

# Water Testing Summary - Raw Water -MTBE\_9727

10/31/2022

**Address:** 37 COURTHOUSE RD  
**Town:** AMHERST

**Date Sampled:** 9/29/2022  
**Sampler:** TYLER JURANTY

**Health limits** are based on Maximum Contaminant Levels (MCL) adopted by the U.S. Environmental Protection Agency (USEPA) or drinking water standards adopted by the NH Department of Environmental Services (NHDES).

**Health goals** are based on non-enforceable values established by USEPA that include Maximum Contaminant Level Goals (MCLG) and Health Advisories.

**Screening levels** are based on assessments conducted by USEPA or the U.S. Geological Survey (USGS) and are values below which adverse health effects are not anticipated from one-day or lifetime exposures.

**Aesthetic levels** are based on the water's taste, smell, color, etc. and are not health related.

*If available, these are listed in the report. Screening level may be omitted.*

## How to Interpret Your Results

-  Your result for the chemical is less than half of the health-based drinking water limit, goal, or level.
-  Your result for the chemical was detected in the sample at a value that is more than half of the health-based drinking water limit, goal, or level but is still below this limit, goal, or level.
-  Your result for the chemical was detected in the sample above the health-based drinking water limit, goal, or level.

### Aesthetic Icons:

-  Your result for the chemical was detected below the aesthetic drinking water limit.
-  Your result for the chemical was detected above the aesthetic drinking water limit.

**EXAMPLE:**

Chemical	Results	Units	Health Limit	Health Goal	Screening Level	Aesthetic Level
Arsenic	11	µg/L	 0.05			
Chlorate	0	µg/L			 210	
Chloride	3	µg/L				 250
Copper	1	µg/L	 1.3	 1.3		 1
Fluoride	1	mg/L	 4	 4		 0.7

This column is the result value for your water.

These four columns are described above. When a value is present, a colored icon will appear as a visual aid to help you interpret your **Results**. The colored icons are also described above.

µg/L = micrograms per liter = parts-per-billion (ppb)  
mg/L = milligrams per liter = parts-per-million (ppm)  
ng/L = nanograms per liter = parts-per-trillion (ppt)

pCi/L = picoCuries per liter  
ND (result) = Not Detected

This summary has been prepared to assist you with interpreting the analytical reports provided by the laboratories. The summary is for informational purposes only and should not be substituted for a review of the enclosed laboratory results. NHDES is not responsible for the use or interpretation of this information. Not intended for legal purposes.

If you are concerned about any result in the Summary Report or want to learn more about a particular contaminant, visit [NHDES website for Drinking Water Fact Sheets](#). You can search for the contaminant of interest by using the 'Filter by Keyword' function. You can also contact NHDES staff listed in the cover letter with specific questions.

For further evaluation of your results, please consider using the NHDES Online application "[Be Well Informed](#)". This tool will evaluate your water test results and help you decide whether, and if necessary, what type of treatment system you should install. If you have any questions afterward, call [603-271-2513](tel:603-271-2513) or email [dwgbinfo@des.nh.gov](mailto:dwgbinfo@des.nh.gov).

Although water quality in wells is generally stable, NHDES recommends that individuals with private wells have their well water tested on a regular basis. We also recommend that testing is conducted on a more frequent basis in areas with land uses that handle hazardous chemicals. Please refer to the [NHDES Suggested Water Quality Testing for Private Wells Fact Sheet](#) for more information.

Standard Analytes								
Chemical	Results	Units	Health Limit	Health Goal	Screening Level	Aesthetic Level		
Arsenic	ND	mg/L	+ 0.005	+ 0				
Chloride	71	mg/L					😊	250
Copper (flushed)	ND	mg/L	+ 1.3	+ 1.3			😊	1
Fluoride	ND	mg/L	+ 4	+ 4	+ 2		😊	2
Iron	0.0160	mg/L					😊	0.3
Lead (flushed)	ND	mg/L	+ 0.015					
Manganese	ND	mg/L	+ 0.3		+ 0.1		😊	0.05
Sodium	11	mg/L			! 20		😊	250

Radiological						
Chemical	Results	Units	Health Limit	Health Goal	Screening Level	Aesthetic Level
Uranium	0.0027	mg/L	+ 0.03	x 0		

