

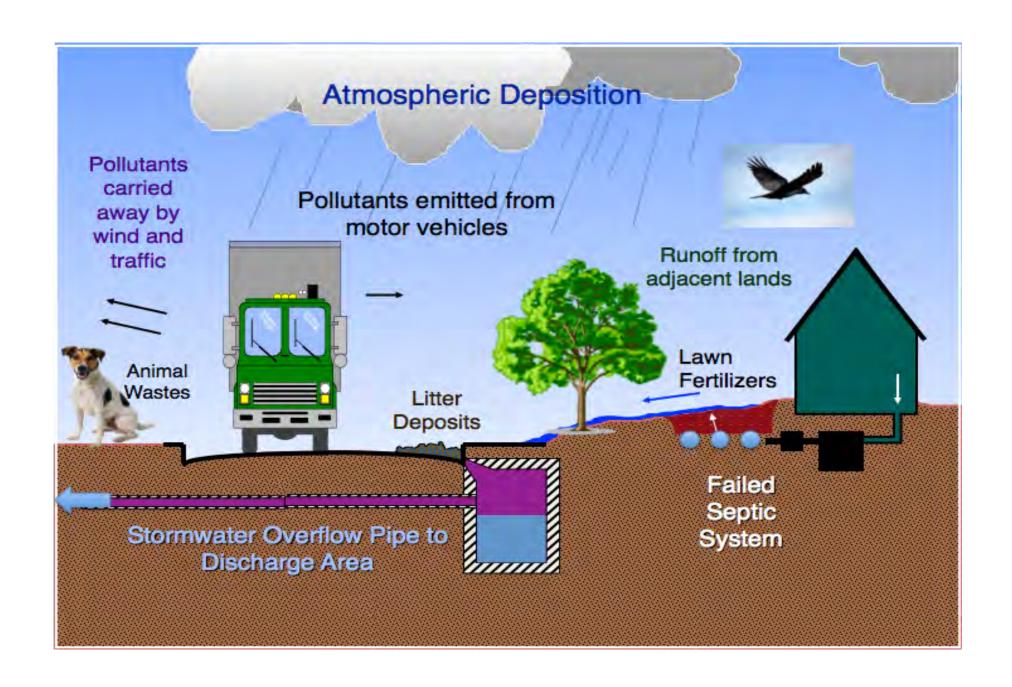
Summary of Stormwater Runoff Pollutant Effects

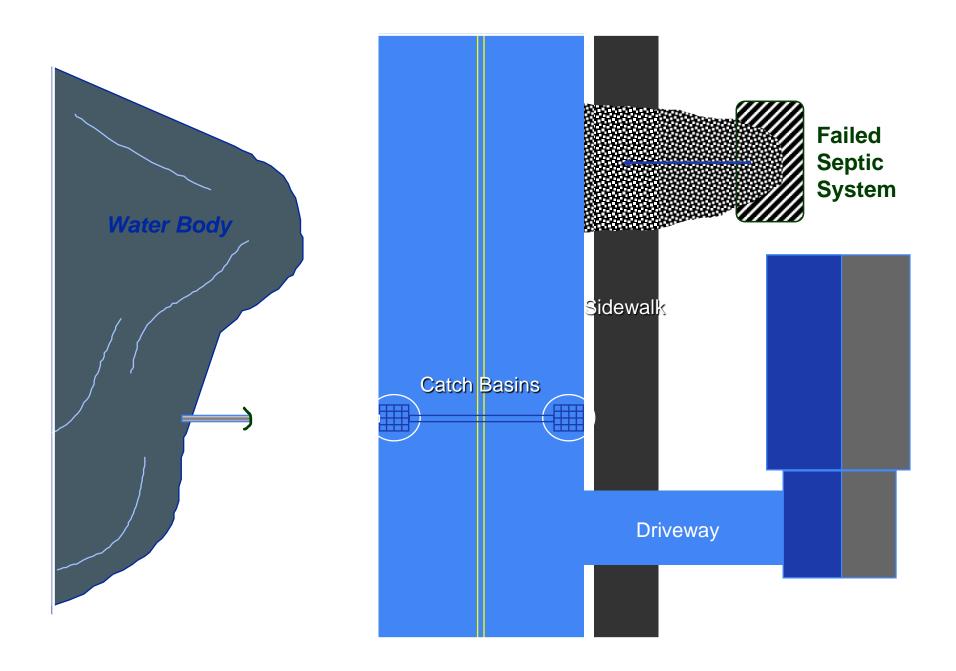
- Sediment
- Thermal Stress
- Nutrients
- Oxygen-Demanding Organics
- Toxic Substances
- Pathogens
- Stream Discharge

