate- DI-		Col./Bacteria		Flashp			,,	nb/Clear	
Thiosulfate-		Other Plastic SOC Kit		Other C				core	
Sulfuric-		Perchlorate		Plastic Ziplo		<del>-,</del>	Frozen:		
		7 Of Office at C							
Viale	7	entelnere		Unused M	odla				
Unp-		1 Liter Amb.		1 Liter P	lootio	1	46	A 1-	
HCL-		500 mL Amb.		500 mL F	<del> </del>	***********		Amb.	
Meoh-		250 mL Amb.		250 mL F				nb/Clear nb/Clear	
Bisulfate-		Col./Bacteria	~	Flashp				ib/Clear	
DI-		Other Plastic		Other G				core	
Thiosulfate-		SOC Kit		Plastic			Frozen:		
Sulfuric-		Perchlorate		Ziplo		,,,			
Comments:									J
		<b>V</b>							



# 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. <sup>1</sup>

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.

Notice of Environmental Sampling
12 Ivy Lane

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

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

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



# Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup

# **BWSC123**

This Notice is Related to: Release Tracking Number

1	1	20093

# NOTICE OF ENVIRONMENTAL SAMPLING

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

Α.	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
В.	This notice is being provided to the following party:
1.	Name: Walter Figueroa
2.	Street Address: 12 lvy 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 lvy Lane
	City/Town: Westfield Zip Code: 01085
2.	MCP phase of work during which the sampling will be/has been conducted:
	☑ Immediate Response Action       ☐ Phase III Feasibility Evaluation         ☐ Release Abatement Measure       ☐ Phase IV Remedy Implementation Plan         ☐ Utility-related Abatement Measure       ☐ Phase V/Remedy Operation Status         ☐ Phase I Initial Site Investigation       ☐ Post-Temporary Solution Operation, Maintenance and Monitoring         ☐ Phase II Comprehensive Site Assessment       ☐ Other         (specify)
3.	Description of property where sampling will be/has been conducted:
-	residential ☐commercial ☐industrial ☐school/playground ☐ Other(specify)
tim	Description of the sampling locations and types (e.g., soil, groundwater, indoor air, soil gas) to the extent known at the ne of this notice.
	rinking water samples were collected from the private well located on the above-referenced operty and analyzed for PHAS via EPA Method 537.1.1.
	Contact information related to the party providing this notice:
	ontact Name: MA Department of Environmental Protection
	reet Address: 436 Dwight Street
	ty/Town: Springfield Zip Code: 01103  Jephone (413) 784-1100 Email: david.bachand.jr@state.ma.us
10	IGNNAND, 14101100-1-1100 - Lille annangonana basinana



# Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup

### **BWSC123**

This Notice is Related to: Release Tracking Number

1

20093

## NOTICE OF ENVIRONMENTAL SAMPLING

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 <a href="http://www.mass.gov/eea/agencies/massdep/cleanup">http://www.mass.gov/eea/agencies/massdep/cleanup</a>. 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 <a href="http://public.dep.state.ma.us/SearchableSites2/Search.aspx">http://public.dep.state.ma.us/SearchableSites2/Search.aspx</a> to view site-specific files on-line or <a href="http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html">http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html</a> 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.

Revised: 5/30/2014 Page 2 of 2



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

Keny K. Mille

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
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17K0450-01	•		5
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ATC Group Services LLC - West Springfield 73 Williams Franks Drive West Springfield, MA 01089 ATTN: Rob Smith

PURCHASE ORDER NUMBER:

REPORT DATE: 11/22/2017

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

UB 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



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

			N	liscellaneous Or <sub>i</sub>	ganic Analys	es				
			MCL/SMC	L				Date	Date/Time	
Analyte	Results	RL	MA ORSG	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analysi
# Perfluorobutanesuifonic 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	i		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 (PFTrDA)	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		% Re	covery	Recovery Limit	5	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	



### 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
usatyte	Result	1,111111	ОШБ	LCVCI	TC3011		Danto	. Idb	2,,,,,,,	11000
atch B190547 - EPA 537										
Blank (B190547-BLK1)				Prepared: 11	I/09/17 Anal	yzed: 11/19/	17			
Perfluoropentanoic acid (PFPeA)	ND	2.0	ng/L							
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	ng/L							
erfluorohexanoic acid (PFHxA)	ND	2.0	ng/L							•
erfluoroheptanoic acid (PFHpA)	ND	2.0	ng/L		1					
erfluorohexanesulfonic acid (PFHxS)	ND	2.0	ng/L							
erfluorooctanoic acid (PFOA)	ND	2.0	ng/L							
erfluorooctanesulfonic acid (PFOS)	ND	2.0	ng/L					-		
erfluorononanoic acid (PFNA)	ND	2.0	ng/L							
erfluorodecanoic acid (PFDA)	ND	2.0	ng/L							
MeFOSAA	ND	2.0	ng/L	•						
erfluoroundecanoic acid (PFUnA)	ND .	2,0	ng/L	•						
EtFOSAA	ND	2.0	ng/L	•						
erfluorododecanoic acid (PFDoA)	ND	2.0	ng/L							
erfluorotridecanoic acid (PFTrDA)	ND	2.0	ng/L							
erfluorotetradecanoic acíd (PFTA)	ND	2,0	ng/L							
urrogate: 13C-PFHxA	35.2		ng/L	40.0		88,0	70-130			
штоgate: 13C-PFDA	34.4		ng/L	40.0		86.1	70-130			
urrogate: d5-NEtFOSAA	150		вg/L	160		93,7	70-130		•	
CS (B190547-BS1)	•			Prepared: 11	1/09/17 Anal	yzed: 11/17/	17			
erfluorobutanesulfonic acid (PFBS)	1.99	2,0	ng/L	1,77		112	50-150			
erfluorohexanoic acid (PFHxA)	2,63	2.0	ng/L	2.00		132	50-150			
erfluoroheptanoic acid (PFHpA)	1,95	2.0	ng/L	2.00		97.5	50-150			
erfluorohexanesulfonic acid (PFHxS)	2.16	2,0	ng/L	1,82		119	50-150			
erfluorooctanoic acid (PFOA)	2,56	2.0	ng/L	2.00		128	50-150			
erfluorooctanesulfonic acid (PFOS)	2.32	2.0	ng/L	1.85		126	50-150	•		
erfluorononanoic acid (PFNA)	2.87	2.0	ng/L	2,00		144	50-150			
erfluorodecanoic acid (PFDA)	2.76	2.0	ng/L	2.00		138	50-150			
MeFOSAA .	1,63	2.0	ng/L	2.00		81,6	50-150			4
erfluoroundecanoic acid (PFUnA)	2.64	2.0	ng/L	2.00		132	50-150	•		
EtFOSAA	1.59	2,0	ng/L	2.00		79.7	50-150			
erfluorododecanoic acid (PFDoA)	2.28	2.0	ng/L	2.00		114	50-150			
erfluorotridecanoic acid (PFTrDA)	2.25	2.0	ng/L	2.00		113	50-150			
erfluorotetradecanoic acid (PFTA)	2.45	2.0	ng/L	2.00		122	50-150 。			
urrogate: 13C-PFHxA	43.0		ng/L	40,0		107	70-130		•	
arrogate: 13C-PFDA	49.2		ng/L	40,0		123	70-130			
urrogate: d5-NEtFOSAA	112		ng/L	160		70.2	70-130			



### FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
1	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
<b>AC</b> L	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the

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



#### CERTIFICATIONS

## Certified Analyses included in this Report

Analyte	Certifications	
EPA 537 in Drinking Water		
Perfluorobutanesulfonic acid (PFBS)	VT-DW,ME	
Perfluorohexanoic acid (PFHxA)	VT-DW,ME	
Perfluoroheptanoic acid (PFHpA)	VT-DW,ME	•
Perfluorohexanesulfonic acid (PFHxS)	VT-DW,ME	ŧ
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	
Perfiuorododecanoic 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

Ta	ble of Contents	
S = Summa Canister T = Tedlár Bag O = Other (please define)	PCB ONLY Soxhlet Non Soxhlet	
ANALYTICAL LABGRATORY	Other  Chromatogram  AIHA-LAP,LLC	
	□ WRTA	
Required Required Required	MWRA School MBTA	

Federal

Date/Time:

eived by: (signature)

Page 10 of 11

Ċ

Brownfield

Municipality

Government

<sup>2</sup> Preservation Codes: Sodium Hydroxide
 Sodium Hydroxide ' Matrix Codes: GW = Ground Water WW = Waste Water B - Sodium Bisulfate DW ≅ Drinking Water 3 Container Codes: 0 = Other (please A = Amber Glass G = Glass P = Plastic ST = Sterile V = Vial 0 = Other (please O Lab to Filter = Sodium TRIZMA S = Sulfuric Acid Orthophosphate H = HCL M = Methanol N ≅ Nitric Acid Dissolved Metals <sup>2</sup> Preservation Code O . Field Filtered O Lab to Filter Triosulfate SL = Studge SOL = Solid Container Code Page 1 of deffine) A#Air 5 = Soil # of Containers define) = Iced Please use the following codes to indicate possible sample concentration Con-test® 39 Spruce Street East Longmeadow, MA 01028 H. High; M. Medium; L. Low; C. Clean; U. Unknown ANALYSIS REQUESTED within the Conc Code column above: Doc # 381 Rev 1\_03242017 I > TOTAL As, Fe, HARDNESS, TOC × MCP Certification Form Required MA MCP Required z Δ Special Requirements 0 EPA METHOD 537 × × × RCP Certification Forn MA State DW CT RCP 0 a 5  $\supset$ \_ http://www.contestlabs.com Requested Turnaround Time CHAIN OF CUSTODY RECORD ձ ≳ ₹ PWSID # Rush-Approval Requ Data Delivery 3-Day 4-Day e V CLP Like Data Pkg Required: Composite Due Date: 5-day TAT > Ending | | Date: Time Email To: Format: Fax To 共 2/0/ 16:30 0.3 Other: 7-Day -Day 2-Day Project Entity 11/7/2017 11/7/2017 11/7/2017 Other: Ę MA 7.3 William Franks Drive, West Springfield, MA EXTRACT & HOLD EPA Method 537: iZlvy Ave-field blank & IZlvy Ave-2 900 Email: info@contestlabs.com UNS 11/13/11 Clent Sample (D./ Description Fax: 413-525-6405 11/8/17 Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: 1.2 lvy Ave - field blank 1 2 vy Ave, Westfield 12. Ivy Ave, Westfield ATC Group Services Elizabeth O'Connor (413) 781-0070 12 lvy Ave - 2 12 lvy Ave - 1 183EM00170 Rob Smith RUN EPA Method 537: 12 lvy Ave-1 Con-Test Quote Name/Number: Relinquished by: (signature) HOLD As, Fe, Hardness, TOC CON-LEST nquished by: (signature) Relinquished by: (signature) Received by: (signature) CONTRACTOR CONTRACTOR eived by: (signature) Work Order# Invoice Recipient: Project Location: Project Manager: Project Number: Project Name: sampled By: Company Comments Address: Phone:

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	$\mathcal{L}$	ATC			• .			
Recei	ved By	PLF		Date _	11811	Time	<u> 8770</u>	)
How were t	the samples	In Cooler	-	No Cooler	On Ice		No Ice	
rece	ived?	Direct from Samp	olina		Ambient		Melted Ice	***************************************
141			By Gun #	<u> </u>	Actual Ter		· 5 U C	
	ples within	<del></del>	• •			<del></del>	<u> </u>	
•	ure? 2-6°C	oal Intooi?	By Blank #		Actual Ter			
	s Custody S s COC Relir		<u> </u>		Samples Tampere		<u></u>	
		eaking/loose caps	on any cam		Chain Agree With Sa	ampies ?		
	nk/ Legible?		OIT ally Sail		oles received within I	halding time?		
	include all	Client	· ·	Analysis		iler Name		
	formation?	Project	<del></del>	ID's		n Dates/Times		
Are Sample	e labels filled	d out and legible?	7		· · · · · · · · · · · · · · · · · · ·			
	ab to Filters?		<del></del>		Who was notified?		-	
Are there R	ushes?		<del></del>		Who was notified?		*****	
Are there SI	nort Holds?		F		Who was notified?			
s there eno	ugh Volume	?	T					
		ere applicable?	<u> </u>	M	IS/MSD?\A			
	ia/Container				splitting samples re	quired?	Ŧ	
	anks receive		<u> </u>	. 0	u cocs <u>h</u>	_		
o all sampl	les have the	proper pH?		Acid	<u>T</u>	Base	LA_	
		Countaine (s)					1	
Jnp-		1 Liter Amb.		1 Liter Pla		16 oz		
ICL-	2	500 mL Amb.		500 mL P		8oz Am	<del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>	
leon-		250 mL Amb.		250 mL P		4oz Am		
lisulfate-		Col./Bacteria Other Plastic		Flashpo		2oz Ami	<del></del>	
hiosulfate-		SOC Kit		Other GI Plastic E	***	Frozen:	ore I	<del></del>
ulfurio-		Perchlorate		Ziploc	<del>~ - / </del>	i Tozen,		
						l		
		Software 21		Unitised (le	617			
np-		1 Liter Amb.		1 Liter Pla	ectic	16 oz <i>i</i>	Amb	
CL-		500 mL Amb.		500 mL Pl		8oz Amt		
eoh-		250 mL Amb.		250 mL Pl		4oz Ami		
isulfate-		Col./Bacteria		Flashpo		2oz Amt		
<u> -</u>		Other Plastic		Other Gla		Enco		
hiosulfate-		SOC Kit		Plastic B	ag	Frozen:		
ulfuric-		Perchlorate		Ziploci				
omments:		<del>#</del>						
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				, ,				
							_	



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

Berry K. Mille

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

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Chain of Custody/Sample Receipt	11



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



#### 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



Project Location: 12 Ivy Ave., Westfield

Sample Description:

Work Order: 17K0466

Date Received: 11/8/2017

Field Sample #: 12 Ivy Ave-field blank

Sample ID: 17K0466-01

Sampled: 11/7/2017 10:14

Sample	TI. I	170400-01	
Sample	Matrix:	Drinking	Water

Miscellaneous Organic Analyses										
	•		MCL/SMC	L				Date	Date/Time	
Analyte	Results	RL	MA ORSO	- Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
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
Perfluorocetanoie 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
NMcFOSAA	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	I		EPA 537	11/17/17	11/28/17 14:48	BLM
Perfluorotridecanoic acid (PFTrDA)	ND	2.0	2	ng/L	I		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		% Re	covery	Recovery Limit	s	Flag/Qual				
13C-PFHxA		81.4		70-130					11/28/17 14:48	
13C-PFDA		80,1		70-130					11/28/17 14:48	
d5-NEtFOSAA		8,08		70-130			•		11/28/17 14:48	•



Project Location: 12 Ivy Ave., Westfield

Sample Description:

Work Order: 17K0466

Date Received: 11/8/2017 Field Sample #: 12 Ivy Ave-2 Sample ID: 17K0466-02

Sampled: 11/7/2017 10:31

Sample Matrix: Drinking Water

		•	M	iscellaneous Or <sub>i</sub>	ganic Analys	es				
Analyte	Results	RL	MCL/SMCI		Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
# 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		EPÄ 537	11/17/17	11/28/17 15:01	BLM
Perfluorotridecanoic acid (PFTrDA)	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		% Rec	overy	Recovery Limits	i	Flag/Qual				
13C-PFH×A		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	



# 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] 17K0466-02 [12 Ivy Ave-2]	B190938 B190938	250 250	1.00 1.00	11/17/17 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)				Deanarad: 11	/17/17 Anal	igad: 11/29/	<u> </u>			
Perfluorobutanesulfonic acid (PFBS)	3.773	2,0	ng/L	Trepared. 17	CITITET PSHOU	y200. X17207	.,			
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 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 ND	2.0	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L							
NEIFOSAA	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	37.3		ng/L	40.0	·	93,2	70-130			
Surrogate: 13C-PFDA	32.2		ng/L	40.0		80.5	70-130			
Survogate: d5-NEtFOSAA	139		ng/L	160		86.8	70-130			
.CS (B190938-BS1)	•			Prepared: 11	/17/17 Anal	yzed; 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			
NE <sub>t</sub> FOSAA	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 (PFTrDA)	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			
turogate: 13C-PFDA	30.6	•	ng/L	40.0		76.5	70-130			
surrogate: d5-NEtFOSAA	125		ng/L	160		78,3	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

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



#### CERTIFICATIONS

#### Certified Analyses included in this Report

Certified Analyses included in this Report	
Analyte	Certifications
EPA 537 in Drinking Water	
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
Perfluorocctanesulfonic 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
ИА	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

	つって、シコ	http://ww
CON-TREE	Phone: 413-525-2332	- CHAIN OF C
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Fax: 413-525-6405	Requested
	Email: info@contestlabs.com	- AEG

w.contestlabs.com

**USTODY RECORD** 

Turnaround Tim

10-Day

Doc # 381 Rev 1\_03242017

39 Spruce Street East Longmeadow, MA 01028

ANALYSIS REQUESTED

TOTAL As, Fe, HARDNESS, TOC

**ЕРА МЕТНО** 537

CLP Like Data Pkg Required:

