

Grafton Sewer System Update

Town of Grafton | Board of Sewer Commissioners | April 2016 | Maintaining Your Sewer System

Infiltration and Inflow Reduction Program

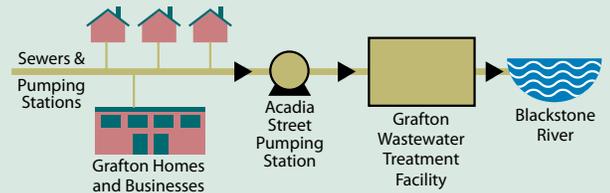
The Town of Grafton Sewer Department has begun conducting an Inflow and Infiltration inspection program as ordered by the Massachusetts Department of Environmental Protection and the United States EPA. The purpose of this inspection program is to identify those properties in town that have or potentially have illegal discharges to the town's sanitary sewer system. These illegal discharges allow excessive Infiltration and Inflow (I/I), which is extraneous flow (groundwater and rainwater) that enter the sewer system potentially causing sanitary sewer overflows (SSOs).



sewer infiltration (top left), roof gutter connection (top right), sump pump (bottom left), sewer overflow (bottom right)

The Grafton Sewer System

Sewage from homes and businesses enters the sewer system from building connections. Sewers and pumping stations transport the wastewater to the Acadia Street pumping station where it is pumped to the Grafton wastewater treatment facility. The treated wastewater is then discharged into the Blackstone River.



The Importance of I/I Control

Excessive I/I can cause many problems in the sewer system. Although most sewers are designed to carry some I/I, excessive quantities can overwhelm pipes and cause overflow of untreated sewage into the environment and backups onto streets and into private homes. Communities and residents must also pay to pump and treat this clean water once it enters the sewer system. Therefore, any I/I removed from the sewer system will help reduce flows and costs as well as prevent these adverse consequences.

Private Inflow Sources

Inflow from private sources such as sump pumps and floor/foundation drains have the greatest impact on the sewer system. During a rain event these sources discharge large volumes of clean water to the sewer and can quickly overwhelm the capacity of the system, resulting in overflows to the environment or backups onto the streets and into homes. It only takes a few sump pumps to cause major problems into the sewer system.

I/I Reduction Actions Needed Work to be Done to Eliminate/Reduce Inflow

The excess inflow entering the sewer system through improper (illegal/illicit) connections can only be addressed with your help. If you have an **ILLEGAL SUMP PUMP CONNECTION TO THE SEWER SYSTEM**. Please contact the Town of Grafton Sewer Department to discuss option to modify the plumbing on your property to permanently redirect your sump pump discharge to an appropriate location outside your house. Please note: your new chosen drainage location should not create a nuisance condition for your neighbors or be in the public right of way.

Options for exterior discharge include:

1. To your property, at least 5 feet from the building. Placing the drainage 5 feet



A cleaner and safer Blackstone River will benefit recreation and fishing.

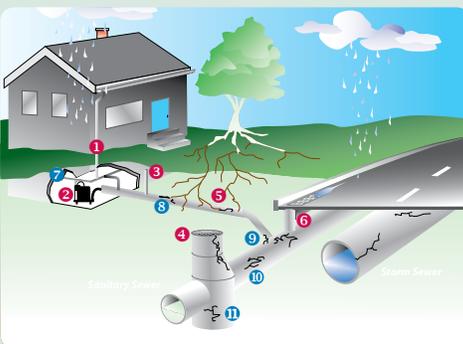
from your building lessens the likelihood of water reentering your structure or causing wet foundation conditions.

2. To a dry well or other in ground drainage system on your property.

3. Nearby storm drainage system. This provides you with the most reliable discharge location which avoids nuisance conditions on your property or those adjacent to you. However your site may not allow this option.

This work should be completed by a licensed contractor of your choice. If you have any questions or need assistance with regard to a sump pump or its removal from the sanitary sewer system please contact the **Grafton Sewer Department at 508-839-8526**.

Sources of Infiltration and Inflow



Inflow Sources

- 1 Roof Drain Connection
- 2 Sump Pump
- 3 Uncapped Cleanout
- 4 Faulty Manhole Cover or Frame
- 5 Root Intrusion Into Lateral
- 6 Storm Cross-Connection

Infiltration Sources

- 7 Connected Foundation Drain
- 8 Broken House Lateral
- 9 Faulty Lateral Connection
- 10 Cracked or Broken Pipe
- 11 Deteriorated Manhole

FOR MORE INFORMATION



Please contact:

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