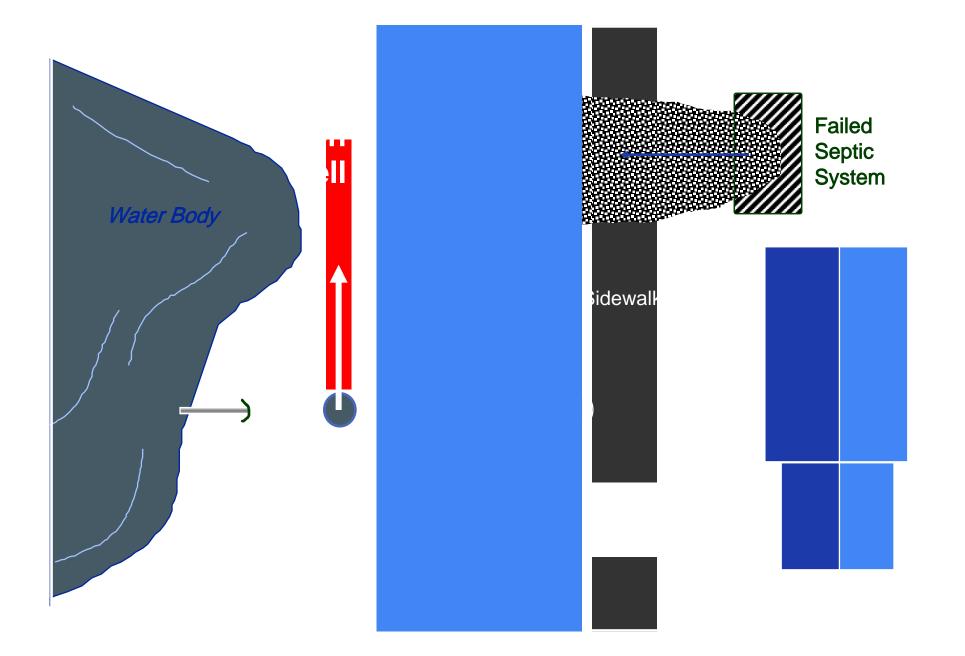












Nitrogen & Pathogen Sources that contribute to stormwater

Can we control them at their source?



PooPrints



BEFORE YOU BEGIN

Ensure all Resident Information has been entered into the DNA World Pet Registry before mailing a swab to the lab. Please collect DNA from one dog at a time. If you have multiple pets, separate them one hour prior to swabbing and keep them from eating, using shared toys, or shared water bowls during this time.

Please read all instructions and Helpful Hints before you begin to ensure a successful collection.

SWAB YOUR PET

of the cheek is a good place to start.



B) Using one swab at a time, rub the swab in a circular motion between the dog's gum and cheek for about 10 seconds. Use your hand to gently press the outside of the cheek to ensure good contact with cheek cells. Repeat with second swab.



C) Allow the swabs to air-dry for 15-30 minutes or more, as some dogs produce more drool than others. Once completely dry, return the swabs to the paper sleeve and label the sleeve with the pet's name.



Helpful Hints

to your resident.

- 1. DNA is found in cheek cells, not saliva. Ensure swabs are used between the dog's cheek and gum. Swabs should appear slightly discolored after collecting a quality sample.
- 2. If you don't think you've collected enough cheek cells, repeat with the same swab in the same dog's cheek. Do not use the swab on a different dog.
- 3. Swabs must be completely dry before placing in the paper sleeve. If swabs are placed back in their paper sleeves still damp, bacteria may grow on the weaks, destroying the DNA.

