

# Southfield Redevelopment Authority

2022

PWS ID: #4336007

# REPORT ON WATER QUALITY

This report is a snapshot of the quality of the drinking water that we provided last year. The statistics in this report are based on testing done throughout 2022 and prior years. We hope you will find it helpful to know the sources of your water and the process by which safe drinking water is delivered to your home.

# Where Does My Water Come From?

Southfield Redevelopment Authority (formerly known as the South Shore Tri-Town Development Corp.) is a Community water system located in South Weymouth, Massachusetts. The water system is considered a "consecutive" water supplier, that is, we receive our water from another public water supply provider. In our case, the Town of Weymouth (PWS# 4336000) supplies us with water from their sources.

The Town of Weymouth receives its drinking water from two treatment facilities, the Great Pond Water Treatment Plant (GPWTP) and the Arthur J. Bilodeau Water Treatment Plant (AJBWTP). The GPWTP produces up to 8 million gallons of water per day and consists of water from Great Pond. The AJBWTP produces 4 million gallons of water per day and consists of five active wells from the Mill River Aquifer.

# Is My Water Treated?

Our water system makes every effort to provide you with safe and pure drinking water. The Town of Weymouth provides treatment that includes methods of filtration, disinfection, alkalinity, and corrosion control. Treatment systems at the GPWTP and AJBWTP include: raw water screening; packed tower aeration; filtration with granular active carbon (GAC) media; oxidation using potassium permanganate; rapid mixing; sedimentation; coagulation and flocculation using polyaluminum chloride; clarification using dissolved air flotation; intermediate ozonation for primary disinfection; chlorine for disinfection; sodium hydroxide and potassium hydroxide for pH adjustment; hydrofluorosilicic acid and sodium fluoride for fluoridation (to prevent tooth decay); sodium bicarbonate for alkalinity adjustment; and phosphoric acid for corrosion control.

### SHOULD SOME PEOPLE TAKE SPECIAL PRECAUTIONS?

Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised persons, such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline (800)426-4791.

### Maintaining Water Quality

Southfield Redevelopment Authority continuously strives to produce the highest quality water possible to meet or surpass every water quality standard. We monitor both our sources and distribution system very closely. The standards we operate under were enacted by the U.S. Congress as the Safe Drinking Water Act in 1974 and were amended in 1986 and 1996.

In order to ensure tap water is safe to drink, the MassDEP and EPA prescribe regulations that limit the amount of certain contaminants in water provided by public water systems. Food and Drug Administration (FDA) and Massachusetts Department of Public Health regulations establish limits for contaminants in bottled water that must provide the same protection for public health.

## Opportunities to Participate

Any matters that concern your drinking water supply or issues you would like to see addressed can be presented at the regularly scheduled meeting of the trustees, association or board. If your concerns need immediate attention feel free to contact our current Certified Operator, WhiteWater, Inc., at 1-888-377-7678.

# Southfield Redevelopment Authority

The water system at Southfield Redevelopment Authority is operated and maintained by WhiteWater, Inc. If you have any questions about this report, please contact WhiteWater at 1-888-377-7678.

Additional copies of this report are available upon request and at



www.whitewateronline.com

### **SUMMARY OF FINISHED WATER CHARACTERISTICS (SRA)**

This report summarizes only those items detected during sampling - not all contaminants that are monitored.

Microbial Results	Highest # Pos- itive in a Month	MCL	MCLG	Violation	Possible Source of Contamination
Total Coliform Bacteria	0	1	0	No	Naturally present in the environment

Coliform are bacteria that are naturally present in the environment and are used to indicate that other, potentially harmful bacteria may be present. Your water source is tested monthly and has been found to be free of these contaminants.

Lead & Copper	Date(s) Collected	90 <sup>th</sup> Percentile of Sample	Action Level	MCLG	# of Sites sampled	# of Sites Above Action Level	Exceeds Action Level?	Possible Source of Contamination
Lead (ppb)	2021	0	15	0	10	10 0	No	Corrosion of household plumbing systems
Copper (ppm)		0.019	1.3	1.3			No	Corrosion of household plumbing systems

<u>Regulated</u> Contaminants	Collected	Highest Running Annual Average	Detected	MCL	MCLG	Violation	Possible Source of Contamination	
Disinfection By-Products								
Total Trihalomethanes (TTHMs) (ppb)	Quarterly 2022	37	27-54	80	-	No	By-product of drinking water chlorination	
Haloacetic Acids (HAA5) (ppb)	Quarterly 2022	7.5	0-18	60	-	No	By-product of drinking water chlorination	

#### **TESTING FOR LEAD**

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. **Southfield Redevelopment Authority** is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at <a href="http://www.epa.gov/safewater/lead">http://www.epa.gov/safewater/lead</a>.

#### **Key to Tables**

- ppm Parts per million, corresponds to one penny in \$10,000
- ppb Parts per billion, corresponds to one penny in \$10,000,000
- pCi/L Picocuries per liter (a measure of radioactivity)
- ND Not detected
- n/a not applicable
- RAA –Running annual average
- TT—Treatment technique

#### **SOURCE WATER CHARACTERISTICS**

The sources of drinking water in the United States (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals, and in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

Contaminants that may be present in source water include:

- Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife.
- Inorganic contaminants, such as salts and metals, which can be

- naturally occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming.
- Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses.
- Organic chemical contaminants, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production. These contaminants can also come from gasoline storage, urban storm water runoff, and septic systems.
- Radioactive contaminants, which can be naturally occurring or be the result of oil and gas production and mining activities.

