



Sewer Works

Newsletter of the Hull Sewer Department Summer 2019

Operations Message

Your Sewer Dollars at Work: You likely have noticed that work has begun on the Nantasket Avenue Sewer Interceptor Rehabilitation with the preliminary pipe cleaning and inspection activities. Work on the Atlantic Avenue/Gunrock Area Sewer Improvement project is expected to begin during the week of August 5th. Expect to see activity increase on both of these projects in the coming weeks and months. Updates will be posted on the town website and on our Facebook page as work progresses. I'm pleased to report that the electrical service upgrade and transformer relocation project was completed on time and under budget. This work was partially funded through a \$148,350 grant from the Massachusetts Office of Coastal Zone Management (CZM) as a part of our coastal resiliency measures to address climate change and sea level rise. We are reviewing the 30 percent design of a replacement HVAC system for the administration building in order to relocate the mechanical room to the second floor.



We are staying ahead of the Town's roadway paving program by inspecting sewer infrastructure within the roads to be repaved and making any needed repairs before surface improvements are made. There are several areas where these projects will be done this summer.

At the treatment facility, we are finalizing the design of the Headworks and Influent Pipe Rehabilitation, and the Effluent Pump Room Rehabilitation. We expect to see construction on these projects late this Fall. Updating the facilities plan and increasing

the resiliency of our treatment facility and pump stations has been another focus.

Elevated electrical transformers

businesses associated with food preparation. Most of these businesses are required to operate and maintain a grease interceptor. Be diligent in the maintenance of your grease interceptor if you have one as the operation of your business may depend on it. If water won't flow down your drain, you may not be able to serve your customers. Grease interceptor owners are responsible for their continuous operation as well as reporting requirements with the Board of Health.

Please also keep in mind that sump pumps and gutters/down spouts should not be connected to the sewer. It costs us just as much to treat a gallon of floodwater from your basement or roof as it does a gallon of sanitary wastewater. Your sump pump or down spouts, if you have any, should be directed to a suitable location such as possibly outside to your yard. If you need help understanding where your sump pump or roof leader is discharging to, the Sewer Department will be happy to help!

John J. Struzziery, P.E., Director of Wastewater Operations

Updates/Reminders

Sewer Bills: This billing period includes the Town Meeting approved increase of 7.5% in the sewer use rate. This reflects the increased capital expenditures being used to update and rehabilitate our sewer infrastructure.

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Unauthorized Sewer Discharges: The following **SHOULD NOT BE** disposed of down your drain to the sewer:

- Fats, Oils & Grease (FOG)
- Disposable Wipes (also known as "Flushable Wipes"-Baby Wipes-Makeup wipes-Cleaning wipes should not be flushed! Rather discard them in the trash.
- Dental floss, hair, nasal tissues
- Garbage Disposal Waste
- Any debris that may cause damage to your sewer plumbing or our sewer infrastructure

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See construction updates on back page

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Check status of construction projects and updates on our web page
<http://www.town.hull.ma.us>, click Town Departments and then Sewer Department (found under Public Utilities)



Also, check out our Facebook page by searching Hull Sewer Department through Facebook

Construction Project Update

"Sewer Construction Ahead-Expect Delays" Hopefully you have seen the message boards at either end of Nantasket Avenue advising that sewer projects have started and to expect delays. The first and most significant project in terms of community impact is the rehabilitation of the Nantasket Avenue interceptor sewer. For the next few weeks crews will be working between Kenberma Street and Lynn Avenue cleaning and inspecting the 36-inch diameter sewer. Once cleaning is complete, a sewer bypass system consisting of pumps and pipes will be placed on the surface of the road. This will perhaps be the biggest surface impact of the project as vehicles within the bypass zone will not be able to take a left turn and will need to detour right around the zone. Once the bypass is in place, a liner will be installed inside the existing pipe to form a new pipe within the pipe. All service connections will then be reinstated, and this section of sewer will be placed back in service. The operation will continue down the avenue in a similar manner each 1000 feet or so until the WWTF.



Pipe cleaning work zone

The other project expected to start the week of August 12th is the Atlantic Avenue Sewer Improvement Project. The project will rehabilitate and replace in some areas, most of the gravity and pressure pipe in the Atlantic Avenue area between Nantasket Avenue and Summit Avenue.

Remedial Constriction: Any sections of sewers or manholes that needs attention identified in advance of the roadway paving work will be corrected by various contractors. We have already replaced a number of manhole frame and covers and will be repairing two identified sections of defective sewers, as well as rehabilitating eight severely deteriorated manholes on Nantasket Avenue between Atlantic Avenue and School Street.

Additional information and updates on these projects will be posted on our webpage and Facebook page

Follow ongoing activities on our web page and Facebook page - See links in the front-page margin this Newsletter.

Other Projects

In addition to projects mentioned in the Operations Message, there are several other projects now underway:

- **Outfall Investigation:** We'll be performing a side scan sonar and a remote operating underwater vehicle inspection of the 24-inch diameter outfall pipe and diffusers that go from the last tank at the WWTF and discharge the treated wastewater approximately 2,700 feet offshore in the channel near Boston Lighthouse. From those inspections, we'll determine if there is need for other remedial work.
- **Headworks Rehabilitation:** We have reviewed alternative approaches to restore concrete surfaces and pipelines showing severe deterioration from the corrosive atmosphere in the Headworks. Construction is expected in the Fall.
- **Pump Station Upgrades and Resiliency:** We are evaluating pump station resiliency upgrades that address raising pump station structures and electrical equipment above the flood zone and sea level rise projections. Considerations include submersible or immersible pumps that can operate while underwater. Also included are aging piping and valve replacements. Pump stations included are at Draper Avenue, Marginal Road, Pemberton, and Valley Beach Avenue.

Pending Grants

Coastal Zone Management: We applied for a grant amount of \$260,000 for additional resiliency measures to protect the Wastewater Treatment Facility from sea level rise and storm surge and expect to hear on status shortly.

FEMA Hazard Mitigation Grant We also expect to hear shortly on another grant application in the amount of \$633,000 on a project to relocate essential electrical equipment and controls to the second floor of the administration building and replace critical equipment most important to operations.