 4. Some dogs mouths are wetter and some are dryer than others. Please allow for extra swabbing and/or drying time.
- 5. If your dog's mouth is too dry, offer a drink of water or dampen the swab tip prior to collection

It is suggested that residents swab their own pets, assisted by community management, a PooPrints Distributor or other trained staff member.

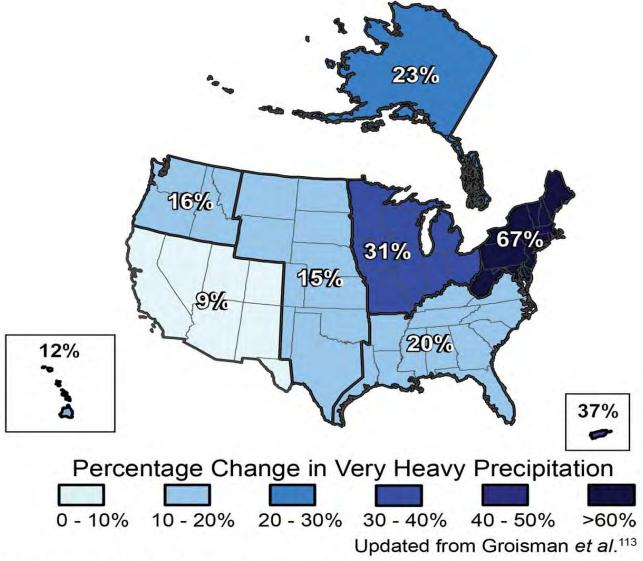
Next Steps: Ensure the Resident Information has been entered into the DNA Don't forget the green tag! World Pet Registry before mailing a swab to the lab, Give this Thank You card

The Community Admin will mail the dry swabs with the Resident Information Card to BioPet Vet Lab for processing.