Email To: Fax To#

Elizabeth O'Connor

Con-Test Work Order#

 $\Box$ 

EXCEL

PDF 🖸

Format:

Other

Data Delivery 4-Day

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ο. O

Rush-Approval Requ

73 William Franks Drive, West Springfield, MA

ATC Group Services

company Name:

Address: Phone: 1 2 vy Ave, Westfield 12 lvy Ave, Westfield

183EM00170 Rob Smith

Project Location:

roject Name:

Con-Test Quote Name/Number:

Project Manager: Project Number:

Invoice Recipient:

Sampled By:

(413) 781-0070

Due Date: 5-day TAT

3-Day

f-Day 2-Day

Table of Contents <sup>2</sup> Preservation Codes: GW = Ground Water WW = Waste Water DW = Drinking Water A = Air S = Soil SL = Sludge SOL'= Soild O = Other (please define) Orthophosphate San H=HCL N=Mtric Acid S=Sulfuric Acid Dissolved Metals Matrix Codes: <sup>2</sup> Preservation Code O Field Filtered O Field Filtered O Lab to Filter O Lab to Filter <sup>3</sup> Container Code Page 1 of # of Containers papi = I

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10:14

11/7/2017 11/7/2017 11/7/2017

12 lvy Ave - field blank

12 lvy Ave - 1 12 lvy Ave - 2

Server of the Server se			-		S = Suffüric Acid
					X = Sodium Hydroxide
Comments:					Lings II -
RUN EPA Method 537: 12 hy Ave-1 EXTRACT & HOLD EPA Method 537: 12 hy Ave-field blank 6 12 hy Ave-3	A your Ct. of The House		Please use the following co	Please use the following codes to indicate possible sample concentration	\$ 4745
HOLD As, Fe, Hardness, TOC	Herr Digits of the National	7-3/	within the H - High; M - Mediu	within the Conc Code column above: H - High; M - Medium; L - Low; C - Clean; U - Unknown	JRIZMA
Relinguished hy: (signature)	Doto (Time)				A = Amber Glee
184890	11 A 12 A CO	Vetection Limit Requirements	Special R		G = Glass
Received by: (signature)	Nate /Time:		Dalinbay www work reduited		
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keunquished by: (signature)	Date/Time:		RCP Certification Form Required	THE ANALYTICAL LABORATORY	T T T T T T T T T T T T T T T T T T T
				WATEL CONTROLLING COST	
eived by: (signature)	Date/Time:		MA State DW Required		define)
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1		Government	Municipality III MWBA	WETA	C C C C C C
eived by: (signature)	Date/Time:	Federal	School		Non Soxblet
2		^\documents	Brownfield T MBTA		
			]		_

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 Po	olicy) Any False
Statement will be brought to the attention of the Client - State True or F	alse

Client							
Received By	PLF		Date	111811	Time	008_	
How were the samples	In Cooler		No Cooler	On Ice	T	No Ice	
received?	Direct from Samp	oling	· —	Ambient	F	Melted Ice	<del></del>
Were samples within	•	By Gun #	1	Actual Ter	nn - U U	~ いら	
Temperature? 2-6°C	T .	By Blank #	·	Actual Ter		<u> </u>	
Was Custody S	Seal Intact?	l /		Samples Tampere			
Was COC Reli				hain Agree With Sa		— <u>————</u>	
	leaking/loose caps	on any sam	ples?		ampies :		
Is COC in ink/ Legible?				es received within h	rolding time?	<del>-</del> T	-
Did COC include all	Člient		Analysis T		ler Name	<del></del>	
pertinent Information?	Project	<del>-</del>	ID's T	·	Dates/Times	; <del></del>	
Are Sample labels fille	d out and legible?	T	. —————————————————————————————————————	<del></del>			
Are there Lab to Filters'		Ŧ	٧	Vho was notified?			
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Are there Short Holds?	•	F	V	Vho was notified?	**************************************	, , , , , , , , , , , , , , , , , , ,	
s there enough Volume	?	T				,,,-	
s there Headspace who	ere applicable?	NA:	MS	MSD? WA	•		
Proper Media/Container	_	7	ls s	plitting samples red	quired?	F	
Mere trip blanks receive	ed?	=		coc? WA	•	<del></del>	;
Do all samples have the	proper pH?		Acid	<u> </u>	Base	NA.	•
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HCL- Meoh- Bisulfate-	1 Liter Amb. 500 mL Amb. 250 mL Amb. Col./Bacteria		500 mL Pla 250 mL Pla Flashpoin	stic stic 3	8oz Am 4oz Am	nb/Clear	
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HCL- Meoh- Bisulfate- Di- Thiosulfate- Bulfuric- Unp- ICL- Meoh- Bisulfate- Di- Hosulfate- Di- Hosulfate- Ul- Hosulfate- Ul- Hosulfate- Ulfuric-	1 Liter Amb. 500 mL Amb. 250 mL Amb. Col./Bacteria Other Plastic SOC Kit Perchlorate  1 Liter Amb. 500 mL Amb. 250 mL Amb. Col./Bacteria Other Plastic SOC Kit		500 mL Pla 250 mL Pla Flashpoin Other Glas Plastic Ba Ziplock Gressed Med 1 Liter Plas 500 mL Plas 250 mL Plas Flashpoin Other Glas	stic stic 3 of the stic stic stic stic stic stic stic stic	8oz Am 4oz Am 2oz Am Enc Frozen:  16 oz 8oz Am 4oz Am 2oz Am Enc	Amb. b/Clear b/Clear b/Clear core	



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. <sup>1</sup>

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.

Notice of Environmental Sampling 1768 East Mountain 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

V. 10

Attachments: Notice of Environmental Sampling (BWSC-123)

Laboratory Report

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

cc:

Denise Andler, DEP WERO Data Entry: FOLOFF, FOLFLD

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



# Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup

# **BWSC123**

This Notice is Related to: Release Tracking Number

1  -  20093	
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# NOTICE OF ENVIRONMENTAL SAMPLING

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
В.	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:
	✓ Immediate Response Action       ☐ Phase III Feasibility Evaluation         ☐ Release Abatement Measure       ☐ Phase IV Remedy Implementation Plan         ☐ Utility-related Abatement Measure       ☐ Phase V/Remedy Operation Status         ☐ Phase I Initial Site Investigation       ☐ Post-Temporary Solution Operation, Maintenance and Monitoring         ☐ Phase II Comprehensive Site Assessment       ☐ Other         — (specify)
3.	Description of property where sampling will be/has been conducted:
•	✓ residential       ☐ commercial       ☐ industrial       ☐ school/playground       ☐ Other
tim Dri	Description of the sampling locations and types (e.g., soil, groundwater, indoor air, soil gas) to the extent known at the e of this notice.  Inking water samples were collected from the private well located on the above-referenced operty and analyzed for PHAS via EPA Method 537.1.1.
E. C	ontact information related to the party providing this notice:
	ntact Name: MA Department of Environmental Protection
	eet Address: 436 Dwight Street
	//Town: Springfield Zip Code: 01103
Tal	enhone (413) 784-1100 Fmail: 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

1	
-	ı

20093

# NOTICE OF ENVIRONMENTAL SAMPLING

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 <a href="http://www.mass.gov/eea/agencies/massdep/cleanup">http://www.mass.gov/eea/agencies/massdep/cleanup</a>. 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 <a href="http://public.dep.state.ma.us/SearchableSites2/Search.aspx">http://public.dep.state.ma.us/SearchableSites2/Search.aspx</a> to view site-specific files on-line or <a href="http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html">http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html</a> 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.

Revised: 5/30/2014 / Page 2 of 2



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

Keny K. Mille

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

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ATC Group Services LLC - West Springfield 73 Williams Franks Drive

REPORT DATE: 11/22/2017

West Springfield, MA 01089 ATTN: Rob Smith

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#

MATRIX

SAMPLE DESCRIPTION

TEST

SUB LAB

1768 East Mountain Rd-I

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



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

Analyte  Perfluoropentanoic acid (PFPeA)  Perfluorobutanesulfonic acid (PFBS)  Perfluorohexanoic acid (PFHxA)  Perfluoroheptanoic acid (PFHpA)	Results ND ND ND ND	2.0 2.0 2.0 2.0	MCL/SMC MA ORSG 2 2		Dilution  1	Flag/Qual	Method EPA 537 EPA 537	Date Prepared 11/9/17	Date/Time Analyzed 11/19/17 18:05	Analyst BLM
Perfluoropentanoic acid (PFPeA) Perfluorobutanesulfonic acid (PFBS) Perfluorohexanoic acid (PFHxA)	ND ND	2.0 2.0 2.0	2	ng/L ng/L	l 1	LiagiQuat	EPA 537	11/9/17		
Perfluorobutanesulfonic acid (PFBS) Perfluorohexanoic acid (PFHxA)	ND	2.0 2.0		ng/L	1				11/19/17 18:05	BLM
Perfluorohexanoic acid (PFHxA)	ND	2.0		•	1		EPA 537	1110/17		
			2	na/I			22.11.001	11/9/17	11/19/17 18:05	BLM
Designated and an anid (DCU a A)	ND	2.6		ng/L	1		EPA 537	11/9/17	11/19/17 18:05	BLM
remaorenepianoic acid (rrmpA)		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



## 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	-



## 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 Anal	yzed; 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							
VEtFOSAA	ND	2.0	ng/L							
erfluorododecanoic acid (PFDoA)	ND	2.0	ng/L							
Perfluorotridecanoic acid (PFTrDA)	ND	2.0	ng/L							
erfluorotetradecanoic acid (PFTA)	ND	2.0	ng/L				,			
urrogate: 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			
urrogate: d5-NEtFOSAA	150		ng/L	160		93.7	70-130			
.CS (B190547-BS1)				Prepared: 11	/09/17 Anal	yzed: 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			
erfluorononanoic acid (PFNA)	2.87	2.0	ng/L	2.00		144	50-150			
erfluorodecanoic acid (PFDA)	2.76	2.0	ng/L	2.00		138	50-150			
IMeFOSAA	1,63	2.0	ng/L	2.00		81,6	50-150			
erfluoroundecanoic 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			
erfluorododecanoic acid (PFDoA)	2.28	2.0	ng/L	2.00		114	50-150			
erfluorotridecanoic 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			
штоgate: 13C-PFHxA	43.0		ng/L	40.0		107	70-130			
urrogate: 13C-PFDA	49.2		ng/L	40.0		123	70-130			•
turrogate; d5-NEtFOSAA	112		ng/L	160		70.2	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
ACL	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.

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
EPA 537 in Drinking Water	-
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
NMcFOSAA	VT-DW
Perfluoroundecanoic acid (PFUnA)	VT-DW,ME
NEtFOSAA	VT-DW
Perfluorododecanoic acid (PFDoA)	VT-DW,ME
Perfluorotridecanoic acid (PFTrDA)	VT-DW,ME
Perfluorotetradecanoie 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-MAI00	06/30/2018
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
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NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
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NC	North Carolina Div. of Water Quality	652	12/31/2017
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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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GW = Ground Water WW = Waste Water DW ≅ Drinking Water <sup>2</sup> Preservation Codes: N = Nitric Acid S = Suffuric Acid B = Sodium Bisuffate = Sodium Hydroxide S = Summa Canister 3 Container Codes: T = Tedlar Bag O = Other (please Orthophosphate San O = Other (please O = Other (please Non Soxhlet A = Amber Glass PCB ONLY Soxhlet Dissolved Metals O Field Filtered 1 Matrix Codes: <sup>2</sup> Preservation Code O Freld Filtered O Lab to Fitter O. Lab to Filter M = Methanol ≥ Sodium ST = Sterile <sup>3</sup> Container Code Page 1 of SL = Sludge SOL = Solid hiosulfate # of Containers TRIZMA P = Plastic G = Glass VEVIAL define) define) define) 3 = Soil Please use the following codes to indicate possible sample concentration CON-LEST. Chromatogram www.contestlebs.com AIHA-LAP,LLC 39 Spruce Street East Longmeadow, MA 01028 H - High; M - Medium; L - Low; C - Clean; U - Unknown ANALYSIS REQUESTED within the Conc Code column above: Other Doc # 381 Rev 1\_03242017 WRTA 工 > TOTAL As, Fe, HARDNESS, TOC >< MA MCP Required CT RCP Required RCP Certification Form Required MCP Certification Form Required z A, MWRA School MBTA MA State DW Required Special Requirements O Δ EPA METHOD 537 × × × Wathix Conc. 5 5  $\Rightarrow$ http://www.contestlabs.com Requested Turnaround Time CHAIN OF CUSTODY RECORD 回 Rush-Approval Required ă Ă Municipality š Brownfield # QISMd 10-Day Data Delivery 3-Day EXCEL Çıab 4-Day CLP Like Data Pkg Required: × × Ending Composite Due Date: 5-day TAT Detection Limit Reduinanients PDF [J EXTRACT & HOLD EPA Method 537: 1768 East Mountain Rd-field blank & 1768 East Mountain Rd-2 Government 11:25 Email To: 11:20 Fax To #: Format: 11.10 Federal 7-Day Other: 2-Day 1-Day Ç, Project Entity 11/7/2017 11/7/2017 11/7/2017 Other: 73 William Franks Drive, West Springfield, MA Email: info@contestlabs.com 800 ) ၁ 1768 East Mountain Rd - field blank 1768 East Mountain Rd, Westfield 1768 East Mountain Rd, Westfield 11 5) 17 Fax: 413-525-6405 Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: 11/8/11 1768 East Mountain Rd - 2 1768 East Mountain Rd - 1 ATC Group Services Elizabeth O'Conno (413) 781-0070 RUN EPA Method 537: 1768 East Mountain Rd-1 ر الم الم 183EM00170 Rob Smith Con-Test Quote Name/Number: HOLD As, Fe, Hardness, TOC CON-TEST Relinquished by: (signature) Relinquished by: (signature) iquished by: (signature) Coxal Receiyed by: (signature) ived by: (signature) ived by: (signature) Work Order# Con-Test 0 Company Name: Invoice Recipient: Project Location: Project Manager: Project Number: Project Name: Sampled By Comments: Address: Phone:

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	$\underline{\hspace{1cm}}$	ATC .				•		
Receiv	ved By	BLF		Date	11811	Time	_ &	$\bigcirc$
How were t	he samples	In Cooler	T	No Cooler	On Ice	<del></del> T	No ice	
recei	ved?	Direct from Sam	plina	•	Ambien	t	Melted Ice	
10/	-1 31L t		By Gun#	l	Actual Te	***************************************	-5 U C	
	ples within	<del>-</del> r				· · · · · · · · · · · · · · · · · · ·	1-2.7	
Temperatu	Custody S	col Intoot?	By Blank #	14/	Actual Te			
	-				ere Samples Tamper		<u></u>	
	COC Relir				s Chain Agree With S	samples?		
Is COC in in		eaking/loose caps	on any sam			haldha dha c		÷
Did COC i		Client		Analysis	nples received within			
pertinent in		Project		ID's		pler Name on Dates/Times	<u>,                                    </u>	
		d out and legible?	<del></del>	1D 3	Conecut	ni Datesi i ililet	3	
Are there La			<del></del>		Who was notified?			
Are there Ru		•	<u> </u>		Who was notified?			•
Are there Sh					Who was notified?			
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	-	re applicable?			MS/MSD? LA			
Proper Medi			<del></del>		is splitting samples re		<del></del>	
Were trip bla					On COC?	squii eu r	<del></del>	
Do all sampl			<u>-</u> -	Acid	T -	Base	iA	
				-				
Unp-		1 Liter Amb.		1 Liter F	Plastic I	16.0	z Amb.	
HCL-	2	500 mL Amb.	· ·	500 mL			nb/Clear	
Meoh-		250 mL Amb.		250 mL			nb/Clear	
Bisulfate-	·	Col./Bacteria		Flash	point		nb/Clear	
DI-		Other Plastic		Other (	Glass	En	core	
Thiosulfate-		SOC Kit		Plastic	Bag	Frozen:		
Sulfuric-		Perchlorate		Ziplo	ck			
				Unused N	iedia			
			4.7					
Jnp-		1 Liter Amb.		1 Liter F	lastic	16 oz	Amb.	
-ICL-		500 mL Amb.		500 mL l	Plastic	8oz Am	nb/Clear	•
vleoh-		250 mL Amb.		250 mL J		4oz Am	ıb/Clear	
Bisulfate-		Col./Bacteria		Flashp			ib/Clear	
)l- =		Other Plastic		Other C		<del></del>	core	
hiosulfate-		SOC Kit	<del></del>	Plastic		Frozen:		1
Sulfurio-		Perchlorate		Zipło	ck	<u> </u>	· · · · · · · · · · · · · · · · · · ·	
comments:				<del></del>				
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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: 1768 East Mountain Rd., Westfield

Client Job Number:

Project Number: 183EM00170

Laboratory Work Order Number: 17K0468

Keny K. Mille

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

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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:

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

na Wasslengten



Project Location: 1768 East Mountain Rd., Westfie

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

·			V	Aiscellaneous Or	ganic Analys	es				
			MCL/SMC	el .			•	Date	Date/Time	
Analyte	Results	RL	MA ORSO	4 Units	Dilution	Flag/Qual	Method .	Prepared	Analyzed	Analyst
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	BÌLM
Perfluoroheptanoic acid (PFHpA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/28/17 19:29	BLM
Perfluorobexanesulfonic 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	I		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	I		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 (PFTrDA)	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		% Rec	covery	Recovery Limit	s	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	



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

	•		M	fiscellaneous Org	ganic Analys	es				
			MCL/SMC	L				Date	Date/Țime	
Analyte	Results	RL	MA ORSG	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
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	i		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	BĿM
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 (PFTrDA)	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	· , ,	% Rec	overy	Recovery Limits		Flag/Qual				
I3C-PFHxA		92.4		70-130		١		=	11/28/17 19:41	
3C-PFDA		75.4		70-130	•		-		11/28/17 19:41	
d5-NEtFOSAA		89.2		70-130					11/28/17 19:41	



#### 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	



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

#### Miscellaneous Organic Analyses - Quality Control

	n •	Reporting	** **	Spike	Source	a/PEC	%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD .	Limit	Notes
atch B190551 - EPA 537										
llank (B190551-BLK1)				Prepared: 11	I/09/I7 Anal	yzed; 11/19/	17			
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	ng/L							
Perfluorohexanoic acid (PFHxA)	ND	2.0	ng/L							
erfluoroheptanoic acid (PFHpA)	ND	2.0	ng/L							
erfluorohexanesulfonic acid (PFHxS)	ND	2.0	ng/L							
erfluorooctanoic acid (PFOA)	ND	2.0	ng/L							
erfluorocctanesulfonic acid (PFOS)	ND	2.0	ng/L							
erfluorononanoic acid (PFNA)	ND	2.0	ng/L							
erfluorodecanoic acid (PFDA)	ND ·	2.0	ng/L							
<b>IMeFOSAA</b>	` ND	2.0	ng/L							
erfluoroundecanoic acid (PFUnA)	ND	2,0	ng/L							
IEtFOSAA	ND	2.0	ng/L							
erfluorododecanoic acid (PFDoA)	ND	2.0	ng/L							
erfluorotridecanoic acid (PFTrDA)	ND	2.0	ng/L	-						
erfluorotetradecanoic acid (PFTA)	ND	2.0	ng/L							
urrogate: 13C-PFHxA	35.2	4	ng/L	40.0		87.9	70-130			
urrogate: 13C-PFDA	36.8		ng/L	40.0		92.0	70-130			
urrogate: d5-NEtFOSAA	143		ng/L	160		1.68	70-130			
CS (B190551-BS1)				Prepared: 11	/09/17 Analy	yzed: 11/19/	17			
erfluorobutanesulfonic acid (PFBS)	10.2	2.0	ng/L	8.85		115	70-130			
erfluorohexanoic acid (PFHxA)	9.49	2.0	ng/L	10.0		94.9	70-130			
erfluoroheptanoic acid (PFHpA)	9.09	2.0	ng/L	10,0		90.9	70-130			
erfluorohexanesulfonic acid (PFHxS)	10.7	2.0	ng/L	9.10		117	70-130			
erfluorocctanoic acid (PFOA)	10.9	2.0	ng/L	10,0		109	70-130			
erfluorooctanesulfonic acid (PFOS)	9.14	2.0	ng/L	9.25		98.8	70-130			
erfluorononanoic acid (PFNA)	10.1	2.0	ng/L	10.0		101	70-130			
erfluorodecanoie acid (PFDA)	11.3	2.0	ng/L	10.0		113	70-130	•		
MeFOSAA	10.6	2.0	ng/L	10.0		106	70-130		-	
erfluoroundecanoic acid (PFUnA)	10.6	2.0	ng/L	10.0		901	70-130		•	
EiFOSAA	11.5	2.0	ng/L	10.0		115	70-130			
erfluorododecanoic acid (PFDoA)	9,96	2.0	ng/L	10.0		99,6	70-130			
erfluorotridecanoic acid (PFTrDA)	9.54	2.0	ng/L	10.0		95.4	70-130			
erfluorotetradecanoic acid (PFTA)	10.5	2.0	ng/L	10.0		105	70-130			
urrogate: 13C-PFHxA	37.9		ng/L	40,0		94.9	70-130			
urrogate: 13C-PFDA	40.7		ng/L	40.0		102	70-130			
urrogate: 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 val

lues in the calculation which have not been rounded.

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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
NEIFOSAA	VT-DW
Perfluorododecanoic acid (PFDoA)	VT-DW,ME
Perfluorotridecanoic acid (PFTrDA)	. VT-DW,ME
Perfluorotetradecanoic acid (PFTA)	VT-DW,ME

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Code	Description .	Number	Expires
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MA	Massachusetts DEP	M-MA100	06/30/2018
CŢ .	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

	ured III AMALYTICAL LABORATORY S SUmma Canister	TO STATE CONTINUES COME CONTINUES CO	red Carolier presserved		Office	i L	Uniomatogram Chromatogram Chrom		
CT RCP Required	RCP Certifica		MA State DW Required	# CISMd		ment [7] Municipality	213	City	
	Date/Time:		Date/Time;	Other:	Date/Time: Project Entity		Date/Time:		****

ved by: (signature)

S=Sulfuncacid B=Sodium Bisulfate X=Sodium Hydroxide GW ≅ Ground Water WW = Waste Water DW ≅ Drinking Water <sup>2</sup> Preservation Codes: ¹Container.Codes:
A=Amber Glass:
G≓Glass:
P≓Plastic
ST≔Sterile Thiosurfate O = Other (please o = Other (please Orthophosphate . \* Matrix Codes: Dissolved Metals O Field Fiftered
O Lab to Fifter M = Methanol N = Nitric Acid <sup>2</sup> Preservation Code O Field Filtered THE HOLL O Lab to Filter TRIZMA A=Air S=Soil SL=Studge <sup>3</sup> Container Code SOL=Solid T \* Sodiam # of Containers define) define) Please use the following codes to indicate possible sample concentration 39 Spruce Street East Longmeadow, MA 01028 H - High; M - Medium; L - Low; C - Clean; U - Unknown ANALYSIS REQUESTED within the Conc Code column above: I. TOTAL As, Fe, HARDNESS, TOC MCP Certification Form Required MA MCP Required ø. Special Requirements ιĊ O ۵ × × × EPA METHOD 537 **-**⇒  $\Box$ 回 ⋛ Ճ ձ 10-Day Rush-Approval Req Requested Turnarou Data Delivery 4-Day 3-Day CLP Like Data Pkg Required: × Due Date: 5-day TAT P5. EXTRACT & HOLD EPA Method 537: 1768 East Mountain Rd-field blank & 1768 East Mountain Rd-2 Email To: 11:25 3 Fax To # 11/7/2017 | 11:10 Format: Other; 7-Day 1-Day 2-Day Detection Limit 11/7/2017 11/7/2017 MA 73 William Franks Drive, West Springfield, MA Email: info@contestlabs.com 800 1768 East Mountain Rd - field blank 1768 East Mountain Rd, Westfield 1768 East Mountain Rd, Westfield Fax: 413-525-6405 1118/11 Z.Z. O. L. Abate/Time: Date/Time; 1768 East Mountain Rd - 2 1768 East Mountain Rd - 1 ATC Group Services Elizabeth O'Connor (413) 781-0070 RUN EPA Method 537: 1768 East Mountain Rd-1 183EM00170 Rob Smith Con-Test Quote Name/Number: 10LD As, Fe, Hardness, TOC Conal Con-Test: Work/Order# Relinguished by: (signature) iquished by: (signature) elinquished by: (signature) leceyed by: (signature) ived by: (signature) 40 Invoice Recipient: Project Name: Project Location: Project Manager: Company Name: Project Number: Sampled By: cmments 4ddress: Phone: Page 11.of 12

Page\_\_1\_\_ of \_\_\_1\_\_

Doc # 381 Rev 1\_03242017

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

Phone: 413-525-233

CON-LEST

39 Spruce St.

East Longmeadow, MA. 01028

P: 413-525-2332 F: 413-525-6405



www.contestlabs.com

Login Sample I	Receipt Checklist	(Rejection	Criteria Lis	ting - Usi	ing Accept	ance Policy)	αναιοιοιοιοιοιοιοιοιοιοιοιοιοιοιοιοιοιοι	
	ement will be brou	ight to the a	ttention of	the Clien	it - State Tr	ue or False		
Client	IC							
Received By	PLI		Date		8117	Time	87	
How were the sample	es In Cooler	Т	No Cooler		On Ice	-1	No Ice	·
received?	Direct from Sam	pling	•		Ambien	<del>,</del>	Melted Ice	·
Were samples within		By Gun #	1		Actual Te			······································
Temperature? 2-6°C		By Blank #				<u> </u>	, <u>5, 4</u>	
Was Custody		Dy Diank #	1/1/0	ra Camal	Actual Te			
Was COC Re			. Noos	re Sample	es.Tampere gree With S	a with?	<u> </u>	
	n/leaking/loose caps	On any sam	nles?	S CHAIN A	gree with 5	ampies?		•
Is COC In ink/ Legible	? —	on any bang	•	nles rocc	m Nivad within	holding time?	<del></del>	
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Are there Rushes?		===			s notified?			
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Is there enough Volum	ie?	<del>-</del>		AAÍIO MAS	is notified t	·		
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Proper Media/Containe		7			samples re		T_	
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Do all samples have th			Acid		<u>V_</u>	- D		,
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Meoh-	250 mL Amb.		250 mL F		~~		nb/Clear	
Bisulfate-	Col./Bacteria		Flashp				nb/Clear nb/Clear	
DI-	Other Plastic		Other G				core	
Thiosulfate-	SOC Kit		Plastic		· · · · · · · · · · · · · · · · · · ·	Frozen:	core	
Sulfuric-	Perchlorate		Ziploc			1 102011.		
			Umber M					
Jnp-	1 Liter Amb.		1 Liter Pl	astic		16.07	Amb	
ICL-	500 mL Amb.		500 mL P				Amb.	
/leoh-	250 mL Amb.		250 mL P				ib/Clear	
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) -	Other Plastic		Other G		*****	Enc		
hiosulfate-	SOC Kit		Plastic I		***************************************	Frozen:		
ulfuric-	Perchlorate		Ziploc					]
omments:								
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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

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. <sup>1</sup>

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.

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 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

V. Tor

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

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



# Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup

### **BWSC123**

This Notice is Related to: Release Tracking Number

-	20093

# NOTICE OF ENVIRONMENTAL SAMPLING

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

1. Street Address: 175 Falcon Drive  City/Town: Westfield	A. The address of the disposal site related to	this Notice	and Release Tracking I	Number (provic	led above):
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:  1. Immediate Response Action Phase III Feasibility Evaluation Plan Phase II Initial Site Investigation Phase IV Remedy Operation Status  1. Phase II Comprehensive Site Assessment Other (specify)  3. Description of property where sampling will be/has been conducted:  1. Immediate Response Action Phase III Feasibility Evaluation Plan Phase III Comprehensive Site Assessment Status Phase IV Remedy Operation, Maintenance and Monitoring Phase III Comprehensive Site Assessment Status Post-Temporary Solution Operation, Maintenance and Monitoring Phase III Comprehensive Site Assessment Status Post-Temporary Solution Operation, Maintenance and Monitoring 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.	1. Street Address: 175 Falcon Drive				
1. Name: Daniel & Laura Misseri 2. Street Address: 89 Ridge Trail Road City/Town: Westfield	City/Town: Westfield	Zip Code:	01085		
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2. MCP phase of work during which the sampling will be/has been conducted:    Immediate Response Action	Street Address: 89 Ridge Trail Road			•	
Immediate Response Action	City/Town: Westfield 2	Zip Code:	01085		
Immediate Response Action	2. MCP phase of work during which the sampling	will be/has	been conducted:		
Phase II Comprehensive Site Assessment 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.	<ul><li>✓ Immediate Response Action</li><li>☐ Release Abatement Measure</li><li>☐ Utility-related Abatement Measure</li></ul>	☐ Phase☐ Phase☐ Phase	e III Feasibility Evaluation e IV Remedy Implementa e V/Remedy Operation S	ition Plan tatus	nce and Monitoring
(specify)  3. Description of property where sampling will be/has been conducted:  ☐ residential ☐ commercial ☐ industrial ☐ school/playground ☐ Other			•	ation, Mantena	nce and Monitoring
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property and analyzed for PHAS via EPA Method 537.1.1.	time of this notice.			,	
F. Contact information related to the party providing this notice:				the above-ref	erenced
F. Contact information related to the party providing this notice:					
Contact Name: MA Department of Environmental Protection		al Protection			· .
Street Address: 436 Dwight Street  City/Town: Springfield Zin Code: 01103		7in 0-da-	01103		•
City/Town: Springfield Zip Code: 01103  Telephone: (413) 784-1100 Email: david.bachand.jr@state.ma.us	City/Town: Springingia Talenhone: (413) 784-1100			.us	•



# Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup

#### **BWSC123**

This Notice is Related to: Release Tracking Number

1
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20093

#### NOTICE OF ENVIRONMENTAL SAMPLING

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 <a href="http://www.mass.gov/eea/agencies/massdep/cleanup">http://www.mass.gov/eea/agencies/massdep/cleanup</a>. 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 <a href="http://public.dep.state.ma.us/SearchableSites2/Search.aspx">http://public.dep.state.ma.us/SearchableSites2/Search.aspx</a> to view site-specific files on-line or <a href="http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html">http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html</a> 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.

Revised: 5/30/2014 Page 2 of 2



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

Keny K. Mille

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
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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



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

PURCHASE ORDER NUMBER:

REPORT DATE; 11/22/2017

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

Page 3 of 11



#### 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 di

Wasslingte

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



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

			M	fiscellancous Org	ganic Analys	es				
			MCL/SMC	L				Date	Date/Time	
Analyte	Results	RL	MA ORSO	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analys
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	I		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
NMcFOSAA	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	I		EPA 537	11/9/17	11/17/17 18:45	BLM
NEtFOSAA	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	I		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		% Re	covery	Recovery Limit	S	Flag/Qual				
13C-PFHxA		129		70-130					11/17/17 18:45	
13C-PFDA	-	114		70-130	•				11/17/17 18:45	
d5-NEtFOSAA		71.6		70-130					11/17/17 18:45	



#### Sample Extraction Data

Prep Method: EPA 537-EPA 537

Lab Number [Field 1D]	Batch	Initial [mL]	Final [mL]	Date	• '
17K0441-01 [89 Ridge Trail Rd-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: 1	1/09/17. Anal	yzed: 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							
erfluorooctanesulfonic 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							
urrogate: 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		*	
turrogate: d5-NEtFOSAA	150		ng/L	160		93.7	70-130			
.CS (B190547-BS1)				Prepared: 1	1/09/17 Anal	yzed: 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			
erfluorohexanesulfonic 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			
erfluorononanoic 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			
MeFOSAA	1.63	2.0	ng/L	2.00		81.6	50-150			
erfluoroundecanoic 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			
erfluorotridecanoic 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			
surogate: 13C-PFHxA	43.0		ng/L	40.0		107	70-130			
Surregate; 13C-PFDA	. <del>1</del> 9.2		ng/L	40.0		123	70-130			
Surrogate: d5-NEtFOSAA	112		ng/L	160		70.2	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
RĹ	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
EPA 537 in Drinking Water	
Perfluorobutanesulfonic acid (PFBS)	VT-DW,ME
Perfluorohexanoic acid (PFHxA)	VT-DW,ME
Perfluoroheptanoic acid (PFHpA)	YT-DW,ME
Perfluoroliexanesulfonic acid (PFHxS)	VT-DW,ME
Perfluorocctanoic 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 Publile Health	PH-0567	09/30/2019
ŃЧ	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