Volatile Organic Compounds (VOCs)						
Chemical	Results	Units	Health Limit	Health Goal	Screening Level	Aesthetic Level
1,1,1,2-Tetrachloroethane	ND	µg/L	+ 70			
1,1,1-Trichloroethane	ND	µg/L	+ 200	+ 200		
1,1,2,2-Tetrachloroethane	ND	µg/L	+ 2			
1,1,2-Trichloroethane	ND	µg/L	+ 5	+ 3		
1,1-Dichloroethane	ND	µg/L	+ 81			
1,1-Dichloroethene	ND	µg/L	+ 7	+ 7		
1,1-Dichloropropene	ND	µg/L				
1,2,3-Trichlorobenzene	ND	µg/L			+ 7	
1,2,3-Trichloropropane	ND	µg/L	+ 0.5			
1,2,4-Trichlorobenzene	ND	µg/L	+ 70	+ 70		
1,2,4-Trimethylbenzene	ND	µg/L	+ 330			
1,2-Dibromo-3-chloropropane (DBCP)	ND	µg/L	+ 0.2	+ 0		
1,2-Dibromoethane (EDB)	ND	µg/L	+ 0.05	+ 0		
1,2-Dichlorobenzene	ND	µg/L	+ 600	+ 600		
1,2-Dichloroethane	ND	µg/L	+ 5	+ 0		
1,2-Dichloropropane	ND	µg/L	+ 5	+ 0		
1,3,5-Trimethylbenzene	ND	µg/L	+ 330			
1,3-Dichlorobenzene	ND	µg/L	+ 600			
1,3-Dichloropropane	ND	µg/L			+ 370	
1,4-Dichlorobenzene	ND	µg/L	+ 75	+ 75		
2,2-Dichloropropane	ND	µg/L				
2-Butanone (MEK)	ND	µg/L	+ 4000			
2-Chlorotoluene	ND	µg/L	+ 100			
2-Hexanone	ND	µg/L			+ 38	
4-Chlorotoluene	ND	µg/L			+ 100	

### Volatile Organic Compounds (VOCs)

Chemical	Results	Units	Health Limit	Health Goal	Screening Level	Aesthetic Level
4-Methyl-2-pentanone (MIBK)	ND	µg/L	+ 2000			
Acetone	ND	µg/L	+ 6000			
Benzene	ND	µg/L	+ 5	+ 0		
Bromobenzene	ND	µg/L	+ 60			
Bromochloromethane	ND	µg/L			+ 90	
Bromodichloromethane	ND	µg/L	+ 80	+ 0		
Bromoform	ND	µg/L	+ 80	+ 0		
Bromomethane	ND	µg/L	+ 10			
Carbon Disulfide	ND	µg/L	+ 70			
Carbon Tetrachloride	ND	µg/L	+ 5	+ 0		
Chlorobenzene	ND	µg/L	+ 100	+ 100		
Chloroethane	ND	µg/L			+ 230	
Chloroform	ND	µg/L	+ 80	+ 70		
Chloromethane	ND	µg/L	+ 30			
cis-1,2-Dichloroethene	ND	µg/L	+ 70	+ 70		
cis-1,3-Dichloropropene	ND	µg/L				
Dibromochloromethane	ND	µg/L	+ 80	+ 60		
Dibromomethane	ND	µg/L			+ 7	
Dichlorodifluoromethane	ND	µg/L	+ 1000			
Diethylether	ND	µg/L	+ 1400			
Diisopropyl ether (DIPE)	ND	µg/L	+ 120			
Ethylbenzene	ND	µg/L	+ 700	+ 700		
Ethyl-t-butyl ether (ETBE)	ND	µg/L	+ 40			
Hexachlorobutadiene	ND	µg/L	+ 0.5			
Isopropylbenzene	ND	µg/L	+ 800			
Methylene Chloride	ND	µg/L	+ 5	+ 0		
Methyl-t-butyl ether (MTBE)	ND	µg/L	+ 13	+ 13		
Naphthalene	ND	µg/L	+ 100			
n-Butylbenzene	ND	µg/L	+ 260			
n-Propylbenzene	ND	µg/L	+ 260			
o-Xylene	ND	µg/L	+ 10000	+ 10000		
p-Isopropyltoluene	ND	µg/L	+ 260			
sec-Butylbenzene	ND	µg/L	+ 130			
Styrene	ND	µg/L	+ 100	+ 100		
t-butanol	ND	µg/L	+ 40			