CANADA STREET, COMMERCIAN DE LA COMPANION DE L

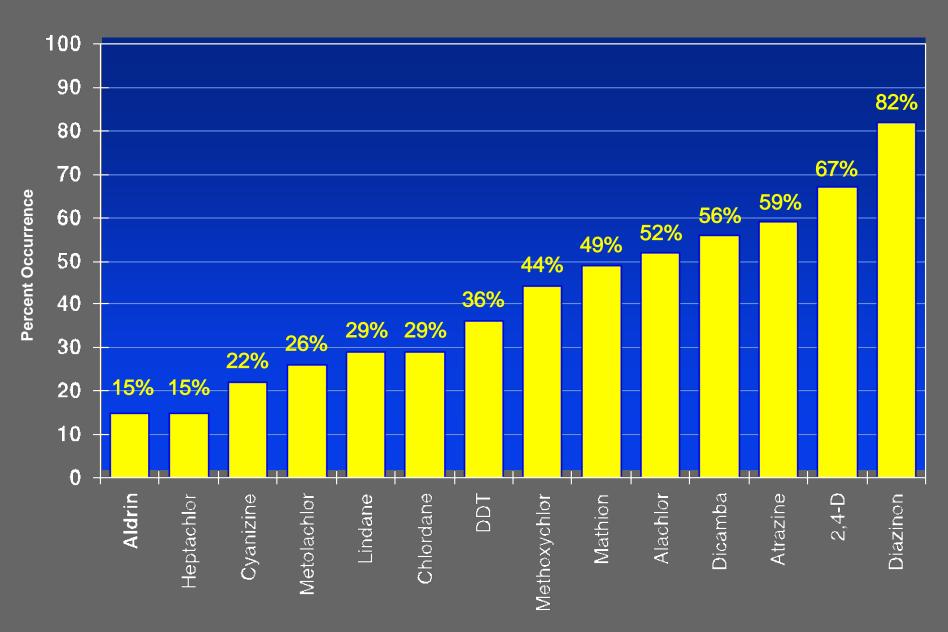




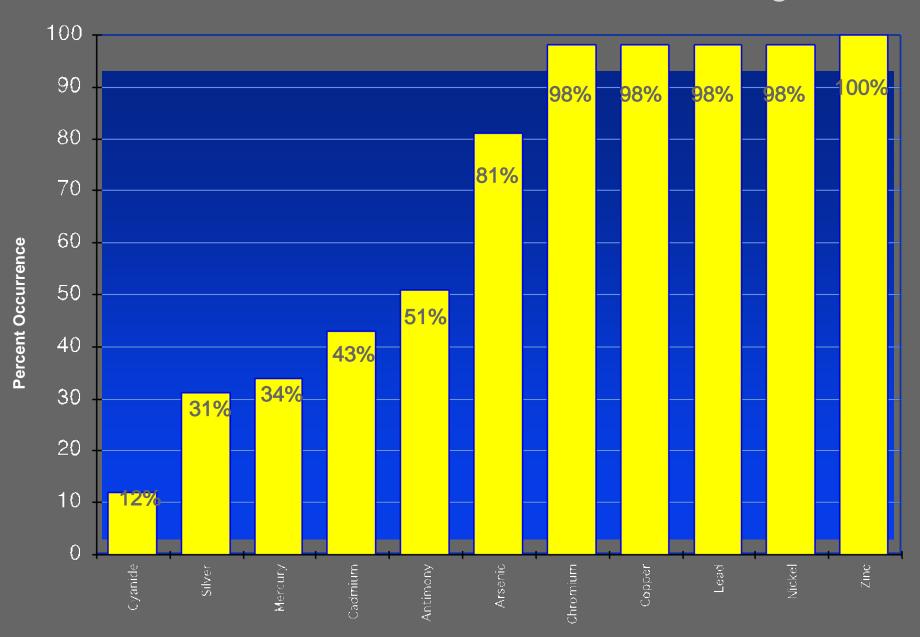


The map shows the percentage increases in very heavy precipitation (defined as the heaviest 1 percent of all events) from 1958 to 2007 for each region. There are clear trends toward more very heavy precipitation for the nation as a whole, and particularly in the Northeast and Midwest.