Dissolved Metals Samples <sup>2</sup> Preservation Codes: | = Iced | H≃HCL = Sodium Hydroxide GW = Ground Water WW = Waste Water DW = Drinking Water Orthophasphate Samp = Sodium Bisulfate - Summa Canister Container Codes Page\_\_1\_\_ of \_\_\_1\_\_ O = Other (please O = Other (please O = Other (please Von Soxhlet Amber Glass PCB ONLY O Fred Filtered = Sutfuric Acid Soxhlet - Tedlar Bag O Field Filtered <sup>2</sup> Preservation Code N = Nitric Acid O Lab to Filter O Lab to Fitter p ⊭ Plastic ST ≅ Sterile V ≐ Vial W = Methanol Container Code SL = Sludge SOL = Solid = Sodium hiosulfate TRIZMA # of Containers define) G = Glass define) define) SESOIL Please use the following codes to indicate possible sample concentration con-test Chromatogram AIHA-LAP, LLC 39 Spruce Street East Longmeadow, MA 01028 H - High; M - Medium; L - Low; C - Clean; U - Unknown ANALYSIS REQUESTED within the Conc Code column above: Other Doc # 381 Rev 1\_03242017 WRTA r > TOTAL AS, Fe, HARDNESS, TOC MA MCP Required MCP Certification Form Required CT RCP Required RCP Certification Form Required z Δ. MWRA School MA State DW Required MBTA 0 × × α, EPA METHOD 537 ×  $\supset$  $\Rightarrow$  $\supset$ http://www.contestlabs.com CHAIN OF CUSTOBY RECORD Requested Turnaround Tim  $\Box$ ⋛ λ š Municipality Brownfield PWSID # Rush-Approval Requ 10-Day Data Delivery 3-Day 4-Day 없 g g CLP Like Data Pkg Required: × Enoing Composite Due Date: 5-day TAT PDF [5] Detection Limit Require Government Email To: 12:02 Format: Fax To #: 72:12 Federal 12:13 Other: 1-Day 2-Day 7-Day Ç £ 89 Ridge Trail Rd-2 Project Entity 11111 11/11/11 Ę Other: 明阳 MA 73 William Franks Drive, West Springfield, MA Email: info@contestlabs.com 8 SCO EXTRACT & HOLD EPA Method 537: 89 Ridge Trail Rd-field blank 89 Ridge Trail Rd - field blank II [ない] Date/Time: 89 Ridge Trail Rd, Westfield 89 Ridge Trail Rd, Westfield Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: 11 8 11 89 Ridge Trail Rd - 2 89 Ridge Trail Rd - 1 ATC Group Services Elizabeth O'Connor (413) 781-0070 183EM00170 Rob Smith RUN EPA Method 537: 89 Ridge Trail Rd-1 eceived by: (signature) 4.7, 2.7. Con-Test Quote Name/Number: CON-LEST HOLD As, Fe, Hardness, TOC Relinquished by: (signature) quished by: (signature) COST elinquished by: (signature) ved by: (signature) ved by: (signature) Con-Test: Work Order# involce Recipient: Company Name: Project Location: Project Number: Project Manager: roject Name: Sampled By: :omments: Address: Phone: Page 10 of 11

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	$\mathcal{L}$	ITC						•	
Recei	ved By	- BLE		Date	7/5	2/17	Time	XX3	2
How were	the samples	In Cooler		No Cooler	,	On Ice	7	No Ice	
rece	ived?	Direct from Samp	oling			 Ambient	,	Melted Ice	
Mara aam	unlan wiithin		By Gun#	1		Actual Tem	p-4.4.	5.4°C -	
	ples within ure? 2-6°C	Т	By Blank #	<del></del>		Actual Tem			
•	s Custody S	eal Intact?	LA	Wei	re Samole	s Tampered		V 1/2	
	s COC Relin					ree With Sa		7	
		eaking/loose caps	on any sam		F	, ++	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
	nk/ Legible?		· .		ples recei	ived within h	olding time?	-	
	include all	Client		Analysis _	<u> </u>		er Name	T	
-	nformation?	Project		lD's		Collection	Dates/Times		
-		I out and legible?							
	ab to Filters?		F			s notified?			
Are there R			<u> </u>			s notified?			
Are there SI			<u> </u>		Who was	s notified?			
	ugh Volume								
	•	re applicable?			MS/MSD?				
•	ia/Container:	' '				samples req	uired?		
-	anks receive		<u> </u>		On COC?	<u>M</u>		. 🖚	
Do all samp	les have the	proper pH?	*	Acid			Base		
Unp-		1 Liter Amb.		1 Liter F			16 oz	~~~~	
HCL-	2	500 mL Amb.		500 mL l		ュ	8oz Am		
Meoh- Bisulfate-		250 mL Amb. Col./Bacteria		250 mL i			4oz Ami		
Disullate- Di-		Other Plastic		Flashp Other C			2oz Ami Enc		
Thiosulfate-		SOC Kit		Plastic	<del></del>		Frozen:	ore	
Sulfuric-		Perchlorate		Ziplo			, , 02011.		l
				Unused N					
veils of the				<u> </u>	aithe ann a				
Jnp-		1 Liter Amb.		1 Liter P	lastic		16 oz <i>i</i>	Amb.	
ICL-		500 mL Amb.		500 mL F			8oz Aml	<del></del>	
/leoh-	-	250 mL Amb.		250 mL F			4oz Amt	o/Clear	
3isulfate-		Col./Bacteria		Flashp			2oz Amb		
)l-		Other Plastic		Other G			Enco	ore	<i></i>
hiosulfate-		SOC Kit		Plastic			Frozen:		
Sulfuric-	<u> </u>	Perchlorate		Ziplod	<u>*                                      </u>				
Comments:									
					:				
	• ,	•		i	*				
	•								- 1
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the state of the s									



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

Keny K. Mille

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

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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:

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.

1 Lisa A. Worthington Project Manager

na Washingt



Project Location: 89 Ridge Trail Rd., Westfield

Sample Description:

2.0

2.0

ND

ND

2

Work Order: 17K0456

11/28/17 17:59

11/28/17 17:59

11/9/17

11/9/17

EPA 537

EPA 537

BLM

BĽM

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

Perfluorotridecanoic acid (PFTrDA)

Perfluorotetradecanoic acid (PFTA)

Miscellaneous Organic Analyses Date/Time Date MCL/SMCL Analyst Prepared Analyzed Flag/Qual Method Analyte Results RLMA ORSG Units Dilution 11/28/17 17:59 BLM1 EPA 537 11/9/17 Perfluorobutanesulfonic acid (PFBS) ND 2.0 2 ng/L EPA 537 11/9/17 11/28/17 17:59  ${\rm BLM}$ Perfluorohexanoic acid (PFHxA) 2 ng/L ND 2.0 EPA 537 11/9/17 11/28/17 17:59 BLMPerfluoroheptanoic acid (PFHpA) ND 2.0 2 ng/L 1 2 EPA 537 11/9/17 11/28/17 17:59 ND 2.0 ng/L 11/28/17 17:59 ng/L EPA 537 11/9/17 2 ND 2.0 EPA 537 11/9/17 11/28/17 17:59 ND 2,0 2 ng/L

Perfluorohexanesulfonic acid (PFHxS) BLMBLM Perfluorooctanoic acid (PFOA) BLM Perfluorooctanesulfonic acid (PFOS) 11/9/17 11/28/17 17:59 BLM EPA 537 Perfluorononanoic acid (PFNA) ng/L ND 2.0 11/9/17 11/28/17 17:59 BLM EPA 537 Perfluorodecanoic acid (PFDA) 2 ng/L ND 2.0 11/9/17 11/28/17 17:59 BLM EPA 537 NMeFOSAA ND 2.0 ng/L EPA 537 11/9/17 11/28/17 17:59 BLM Perfluoroundecanoic acid (PFUnA) ND 2.0 2 ng/L EPA 537 11/9/17 11/28/17 17:59 BLM NEtFOSAA ng/L ND 2.0 EPA 537 11/9/17 11/28/17 17:59 BLM 2 ng/L Perfluorododecanoic acid (PFDoA) ND 2.0

% Recovery Recovery Limits Flag/Qual Surrogates 11/28/17 17:59 78.7 70-130 13C-PFHxA 11/28/17 17:59 77.5 70-130 13C-PFDA 11/28/17 17:59 70.7 70-130 d5-NEtFOSAA

ng/L

ng/L



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

			N	Aiscellaneous Org	ganic Analys	es				
Analyte	Results	RL	MCL/SMC		Dilution	Flag/Quał	Method	Date Prepared	Date/Time Analyzed	Analys
Perfluorobutanesulfonic acid (PFBS)	ND	2.0	2	ng/L	1.	r iag/Quai	EPA 537	11/9/17	11/28/17 18:12	BLM
Perfluorohexanoic acid (PFHxA)	ND				1.					
. ,		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
# Perfluorocctanesulfonic 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	Į		EPA 537	11/9/17	11/28/17 18:12	BLM
NMeFOSAA	ND	2.0		ng/L	i		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 (PFTrDA)	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		% Rec	overy	Recovery Limits		Flag/Qual				
13C-PFHxA		91.0		70-130					11/28/17 18:12	
13C-PFDA		85.4		70-130					11/28/17 18:12	
d5-NEtFOSAA		79.2		70-130			•		11/28/17 18:12	



#### Sample Extraction Data

Prep Method: EPA 537-EPA 537

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date	
17K0456-01 [89 Ridge Trait Rd-field blank]	B190551	250	1.00	11/09/17	•
17K0456-02 [89 Ridge Trail Rd-2]	B190551	250	1.00	11/09/17	



#### QUALITY CONTROL

#### Miscellaneous Organic Analyses - Quality Control

, Australia	Th	Reporting	¥ 4. **	Spike	Source	0/757/2	%REC	nen	RPD	37 -
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
latch B190551 - EPA 537										
Blank (B190551-BLK1)		<del>.</del>		Prepared: 11	/09/17 Anal	yzed: 11/19/	17			
Perfluorobutanesulfonic acid (PFBS)	ИD	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							
erfluoreoctanoic acid (PFOA)	ND	2,0	ng/L							
erfluorooctanesulfonic acid (PFOS)	ND	2,0	ng/L							
erfluorononanoic acid (PFNA)	ND	2.0	ng/L							
Perfluorodecanoic acid (PFDA)	ND	2.0	ng/L							
MeFOSAA	ND	2.0	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	2,0	ng/L							
VEtFOSAA	ND	2.0	ng/L							
erfluorododecanoic acid (PFDoA)	ND	2.0	ng/L							
erfluorotridecanoic acid (PFTrDA)	ND	2.0	ng/L							,
erfluorotetradecanoic acid (PFTA)	ND	2.0	ng/L							
urrogate: 13C-PFHxA	35.2		ng/L	40.0		87.9	70-130		-	
urrogate: 13C-PFDA	36.8		ng/L	40.0		92.0	70-130			
urrogate: d5-NEtFOSAA	143		ng/L	160		89.1	70-130		+	
CS (B190551-BS1)				Prepared; 11	/09/17 Analy	/zed: 11/19/	17			
erfluorobutanesulfonic acid (PFBS)	10.2	2.0	ng/L	8.85		115	70-130			
erfluorohexanoic acid (PFHxA)	9.49	2,0	ng/L	10.0		94.9	70-130			
erfluoroheptanoic acid (PFHpA)	9.09	2.0	ng/L	10.0		90,9	70-130			
erfluorohexanesulfonic acid (PFHxS)	10.7	2.0	ng/L	9.10		117	70-130			
erfluorooctanoic acid (PFOA)	10.9	2.0	ng/L	10.0		109	70-130			
erfluorooctanesulfonic acid (PFOS)	9.14	2.0	ng/L	9.25		98.8	70-130			
erfluòrononanoic acid (PFNA)	10.1	2,0	ng/L	10.0		101	70-130			
erfluorodecanoic acid (PFDA)	11.3	2.0	ng/L	10.0		113	70-130			
IMeFOSAA	10.6	2.0	ng/L	10.0		106	70-130			
erfluoroundecanoic acid (PFUnA)	10.6	2,0	ng/L	10.0		106	70-130			
<b>IE</b> tFOSAA	11.5	2.0	ng/L	10.0		115	70-130			•
erfluorododecanoic acid (PFDoA)	9.96	2.0	ng/L	10.0		99,6	70-130			
erfluorotridecanoic acid (PFTrDA)	9.54	2.0	ng/L	10.0		95,4	70-130			
erfluorotetradecanoic acid (PFTA)	10,5	2.0	ng/L	10.0	•	105	70-130			
urrogate: 13C-PFHxA	37.9		ng/L	40,0		94.9	70-130			
штоgate: 13C-PFDA	40.7		ng/L	40,0		102	70-130			
urrogate: d5-NEtFOSAA	154	-	ng/L	160		96,1	70-130			



#### FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
t	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
МD	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
<b>ACL</b>	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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#### Certified Analyses included in this Report

Analyte	Certifications	
EPA 537 in Drinking Water		
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	
Perfluoroectanesulfonic 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	

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MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Publile 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

	Page 1 of 1	5 ]	# of Containers	<sup>2</sup> Preservation Code	<sup>3</sup> Container Code	Dissolved Metals Samples	O Field Filtered	O Lab to filter		Orthophosphate Samples	O Field Fittered		2 Matrix Codes:	Gw ≅ Ground Water WW ≡ Waste Water	DW Drinking water	\$ # \$010 \$1 #\$tid8#	Description of		L DEGLOSON XXXX		M = Wethanol	S = Sulfurched	X = Sodium Bisulfate     X = Sodium Hvdroxide	T Sodium	10%		*Container Codes:	A = Amber Glass G = Glass	ST Sterile			O=Other (please		PCB ONLY	
1_03242017	39 Spruce Street	East Longmeadow, MA 01028			- 1	ANALYSIS REQUESTED																			Please use the following codes to indicate possible sample concentration	within the Conc Code column above:	ii iigii, m. medium; t. Low; t. Clean; U. Unknown			グリニの	IIII AMALYTICAL LARGENTORY	11 hativija,4分,744phothat char s canna s canna sa ma		Other	WRTA
Doc # 381 Rev 1_03242017			-	z	Л d d	oc	) T (5		IOD :	HT3	M A		ATOT	×	×	×									e the following code:	within the C	ingil, m - medium;	Special Requirements and MCP Remired	MCP Certification Form Required	CT RCP Required	RCP Certification Form Required	MA State DW Recuired	-	YOUNG	School
http://www.contestlabs.com	CHAIN OF CUSTODY RECORD	Requested Turnaround Time	10-Day	Al	į,	3-pay	4-Day	EXCE:		Required:				DW	×	MG ×		-	-						Please use	1		Special R	MCP Certificatio	G	RCP Certificatio	WA Stat	PWSID #		Municipality 21 J
	CHAIN OF	50 Gr	7-Day	Uue Date: 5-day IAI	A Day	1-bay		Format: PDF		CLP Like Data Pkg Reguired:	Email To:	Fax To #:	Endings (Composed Date/Nings)	1 12:02	$\perp$	7 12:13					,			-		ail Rd-2		on Limit Requirements						Vernment	Federal
りつ	332	stiske rom	Stans, com	act Springfield MA	יייייייייייייייייייייייייייייייייייייי								mone a beginn	nk   11   1	riffir	T1/1/11				,						lank & 89 Kidge Trail Rd-2		9:00 MA		(୨୯)	را (را				3 D C
7	Phone: 413-525-2332	Fax: 413-525-6405 Email: Info@contectiate com	ATC Group Services	73 William Franks Drive. West Springfield MA	(413) 781-0070	89 Ridge Trail Rd, Westfield	89 Ridge Trall Rd, Westfield	183EM00170	Rob Smith			Elizabeth O'Connor	Olent sample VDV Destr	89 Ridge Trait Rd - field blank	89 Ridge Trail Rd - 1	89 Ridge Trail Rd - 2									Rd-1 o Bisino Tamir da sena e	מ אותצב וזמון עמ-זופנם ב		Date/Time;	A' C Date/Time:	<u> </u>	Date/Time:	Date/Time:		Date/Time:	Date/Time:
COO-Feerb	ANALTHICAL LABORATORY				(413)					Con-Test Quote Name/Number:			Con-Test		89 RK	000									RUN EPA Method 537: 89 Ridge Trail Rd-1 EXTRACT B HOLD FDA Method R37: 80 Bidge Trail Bul Enter 1	HOLD As, Fe, Hardness, TOC		Kelinquished by: (signature)	Received by: (signature) 4.4, 5.	となる。	iveringuisticu by. (signature)	ived by: (signature)		iquished by: (signature)	ived by: (signature)
			Company Name:	Address:	Phone:	Project Name:	Project Location:	Project Number:	Project Manager:	Con-Test	Invoice Recipient:	Sampled By:				As in					- 10 A A A A			Comments:	RUN EPA, EXTRACT	HOLD As,	7	Ket III G	Received	12/	is in the contract of the cont	_	age		of 12

Table of Contents

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 Received By Date Time How were the samples In Cooler No Cooler On Ice No ice received? Direct from Sampling Ambient Melted Ice By Gun# Were samples within Actual Temp - 4. Temperature? 2-6°C By Blank # Actual Temp -Was Custody Seal Intact? Were Samples Tampered with? Was COC Relinquished? Does Chain Agree With Samples? Are there broken/leaking/loose caps on any samples? is COC in ink/ Legible? Were samples received within holding time? Did COC include all Client Analysis Sampler Name pertinent Information? **Project** ID's Collection Dates/Times Are Sample labels filled out and legible? Are there Lab to Filters? Who was notified? Are there Rushes? Who was notified? Are there Short Holds? Who was notified? Is there enough Volume? Is there Headspace where applicable? MS/MSD? Proper Media/Containers Used? Is splitting samples required? Were trip blanks received? On COC? Do all samples have the proper pH? Acid Base Unp-1 Liter Amb. 1 Liter Plastic 16 oz Amb. HCL-500 mL Amb. 500 mL Plastic 8oz Amb/Clear Meoh-250 mL Amb. 250 mL Plastic 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 Uno-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

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. <sup>1</sup>

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.

