

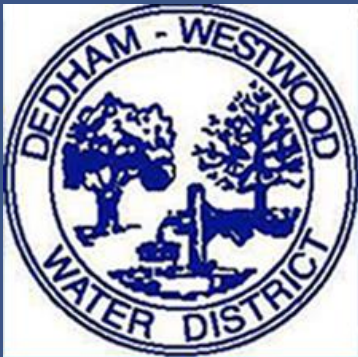


**Total Trihalomethanes (TTHM)
Water Quality Update: 11/15/2021**



Dedham-Westwood Water District

TTHM Maximum Contamination Level Tier 2 Violation



Important Information About Your Drinking Water

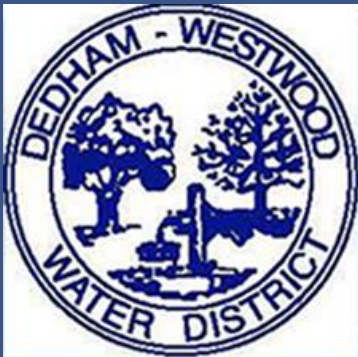
Our water system recently violated a drinking water standard. Although the elevated levels of TTHMs are of concern, this is **not** an emergency, and an alternative source of water is **not** necessary. If it had been, you would have been notified immediately.

Why did this happen?

Our team consistently monitors the public drinking water supply for all regulated inorganic substances, unregulated (secondary) substances, organic disinfection byproducts, radionuclides, as well as lead and copper. We have been paying close attention and taking proactive measures to mitigate THMs in the public drinking supply due to an elevated sample result in 2019 (that did not exceed the Massachusetts Drinking Water Regulation). However, during this past summer, we saw record high temperatures in the month of June and historic rainfall amounts in July and August. We believe these two factors greatly contributed to the October THMs exceeding the LRAA.



TTHM Maximum Contamination Level Tier 2 Violation



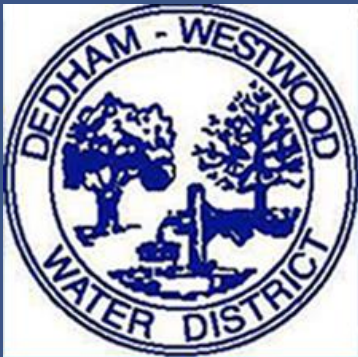
Important Information About Your Drinking Water (cont.)

The maximum contamination level (MCL) for total trihalomethanes is calculated at Locational Running Annual Average (LRAA) by both the MassDEP and the US Environmental Protection Agency, all of the quarterly sampling results from January 1, 2021, through December 31, 2021, contribute to the LRAA. The average at our sampling location that exceeded the MCL at 83 ppb. The October 7, 2021 sample, would be considered the last quarter sample for the LRAA compilation of the TTHM exceedance.

The following chart depicts the quarterly testing results for total trihalomethanes from January 5, 2021 (Quarter 1) through October 7, 2021 (Quarter 4):

Sample Location	Q1 (Jan - Mar)		Q2 (Apr - Jun)		Q3 (Jul - Sep)		Q4 (Oct - Dec)		LRAA
	Date	ppb	Date	ppb	Date	ppb	Date	ppb	
Dedham Medical Associates	1/5/2021	40	4/6/2021	58	7/8/2021	64	10/7/2021	118	71
Getty Gas Station	1/5/2021	45	4/6/2021	33	7/8/2021	46	10/7/2021	81	51
East Dedham Fire Station	1/5/2021	55	4/6/2021	45	7/8/2021	64	10/7/2021	42	52
Far Reach Pump Station	1/5/2021	74	4/6/2021	59	7/8/2021	89	10/7/2021	109	83

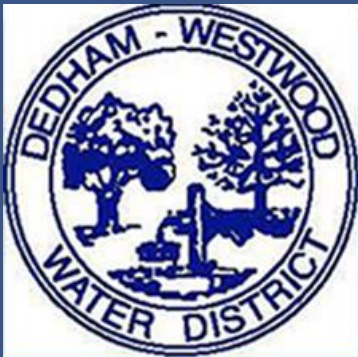
Timeline of Communications regarding the exceedance of the maximum contamination level of TTHMs.