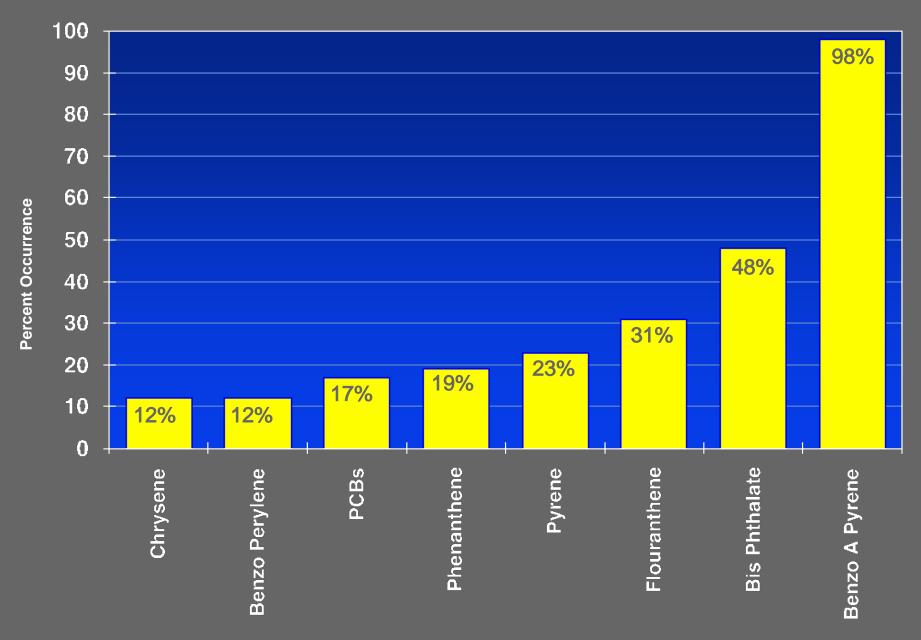
Pollutants in Urban Runoff - Pesticides



Pollutants in Urban Runoff - Metals & Inorganics



Pollutants in Urban Runoff - PAHs, PCBs & Plasticizer

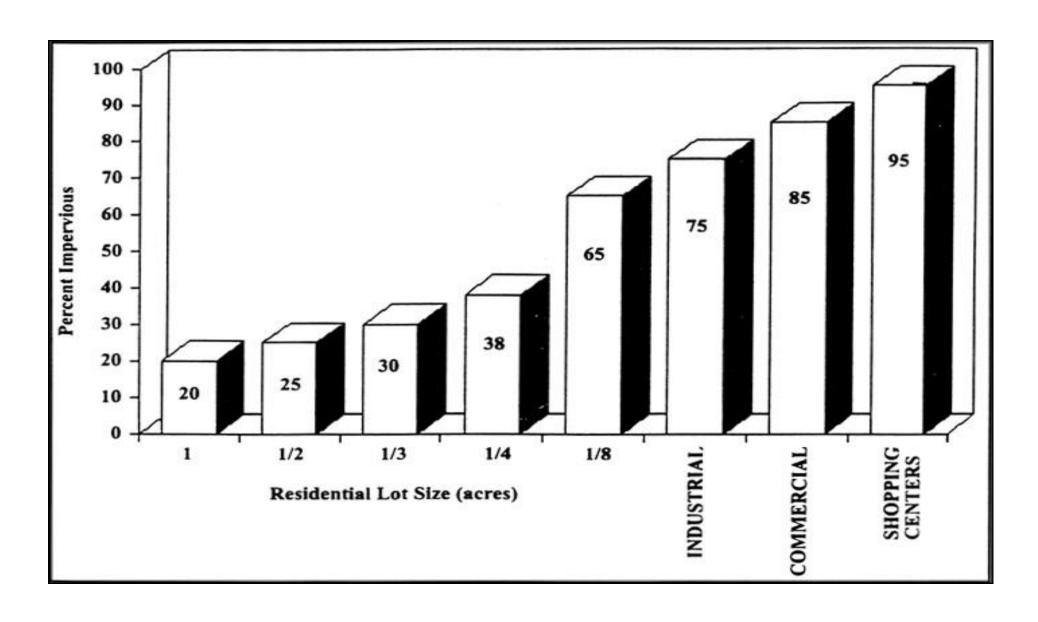




Ellin



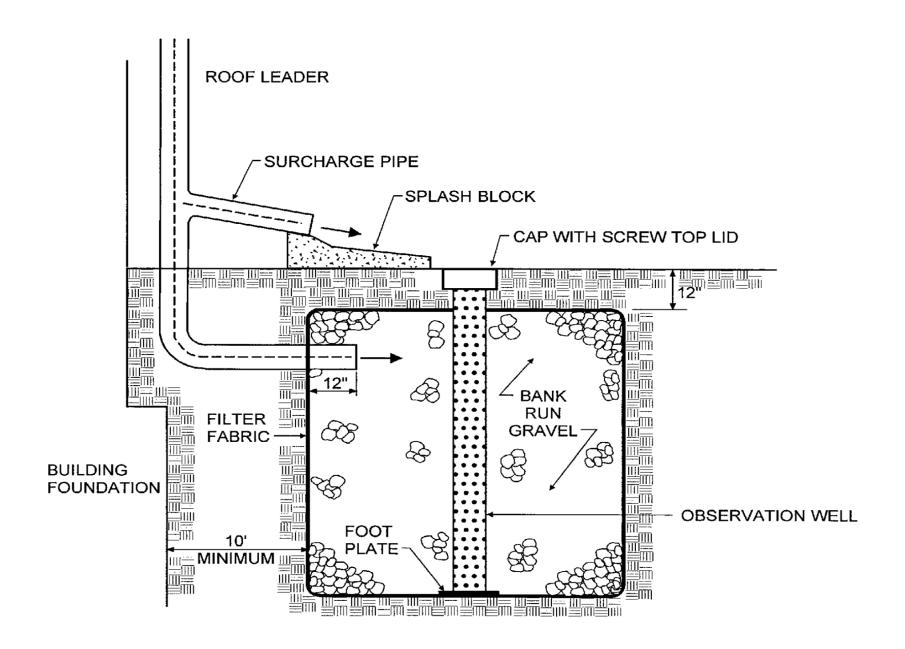
Impervious Area and Types of Development