Notice of Environmental Sampling 52 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 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

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

Westfield Councilor Mary Ann Babinski Dr. Marc A. Nascarella, Ph.D/DPH

cc:

Denise Andler, DEP WERO Data Entry: FOLOFF, FOLFLD

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

Telephone: (413) 784-1100

### Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup

#### BWSC123

This Notice is Related to: Release Tracking Number

1 - 20093	

### NOTICE OF ENVIRONMENTAL SAMPLING

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 01085 Zip Code: 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 01085 Zip Code: 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. 2 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: Street Address: 52 Ridge Trail Road City/Town: Westfield 01085 Zip Code: 2. MCP phase of work during which the sampling will be/has been conducted: Immediate Response Action Phase III Feasibility Evaluation Phase IV Remedy Implementation Plan Release Abatement Measure Phase V/Remedy Operation Status Utility-related Abatement Measure Post-Temporary Solution Operation, Maintenance and Monitoring Phase I Initial Site Investigation Phase II Comprehensive Site Assessment ☐ Other (specify) 3. Description of property where sampling will be/has been conducted: ☐ industrial school/playground Other residential commercial 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

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

- 20093

#### NOTICE OF ENVIRONMENTAL SAMPLING

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 <a href="http://www.mass.gov/eea/agencies/massdep/cleanup">http://www.mass.gov/eea/agencies/massdep/cleanup</a>. 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 <a href="http://public.dep.state.ma.us/SearchableSites2/Search.aspx">http://public.dep.state.ma.us/SearchableSites2/Search.aspx</a> to view site-specific files on-line or <a href="http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html">http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html</a> 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.

Revised: 5/30/2014 Page 2 of 2



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

Keny K. Mille

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	·
Case Narrative	. ,
Sample Results	
17K0483-02	;
Sample Preparation Information	
QC Data	
Miscellaneous Organic Analyses	•
B190551	
Flag/Qualifier Summary	
Certifications	
Chain of Custody/Sample Receipt	1



ATC Group Services LLC - West Springfield

73 Williams Franks Drive West Springfield, MA 01089 ATTN: Rob Smith •

PURCHASE ORDER NUMBER:

PROJECT NUMBER:

183EM00170

ANALYTICAL SUMMARY

WORK ORDER NUMBER:

17K.0483

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

AMPLE DESCRIPTION

TEST

SUB LAB

REPORT DATE: 11/22/2017

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.

Lisa A. Worthington Project Manager

ra Wasslengten



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

	•		N	Iiscellaneous Or	ganic Analys	es	•			
			MCL/SMC	L				Date	Date/Time	
Analyte	Results	RL	MA ORSO	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
# 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	I		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	ı		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 (PFTrDA)	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		% Re	covery	Recovery Limit	s	Flag/Qual				
13C-PFH×A		130		70-130					11/19/17 19:47	
13C-PFDA		97.2		70-130					11/19/17 19:47	
d5-NEiFOSAA		73.4		70-130					11/19/17 19:47	



#### 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	



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

#### Miscellaneous Organic Analyses - Quality Control

		Reporting		Spike	Source	-	%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	. RPD	Limit	Notes
Batch B190551 - EPA 537										
Blank (B190551-BLK1)				Prepared: 11	1/09/17 Analy	yzed: 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							
NEIFOSAA	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; 1	1/09/17 Anal	yzed: 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			
NEIFOSAA	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	•		



#### FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
<b>‡</b>	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL .	Reporting Limit
DL	Method Detection Limit
4CL	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
EPA 537 in Drinking Water	
Perfluorobutanesulfonic acid (PFBS)	VT-DW,ME
Perfluorohexanoic acid (PFHxA)	VT-DW,ME
Perfluoroheptanoic acid (PFHpA)	VT-DW,ME
Perfluorohexanesulfonic acid (PFHxS)	VT-DW,ME
Perfluorocctanoic acid (PFOA)	NH,NY,VT-DW,ME
Perfluoroectanesulfonic 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:

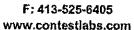
Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Public Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
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

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がま	AKAUTICAL LABORITORY	Phone: 413-525-2337	)	CHAIN OF	CHAIN OF CUSTODY RECORD	CORD			, ,	39 Spruce Street	Street		ć	
		Fax: 413-525-6405			Requested Turnaround Time	d Time			_	ast Long	East Longmeadow, MA 01028	MA 01028	an D	rage1 or1
		Email: info@contestlabs.com	tbs.com	7-Day	10-Day		9	1 2		-	-		1,000	11 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
display in		AIL Group services		Due Date: 5-day TAT	FAT		Ç	z		-			5 2	Container >
Address	***************************************	73 William Franks Drive, West Springfield, MA	springfield, MA	Rush-Approval Reguired	oproval Regu	iired	Д	>		$\vdash$	-		5	Preservation Lode
Phone:		(413) 781-0070		1-Day	3-Day	C			AMAIV	CIC OCC	AMAI VOIC OFFITEER	+	5	- Container Code
Project Name:	Vi	52 Ridge Trail Rd, Westfield		Z-Day	4-Day			<b>D</b> O	]	,			ā	Dissolved Metals Samples
Project Location:		52 Ridge Trail Rd, Westfield		Date	-	20 12 20 20 20 20 20 20 20 20 20 20 20 20 20		1 '9		<del></del>			Q	O Field Filtered
Project Number:		183EM00170		Format: PDF [7]	J	5	ZE9	S3N					O	Lab to Filter
Project Manager;		Rob Smith				)	ao	יצטו			*****			
Con-Test Q	ame/Number:			Ci Pilike Data Dke Benvired	Paginicad.		нт	ΑΗ '					Ö	Orthophosphate Samples
Invoice Recipient:	ípient:			Email To:	wedow en	)	3W /	ьH		·····			Q.	O Field Fittered
Sampled By:		Elizabeth O'Connor		Ext to #:			Ebγ	'\$¥		··-	****		O	O Labra Filter
27.29.20.39	Conclude		は芸術的な	rax 10 #;				ל∀.				*****		
	Work Order#	Gleft Sample ID / Description	n beginning Daterrine	Date Isme Composite	9	Matrix Core		roT						Matrix Codes
	0	Trip blank	11/1/2017	00:11		4	-	-	1		-		5	GW = Ground Water
		50 Diday Took But stated			1	+	<	$\dashv$						Weithirighe Water
		אל עומצב וזמון עם - נוגום סומנוע	11/7/2017	15:01	×	n — Ma	×		-,				*	
芸芸	60	52 Ridge Trail Rd - 1	11/7/2017	15:13	×	D MG	×	×		-	-		y <u>v</u>	S=Sil
		52 Ridge Trail Rd - 2	11/7/2017	3.6.7	,	ì		-	_	-	$\frac{1}{1}$	1	, N	X Solid
10000000000000000000000000000000000000				71.00		+	1	1	1				0	o = Other (please
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						-		+		7				M. Wetharbl
					+	1	_					·	7	N=Nitric Acid
								<del></del>					n f	Sulfuric Acid
										lacksquare			( <b>)</b> (8) (8)	X = Sodium Hydroxide
Comments;					<del> </del>			$\frac{1}{2}$					⊢, f	The Sodian
FXTRACT B	thod 537: Trip Blank	KON EPA Method 537: Trip Blank and 52 Ridge Trail Rd-1 EXTRACT & Wolf D EBA Mothod 273. 53 852-7 300.			***	lease use th	e follow	ing codes	to indic	te postil	vie camule	Please use the following codes to indicate possible sample concentration	664 1750	O = Other follease
HOLD As, Fe	HOLD As, Fe, Hardness, TOC	7. 34 Rioge Frail Ro-neld blank	& 52 Ridge Trail Rd-2	Rd-2		ב ב	wift	nth the C	within the Conc Code column above:	column	above:	במורפווו	300	define)
]						2	E 415	יונבתות).	r · row;	۲- د -	n ingi, m - memuni; r · cow; r - Clean; U - Unknown	Кложл	7	Container Codes:
	d by: (signature)		Detection	Limit Requirements		Special Requirements	ements						T	A = Amber Glass
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of				City	21 J Brownfield	0 0 e	School MBTA	⊽ ≼			☐ AIHA	aita-lap,lec		Non Saxhlet
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39 Spruce St.

East Longmeadow, MA. 01028

P: 413-525-2332





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	f								
Rece	ived By	- PLF		Date	1118	3/17	Time	1010	<b>)</b> .
	the samples	In Cooler		No Cooler		On Ice		No Ice	
rece	eived?	Direct from Samp	oling			Ambient		Melted Ice	
Were san	nples within		By Gun#	1		Actual Ter	np- 14.8	टुः <b>८</b>	
	ure? 2-6°C	F	By Blank #	,,,,,,		Actual Ter	np -		
Wa	s Custody Se	eal Intact?	UA.	We	re Sample	es Tampere		Al	
	s COC Relin		7	Does		gree With Sa		T-	
Are th	nere broken/le	eaking/loose caps	on any sami	ples?	F				•
	nk/ Legible?	T		Were sam	ples rece	ived within t	nolding time?	7	
	include all	Client	丁	Analysis	T		ler Name		
	nformation?	Project	T	ID's	<u>Ť</u>	_ Collection	n Dates/Times	7 2	
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Are there R			<u> </u>			is notified?	····		
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	ugh Volume	-		_					
	•	re applicable?	<u> </u>		MS/MSD?		~		
-	ia/Containers	٠				samples re	quired?	7	
-	anks receive	_	<u> </u>		Jn COC?		<b>.</b>	<i>i.</i> 160	
Do all samp	les have the	proper pri?		Acid		<u> </u>	Base		
Unp-		1 Liter Amb.		1 Liter P				Amb.	
HCL-	<del>- 2-</del>	500 mL Amb.		500 mL (				nb/Clear	<del></del>
Meoh- Bisulfate-		250 mL Amb. Col./Bacteria		250 mL F		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		nb/Clear	
DI-	<del></del>	Other Plastic		Flashp				nb/Clear	
Thiosulfate-		SOC Kit		Other G Plastic		· · · · · · · · · · · · · · · · · · ·	Frozen:	соге	<del></del>
Sulfuric-		Perchlorate		Ziplo			102611.		
				in the state of th	enter in the second				
Jnp-	egile separatura periore du	1 Liter Amb.	2000 M = 4200 3 4 5 4	1 Liter P	lastic		16 oz	Amh	
ICL-		500 mL Amb.		500 mL F			8oz Am		
/leoh-		250 mL Amb.		250 mL P			4oz Am		
sisulfate-		Col./Bacteria		Flashpo			2oz Am		***********
) -		Other Plastic		Other G			Enc		
hiosulfate-		SOC Kit		Plastic			Frozen:		
Sulfuric-		Perchlorate		Ziplod					
omments:							, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		واستحاده والمتحدث وسيد

did not receive contouner for TRIP BLANK.



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

Keny K. Mille

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

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Flag/Qualifier Summary	9
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Chain of Custody/Sample Receipt	1



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:

17K.0489

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 #	LÀB 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.

Lisa A. Worthington Project Manager

na Warrlingt



Project Location: 52 Ridge Trail Rd., Westfield

Sample Description:

.79.4

77.5

Work Order: 17K0489

11/28/17 17:09

11/28/17 17:09

Date Received: 11/8/2017

Field Sample #: 52 Ridge Trail Rd-field blank

Sampled: 11/7/2017 15:01

Sample ID: 17K0489-01

13C-PFDA

d5-NEtFOSAA

			N	Aiscellaneous O	rganic Analys	es	•		-	
MCL/SMCL								Date	Date/Time	
Analyte	Results	RL	MA ORSO	- Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
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
Perfluoreoctanoic 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	i		EPA 537	11/17/17	11/28/17 17:09	BLM
Perfluoroundecanoic acid (PFUnA)	ND	2.0	2	ng/L	ı	•	EPA 537	11/17/17	11/28/17 17:09	BLM
NEtFOSAA	ND	2.0		ng/L	i		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 (PFTrDA)	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		% Re	covery	Recovery Lim	its	Flag/Qual				
I3C-PFHxA		90,4		70-130		-			11/28/17 17:09	•

70-130

70-130



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

	•		N	liscellaneous Or	ganic Analys	ses		-		
Analyte	Results	RL	MCL/SMC		Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analys
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	i		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
Perfluerononanoic 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
NMcFOSAA	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
NEIFOSAA	ND	2.0		ng/L	. <b>I</b>		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 (PFTrDA)	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		% Rec	covery	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	



## 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] 17K0489-02 [52 Ridge Trail Rd-2]	B190938 B190938	250 250	1.00	11/17/17 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
					100011	70000	Distinct	14.0	<u> </u>	110103
Batch B190938 - EPA 537	<u> </u>									
Blank (B190938-BLK1)				Prepared: 11	/17/17 Anal	yzed: 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							
erfluorotetradecanoic 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			
urrogate: d5-NEtFOSAA	139		ng/L	160		86.8	70-130			
.CS (B190938-BS1)				Prepared: 11	/17/17 Analy	/zed: 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			
VEtFOSAA	2,27	2.0	ng/L	2.00		114	50-150			
erfluorododecanoic acid (PFDoA)	1.77	2.0	ng/L	2.00		88.4	50-150		•	
erfluorotridecanoic acid (PFTrDA)	1.69	2.0	ng/L	2,00		84.5	50-150			
erfluorotetradecanoic acid (PFTA)	1.86	2.0	ng/L	2.00		93.1	50-150			,
urrogate: 13C-PFH×A	33.5		ng/L	40.0		83.7	70-130			
Surrogate: 13C-PFDA	30.6		ng/L	40.0		76.5	70-130			
urrogate: d5-NEtFOSAA	125		ng/L	160		78.3	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
<b>ICL</b>	Maximum Contaminant Level
	Descent recoveries and relative percent differences (PPDs) are determined by the software us

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
EPA 537 in Drinking Water	
Perfluorobutanesulfonic acid (PFBS)	VT-DW,ME
Perfluorohexanoic acid (PFHxA)	VT-DW,ME
Perfluoroheptanoic acid (PFHpA)	VT-DW,ME
Perfluoropexanesulfonic 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 Publile 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
VΤ	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

http://www.contestlabs.com

Doc # 381 Rev 1\_03242017

Orthophosphate Samples GW = Ground Water WW = Waste Water DW = Drinking Water <sup>2</sup> Preservation Codes X = Sodium Hydroxid B = Sodium Bisulfate S = Summa Canister Container Codes = Other (please O = Other (please define) Non Soxhlet o = Other (please define) A = Amber Glass PCB ONLY = Tedlar Bag = Sulfuric Acid Soxhlet Dissolved Metals M = Methanol N = Nitric Acid Matrix Codes: <sup>2</sup> Preservation Code O Field Fiftered O Field Fittered O Lab to Fitter O Lab to Filter ST = Sterile S = Soil SL = Sludge SOL = Solid Container Code Page \_\_1\_\_\_ of Thiosulfate W = Water r = Sodium TRIZMA P = Plastic # of Containers G =: Glass HET A MIT Please use the following codes to indicate possible sample concentration con-test Chromatogram www.contestiabs.com AIHA-LAP,LLC 39 Spruce Street East Longmeadow, MA 01028 H - High; M - Medium; L - Low; C - Clean; U - Unknown ANALYSIS REQUESTED within the Conc Code column above: Other WRTA J, > TOTAL AS, Fe, HARDNESS, TOC MCP Certification Form Required CT RCP Required MA MCP Required RCP Certification Form Required MWRA School z а. MA State DW Required MBTA 0 × ۵. EPA METHOD 537 Matrix Conc Code Code  $\Rightarrow$ = ⊃ Requested Turnaround Time CHAIN OF CUSTODY RECORD š ⋛ 줊 Municipality Brownfield # QIS.Md 10-Day Rush-Approval Requ Data Delivery QE S 3-Day 4-Day EXCE CLP Like Data Pkg Required: Composite Due Date: 5-day TAT ᇗ Government Ending Date/Time 15:14 Email To: 10:5! Si 33 Fax To #: Federal Format: 17:00 Other: 1-Day 2-Day E 52 Ridge Trail Rd-2 Š Project Entity 11/7/2017 t) 11/7/2017 Other 11/7/2017 11/7/2017 MA 73 William Franks Drive, West Springfield, MA Email: info@contestlabs.com (10.10) EXTRACT & HOLD EPA Method 537: 52 Ridge Trail Rd-field blank 52 Ridge Trail Rd - field blank ty | g | m 1 8 17 Fax: 413-525-6405 Date/Time: Date/Time: Date/Time: Date/Time: Date//Time: 52 Ridge Trail Rd, Westfield 52 Ridge Trail Rd, Westfield RUN EPA Method 537: Trip Blank and 52 Ridge Trail Rd-1 52 Ridge Trail Rd - 2 52 Ridge Trail Rd - 1 ATC Group Services Elizabeth O'Connor (413) 781-0070 183EM00170 Trip blank Rob Smith 立 Con-Test Quote Name/Number: HOLD As, Fe, Hardness, TOC Relinquished by: (signature) quished by: (signature) by: (signature) CON-LEST 56, ved by: (signature) ved by: (signature) Received by: (signature Confestiv Work Order# Invoice Recipient: Company Name: Project Location: Project Number: Project Manager sampled By: Comments: Phone: 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	F						,	-	
Receiv	ed By	- PLF		Date	11/8	17	Time	1010	)
How were t		In Cooler	<u></u>	No Cooler	, 	On ice		No Ice	
recei	ved?	Direct from Sam	pling			Ambient		_ Melted Ice	
Were sam	oles within		By Gun#			Actual Tem	p- 14.8	2.C	
Temperatu		<u> </u>	By Blank #			Actual Tem	ı <b>p</b> -		
	Custody Se		<u> </u>			s Tampered		<u>LA</u>	
	COC Relin	•			s Chain Agr	ree With Sa	mples?		
Are the	ere broken/le	eaking/loose caps	on any sam		F			• •	
Is COC in in	k/ Legible?		_	Were san	nples receiv	ved within h	olding time?		
Did COC i		Client		Analysis	T		er Name		
pertinent In	formation?	Project		ID's	<u>Ť</u>	Collection	Dates/Times	7;	
Are Sample	labels filled	out and legible?				-			•
Are there La	b to Filters?	•	<u></u>		Who was	notified?	-		
Are there Ru	shes?		<del></del> _		Who was	notified?			
Are there Sh	ort Holds?		E	-	Who was	notified?			
Is there enou	igh Volume	?	一元						
Is there Hea	dspace whe	re applicable?	F		MS/MSD?	M			
Proper Media	a/Container	s Used?	7		ls splitting s	samples rec	uired?	F	
Were trip bla	nks receive	d?	F		On COC?	LA			
Do all sampl	es have the	proper pH?		Acid			Base	<u>M</u>	
Medison									
Unp-		1 Liter Amb.		1 Liter I				Amb.	
HCL-	<u> </u>	500 mL Amb.		500 mL				nb/Clear	
Meoh-		250 mL Amb.		250 mL		324		nb/Clear	
Bisulfate-		Col./Bacteria		Flash		(A4)		nb/Clear	
DI-		Other Plastic		Other (				core	· · · · · · · · · · · · · · · · · · ·
Thiosulfate-		SOC Kit	· <u></u>	Plastic		······································	Frozen:		
Sulfuric-		Perchlorate		Ziplo	ock				
				Units at 1	istis				
						tridic sericulars			V. S.
Unp-		1 Liter Amb.		1 Liter F	Plastic		16 oz	Amb.	
HCL-		500 mL Amb.		500 mL	Plastic		8oz Am	b/Clear	
Meoh-		250 mL Amb.		250 mL	Plastic			b/Clear	
Bisulfate-		Col./Bacteria		Flash			2oz Am	b/Clear	
DI-		Other Plastic	-	Other (			End	core	
Thiosulfate-		SOC Kit		Plastic			Frozen:	•	
Sulfuric-		Perchlorate		Ziplo	ock				
Commente:				,			·	·	

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did not receive a container for Top 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 Suuberg
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. <sup>1</sup>

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.

