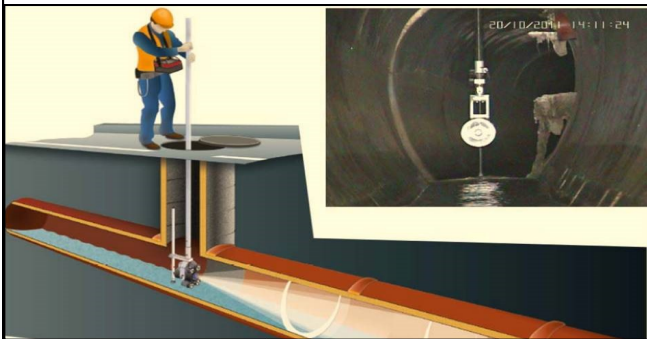


Upcoming 2019 Projects

Condition Assessment: This project will involve using a zoom camera to document the condition of all town stormwater infrastructure, with the goal of using that information to prioritize future utility investments. Throughout the fall, you may see crews in your neighborhood using this technology. All project work is planned to be completed by the end of 2018. Below is an example showing how this “zoom camera” technology works.



Phosphorus Control Plan: Phosphorus is a naturally occurring element that assists plants throughout their growth cycle. In high concentrations phosphorus negatively affects water quality and aquatic species habitat, and encourages the formation of algae blooms. Lake Champlain is impaired by phosphorus, and the Town is required to reduce our phosphorus outputs to the Lake by 20% before 2036. The utility has received \$40,000 in grant funding to prepare a phosphorus control plan that will include stormwater and water quality projects and programs that aim to divert phosphorus from the Lake.

Moorings Stream Stormwater Project: The utility received \$295,200 in grant funding to design and construct stormwater improvements in the Shore Acres and Cedar Ridge neighborhood. The design phase of the project will begin in spring 2019.

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781 Blakely Road
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CLEAN WATER NEWSLETTER

Town of Colchester

CLEAN WATER NEWSLETTER FALL 2018



Summer 2018 was a busy season for the Stormwater Utility. In this newsletter, learn about:

- 2018 Completed Projects
- Upcoming 2019 Projects
- Winter Snow & Ice Removal
- Website Updates
- Leaf Collection Update

Above: View from the Police Boat as the Causeway was inspected for damage in May 2018.

? Did You Know ?

The Stormwater Utility is part of the Department of Public Works, which is responsible for the planning, design, construction, maintenance, and operation of Colchester's roadways, sidewalks, bridges, Town building and park facilities, multi-use paths, and stormwater and wastewater systems.

Stormwater Project Updates

The stormwater utility funded and completed a number of projects over the summer. Where possible, we complete these projects prior to the roadways being included in the Town's Paving Program. This year's completed projects include:

- EAST RD:** Replacement & enlargement of a culvert to improve structural stability and to increase flood resiliency, \$33,000
RENKIN DR: Repair and replacement of over \$90,000 of storm piping and structures
MALLETTS BAY AVE: Structural improvements to large culvert by Pine Island Rd, \$18,000
HERCULES DR: The engineering and design phase of a culvert replacement project, for construction in 2019, \$150,000



Above: A look at the recently completed culvert replacement project on East Road. The existing 36" metal culvert was removed and a 48" HDPE plastic culvert took its place, with the surrounding area stabilized to prevent erosion. The HDPE plastic has proven to be more resilient to the freeze-thaw cycle that happens each year, and the larger size allows more water to pass safely under the roadway, increasing our resiliency in the face of more frequent and extreme storm events.

Winter Snow & Ice Removal

The Town takes the application of salt to our roadways very seriously. Over-application can result in damage to roadways and bridges from corrosion (increasing long-term costs to taxpayers), and excess salt entering our waterways after the storm. This affects plant and aquatic species negatively, as they have evolved to exist in fresh water ecosystems and become stressed in saltier waters. Please assist us in our efforts by considering the following when using salt on your property this winter:

- Use the right product—different chloride blends and products work at different temperatures
- Salt should be stored in airtight containers to minimize loss and maximize effectiveness
- Pre-treat walkways before the storm hits to limit post-storm usage
- Shovel early after a storm to minimize need for de-icing agents
- Only use on impervious surfaces, never on lawns or near wetlands or surface water bodies

The Colchester Department of Public Works owns six dump trucks with plows, two one-ton plow trucks, two sidewalk tractors, and a grader equipped with an underbody plow. These vehicles are used in the winter to maintain safe travel along:

- 92 miles of public roadway
- 31 miles of sidewalk
- 11 miles of multi-use path



Plow trucks have two-way radios and gauges that show the air and pavement temperatures, which are important because the use of road salt (sodium chloride) is only effective at temperatures above 20 degrees Fahrenheit. Under that temperature, sand is used for traction purposes after plowing. Each truck is equipped with sensors indicating how much material is spread on the roadway, both to control salt and sand use and track application rates.

Leaf Drop Off Update

The Town will not be hosting a Leaf Drop Off Event this year. We were very lucky to benefit from many years of volunteering efforts—a huge thank you to the Conservation Commission and the Chittenden Solid Waste District for their past donations. While the Town is investigating ways to offer this program in the future, there are still a number of CSWD Drop-Off Centers that accept leaf and yard waste free of charge from any Vermont resident:

Burlington: 339 Pine Street, Open Wed 9:30-5, Th 8-3:30, Sat 8-3:30

Essex: 218 Colchester Rd, Open Tues 9:30-5, Wed through Sat 8-3:30

Milton: 36 Landfill Rd, Open Mon 9:30-5, Fri & Sat 8-3:30

South Burlington: 87 Landfill Road, Open Mon, Tu, and Thurs 8-3:30, Fri 9:30-5, Sat 8-3:30

For more information, please visit CSWD.net and select the "Hours & Fees" tab.



Left: We had a beautiful day for the July 2018 triathlon, shown in this photo by volunteer Adam Cohen.

Stormwater Contact Information

To learn more about the Town's stormwater utility, visit:
www.colchestervt.gov/1837/StormwaterUtility

Water Quality Testing information can be found at:
<http://colchestervt.gov/487/Water-Quality-Results>

Water Quality Hotline: (802)-264-5628
For general stormwater inquiries: (802)-264-5620