connected impervious surfaces increase volumes and rates of stormwater runoff



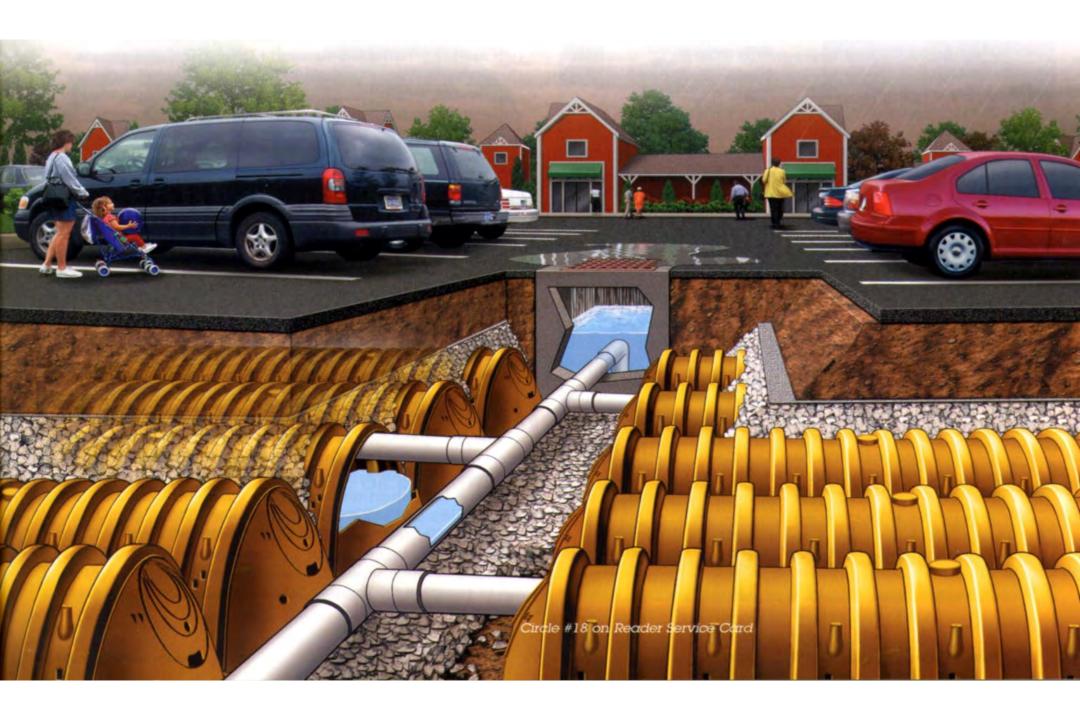


Dry Well Infiltration of Roof Runoff



Disconnection of Rooftop Runoff to Vegetated Swale





Permeable Pavement



Vegetated Swales Conveyance, Treatment, Infiltration

- Roadside swales ("country drainage") for lower density and small-scale projects
- For small parking lots
- Mild side slopes and flat longitudinal slopes
- Provides area for snow storage & snowmelt treatment



