KYTC New MS4 Permit Issued August 8, 2012

Background

- 1972 Clean Water Act
- 1991 Large & Medium MS4s
- 2003 sMS4 KYTC Copermittee
- 2012 KYTC MS4 Permit

KYTC Permits

- KYR10 Construction
- KYG50 Maintenance Facilities
- KYSo3 sMS4

Part I

- Applicability
 - KYTC ROW & Facilities located within urbanized boundaries of MS4s Across the State

PART II SWQMP

- Develop a SWQMP to Comply with MCMs
 - MCM I Public Education & Outreach
 - MCM II Public Involvement/Participation
 - MCM III IDDE
 - MCM IV Construction Site Control
 - MCM V Post-Construction management
 - MCM VI Good Housekeeping
 - TMDL (Total Maximum Daily Load)

MCM I

Public Education & Outreach

- Public Awareness
- Revise EA Handbook & Training
- UKT2 Training
- Revise KYTC MS₄ Website
- Participate in "Partner" Programs
- Update MOP

MCM II

Public Involvement and Participation

- Adopt-a-highway
- State Fair
- Rest Areas
- KEEN
- Statewide Survey
- Participate with "Partners"

MCM III

Illicit Discharge Detection and Elimination

- Develop Program
- Training
- Mapping > 36" Diameter
- Utilize Partnerships
- Inspect in perpetuity

MCM IV

Construction Site Stormwater Runoff Control

- Develop Program
- Comply w/KYR10
- Individual Construction Permits
- Training KEPSC-RI
- Track NOIs & NOTs

MCM V

Post-Construction Stormwater Management in New Development & Redevelopment

Ron Will Review

MCM V

Post-Construction Stormwater Management in New Development & Redevelopment

 Develop a Menu of Structural and non-Structural Post Construction Stormwater BMPs

Regularly Update Drainage Manual

WHAT ARE PC BMPs?

- A water quality structure that has been left in place once construction has concluded.
- What is the most common KYTC PC BMP? Hint: It is Green.
- Examples

Karst (Sink Hole) Protection





Infiltration Basin

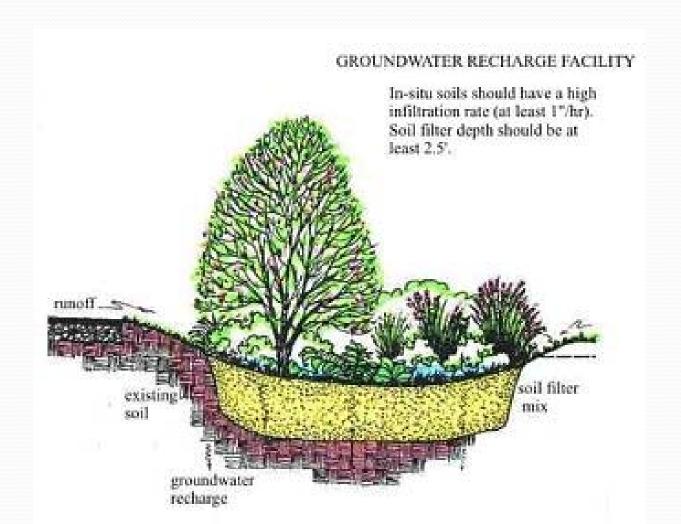


Infiltration basins are designed to collect stormwater from impervious areas and provide pollutant removal benefits through detention and filtration

