

# Inflow & Infiltration Identification

**Step 1:** Figure out if you have an inflow and infiltration issue



**LIFT STATION**

Runs for longer than normal or has frequent starts or stops after rain events.



**PIPES BACKUP**

Basements flood, manholes spill wastewater onto roads or green space.



**FLOW SPIKES**

Wastewater treatment plants see significant spikes in flow.

**Step 2:** Methods used to identify I&I Issues:

**Step 3:** Potential next steps:



**FLOW MONITORING**



Identify Problem Areas



Isolate High I&I



**MANHOLE INSPECTIONS**



Replace Covers



Grout Joints



Line Manhole



**SMOKE TESTING**



Fix Cleanout Caps



Disconnect Roof Drains



Eliminate Cross Connections



**DYE TESTING**



Fix Cleanout Caps



Disconnect Roof Drains



Eliminate Cross Connections



**CCTV OR ELECTROSCAN**



CIPP



Dig & Replace



Chemical Grouting



**PRIVATE PROPERTY INSPECTION**



Sump Pump Relocation



Foundation Drain Disconnect



Service Lateral Lining