



**SOURCE WATER PROTECTION  
Town Hall – Council Chambers  
Monday, October 23, 2023  
5:00 pm**

**AGENDA**

1. Call to Order
2. Approval of Agenda
3. Approval of the Minutes – July 10, 2023
4. Welcome New Member – Jeff Borden, Director of Public Works
5. Old Business
  - i. Review Staff Report
  - ii. Review Action Items
  - iii. Reservoir and Wellfield Update
  - iv. Protected Water Area Designation Review
6. Information/Discussion Items
7. Anything by Members
8. Next Meeting Date
9. Adjournment



## MEMORANDUM

**TO:** Source Water Protection Advisory Committee

**FROM:** Jeff Hurlburt, Water Operator

**DATE:** October 23, 2023

**SUBJECT:** Staff Report and Action Items

#	ACTION ITEM	UPDATE	STATUS
1	Secondary Water Source. Lily Lake as a secondary water source is not an option. There must be a temporary short-term plan for the water supply in place in case of emergencies.	A decision was made at the July 10, 2023, meeting to leave Lily Lake as a secondary water source for the Town. An Action Plan needs to be developed which has been added at the bottom of this list.	Complete
2	Inform the public. An information sheet can be sent out in the September water bills about the importance of well-field protection, reducing water usage and the Town's boil order advisory procedures.	Information sheet has been mailed out to residents in the watershed area.	Complete
3	Identify any changes in risks inside the wellfield zones.	No changes to risks unless land ownership and agricultural uses have changed. The property owner list has been updated, and letters sent to owners to submit an update regarding land use. We are awaiting their responses.	In Progress
4	Create a procedure for dealing with spills or releases.	SOP/Contingency Plan has been created regarding spills or releases.	Completed



#	ACTION ITEM	UPDATE	STATUS
5	Create a procedure for equipment becoming inoperable for emergencies and/or due to power failure.	SOP/Contingency has been created regarding Equipment failure, & Emergency Power Outages.	Completed
6	Staff will find the most current version of mapping and the most recent Final Protection Plan.	E-mail sent to CBCL to locate the most current Final Protection Plan. CBCL responded that the most recent Protection Plan is not on their files and was edited by Town Staff.	Completed
7	Create an Action Plan on how Lily Lake will be used as a backup water source in the case of an Emergency.	Met with John Webber, former Water Operator, to discuss where existing lines are. We will need a follow up meeting before creating a plan.	In Progress
8	Posting, Signage, and Enforcement: <ul style="list-style-type: none"> <li>a. Order signs for Lily Lake</li> <li>b. Explore fencing around well heads</li> <li>c. Explore cost for installing sample sites at well heads</li> <li>d. Explore a gate for Lily Lake</li> </ul>	<ul style="list-style-type: none"> <li>a. Not complete</li> <li>b. Waiting for quotes on fencing – may need to be added to capital budget for next year</li> <li>c. In progress</li> <li>d. Not complete</li> </ul>	In Progress
9	Designation of Wellfield as a Protected Water Area	Need direction from SWPAC.	In Progress

**Appendices:** None

# Reservoir & Wellfield Update for SWPP Committee

## Reservoir Update

- 1) The creation of an Emergency Action Plan has been initiated, which will include an Inundation Map that will show the impact of the reservoir bursting, if this were ever to occur. That will potentially lead us to mitigation strategies that should help in the process of securing funding for the new reservoir.
- 2) The Town has executed a land swap and now owns a smaller parcel of land for the placement of the new reservoir (CBCL's design was already based on the reservoir being put on this parcel; the land swap just hadn't been executed yet).
- 3) CBCL has the new reservoir & related infrastructure design 95% complete, and it can be tender ready in 3 weeks once funding has been secured.
- 4) An application has been submitted to the federal DMAF program to seek funding for the reservoir project.
- 5) A PRV (Pressure Relief Valve) has been installed at the Well House in the event the pressure within the water utility infrastructure exceeds 130 PSI. This valve is designed to relieve excess pressure that could cause water main breaks within the water infrastructure.
- 6) And finally, the Town has initiated a Water Rate Study.

## Wellfield Update

- 1) The Post tropical storm caused very little damage to the well field area and only minor branch clean up along the road into the well field was necessary after the storm.
- 2) The watering results during the last quarter have all come back well below acceptable limits and the water quality provided to the town is very high.
- 3) Town Council has approved the cleaning of Well #2 and the replacement of the well pump, which will bring the town back up to 3 operational and healthy wells available to supply water to Middleton. A full set of Sampling will be conducted at Well #2 after the cleaning is completed and prior to reintroduction to the water utility infrastructure. These samples will include Coliform & E. Coli samples, and a Standard Water Analysis including Total Metals as per Nova Scotia Environment & Climate Control (NSECC) guidelines.
- 4) We are still awaiting installation of the Flow Meter for Well #2 which is currently not in service. Sourcing a contractor to do the modifications and installation has been difficult.
- 5) All Sampling results from this year's sampling plan have come back within acceptable limits of the NSECC guidelines.
- 6) A new MAC aesthetic limit is being tabled by Health Canada regarding Iron content in water. It will reduce the aesthetic limit from 300 ug/L to 100 ug/L. At this time Well #1 meets the aesthetic limit for the guidelines but if the aesthetic limit is reduced as anticipated then the scheduled cleaning of well #1 will need to be moved forward to as early as next year's budget.

## Source Water Protection Planning Flow Chart

