



INFLOW & INFILTRATION (I&I)

WHAT IS I&I?

Inflow is stormwater that enters into the sanitary sewer system through illegal connections. Various sources contribute to the inflow including footing/foundation drains, roof drains or leaders, down spouts, and sump pumps. Illegal connections can contribute a significant amount of stormwater to sanitary sewer systems. A single sump pump can contribute over 7,000 gallons of water to a sanitary sewer system in a 24-hour period. The equivalent of the average daily flow from 28 homes.

Infiltration is groundwater that enters sanitary sewer system through cracks and/or leaks in sanitary sewer pipes or manholes caused by age related deterioration, loose joints, damage or root infiltration. Groundwater can enter the sanitary sewer system when the ground above the sewer system becomes saturated or when the line is located near or under a stream.

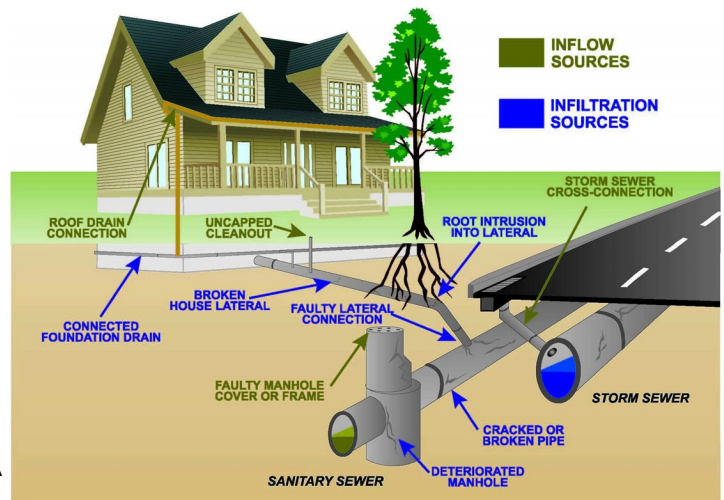
THE IMPACT OF I&I

Inflow and infiltration of stormwater and groundwater into a sanitary sewer system can reduce the efficiency of wastewater treatment and may cause sewage volumes to exceed the capacity of wastewater treatment facilities. Inflow and infiltration also increase operating costs proportional to the amount of clean water entering the wastewater treatment plant.

REDUCING I&I

WTMA is embarking on a multi-year project to significantly reduce the infiltration of groundwater into the sanitary sewer system. The Authority has physically inspected, and video-inspected, approximately 12 miles of sanitary sewer lines and over 300 manholes to identify those areas of the sanitary sewer collection system for repair.

Property owners can also reduce inflow by disconnecting sump pumps from the sanitary sewer system, redirecting roof runoff, or replacing broken vent caps and cleanout covers. Vent caps and cleanout covers can be purchased at the WTMA office.



PAYMENT OPTIONS

- **Cash, check, debit/credit card or money order**

- **By mail.** Please make your check payable to:
WTMA
PO Box 336
Lititz, PA 17543-0336

- **In person (during regular office hours, Monday - Friday 8am-4:30pm):**
315 Clay Road
Lititz, PA

- **24/7 Payment Dropbox.** There is a payment dropbox inside the Warwick Twp. Municipal Building lobby.

- **Automatic ACH Payments.** Quarterly withdrawal from your bank account by the due date.

- **Online payment through Authority Pay.** Note: only the WTMA water/sewer bill can be paid online. **Invoices can not be paid by credit card.**

- **MasterCard, Visa, American Express and Discover credit or debit cards.** Please note that there is a minimum fee of \$3.00 for all transactions and a 2.65% fee for transactions over \$113.00.

eBills

Signing up for eBills allows you to eliminate your paper billing and view your billing, payment and usage history. Sign up is easy. All you need is a valid email address and some information from your most recent bill. Sign up at <https://warwicktpw.authoritypay.com>.