Printed on Recycled Paper

Notice of Environmental Sampling 31 Schumann Drive Westfield, RTN: 1-20093 Page 2 of 2

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

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

cc:

Denise Andler, DEP WERO Data Entry: FOLOFF, FOLFLD

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

## Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup

### BWSC123

This Notice is Related to: Release Tracking Number

1	-	20093

#### NOTICE OF ENVIRONMENTAL SAMPLING

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 01085 Zip Code: B. This notice is being provided to the following party: 1. Name: James & Rose Oleksak 2. Street Address: 31 Schumann Drive City/Town: Westfield 01085 Zip Code: 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: 2. MCP phase of work during which the sampling will be/has been conducted: Phase III Feasibility Evaluation ✓ Immediate Response Action Release Abatement Measure Phase IV Remedy Implementation Plan Phase V/Remedy Operation Status Utility-related Abatement Measure Phase I Initial Site Investigation Post-Temporary Solution Operation, Maintenance and Monitoring Phase II Comprehensive Site Assessment (specify) 3. Description of property where sampling will be/has been conducted: ✓ residential commercial industrial school/playground (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: MA Department of Environmental Protection Contact Name: Street Address: 436 Dwight Street City/Town: Springfield 01103 Zip Code: Email: david.bachand.jr@state.ma.us Telephone: (413) 784-1100



## Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup

### NOTICE OF ENVIRONMENTAL SAMPLING

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

#### **BWSC123**

This Notice is Related to: Release Tracking Number

1		1		
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20093

## 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 <a href="http://www.mass.gov/eea/agencies/massdep/cleanup">http://www.mass.gov/eea/agencies/massdep/cleanup</a>. 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 <a href="http://public.dep.state.ma.us/SearchableSites2/Search.aspx">http://public.dep.state.ma.us/SearchableSites2/Search.aspx</a> to view site-specific files on-line or <a href="http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html">http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html</a> 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.

Revised: 5/30/2014 Page 2 of 2



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

Keny K. Mille

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

PURCHASE ORDER NUMBER:

REPORT DATE: 11/22/2017

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:

SAMPLE DESCRIPTION

TEST

AA I GE

31 Schumann Dr-I

17K0448-01

Drinking Water

MATRIX

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

Wasslington



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 Date/Time MCL/SMCL ·Date Analyzed Analyst RLMA ORȘG Units Dilution Flag/Qual Method Prepared Results Analyte 11/9/17 11/19/17 17:52 BLM EPA 537 2.0 ng/L Perfluoropentanoic acid (PFPeA) ND 11/19/17 17:52 EPA 537 11/9/17 BLM # Perfluorobutanesulfonic acid (PFBS) 4.8 2.0 2 ng/L 1 11/9/17 11/19/17 17:52 BLM EPA 537 Ī # Perfluorohexanoic acid (PFHxA) 9.2 2.0 2 ng/L 11/9/17 11/19/17 17:52 BLM EPA 537 # 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 2.8 2.0 ng/L EPA 537 11/9/17 11/19/17 17:52 BLM # Perfluorooctanoic acid (PFOA) 7,6 2.0 2 ng/L # Perfluorooctanesulfonic acid (PFOS) 2 ng/L EPA 537 11/9/17 11/19/17 17:52 BLM 2.0 8.0 11/19/17 17:52 BLM EPA 537 11/9/17 Perfluorononanoic acid (PFNA) 2 ng/L ND 2.0 11/19/17 17:52 BLM EPA 537 11/9/17 Perfluorodecanoic acid (PFDA) 2,0 2 ng/L ND 11/19/17 17:52 BLM EPA 537 11/9/17 NMeFOSAA ND 2,0 ng/L 11/19/17 17:52 BLM 11/9/17 EPA 537 Perfluoroundecanoic acid (PFUnA) ND 2,0 2 ng/L EPA 537 11/9/17 11/19/17 17:52 BLM NEGOSAA ND 2.0 ng/L 11/9/17 11/19/17 17:52 BLM EPA 537 Perfluorododecanoic acid (PFDoA) ND 2.0 2 ng/L 11/9/17 11/19/17 17:52 BLM ng/L 1 EPA 537 Perfluorotridecanoic acid (PFTrDA) ND 2.0 2 EPA 537 11/9/17 11/19/17 17:52 BLM Perfluorotetradecanoic acid (PFTA) 1 ND 2,0 2 ng/L

Surrogates	1	% 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
ds_NETEOS A A		73.6	70-130			11/19/17 17:52



#### 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	I1/09/17	



## 39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-8405 \* TEL, 413/525-2332 QUALITY CONTROL

#### Miscellaneous Organic Analyses - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B190547 - EPA 537	,									
Blank (B190547-BLK1)				Prepared: 11	/09/17 Analy	/zed: 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)	ИD	2.0	ng/L				•			
Perfluorohexanesulfonic acid (PFHxS)	ИD	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					•		
NEIFOSAA	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-BS1)				Prepared: 11	/09/17 Analy	zed: 11/17/1	17			
Perfluorobutanesulfonic acid (PFBS)	1.99	2.0	ng/L	1,77		112	50-150			
erfluorohexanoic 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			
NMcFOSAA	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			
furrogate: 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			



#### FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
<b>‡</b>	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
EPA 537 in Drinking Water	
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
Perfluorocctanoic acid (PFOA)	NH,NY,VT-DW,ME
Perfluorocctanesulfonic 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
NEIFOSAA	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
Alha	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	EL015036	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

		_			
Tab	le.	Ωf	Coi	nter	٦t

Orthophosphake Samples 2 Preservation Codes: Sodium Hydroxide GW = Ground Water WW = Waste Water DW ≈ Drinking Water B = Sodium Bisulfate - Summa Canister O=Other (please define) <sup>3</sup> Container Codes: Page \_\_1\_\_\_ of \_\_\_1\_\_ Dissolved Metals So O=Other (please 0 = Other (please Non Soxhlet O :: Field Filtered ::: r≅ ∓edlar Bag Matrix Codes: A=Amber Glass Soxhiet Surfuric Acid PCB ONLY <sup>2</sup> Preservation Code O Field Filtered O Lab to Fitter Fatheric Acid O Lab to Fitter P = Plastic ST = Sterile A = Methanol Container Code SL = Sludge = Sodium hiosulfate # of Containers SOL= Solid S IELVIE G = Class W pool # Jerine) . Soil A = Air Please use the following codes to indicate possible sample concentration CON-test Chromatogram AIHA-LAP, LLC East Longmeadow, MA 01028 H - High; M - Medium; L - Low; C - Clean; U - Unknown ANALYSIS REQUESTED 39 Spruce Street within the Conc Code column above: Other Doc # 381 Rev 1\_03242017 WRIA J. × TOTAL As, Fe, HARDNESS, TOC MCP Certification Form Required CT RCP Required MA MCP Required RCP Certification Form Required z Δ. MWRA School MBTA MA State DW Required Special Requirements 0 Ω. × × × EPA METHOD 537 ټ \_\_\_ Though the Chain of Custody record Mathix Code  $\Box$ Rush-Approval Required ⋛ ⋛ ⋛ Municipality Brownfield # OIS/Md 10-Day Data Delivery EXCEL 3-Day 4-Day Composite Grab CLP Like Data Pkg Required: × × × Due Date: 5-day TAT Detection Limit Requirements 四点 Government Date/Infe 2,78 9:27 Email To: Fax To# Format: Ending 11/7/2017 | 9:46 Federal Other: '-Day 1-Day 2-Day Ċ Ċ EXTRACT & HOLD EPA Method 537; 31 Schumann Dr-field blank 🖭 31 Schumann Dr-2 Project Entity 11/7/2017 11/7/2017 Date/Time Other: E MA 73 William Franks Drive, West Springfield, MA Email: info@contestlabs.com පි බ Phone: 413-525-2332 Fax: 413-525-6405 11|Sill 31 Schumann Dr - field blank Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: 31 Schumann Dr, Westfield 31 Schumann Dr, Westfield 11811 ATC Group Services 31 Schumann Dr - 1 31 Schumann Dr - 2 Elizabeth O'Connor (413) 781-0070 183EM00170 かりてて Rob Smith RUN EPA Method 537: 31 Schurnann Dr-1 Con-Test Quote Name/Number: Relinquished by: (signature) 10LD As, Fe, Hardness, TOC CON-LEST quished by: (signature) Relinquished by: (signature) Regeived by: (signature) ved by: (signature) SCon-Test Way ved by: (signature) Work Order# nvoice Recipient: Сотрапу Name: Project Location: Project Manager: Project Number: Sampled By: omments: Address: Phone: Page 10 of 11

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 .	-	•			,	•	
Recei	ived By	- PLF		Date	11/5	3117	Time	2	<del>(</del>
How were	the samples	In Cooler	<del>-</del> T	No Cooler		On Ice		No Ice	
rece	elved?	Direct from Sam	olina	• • • • • • • • • • • • • • • • • • • •	* <del>***********************************</del>	Ambient		Melted Ice	
\Mona ===		*	By Gun #	1		Actual Ter	<del></del>	INTERESTREE	
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	s COC Relin		<u>~~</u>			es Tampere gree With S		<del></del>	
		eaking/loose caps	on any sam	ples?	LIII AG	i ce aaimi o	ampies r		
	nk/ Legible?			-	ples rece	- ived within I	nolding time?		
	include all	Client		Analysis	T		ler Name		
	nformation?	Project		ID's	T		n Dates/Times ¯		
		out and legible?			-		_		
	ab to Filters?		<u> </u>		Who wa	s notified?			
Are there R			E			s notified?			
Are there SI			<u> </u>		Who was	s notified?		,	
	ugh Volume			_		0			
	iospace wne. la/Containers	re applicable?	<u> </u>		IS/MSD?		<del>.</del>		
	anks receive		<u> </u>			samples re	quired?		
	les have the		+-	Acid -	on COC?	<u> </u>			
		· · · · · · · · · · · · · · · · · · ·		ACIO			Base _		
Jnp-		1 Liter Amb.		1 Liter D	aatia.				
ICL-	2	500 mL Amb.		1 Liter PI 500 mL P			16 oz A		
leoh-		250 mL Amb.		250 mL P		2	6oz Amb 4oz Amb		
lisulfate-		Col./Bacteria		Flashpo		<del></del>	2oz Amb		
) -		Other Plastic		Other G			Enco		
hiosulfate-		SOC Kit		Plastic I	17.00		Frozen:	A	· · · · · · · · · · · · · · · · · · ·
ulfuric-		Perchlorate	ionebate tracera a servic	Ziploc	k				<u> </u>
				Umisea Me	dia:				
							ederate en la company		
np- CL-	<u> </u>	1 Liter Amb. 500 mL Amb.		1 Liter Pla			16 oz A		
leoh-		250 mL Amb.		500 mL Pl			8oz Amb/		
sulfate-		Col./Bacteria		250 mL Pl Flashpo			4oz Amb/		
1-		Other Plastic		Other Gi			2oz Amb/ Encor		
hiosulfate-		SOC Kit		Plastic B			Frozen:	<u> </u>	
ulfuric-		Perchlorate		Ziploci					
omments:									
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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: 31 Schumann Dr., Westfield

Client Job Number:

Project Number: 183EM00170

Laboratory Work Order Number: 17K0463

Keny K. Mille

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

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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:

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

na Wasslengten



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								·		
			M	liscellaneous O1	ganic Analyse	es			•	
· .			MCL/SMC	L				Date	Date/Time	
Analyte	Results	RL	MA ORSG	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
Perfluorobutanesulfonic acid (PFBS)	ND	. 2.0	2	ng/L	1		EPA 537	11/9/17	11/28/17 19:03	BLM
Perfluorobexanoic 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	I		EPA 537	11/9/17	.11/28/17 19:03	BLM
Perfluorohexanesulfonic acid (PFHxS)	ND	2,0	2	ng/L	i		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	I		EPA 537	11/9/17	11/28/17 19:03	BLM
Perfluoroundecanoic acid (PFUnA)	ND	2.0	2	ng/L	ι.		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 (PFTrDA)	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		% Re	covery	Recovery Limi	ts	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	



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

Miscellancous Organic Analyses											
Analyte	Results	RL	MCL/SMC		Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst	
# 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	i		EPA 537	11/9/17	11/19/17 20:38	BLM	
Perfluorononanoio acid (PFNA)	ND	2.0	2	ng/L	i		EPA 537	11/9/17	11/19/17 20:38	BLM	
Perfluorodecanoic acid (PFDA)	ND	2.0	2	ng/L	I		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 (PFTrDA)	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		% Rec	overy	Recovery Limits		Flag/Qual					
13C-PFHxA		57.8	*	70-130		S-08			11/19/17 20:38		
13C-PFDA		67.0	*	70-130		S-08			11/19/17 20:38		
d5-NEtFOSAA		73.2		70-130					11/19/17 20:38		



### 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	



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

#### Miscellaneous Organic Analyses - Quality Control

And in	<b>.</b>	Reporting	**	Spike	Source	0/75	%REC	nnn.	RPD	37.
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
tatch B190551 - EPA 537										
Blank (B190551-BLK1)				Prepared: 11	/09/17 Analy	yzed: 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	<i>36.</i> 8		ng/L	40.0		92.0	70-130			
Surrogate: d5-NEtFOSAA	143		ng/L	160		89.1	70-130			
.CS (B190551-BS1)				Prepared: 11	/09/17 Analy	/zed: 11/19/1	7			
Perfluorobutanesulfonic acid (PFBS)	10.2	2,0	ng/L	8,85		115 .	70-130			
Perfluorofiexanōic 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			
erfluorohexanesulfonic 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	0.01		101	70-130			
Perfluorodecanoic acid (PFDA)	11.3	2.0	ng/L	10.0		113	70-130			-
MeFOSAA	10,6	2.0	ng/L	0.01		106	70-130			
Perfluoroundecanoic acid (PFUnA)	10.6	2.0	ng/L	10,0	•	106	70-130			
NEIFOSAA	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			



### FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
Ť	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.
5-08	Duplicate analysis confirmed surrogate failure due to matrix effects.



