

# TOWN OF HINESBURG

## WASTEWATER TREATMENT FACILITY UPGRADE

### BOND VOTE INFORMATION

#### *When is the public information meeting?*

##### **PUBLIC INFORMATION MEETING**

Via Video Conference Platform: Zoom  
Wednesday, October 28, 2020  
7:00 p.m.

#### *When is the bond vote?*

##### **MAIL-IN OR VOTE BY AUSTRALIAN BALLOT**

Hinesburg Town Hall  
Tuesday, November 3, 2020  
7:00 a.m. to 7:00 p.m.

#### *What improvements are included in the Wastewater Treatment Facility Upgrade?*

- Phase I - Wick drains will be installed and fill placed to address the poor subsurface soil conditions.



- Phase II – The wastewater treatment facility upgrade includes:
  - Main pump station upgrade
  - Abandonment of the original aerated lagoon facility
  - Headworks with screening
  - Two (2) sequential batch reactor tanks
  - Cloth media filtration
  - Ultraviolet disinfection system
  - Sludge storage tank
  - Control Building
  - Plant PLC/SCADA system
  - Return of Lagoons #2 and #3 to floodplain

#### *Why is the Wastewater Treatment Facility Upgrade necessary?*

- The Town received a new Discharge Permit effective March 1, 2018, which requires lower total phosphorus and ammonia permit limits.
- Under the Lake Champlain Total Maximum Daily Limit (TMDL), the annual phosphorus loading is reduced from 608 to 152 pounds per year for this facility.
- To meet the Water Quality standards for the LaPlatte River, new permit limits are required for ammonia.



- The new Discharge Permit includes compliance deadlines for developing and implementing a plan that will achieve compliance with the new limits. **Compliance with these limits is mandated by EPA and the State.**
- The existing aerated lagoon facility is not able to consistently comply with these lower phosphorus and ammonia limits without significant upgrades.
- The existing treatment facility has a permitted capacity of 250,000 gpd and it was determined that an additional 75,000 gpd of capacity is necessary for reasonable growth. This new development will help pay for the cost of the upgrades.
- The upgraded facility will provide a higher degree of treatment, thereby improving water quality of the receiving waters. As an example, ultraviolet disinfection is proposed, eliminating the use of chlorine.
- The new facility will be more energy efficient, constructed with sustainable materials, and will be operated and monitored with a Plant PLC system.

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### BOND VOTE INFORMATION

***What is the project cost and bond amount?***

The estimated construction cost is \$9,065,000 as summarized below.

**Estimated Construction Costs**

Item Description	Estimated Cost
Subgrade Improvements	\$1,485,000
WWTF Upgrade/Expansion	\$7,330,000
Small Purchases	\$250,000
<b>Estimated Construction Cost</b>	<b>\$9,065,000</b>

The **total project cost is \$11,700,000** and includes: construction, 10% construction contingency, engineering, legal, permit fees, administration, short term interest, and other costs.

The recommended **bond amount is \$11,700,000.**

***What are the available funding sources?***

Funding is available through the State Clean Water State Revolving Fund (CWSRF) program as follows and the Town continues to pursue other State and Federal funding sources:

- Engineering subsidy is provided at 50% of the cost, total \$250,000.
- This project is eligible for a 17% pollution control grant.
- The State is providing additional subsidy at \$500,000 per year, total of \$2,000,000.
- Under the Lake Champlain TMDL, the State is providing \$2,000,000 in loan forgiveness and a loan at 0%, 30-year term. **This 0% loan will save the Town approximately \$4.5 M in interest expense over the 30 years.**

**Funding Summary**

Funding Source	Estimated Amount
CWSRF Engineering Subsidy	\$250,000
Pollution Control Grant (17%)	\$1,989,000
Additional Subsidy	\$2,000,000
Lake Champlain TMDL	\$2,000,000
CWSRF Loan (0%, 30 years)	\$5,461,000
<b>Total Cost</b>	<b>\$11,700,000</b>

After the grants, subsidy and loan forgiveness, the total loan amount is \$5,461,000. **If the bond vote**

**does not pass, several of these funding sources may not be available for this project after June 30, 2021.**

***What is the projected impact on the current Water Rates?***

The annual loan payment for a 0%, 30-year term, will be approximately \$184,000. **This 0% loan will save the sewer customers about \$95 per year. The Town plans to use about \$75,000 per year in income collected from sewer connection and allocation fees to reduce the annual loan payment.** Beginning in 2025, a typical residential sewer customer will see an increase in their sewer bill of about \$90 per quarter for this project.



***What is the project schedule?***

The schedule below is based on a positive November 2020 bond vote and completion of construction for the new wastewater treatment facility in the summer of 2025.

**Project Schedule**

Projected Date	Task	
2020	November 3	Conduct bond vote
	December	Begin final design/permitting
2021	July	Start subgrade improvements
	November	Complete subgrade improvements
2022	November	Start construction of WWTF
2024	July	Start-up of new WWTF