

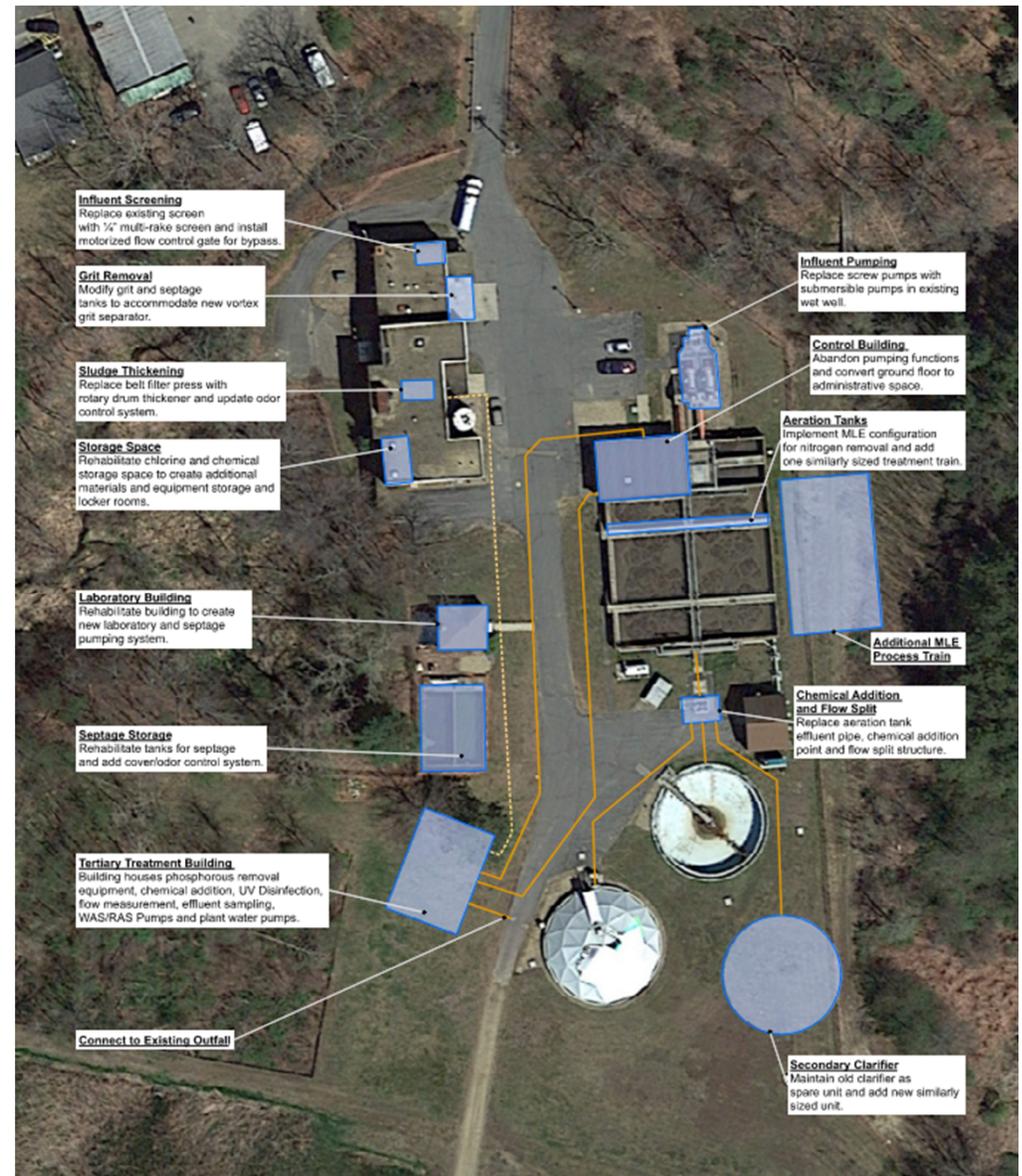


SELECT BOARD WASTEWATER PROJECT UPDATE

Project Lead: Ian Catlow, PE
Ryan Siegel, PE

PROJECT STATUS

- Design Complete
- Contractors Prequalified
- Bidding Under Way
 - Sub Bids Opened 5/17/22
 - General Bids Opening 6/7/22
- Construction Start July 2022



PROJECT DRIVERS

- Aging & Obsolete Equipment, Systems, Structures
- NPDES Discharge Permit
 - Phosphorous Removal by 12/31/24
 - Nitrogen Limit Issued In Draft Permit
 - Final Permit Expected Summer 2022

AUTHORIZATION TO DISCHARGE UNDER THE
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of the Federal Clean Water Act, as amended, (33 U.S.C. §§1251 et seq.; the "CWA"), and the Massachusetts Clean Waters Act, as amended, (M.G.L. Chap. 21, §§ 26-53),

**Town of Spencer
Sewer Commission**

is authorized to discharge from the facility located at

**Spencer Wastewater Treatment Plant
Route 9
Spencer, MA 01562**

2. Total Phosphorus

In order to comply with the permit limits, the Permittee shall take the following actions with regard to total phosphorus:

- a. The interim monthly average total phosphorus interim limits are 0.2 mg/L from May 1 through October 31 and 0.3 mg/L from November 1 through April 30. The interim loading limits are 0.79 lb/day from May 1 through October 31 and 1.19 lb/day from November 1 through March 1, calculated using the flow rate through Outfall 001. The permittee shall meet these limits until it attains compliance with the final phosphorus effluent limits in Part I.A.1.
- b. No later than **December 31, 2019**, complete a conceptual design to meet the total phosphorus limit.
- c. Complete design plans and specifications for necessary upgrades no later than **July 31, 2021**.
- d. Start construction of necessary upgrades no later than **June 30, 2022**.
- e. Attain compliance with the final effluent limits for total phosphorus no later than **December 31, 2024**.

Effluent Characteristic Parameter	Discharge Limitation			Monitoring Requirement ^{1,2}	
	Average Monthly	Average Weekly	Maximum Daily	Measurement Frequency	Sample Type ³
<i>Escherichia coli</i> ⁸ (April 1 – October 31)	126 colonies/ 100 mL	---	409 colonies/100 mL	1/Week	Grab
Total Copper	10.3 µg/L	---	15.3 µg/L	2/Month	Composite
Total Phosphorus ^{6,10} (April 1 – October 31)	0.1 mg/L 0.79 lb/day	---	---	2/Month	Composite
Total Phosphorus ^{5,10} (November 1 – March 31)	0.2 mg/L 1.19 lb/day	---	---	2/Month	Composite
Ammonia Nitrogen ⁹ (May 1 – October 31)	0.56 mg/L 5.0 lb/day	---	0.84 mg/L 7.5 lb/day	2/Month	Composite
Ammonia Nitrogen ⁹ (November 1 – April 30)	6.3 mg/L 56.7 lb/day	---	---	2/Month	Composite
Total Kjeldahl Nitrogen ¹¹ (April 1 – October 31)	Report mg/L	---	Report mg/L	1/Week	Composite
Total Kjeldahl Nitrogen ¹¹ (November 1 – March 31)	Report mg/L	---	Report mg/L	1/Month	Composite
Nitrate + Nitrite ¹¹ (April 1 – October 31)	Report mg/L	---	Report mg/L	1/Week	Composite
Nitrate + Nitrite ¹¹ (November 1 – March 31)	Report mg/L	---	Report mg/L	1/Month	Composite
Total Nitrogen ^{6,11}	Report mg/L Report lb/day	---	Report mg/L	1/Month	Calculation
Rolling Average Total Nitrogen ^{6,11}	90 lb/day	---	---	1/Month	Calculation

BIDDING STATUS

- **Sub-Bids Opened**
 - Opinion of Cost \$8.454M
 - Sub-Bid Total \$11.067M
 - 31% Cost Increase
- **Reasons for Increase**
 - Tight Labor Market
 - Abundant Construction Work
 - Supply Chain Issues
 - Material Costs
 - Prolonged Delivery Schedules

Sub-Bid Summary	
Masonry	\$372,731
Misc. Metals	\$810,000
Waterproofing	\$197,000
Roofing & Flashing	\$727,000
Metal Windows	\$293,500
Glass & Glazing	\$38,325
Acoustic Tile	\$36,500
Painting	\$160,000
Fire Protection	\$260,000
Electrical	\$5,014,700
Plumbing	\$420,000
HVAC	\$2,734,000
Tile	\$11,875
Total:	\$11,067,631

MARKET TRENDS

• Material Cost Changes

- Fuel +200%
- Bitumen +39%
- PVC/Plastic -4%
- Steel -4.7%
- Aluminum +23%
- Concrete +11%

• Recent Bids

- Medway WTP \$17M OPCC
 - Bid Cost \$22M (+29%)
- Dudley WTP \$5.8M OPCC
 - Bid Cost \$6.3M (+9%)
- Wareham WWTF \$7.1M OPCC
 - Bid Cost \$8.8M (+24%)

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CAPE COD

Cape Bridge Replacement Costs May Soar to \$4 Billion

That's at least double the originally anticipated price, although the federal government is ultimately expected to foot the bill

By Chris Lisinski • Published May 18, 2022 • Updated on May 18, 2022 at 1:56 pm



Automobiles and trucks cross the Sagamore Bridge in Bourne, Massachusetts.

Trending Stories

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Test Positive for COVID? These Free Treatments Are Available in Mass.
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More Beach Arrests as Police Try to Curb Unruly Behavior in Boston, Revere

NEXT STEPS

- **Plan For Special Town Meeting on 6/23/22**
 - Select Board
 - Finance Committee
- **Open General Bids on 6/7/22**
 - Adjust Warrant Article to Reflect Bid Value & Revised Contract Duration
- **Request Award Deadline Extension from MassDEP**
- **Capture 0% Loan From SRF Program**
- **Capture 17.4% Principal Forgiveness From MassDEP**
 - Ex. \$48M Project Cost
 - 17.4% Grant (\$8.35M)
 - Net Cost to Town \$39.7M