### CERTIFICATIONS

# Certified Analyses included in this Report

Analyte	Certifications
EPA 537 in Drinking Water	
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
СТ	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
vr ·	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

		באלו	CI KCP Keginred			では、人工のは国際国家の政治を持ちます。
Jate/1ime:	5	RCP Certification Form Required	m Required		ANALYTICAL LABORATORY	To the first of the second of
	44				www.contactions.com	
)ate/Time:		MA State DW Required	Required		•	Tal
	Other:	# GISMd				
Date/Time:	Project Entity				Other	of AINO and
	□ Government □	Municipality		□ WRTA	Thromatogram	C
Jate/Time:	□ Federal □		School		☐ AJHA-LAP.LEC	Non Sowhlat
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Orthophosphale Samples GW = Ground Water WW = Waste Water DW = Drinking Water A = Air S = Soil 2 <u>Preservation Codes:</u> 1 = Iced X = Sodium Tydroxide \*Container Codes
A=Amber Glass
G = Glass
P = Ptástic
ST = Sterile B = Sodium Blsulfate SOL = solid O = Other (please Matrix Codes O = Other (please O. Field Filtered N=Nitric Acid S=Softanc Acid Dissolved Metals Preservation Code O Field Filtered O Lab to Filter O Lab to Filter H = HCL M = Wethanol Page\_\_1\_\_of\_ <sup>3</sup> Container Code SL = Sludge Thiosurfate # of Containers TESOGRAP TRIZKA define) define) Please use the following codes to indicate possible sample concentration 39 Spruce Street East Longmeadow, MA 01028 H - High; M - Medium; L - Low; C - Clean; U - Unknown ANALYSIS REQUESTED within the Conc Code column above: Doc # 381 Rev 1\_03242017 I TOTAL As, Fe, HARDNESS, TOC × MCP Certification Form Required MA MCP Required z ۵. Special Requirements O × × × **EPA METHOD 537** 5  $\neg$  $\supset$ http://www.contestlabs.com CHAIN OF CUSTODY RECORD  $\Box$ 줊 ձ ₹ Rush-Approval Regi Data Delivery 3-Day 4-Day CLP Like Data Pkg Required: EXC FI × × × Due Date: 5-day TAT 집 19:25 Email To: 9,27 94.46 Fax To # Format: Other: 7-Day 1-Day 2-Day EXTRACT & HOLD EPA Method 537: 31 Schumann Dr-field blank & 31 Schumann Dr-2 11/7/2017 11/7/2017 11/7/2017 MA 73 William Franks Drive, West Springfield, MA Email: info@contestlabs.com 8 ú Phone: 413-525-2337 31 Schumann Dr - field blank Fax: 413-525-6405 C118111 Date/Time: 1118117 Date/Time: 31 Schumann Dr, Westfield 31 Schumann Dr, Westfield ATC Group Services 31 Schumann Dr - 1 31 Schumann Dr - 2 Elizabeth O'Connor (413) 781-0070 183EM00170 アルグアデ Rob Smith RUN EPA Method 537: 31 Schumann Dr-1 Con-Test Quote Name/Number: CORTILO HOLD As, Fe, Hardness, TOC Relinquished by: (signature) iquíshed by: (signature) (elinquished by: (signature) CON-LEST Con-Test Regeived by: (signature) ved by; (signature) ived by: (signature) (1) Work Order Invoice Recipient: Company Name: Project Location: Project Number: Project Manager: sampled By: Comments: Address: Phone: 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	AT	$\overline{C}$						
Recei	ved By	PIF		Date	11811	Time	(Y)B_	)
	the samples	In Cooler		No Cooler_	On Ice	7	No Ice	
rece	ived?	Direct from Sam	pling		Ambient		Melted Ice	
Were sam	ples within		By Gun #	1	Actual Ter		二六ロー	
	re? 2-6°C	-	By Blank #				, <u> </u>	-
4.0	s Custody S	eal Intact?	_ by blank #	<del></del>	Actual Ter Samples Tampere			_
	s COC Relir			•	Chain Agree With S		<u> </u>	-
		eaking/loose cap	s on any sam	nles?	Tidin Agree With St	ampies		_
Is COC in ir			o on any oan		les received within l	haldina tima?	· · · · · · · · · · · · · · · · · · ·	
Did COC		Client		Analysis -		iloiding time <i>i</i> iler Name	1.	<del>-</del>
pertinent In		Project	7	ID's		ner warne n Dates/Time	.e	_
		dout and legible?	<del></del>		Conconor	1 Dates/11116		-
Are there La			T	٠ ,	Who was notified?			
Are there Ru			====		Who was notified?	, , , , , , , , , , , , , , , , , , , ,		-
Are there Sh	ort Holds?				Who was notified?			•
is there eno		?	<del>-1</del>	. '	A HO MAS HOUNEU!	<u> </u>		
	_	re applicable?	IA	KA9	FLA ?DRMSD?			
Proper Medi			7		splitting samples re	m guirod?	<del>I.</del> .	
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Do all sampl				Acid	ι <u>Α</u>	- Base	LΑ	
VE ISTANCE		ome					<u> </u>	tana kanta matanan
<b>U</b> пр-		1 Liter Amb.		1 Liter Pla	stic	16.0	z Amb,	
HCL-		500 mL Amb.		500 mL Pla			nb/Clear	
Meoh-		250 mL Amb.		250 mL Pla	***	<del></del>	nb/Clear	
3isulfate-		Col./Bacteria		Flashpoi			nb/Clear	
OI-		Other Plastic		Other Gla		Z-1-1-4	core	
Thiosulfate-		SOC Kit		Plastic B	ag	Frozen:	<u></u>	
Sulfuric-		Perchlorate		Ziplock		]		1
				Unused Ne				
Jnp-		1 Liter Amb.		1 Liter Pla	stic	16 02	Amb.	
ICL-		500 mL Amb.		500 mL Pla			nb/Clear	
/leoh-		250 mL Amb.		250 mL Pla		***********	nb/Clear	
Bisulfate-		Col./Bacteria		Flashpoir			nb/Clear	
) -		Other Plastic		Other Gla	SS		core	
hiosulfate-		SOC Kit		Plastic Ba	ıg	Frozen:	·····	
ulfuric-		Perchlorate		Ziplock				
comments:								
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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 11<sup>th</sup> 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

V. Tor

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

1	-	20093

# NOTICE OF ENVIRONMENTAL SAMPLING

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 follow	ing party:
1. Name: Couture Partners LLC	•
2. Street Address: 504 11th Street	
	Zip Code: 90254
C. This notice is being given to inform its red	cipient (the party listed in Section B):
1. That environmental sampling will be/h	as been conducted at property owned by the recipient of this notice.
2. Of the results of environmental sample	ing conducted at property owned by the recipient of this notice.
<u>—</u>	ults are attached. (If item 2. above is checked, the analytical results from
	nmental 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	
✓ immediate Response Action Release Abatement Measure	☐ Phase III Feasibility Evaluation ☐ Phase IV Remedy Implementation Plan
Utility-related Abatement Measure	Phase V/Remedy Operation Status
Phase I Initial Site Investigation	Post-Temporary Solution Operation, Maintenance and Monitoring
☐ Phase II Comprehensive Site Assessment	Other(specify)
3. Description of property where sampling will b	e/has been conducted:
☑residential ☐commercial ☐	industrialschool/playgroundOther(specify)
4 Description of the sampling locations and typ	es (e.g., soil, groundwater, indoor air, soil gas) to the extent known at the
time of this notice.	
Influent, mid-fluent, and effuent water sa	mples were collected from the POETS installed at the
analyzed for PFAS via EPA Method 537	he system is operating properly. The samples were .1.1.
undiged for his five the Li femotion of	
E. Contact information related to the party pro	
Contact Name: MA Department of Environmen	tal Protection
Street Address: 436 Dwight Street	Zin Code: 01103
City/Town: Springfield Telephone: (413) 784-1100	Zip Code: 01103 Email: david.bachand.jr@state.ma.us
Leichtinge Transport	leaf 1 1 College



# Massachusetts Department of Environmental Protection Bureau of Waste Site Cleanup

## **BWSC123**

This Notice is Related to: Release Tracking Number

1		
١,	- 1	

20093

#### NOTICE OF ENVIRONMENTAL SAMPLING

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 <a href="http://www.mass.gov/eea/agencies/massdep/cleanup">http://www.mass.gov/eea/agencies/massdep/cleanup</a>. 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 <a href="http://public.dep.state.ma.us/SearchableSites2/Search.aspx">http://public.dep.state.ma.us/SearchableSites2/Search.aspx</a> to view site-specific files on-line or <a href="http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html">http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html</a> 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.

Revised: 5/30/2014 Page 2 of 2



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

Keny K. Mille

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

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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

LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
17K0482-02	Drinking Water		EPA 537	
17K0482-03	Drinking Water		EPA 200.8	
	<b>3</b> .		EPA 537	
17K0482-04	Drinking Water		EPA 200.8	
1,114.107.71		•	EPA 537	·
17K0482-05	Drinking Water		EPA 200.8	
1,110,102,00	2		EPA 537	
		17K0482-02 Drinking Water 17K0482-03 Drinking Water 17K0482-04 Drinking Water	17K0482-02 Drinking Water 17K0482-03 Drinking Water 17K0482-04 Drinking Water	17K0482-02 Drinking Water EPA 537 17K0482-03 Drinking Water EPA 537 17K0482-04 Drinking Water EPA 200.8 17K0482-04 Drinking Water EPA 537 17K0482-05 Drinking Water EPA 200.8



#### 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



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

			. M	iscellaneous Orş	gànic Analys	es				
			MCL/SMCI	,				Date	Date/Time	
Analyte	Results	RL	MA ORSG	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
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
Perfluoreoctanoic 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
NMcFOSAA	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
Perfluorododecanoie 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		% Re	covery	Recovery Limits	\$	Flag/Qual				
13C-PFHxA		129		70-130					11/17/17 20:21	
I3C-PFDA		129		70-130			•		11/17/17 20:21	
d5-NEiFOSAA		77.1		70-130		•			11/17/17 20:21	



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

			M	liscellaneous Or	ganic Analys	es				
Analyte	Results	RL	MCL/SMC MA ORSG		Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
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
Perfiuoroheptanoic 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
NMcFOSAA	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
NEIFOSAA	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 (PFTrDA)	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	· <b>i</b>		EPA 537	11/9/17	11/17/17 20:34	BLM
Surrogates		% Rec	overy 1	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	



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)
--------	----------	---------

			MCL/SMCL					Date	Date/Time	
Analyte	Results	$\mathbf{RL}$	MA ORSG	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
Arsenic	ND	1.0	10	μg/L	1		EPA 200.8	11/14/17	11/14/17 17:28	MJH



Project Location: 285 Lower Sandy Hill Rd., Westfi

Sample Description:

99.7

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

d5-NEtFOSAA

			1	Miscellaneous Org	ganic Analys	es				
			MCL/SMC	CL				Date	Date/Time	
Analyte	Results	RL	MAORS	G Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
Perfluoropentanoic acid (PFPcA)	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 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
Perfluorohexanesuifonic 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 (PFTrDA)	ŅD	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	i		EPA 537	11/9/17	11/19/17 18:43	BLM
Surrogates		% Re	covery	Recovery Limits	i	Flag/Qual				
13C-PFHxA		94.2		70-130					11/19/17 18:43	
13C-PFDA		82.5		70-130					11/19/17 18:43	

70-130

11/19/17 18:43



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

Samule Matrix: Drinking Water

					Metals Ana	lyses (Total)					
				MCL/SMCL				•	Date	Date/Time	
Analy	yte	Results	RL	MA ORSG	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
Arsenic		ND	1.0	10	μg/L	ı		EPA 200.8	11/14/17	11/14/17 17:31	MJH



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

•			r	Miscellaneous Or	ganic Analys	es				
Analyte	Results	RL	MCL/SMC		Dilution	Flag/Qual	Method	Date	Date/Time	A su a busa
Perfluoropentanoie acid (PFPeA)	ND	2.0	DAR OXID	ng/L	1	гид/Qпи	EPA 537	Prepared	Analyzed	Analys
# Perfluorobutanesulfonic acid (PFBS)				<del>"</del>	1	•		11/9/17	11/19/17 19:34	BLM
	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
# Perfluoroheptanoie 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
NMcFOSAA	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
NEIFOSAA	ND	2.0		ng/L	1		EPA 537	11/9/17	11/19/17 19:34	BLM
Perfluorededecanoic 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		% Rec	overy	Recovery Limit	s ,	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	



Project Location: 285 Lower Sandy Hill Rd., Westfi

Analyte

Sample Description:

RL

0.1

Results

ND

Work Order: 17K0482

Date Received: 11/8/2017
Field Sample #: 285 INF-2

Sampled: 11/8/2017 13:43

Sample ID: 17K0482-05

Arsenic

Sample Matrix: Drinking Water

	Metals Ana	lyses (Total)					
MCL/SMCL		•			Date	Date/Time	
MA ORSG	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
10	μg/L	1		EPA 200.8	11/14/17	11/14/17 17:35	MJH



#### 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	
17K.0482-05RE1 [285 INF-2]	B190547	250	1.00	11/09/17	



#### QUALITY CONTROL

#### Miscellaneous Organic Analyses - Quality Control

Analyte	Resuit	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
3atch B190547 - EPA 537										
Blank (B190547-BLK1)				Prepared: 11	/09/17 Analy	yzed: 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							
urrogate: 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			
urrogate: d5-NEtFOSAA	150		ng/L	160		93.7	70-130			
CS (B190547-BS1)				Prepared: 1	1/09/17 Anal	yzed: 11/17/	17			
erfluorobutanesulfonic acid (PFBS)	1.99	2.0	ng/L	1.77		112	50-150			
erfluorohexanoic acid (PFHxA)	2.63	2.0	ng/L	2.00		132	50-150			
erfluoroheptanoic 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		•	
erfluorodecanoic 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			
NEIFOSAA	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-NEtFÓSAA	112		ng/L	160		70.2	70-130			



#### 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			



### 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

Certifications

Certified Analyses included in this Report

Perfluorotetradecanoic acid (PFTA)

Analyte EPA 200.8 in Drinking Water Arsenic CT,MA,NH,NY,RI,NC,ME,VA EPA 537 in Drinking Water NH,VT-DW Perfluoropentanoic acid (PFPeA) Perfluorobutanesulfonie 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 VT-DW,ME Perfluorononanoic acid (PFNA) Perfluorodecanoic acid (PFDA) VT-DW,ME NMeFOSAA VT-DW VT-DW,ME Perfluoroundecanoic acid (PFUnA) NEtFOSAA VT-DW Perfluorododecanoic acid (PFDoA) VT-DW,ME VT-DW,ME Perfluorotridecanoic acid (PFTrDA)

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
СТ	Connecticut Department of Public Health	PH-0567	09/30/2019
NΥ	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

VT-DW,ME

Non Soxhlet

Soxfilet

Chromatogram

WRTA

MWRA School MBTA

Municipality

Government

Federal

Date/Time:

eived by: (signature)

G

Brownfield

AIHA-LAP,LLC

Orthophosphate Samples GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge < = Sodium Hydroxide</p> 2 Preservation Codes S = Sulfuric Acid B = Sodium Bisulfate S = Summa Canister 3 Container Codes: Page \_\_1\_\_ of \_\_\_1\_ A = Amber Glass G = Glass P = Plastic O = Other (please o = Other (please O = Other (please PCB ONLY Dissolved Metals S = Tedlar Bag Matrix Codes: <sup>2</sup> Preservation Code O Field Filtered O Field Filtered N = Nitric Acid ≥1ced angle H = HCL M = Methanol O Lab to Filter O Lab to Filter ST = Sterile = Sodium define) TRIZMA <sup>3</sup> Container Code **Thiosulfate** Pilos = Tos V =:Vial # of Containers define define) Please use the following codes to indicate possible sample concentration analytical Laboratory www.contestists.com 39 Spruce Street East Longmeadow, MA 01028 H - High; M - Medium; L - Low; C - Clean; U - Unknown ANALYSIS REQUESTED within the Conc Code column above: Other MCP Certification Form Required MA MCP Required CT RCP Required RCP Certification Form Required z 2A JATOT × × × MA State DW Required Special Requirements ∞ o × × × EPA METHOD 537 Code ⊃  $\supset$  $\Rightarrow$ ⊃ ⇒ Email To:rob.smith@atcassociates.com Marrix O ⋛ M Ѯ Š ž PWSID # 10-Day Grab 3-Day 4-Day EXCEL CLP Like Data Pkg Required: × Composite Due Date: 5-day TAT PPF [] [3:43] 3:40 13:42 13:4 Fax To # Format: Other: -Day 7-Day 2-Day Project Entity 11(8)11 fileli 11811 II. Other: 11811 MA 73 William Franks Drive, West Springfield, MA 21/8/17 / (p. 10) Date/Time: Email: info@contestlabs.com 11/8/17 (6:10 285 Lower Sandy Hill Rd, Westfield 285 Lower Sandy Hill Rd, Westfield Fax: 413-525-6405 Date/Time: Date/Time: Client Sample ID ATC Group Services Elizabeth O'Connor (413) 781-0070 183EM00170 Rob Smith Trip blank 285 MID-2 285 EFF-2 285 INF-2 ú J 285 FB Con-Test Quote Name/Number nquished by: (signature) by: (signature) eived by: (signature) DO 9 Service Cont Testing Work Order# Ō invoice Recipient; Project Location: Project Manager: Project Number: Project Name: Sampled By: Comments: Address: hone: Page 17 of 18

Doc # 381 Rev 1\_03242017

http://www.contestlabs.com CHAIN OF CUSTODY RECORD 39 Spruce St.