# Town of Weymouth CCR Statistics (As provided by Weymouth)

Regulated Substance (Units)	Year Sampled	MCL	MCLG	Amount Detected	Range Low High	Violatio	n Typical Source
Barium (ppm)	2021	2	2	0.017	n/a	No	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
Fluoride (ppm)	2022	4	4	0.84	0.41-0.84	No	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories
Nitrate (ppm)	2022	10	10	0.487	ND- 0.487	No	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
Haloacetic Acids (HAA5) (ppb)	2022	60	N/A	22.7	1.4-22.7	No	By-product of drinking water disinfection
Total Trihalomethanes (TTHMs) (ppb)	2022	80	N/A	98.2	13.3-98.2	No	By-product of drinking water disinfection
Chlorine (ppm)	2022	2	N/A	1.61	0.01-1.61	No	Water additive used to control microbes
Unregulated Substance (Units)	Year Sampled	SMCL	ORSG	Amoun Detected			Typical Source
PFAS6 (ppt) Per-and Polyfluoroalkyl Substances	2022	20	n/a	9.86	ND-	9.86 PF co ind	scharges and emissions from industrial and manufacturg sources associated with the production or use of these AS, including production of moisture and oil resistant atings on fabrics and other materials. Additional sources clude the use and disposal of products containing these AS, such as fire-fighting foams.
Sulfate (ppm)	2019	250	n/a	11.5	n/	⁄a Rı	noff/leaching from natural deposits; industrial wastes
Sodium (ppm)	2022	n/a	20	214	37.6	-214 Na	atural sources; Runoff from use as salt on roadways

**Sodium** is a naturally-occurring common element found in soil and water. It is necessary for the normal functioning of regulating fluids in human systems. Some people, however, have difficulty regulating fluid volume as a result of several diseases, including congestive heart failure and hypertension. The guideline of 20 mg/L for sodium represents a level in water that physicians and sodium sensitive individuals should be aware of in cases where sodium exposures are being carefully controlled. For additional information, contact your health care provider, your local board of health or the Massachusetts Department of Public Health, Bureau of Environmental Health Assessment at 617-624-5757.

#### **SOME TERMS DEFINED**

**Action Level (AL):** The concentration of a contaminant which, if exceeded, triggers a treatment or other requirement which a water system must follow.

Maximum Contaminant Level Goal (MCLG): The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLG's allow for a margin of safety

**Maximum Contaminant Level (MCL):** The highest level of a contaminant that is allowed in drinking water. MCL's are set as close to the MCLG's as feasible using the best available treatment technology.

**Secondary Maximum Contaminant Level (SMCL):** These standards are developed to protect the aesthetic qualities of drinking water and are not health based.

Massachusetts Office of Research and Standards Guideline (ORSG): This is the concentration of a chemical in drinking water, at or below which, adverse, non-cancer health effects are likely to occur after chronic (lifetime) exposure. If exceeded, it serves as an indicator of the potential need for further action.

Total Coliform: A bacteria that indicates other potentially harmful bacteria may be present.

**Unregulated Contaminants:** Unregulated contaminants are those for which EPA has not established drinking water standards. The purpose of unregulated contaminant monitoring is to assist EPA in determining their occurrence in drinking water and whether future regulation is warranted.

90th Percentile: Out of every 10 homes, 9 were at or below this level.



#### Source Water Protection

The Massachusetts Department of Environmental Protection (MassDEP) has not yet completed a Source Water Assessment Program (SWAP) Report for the water supply source serving Southfield Redevelopment Authority. This report assesses the susceptibility of public water systems to contamination and makes recommendations for improvement. Once a SWAP report has been completed, we will notify you.

For further information, please visit <a href="http://">http://</a> www.mass.gov/eea/agencies/massdep/water/ drinking/overview-of-the-source-water-assessment -and-protection-pr.html

Be assured that the Southfield Redevelopment Authority in concert with its certified operator, White-Water, Inc., will address any concerns as stated in the SWAP Report and welcomes your input to our planning. If you have any questions, please contact WhiteWater, Inc., at 1-888 377-7678.

# FOR YOUR INFORMATION

**DRINKING** 

WATER

Please conserve and protect it!

In order to ensure that tap water is safe to drink, the **Department of Environmental Protection** (MassDEP) and U.S. Environmental Protection Agency (EPA) prescribe regulations that limit the amount of certain contaminants in water provided to public water systems. The Food and Drug Administration (FDA) and Massachusetts Department of Public Health (DPH) regulations establish limits for contaminants in bottled water that must

health. All drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the EPA's Safe Drinking Water Hotline (800-426-4791).

Where to go for more information ....

provide the same protection for public

**Massachusetts Department of Environmental Protection** (MassDEP)

http://www.mass.gov/eea/agencies/massdep/water/drinking/



Typical Hose

#### Cross Connection Control and Backflow Protection in your water system

A Cross Connection means any actual or potential physical connection or arrangement between a pipe conveying potable water from a public water system and any non-potable water supply, piping arrangement or equipment including, but not limited to, waste pipe, soil pipe, sewer, drain, other unapproved sources. Southfield Redevelopment Authority recommends the installation of Hose Bibb type vacuum breakers on all outside faucets. This will protect all residents from the potential of backflow into their homes and the potable water system from a hose connection. Studies have shown that hoses are the most commonly unprotected cross connection. The MassDEP and Southfield Redevelopment Authority require the physical separation between the public water supply to your home and a private well used for irrigation or other purposes, these instances will be monitored for compliance. For more information please contact Marcus Thompson, Cross Connection Coordinator, WWI at 888-377-7678.

#### Southfield Redevelopment Authority

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