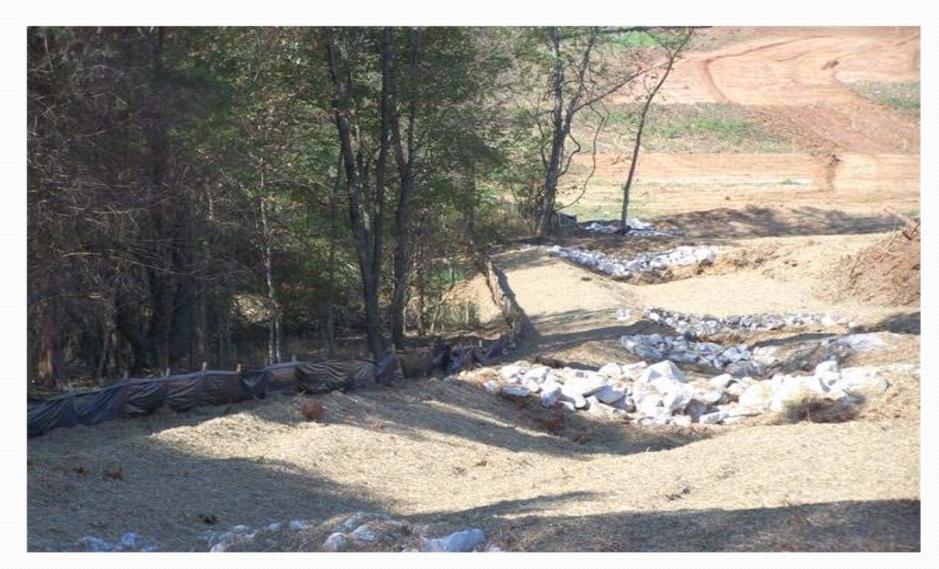
Infiltration Trench



Bioretention



Rock Check Dams



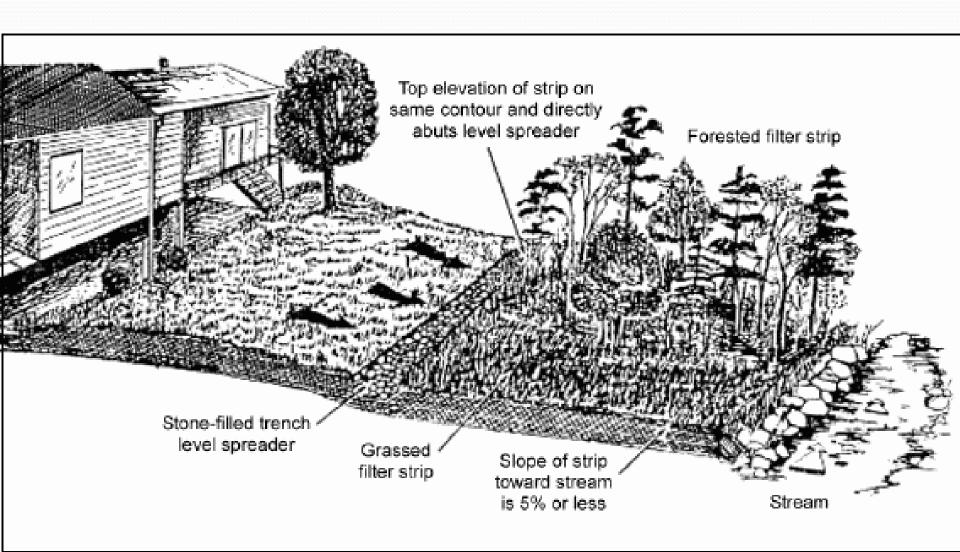
Bioswales (Grass swales)



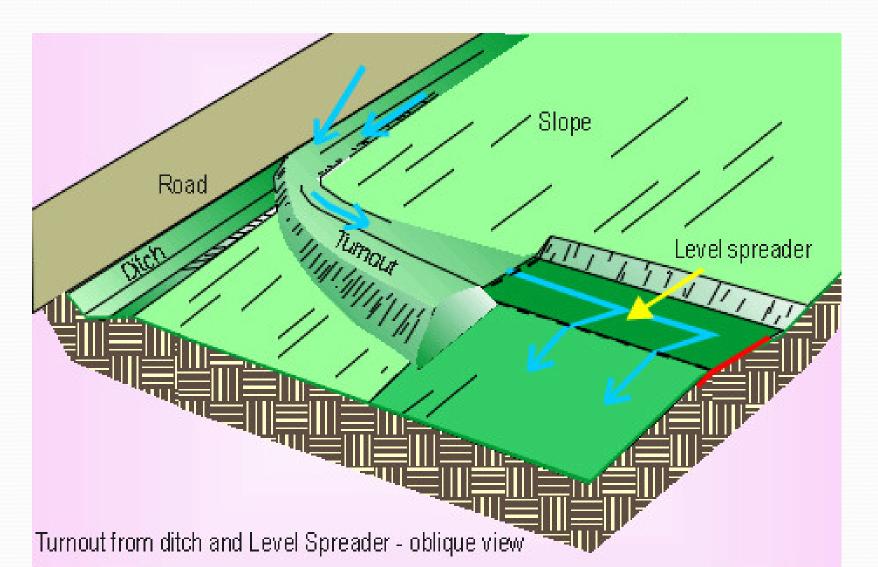
Grass Filter Strips



Vegetated Filter Strips



Level Spreader



Detention Pond



MCM V

Post-Construction Stormwater Management in New Development & Redevelopment

- Preformed Scour Hole
- Porous Asphalt Pavement
- Pervious Concrete Pavement
- Eliminating Curbs and Gutters
- Wet Ponds

MCM VI

Pollution Prevention/Good Housekeeping for Operations & Maintenance

- Develop Program
- Includes Roads, D.O. Rest Areas & Maintenance Yards
- Inventory & Assess
- Update EA Handbook
- Quality Control Facility Plans

TMDLs

- Division of Water establishes TMDLs
- TMDLs are Primarily for Fecal Coliform
- KYTC and MS4 Community collaborate

That's All Folks