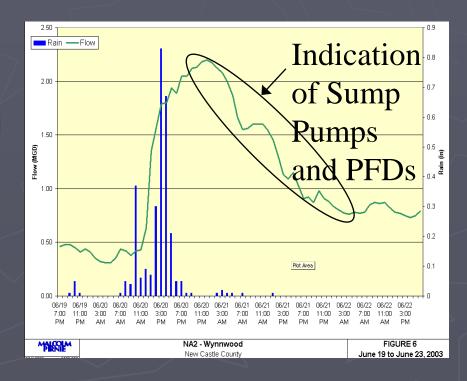
Clearwater Removal Program

December 1, 2009

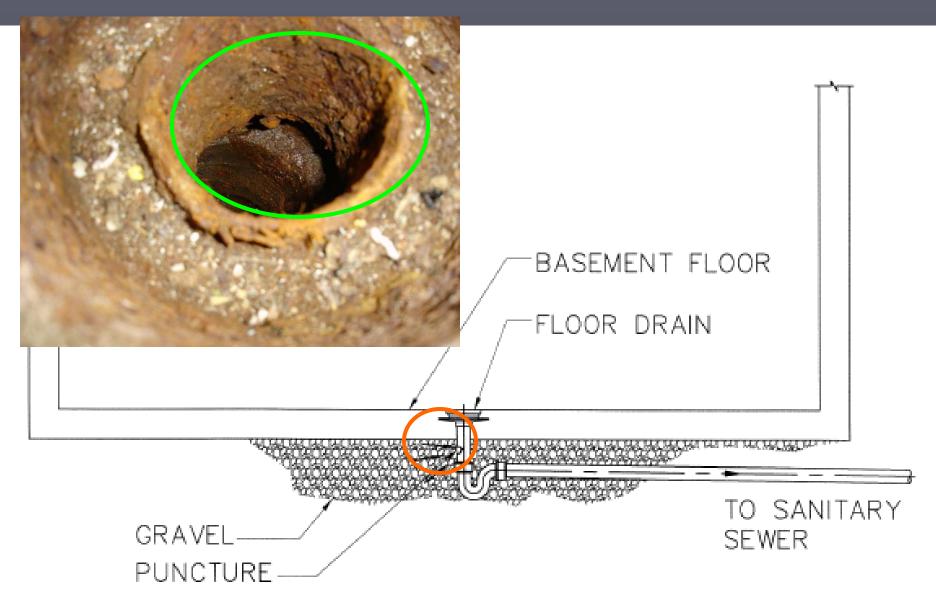
What is a clearwater connection?

A connection that conveys groundwater or stormwater into the sanitary sewer:

- Sump Pump
- Roof Drain
- Punctured Floor Drain
- French Drain



Punctured Floor Drain



Sump Pump

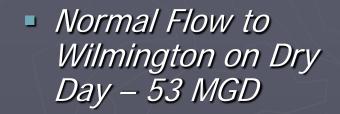




County Code

- Clearwater connections to sanitary sewer are prohibited per Chapter 6, Article 7 of the New Castle County Code:
 - "It shall be unlawful for any person to connect sump pump, French drains, area drainage, storm drainage, roof drainage, swimming pool drainage, or drainage from any device directly or indirectly into any public or private sewer..."

~1/3 of Peak Flow from Brandywine Hundred comes from Residential Clearwater Connections



- Water Farm No. 1 Capacity – 1.8 MGD
- Brandywine 100
 Clearwater 25 to
 50 MGD

Cost Comparisons – 28 MGD

Convey and Treat - \$189M
Storage - \$122M
Sewer Rehab - \$84M
Clearwater (NCC pays an incentive) - \$5M