TTHM Exceedance Communications Timeline

- **October 4-7, 2021**
Quarterly Mass DEP sampling conducted.
- **October 15, 2021**
Received TTHM exceedance notification from independent lab.
- **October 18, 2021**
Notified Mass DEP of TTHM exceedance.
- **October 25, 2021**
DWWD receives Mass DEP Notice of Noncompliance (NON) and Violation Response/ Compliance Schedule Approval Forms.
- **October 28, 2021**
DWWD sends Tier 2 Public notification to Mass DEP for review.
- **October 29, 2021**
Mass DEP approves Tier 2 notification (sent to printer).

Timeline of Communications regarding the exceedance of the maximum contamination level of TTHMs.



Communications Timeline (cont.)

- **October 29, 2021**
 - ✓ DWWD telephones both Town Administrators/Managers.
 - ✓ Leon Godwin from Dedham receives communication from DWWD on TTHM situation.
- **October 31, 2021**

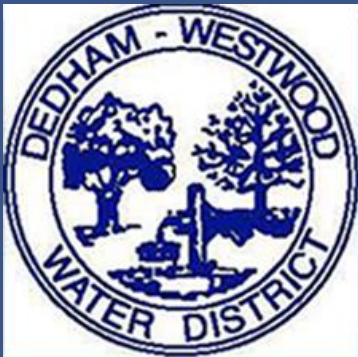
Water quality hotline & email address are procured and activated
- **November 1, 2021**

DWWD discusses TTHM situation with Chris Coleman of Westwood
- **November 4, 2021**

DWWD launches official public notifications including:

 - ✓ Tier 2 Public notification bulk mailing.
 - ✓ Zoom meeting with officials from both towns.
 - ✓ Distributes Tier 2 notification to both towns' Select Boards & Boards of Health.
 - ✓ Launch the dwwd.org/tthm webpage.
 - ✓ Dedham & Westwood share notice on towns websites and through email distribution lists.
 - ✓ Press Release.

Timeline of Communications regarding the exceedance of the maximum contamination level of TTHMs.



Communications Timeline (cont.)

- **November 5, 2021**
First hotline calls come in.
- **November 8, 2021**
First water quality emails come in.
- **January 3-7, 2022**
Next Quarterly Mass DEP sampling to be conducted.

TTHM Exceedance Corrective Actions Timeline



What is the DWWD doing about this?

- **October 21, 2021**
Has been purchasing MWRA water to dilute current distribution system of TTHMs.
- **October 22, 2021**
Request ad in local papers notifying residents of flushing in both towns to be conducted starting the week of November 1st.
- **October 29, 2021**
Took samples at Fox Hill Road Storage tanks to laboratory for testing.
- **November 1, 2021**
Started conventional flushing in selected areas and dead ends throughout both towns. (**Ongoing**).
- **November 9, 2021**
Received sample results back from lab with a reduction in TTHMs and favorable readings.

TTHM Exceedance Corrective Actions Timeline



What is the DWWD doing about this? (cont.)

These combined actions and the change of seasons will help abate the immediate impact; however, we are committed to providing a long-term solution and have also implemented the following:

- We have engaged the services of Weston & Sampson to analyze the total organic carbon sampling data and research the cause of the elevated levels of TTHMs.
- We are investigating alternative ways to reduce the age of the water in our storage tanks without impacting the pressure in the system for fire flows.
- We have also included additional equipment in the plants, tanks and distribution system as well as implementing a unidirectional flushing program in our 2022 capital plan.

CONTACT US

Water Quality Hotline & Email

- Should you have any questions, you may speak with a water quality representative by calling **(800) 279-8810** or by emailing us at waterquality@dwwd.org.
- For more information on TTHMs visit [dwwd.org/tthm](https://www.mass.gov/service-details/tthm-in-drinking-water-information-for-consumers) or <https://www.mass.gov/service-details/tthm-in-drinking-water-information-for-consumers>