Volatile Organic Compounds (VOCs)						
Chemical	Results	Units	Health Limit	Health Goal	Screening Level	Aesthetic Level
t-Butylbenzene	ND	µg/L	+ 260			
tert-Amyl methyl ether (TAME)	ND	µg/L	+ 140			
Tetrachloroethene	ND	µg/L	+ 5	+ 0		
Tetrahydrofuran (THF)	ND	µg/L	+ 600			
Toluene	ND	µg/L	+ 1000	+ 1000		
trans-1,2-Dichloroethene	ND	µg/L	+ 100	+ 100		
trans-1,3-Dichloropropene	ND	µg/L				
Trichloroethene	ND	µg/L	+ 5	+ 0		
Trichlorofluoromethane	ND	µg/L	+ 2000			
Vinyl Chloride	ND	µg/L	+ 2	+ 0		
Xylenes	ND	µg/L	+ 10000	+ 10000		
Trihalomethanes	ND	µg/L	+ 80			

Per- and Polyfluoroalkyl Substances (PFAS)						
Chemical	Results	Units	Health Limit	Health Goal	Screening Level	Aesthetic Level
11CL-PF3OUDS	ND	ng/L				
4:2FTS	ND	ng/L				
6:2FTS	ND	ng/L				
8:2FTS	ND	ng/L				
9CL-PF3ONS	ND	ng/L				
ADONA	ND	ng/L				
HFPO-DA	ND	ng/L		+ 10		
NFDHA	ND	ng/L				
PFBA	1.55	ng/L				
PFBS	7.10	ng/L		+ 2000		
PFDA	ND	ng/L				
PFDOA	ND	ng/L				
PFEESA	ND	ng/L				
PFHPA	1.88	ng/L				
PFHPS	2.55	ng/L				
PFHXA	4.28	ng/L				
PFHXS	41.70	ng/L	x 18			
PFMBA	ND	ng/L				

## Per- and Polyfluoroalkyl Substances (PFAS)

Chemical	Results	Units	Health Limit	Health Goal	Screening Level	Aesthetic Level
PFMPA	ND	ng/L				
PFNA	ND	ng/L	+	11		
PFOA	7.10	ng/L	!	12	x	0.004
PFOS	64.90	ng/L	x	15	x	0.02
PFPEA	2.75	ng/L				
PFPEs	5.94	ng/L				
PFUNA	ND	ng/L				

For certain PFAS, the percentage of absorption through the skin is very low, and the regulated PFAS do not vaporize into the air at bathing water temperatures. Therefore, washing or bathing will not result in either a child or adult exceeding an allowable daily exposure from water. Options for mitigating exposure to these PFAS chemicals may include bottled water, or the installation of a water treatment system. NHDES has developed guidance materials for **in-home water filtration** that may be found at the [NH PFAS website](#).

If you have health concerns about your exposure to PFAS, we encourage you to review the NH Department of Health and Human Services' Frequently Asked Questions (FAQs) which is posted online ([DHHS PFAS webpage](#)) and talk to your healthcare provider. Healthcare providers in NH have been sent information through the provider health alert network messaging system about PFAS to be able to help answer health-related questions that you may have. The Northern New England Poison Center (NNEPC) is also available as a resource to help answer **health-related questions**, if needed. The NNEPC can be reached at 1-800-562-8236.

A current map, displaying where NHDES has sampled for PFAS, is available at [NHDES map PFAS webpage](#).

The current health-based Maximum Contaminant Levels (MCLs) and Ambient Groundwater Quality Standard (AGQS) for four PFAS compounds as signed into law on July 23, 2020, include 12 nanograms per liter (ng/L) for perfluorooctanoic acid (**PFOA**), 15 ng/L for perfluorooctane sulfonic acid (**PFOS**), 18 ng/L for perfluorohexane sulfonic acid (**PFHxS**), and 11 ng/L for perfluorononanoic acid (**PFNA**).

On June 15, 2022, the US Environmental Protection Agency (EPA) announced several non-enforceable health advisories for certain Per- and Polyfluoroalkyl Substances (PFAS), including new interim health advisories for Perfluorooctanoic Acid (PFOA) and Perfluorooctane sulfonate (PFOS), as well as final health advisories for GenX and Perfluorobutane sulfonic acid (PFBS). More information on these advisories can be found at [Drinking Water Health Advisories \(HAs\) | US EPA](#).