

# **COSTS?**

**Single Public Water Supply (PWS)**

**vs.**

**Multiple Private Wells**

**Examples of PWS financial viability:**

- **Woodhaven** – 24 units, senior rentals, reasonable rents
- **The Fields at Sherborn** - another 32-unit 40B
- **Leland Farms** – over 50% of the units are affordable

## **Well Installation Costs**

**Large well example: Laurel Field wells – each approx. \$26,000**

**A= 8" diameter, 593 feet deep**

**B= 8" diameter, 613 feet deep**

**Single-family residential well, recent estimate:**

**6" diameter, 350 feet deep -- \$20,000**

# **Other Costs for Public Water Supplies**

## **Water Supply Operators**

- Very small systems (VSS) serve a population of 500 or less.
- At a minimum, contract operators shall conduct monthly on-site inspections, unless specifically exempted in writing by MassDEP.
- MassDEP estimates that a minimum of 6-hours of documented on-site operation per year and a minimum of 12 hours of documented total operation per year are necessary to perform the typical contract operator duties.

**Testing - according to a schedule established by MassDEP**

**Initial Permitting (current estimate \$3,000 to \$15,000 but getting clarification)**

**Annual Reporting (via an on-line system)**

## Using Multiple Wells to Supply a Public Water Supply

**A collection of wells providing water to a PWS need not all feed into the supply at the same time. MassDEP is looking for at least 3 wells to be operating at any one time. Additional wells can serve to meet the requirements below.**

**310 CMR 22.21(3)(a): Any person who obtains Department approval for a community public water system that relies entirely upon groundwater sources shall provide additional wells, wellfield, or springs and pumping equipment, or the equivalent, capable of producing the same volumes and quality of water as the system's primary well, wellfield, or spring at all times, or shall provide the storage capacity equivalent to the demand of at least two average days if approved by the Department, unless an interconnection with another public water system has been provided which can adequately provide the quantity and quality of water needed.**

why  
finished  
versus raw  
sampling is  
important

April 27, 2023			Required Water Quality Sampling Schedule Frequency For <b>2023</b> To <b>2025</b>										Page 1 of 2					
PWS ID	<b>3269002</b>	PWS Name	<b>WOODHAVEN ELDER HOUSING COMMITTEE</b>										Town: <b>SHERBORN</b>	Class: <b>COM</b>				
<b>BACTERIA SAMPLING</b>			Apr - Sep: 1	per	MONTH	Season Start Date: 01/01			Refer to your DEP Coliform Sampling Plan for approved coliform sample locations. Systems open before or beyond the start/end dates must collect samples during these extra months.									
Oct - Mar	1	per	MONTH	Season End Date: 12/31														
Loc ID #	SAMPLE LOCATION	MULT/SIN	R/F	D/S	WAIVER Y / N	2023	2024	2025	QTR1	QTR2	QTR3	QTR4	QTR1	QTR2	QTR3	QTR4		
<b>GROSS ALPHA PARTICLE ACTIVITY</b>																		
10003	TREATED WATER - WELLS #1,2,3		M	F	S	[Next Sampling due in 2029]												
3269002-01G	WELL 1																	
3269002-02G	WELL 2																	
3269002-03G	WELL 3																	
<b>INORGANICS</b>																		
10003	TREATED WATER - WELLS #1,2,3		M	F	S	N	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3269002-01G	WELL 1																	
3269002-02G	WELL 2																	
3269002-03G	WELL 3																	
<b>LEAD AND COPPER RULE</b>																		
5 APPROVED TAPS			S	F	D		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>MANGANESE</b>																		
10003	TREATED WATER - WELLS #1,2,3		M	F	S		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3269002-01G	WELL 1																	
3269002-02G	WELL 2																	
3269002-03G	WELL 3																	
<b>NITRATE</b>																		
10003	TREATED WATER - WELLS #1,2,3		M	F	S	N	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3269002-01G	WELL 1																	
3269002-02G	WELL 2																	
3269002-03G	WELL 3																	
<b>NITRITE</b>																		
10003	TREATED WATER - WELLS #1,2,3		M	F	S	N	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3269002-01G	WELL 1																	
3269002-02G	WELL 2																	
3269002-03G	WELL 3																	
<b>PER- AND POLYFLUOROALKYL SUBSTANCES</b>																		
10003	TREATED WATER - WELLS #1,2,3		M	F	S		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3269002-01G	WELL 1																	
3269002-02G	WELL 2																	
3269002-03G	WELL 3																	
RW-03G	WELL #4 - RAW WATER (AKA WELL #3)	S	R	S			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3269002-03G	WELL 3																	

R/F = RAW OR FINISHED WATER;

D/S = DISTRIBUTION OR SOURCE SAMPLE

Waiver: (Y)es, or (N)o

MULT/SIN: (MULT)iple sources or a (SIN)gle source

This monitoring schedule is based on the system's current inventory and is subject to change. Water systems are responsible for promptly reporting schedule errors or omissions.

Errors or omissions on monitoring schedules do not prohibit the MassDEP from enforcing monitoring requirements set forth by the Regulations.