Bioretention Applications

- Parking lot islands
- Median strips
- Residential lots
- Office parks







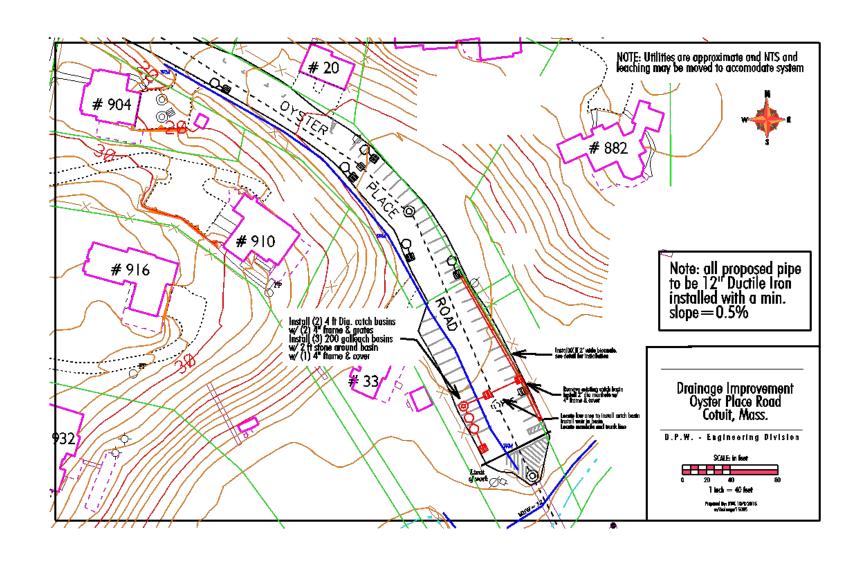




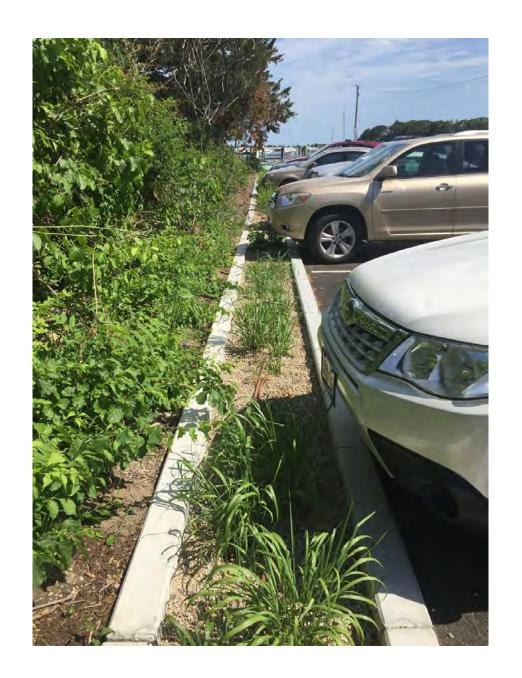


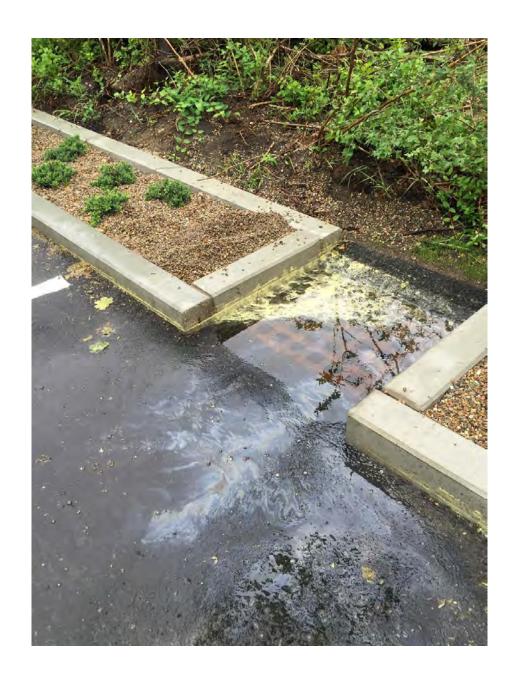
Case Study: Bioretention - Cotuit **Town Dock**



















Stormwater Practices for Smaller Projects (Residential)



Rain Garden

Infiltration of Roof Runoff





Rain Barrel – Use for Irrigation

Stormwater Practices for Larger Projects (Businesses, Roads)



Infiltration (Subsurface Chambers)

Vegetated Practices
(Bioretention,
Constructed Wetlands)





Mill Pond Road

Country Drainage