East Longmeadow, MA. 01028

P: 413-525-2332 F: 413-525-6405



www.contestlabs.com

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	AIC							
Received By	- BUF		Date	118		Time	<u> </u>	)
How were the samples	In Cooler		No Cooler		On Ice		No lice	
received?	Direct from Sam	pling	T		Ambient		Melted Ice	
Were samples within		By Gun#	1		Actual Tem	19-14:8	<u> </u>	,
Temperature? 2-6°C	F	By Blank #			Actual Tem	ID -		
Was Custody S	eal Intact?	1.			s Tampered		A	•
Was COC Reli		1	•	•	ee With Sa		FF	. '
Are there broken/		s on anv sam		I.	11111			•
Is COC in ink/ Legible?	- ,	, , , , , , , , , , , , , , , , , , , ,	•	ples receiv	ved within h	olding time?	7	
Did COC include all	Client	<del>-</del> -	Analysis	T		er Name	T	
pertinent Information?	Project	7	ID's "	T T		Dates/Times	3 7	
Are Sample labels fille	•						P	
Are there Lab to Filters	-	=	•	Who was	notified?			
Are there Rushes?		F	•		notified?			
Are there Short Holds?		<del></del>			notified?		***************************************	
Is there enough Volume	<del>)</del> ?	T		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
ls there Headspace who		LA		MS/MSD?	M			
Proper Media/Containe	• •	T		_	samples req	uired?	<u> </u>	٠
Were trip blanks receive		647T		On COC?		,		
Do all samples have the			Acid	Τ.		Base	M	
Vale :	(Bould news	1	_		4			
Unp-	1 Liter Amb.		1 Liter F	Plastic		16 oz	z Amb.	
HCL-	500 mL Amb.		500 mL l	Plastic			nb/Clear	
Meoh-	250 mL Amb.		250 mL l	Plastic	10		nb/Clear	
Bisulfate-	Col./Bacteria		Flash	oint		2oz An	nb/Clear	
DI-	Other Plastic		Other C	Blass			core	
Thiosulfate-	SOC Kit		Plastic	Bag		Frozen:		
Sulfuric-	Perchlorate		Ziplo	ck			·	
			Unused M	edia				
Vale som som	Go, daire s	#			()			
Unp-	1 Liter Amb.		1 Liter P	lastic		16 oz	Amb.	
HCL-	500 mL Amb.		500 mL f	Plastic		8oz Am	nb/Clear	
Vieoh-	250 mL Amb.		250 mL F			4oz An	nb/Clear	
3isulfate-	Col./Bacteria		Flashp			2oz An	nb/Clear	-
0)-	Other Plastic		Other G			End	core	
Thiosulfate-	SOC Kit		Plastic			Frozen:		
Sulfurio-	Perchlorate		Ziplo	ck	<u>.</u>			
Comments:	**************************************					· · · · · · · · · · · · · · · · · · ·		
aid not v	CCCU P	conta	mer	- Ec-	TRIPT	3\c,n!	K	
			_, _		,,_,,			
								•
		+						



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 ( $\mu$ 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

V. Tor

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

-	200

# NOTICE OF ENVIRONMENTAL SAMPLING

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

Α,	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.)	
		_
	Location of the property where the environmental sampling will be/has been conducted:  Street Address: 289 Lower Sandy Hill Road	
1.		
	City/Town: Westfield Zip Code: 01085	
2.	MCP phase of work during which the sampling will be/has been conducted:	
	<ul> <li>☑ Immediate Response Action</li> <li>☐ Release Abatement Measure</li> <li>☐ Phase III Feasibility Evaluation</li> <li>☐ Phase IV Remedy Implementation Plan</li> </ul>	
	Utility-related Abatement Measure Phase V/Remedy Operation Status	
	Phase I Initial Site Investigation  Phase II Comprehensive Site Assessment  Other	
	Phase II Comprehensive Site Assessment Other (specify)	
3.	Description of property where sampling will be/has been conducted:	
	✓ residential         ☐ commercial         ☐ industrial         ☐ school/playground         ☐ Other	-
	(specify)  Description of the sampling locations and types (e.g., soil, groundwater, indoor air, soil gas) to the extent known at the	
	ne of this notice.	
In	fluent, mid-fluent, and effuent water samples were collected from the POETS installed at the	
ab	pove-referenced residence to confirm the system is operating properly. The samples were	
ar	nalyzed for PFAS via EPA Method 537.1.1.	
<b>E.</b> (	Contact information related to the party providing this notice:	
	ontact Name: MA Department of Environmental Protection	
	reet Address: 436 Dwight Street	
Ċit	ty/Town: Springfield Zip Code: 01103	
Te	elephone: (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

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- 1				

20093

#### NOTICE OF ENVIRONMENTAL SAMPLING

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 <a href="http://www.mass.gov/eea/agencies/massdep/cleanup">http://www.mass.gov/eea/agencies/massdep/cleanup</a>. 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 <a href="http://public.dep.state.ma.us/SearchableSites2/Search.aspx">http://public.dep.state.ma.us/SearchableSites2/Search.aspx</a> to view site-specific files on-line or <a href="http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html">http://mass.gov/eea/agencies/massdep/about/contacts/conduct-a-file-review.html</a> 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.

Revised: 5/30/2014 Page 2 of 2



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

Berry K. Mille

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

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

PURCHASE ORDER NUMBER:

REPORT DATE: 11/22/2017

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	
207 221 2	-,			EPA 537	
289 MID-2	17K0479-04	Drinking Water		EPA 200.8	,
EUS MAIS-E	••••	0		EPA 537	·
289 INF-2	17K0479-05	Drinking Water		EPA 200.8	
209 1141-2	1/1201/3 0#			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.

ነ Lisa A. Worthington

Project Manager



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

			M	liscellaneous Org	anic Analys	es				
			MCL/SMC	L				Date	Date/Time	
Analyte	Results	RL	MA ORSG	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analys
Perfluoropentanoic acid (PFPeA)	ND	2.0		ng/L	1		EPA 537	11/9/17	11/19/17 18:31	BLM
erfluorobutanesulfonic acid (PFBS)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 18:31	BLM
erfluorohexanoic acid (PFHxA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 18:31	BLM
erfluoroheptanoic acid (PFHpA)	ND	2.0	2	ng/L	1		EPA.537	11/9/17	11/19/17 18:31	BLM
erfluorohexanesulfonic 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
erfluorononanoic 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
IMeFOSAA	ND	2.0		ng/L	í		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
NEIFOSAA	ND	2.0		ng/L	1		EPA 537	11/9/17	11/19/17 18:31	BLM
erfluorododecanoic acid (PFDoA)	ND	2.0	2	ng/L	1		EPA 537	11/9/17	11/19/17 18:31	BLM
erfluorotridecanoic 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		% Re	covery	Recovery Limits		Flag/Qual				
3C-PFHxA		102		70-130					11/19/17 18:31	
3C-PFDA		81,3		70-130					11/19/17 18:31	
d5-NEtFOSAA		93.2		70-130					11/19/17 18:31	



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	RL	MCL/SMC		Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst	
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	ı		EPA 537	11/9/17	11/17/17 19:43	BLM	
Perfluoroheptanoic acid (PFHpA)	ND	2.0	2	ng/L	i		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	i		EPA 537	11/9/17	11/17/17 19:43	BLM	
Perfluorotridecanoic acid (PFTrDA)	ND	2.0	2	ng/L	i		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		% Rec	очегу	Recovery Limit	5	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		



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

Arsenic

Sample Matrix: Drinking Water

rinking Water										
				Metals Ana	lyses (Total)					
•			MCL/SMCL					Date	Date/Time	
Analyte	Results	RL	MA ORSG	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
	1.1	1.0	10	µg/L:	·1		EPA 200.8	11/14/17	11/14/17 17:14	MJH



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

			ľ	Miscellaneous Or	ganic Analys	es				,
			MCL/SMC					Date	Date/Time	
Analyte	Results	RL	MA ORS	G Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
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	i		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 (PFTrDA)	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		% Rec	overy	Recovery Limits		Flag/Qual		1 11000000		
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	•



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

Samule ID: 17K0479-04

Sample Matrix: Drinking Water

			7777 Y	
Metals	Ana	vses	пош	

				MCL/SMCL				•	Date	Date/Time	
	Analyte	Results	RL	MA ORSG	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
Arsenic	•	ND	0.1	10	μg/L	1		EPA 200.8	11/14/17	11/14/17 17:18	MJH



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

			r	Aiscellaneous Or	ganic Analys	ies				
			MCL/SMC	L				Date	Date/Time	
Analyte	Results	RL	MA ORSO	G Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
# Perfluorobutanesulfonic acid (PFBS)	16	2.0	2	. ng/L	l ·		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	ı	•	EPA 537	11/9/17	11/17/17 20:08	BLM
NMcFOSAA	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 (PFTrDA)	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		% Rea	overy	Recovery Limit	s	Flag/Qual				
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	-



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)

			MCL/SMCL	-				Date	Date/Time	
Analyte	Results	RL	MA ORSG	Units	Dilution	Flag/Qual	Method	Prepared	Analyzed	Analyst
Arsenic	ND	0.1	10	μg/L	1		EPA 200.8	11/14/17	11/14/17 17:21	MJH



#### 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 [mŁ]	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: 1	1/09/17 Anal	yzed: 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							
erfluorooctanoic acid (PFOA)	ND	2.0	ng/L							
erfluorooctanesulfonic acid (PFOS)	ND	2.0	ng/L							
Perfluorononanoic acid (PFNA)	ND	2.0	ng/L							
Perfluorodecanoic acid (PFDA)	ND	2.0	ng/L		•					
MeFOSAA	ND	2,0	ng/L							
Perfluoroundecanoic acid (PFUnA)	ND	2.0	ng/L							
IEtFOSAA	ND	2.0	ng/L							
erfluorododecanoic acid (PFDoA)	ND	2.0	ng/L						•	
erfluorotridecanoic acid (PFTrDA)	ND	2.0	ng/L							
Perfluorotetradecanoic acid (PFTA)	ND	2.0	ng/L							
штоgate; 13C-PFHxA	35.2		ng/L	40.0		88.0	70-130			
urrogate: 13C-PFDA	34.4		ng/L	40.0		86.1	70-130			
urrogate: d5-NEtFOSAA	150		ng/L	160		93.7	70-130		-	
.CS (B190547-BS1)				Prepared: 1	1/09/17 Anal	yzed: 11/17/	17			
Perfluorobutanesulfonic acid (PFBS)	1.99	2.0	ng/L	1.77		I 12	50-150			
erfluorohexanoic 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			
Perfluoroccianoic 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			
NM6FOSAA	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			
JEtFOSAA	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			
urrogate: 13C-PFHxA	43.0	-	ng/L	40.0		107	70-130		-	
urrogate: 13C-PFDA	49.2		ng/L	40.0		123	70-130			
Surrogate: d5-NEtFOSAA	112	-	ng/L	160		70,2	70-130			



#### QUALITY CONTROL

#### Metals Analyses (Total) - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B190987 - EPA 200.8										
Blank (B190987-BLKI)	•			Prepared &	Analyzed: 11	/14/17				
Arsenic	ND	0.1	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)	Sour	ce: 17K0479-	03	Prepared &	Analyzed: 11.	/14/17				
Arsenic	1.02	1.0	μg/L		1,06	i		3.41	20	
Matrix Spike (B190987-MS1)	Sour	ce: 17K0479-	03	Prepared &	Analyzed: 11	/14/17				
Arsenic	28.0	1.2	μg/L	25.0	1.06	108	70-130			



#### FLAG/QUALIFIER SUMMARY

* .	QC result is outside of established limits.
t	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
(CL	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
EPA 200.8 in Drinking Water	
Arsenic	CT,MA,NH,NY,RI,NC,ME,VA
EPA 537 in Drinking Water	·
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 Publile 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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Sodium Hydroxide 2 Preservation Codes GW = Ground Water WW = Waste Water DW = Drinking Water = Sulfuric Acid = Sodium Bisulfate S = Summa Canister S = Soil SL = Sludge SOL = Solid O = Other (please Page\_\_1\_\_\_ of\_\_\_1\_\_ Container Codes O = Other (please O = Other (please Orthophosphate Sa A = Amber Glass Dissolved Metals Matrix Codes: = Tedlar Bag Preservation Code O Field Filtered O. Field Filtered \*:Nitric Acid O Lab to Filter paol = ) O Lab to Filter M = Methanol <sup>3</sup> Container Code ST = Sterile - Sodium Thiosulfate. P = Plastic # of Containers V = VIBL AmAIT H. HC define) define) Please use the following codes to indicate possible sample concentration CON-KEST. ANALYTICAL LABORATORY 39 Spruce Street East Longmeadow, MA 01028 H - High; M - Medium; L - Low; C - Clean; U - Unknown ANALYSIS REQUESTED within the Conc Code column above: Doc # 381 Rev 1\_03242017 MA MCP Required MCP Certification Form Required CT RCP Required RCP Certification Form Required z Δ. × 2A JATOT × × Special Requirements 0 × EPA METHOD 537 × × × × =  $\supset$  $\Rightarrow$  $\supset$ `⊃ Email To:rob.smith@atcassociates.com THE //www.contestlabs.com Matrix CHAIN OF CUSTODY RECORD Rush-Approval Required 줊 ⋛ ⋛ ⋛ ⋛ 10-Day Data Delivery 4-Day 3-Day CLP Like Data Pkg Required: × × × Composite Due Date: 5-day TAT Ending Date/Time 12:16 13.13 (3:14 13:15 Format: Fax To # Other: 7-Day I-Day 2-Day Beginning Date/Time **.** 11 8 17 11817 1 8 1 11/8/17 73 William Franks Drive, West Springfield, MA Email: info@contestlabs.com 11/8/17 16:10 289 Lower Sandy Hill Rd, Westfield 289 Lower Sandy Hill Rd, Westfield Cient Sample ID / Description Phone: 413-525-2332 Date/Time: Fax: 413-525-6405 Date/Time: Date/Time: ATC Group Services Elizabeth O'Connor (413) 781-0070 183EM00170 Rob Smith Trip blank 289 EFF-2 289 MID-2 289 INF-2 148 289 FB Con-Test Quote Name/Number: CON-LEST þy: (signature) delinquished by: (signature) eceived by: (signature) T Con-Test 7 3 Company Name: nvoice Recipient: oject Name: Project Location: Project Manager: Project Number: sampled By: Comments: Address: Phone:

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PWSID #

Government

Project Entity

Date/Time:

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Page 17 of 18

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ived by: (signature)

Other:

Date/Time:

Federal

Date/Time:

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Chromatogram	AIMA-LAP,LLC		
WRTA			
MWRA	School	MBTA	
Municipality	21 J	Brownfield	

39 Spruce St.

East Longmeadow, MA. 01028

P: 413-525-2332

F: 413-525-6405





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			•					
Received By	- BUE		Date	11/8	117	Time	1610	)
How were the samples	In Cooler		No Cooler		On Ice	7	No Ice	
received?	Direct from Sam	pling	T		- Ambient	***************************************	Melted Ice	
Were samples within		By Gun#	1	•	Actual Ten	n- 14	چر ج	
Temperature? 2-6°C	Ŧ	By Blank #	<del></del>	ı		<del></del>	<u> </u>	•
Was Custody S		_ by black #		ra Comple	Actual Ten			•
Was COC Relinquished?			Were Samples Tampered with?  Does Chain Agree With Samples?					
Are there broken/leaking/loose caps on any samples?							1+	
Is COC in ink/ Legible?		on any sam			ivad within b	oldina timo?		
				Were samples received within holding time?  Analysis Sampler Name T				
pertinent Information? Project T ID's T Collection Dates/Times						<u> </u>		
Are Sample labels fille	d out and legible?		· · · · · · · · ·				<sup>3</sup>	
Are there Lab to Filters?				Who wa	s notified?			
Are there Rushes?			Who was notified?					
Are there Short Holds?			Who was notified?					
Is there enough Volume?				•				
Is there Headspace where applicable?			1	MS/MSD?	LA			
Proper Media/Containers Used?			Is splitting samples required?					
Were trip blanks received?				On COC?		•		
Do all samples have the	proper pH?		Acid _	工		Base	<u>NA</u>	
	eden er er er e					nigerial Esperialis		
Unp-	1 Liter Amb.		1 Liter F			16 oz	Amb.	
HCL- Meoh-	500 mL Amb.		500 mL Plastic			8oz Amb/Clear		
Bisulfate-	250 mL Amb.		250 mL Plastic		10	4oz Amb/Clear		
DI-	Col./Bacteria Other Plastic		Flashpoint			2oz Amb/Clear		
Thiosulfate-	SOC Kit	···	Other Glass Plastic Bag			Encore		
Sulfuric-	Perchlorate		Ziplo			Frozen:	•	
	<u>Aleksia (ja ja j</u>		This is					
Jnp-	1 Liter Amb.		1 Liter P	lastin		16 oz	Amb	
ICL-	500 mL Amb.		500 mL F				b/Clear	
Meoh-	250 mL Amb.		250 mL F			4oz Am		
3isulfate-	Col./Bacteria		Flashp		<u>-</u>	2oz Am		
DI-	Other Plastic		Other G			Enc		
hiosulfate-	SOC Kit		Plastic	Bag	·	Frozen:	<u> </u>	
Sulfuric-	Perchlorate	"	Ziplo	ck				
Comments:					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			

did not receive a container for the Trip Blank