

# Urban Tree Planting and Tree Canopy Expert Panel

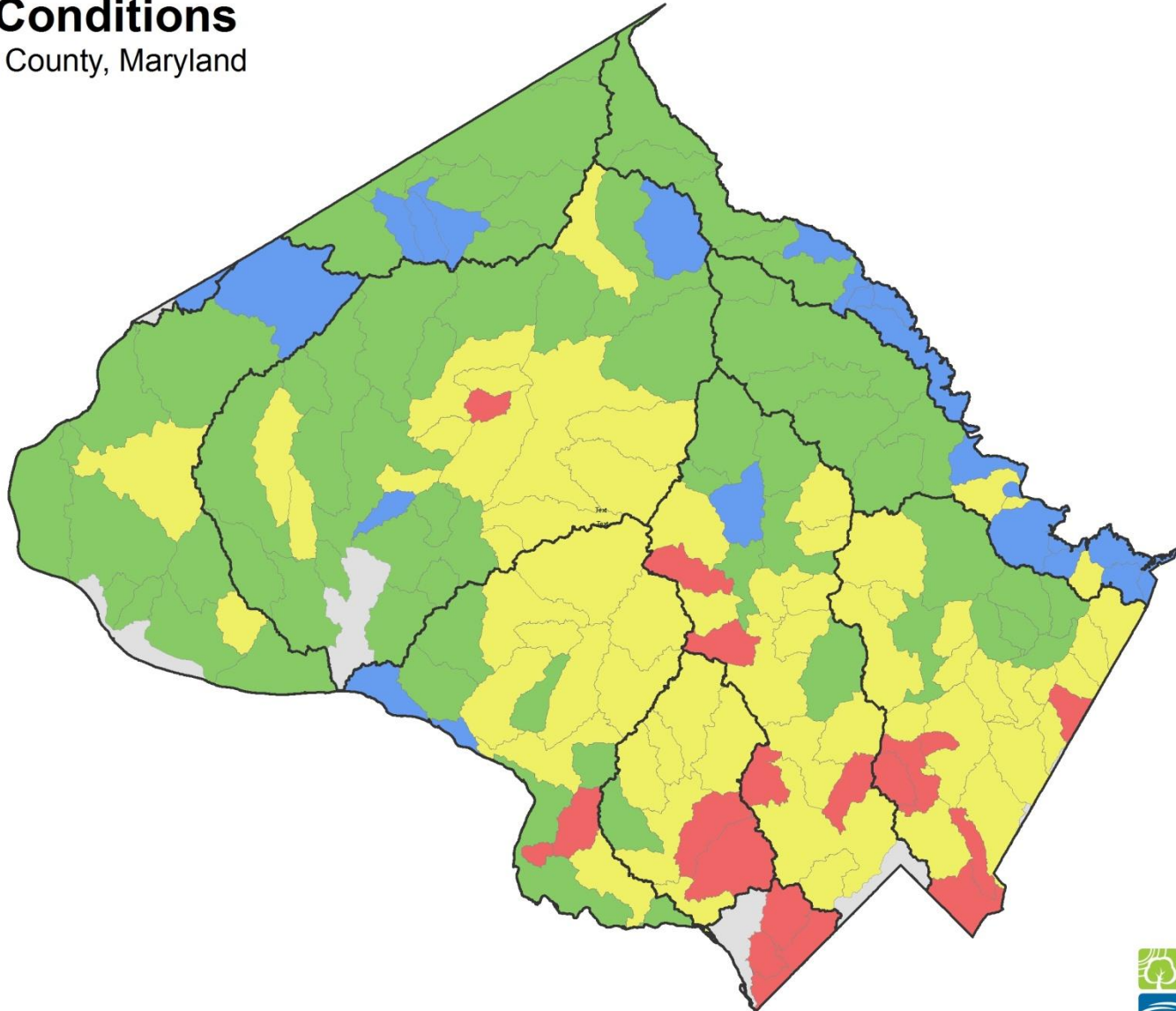
Montgomery County Department of Environmental Protection

June 3, 2015



# Stream Conditions

Montgomery County, Maryland  
2001-2013

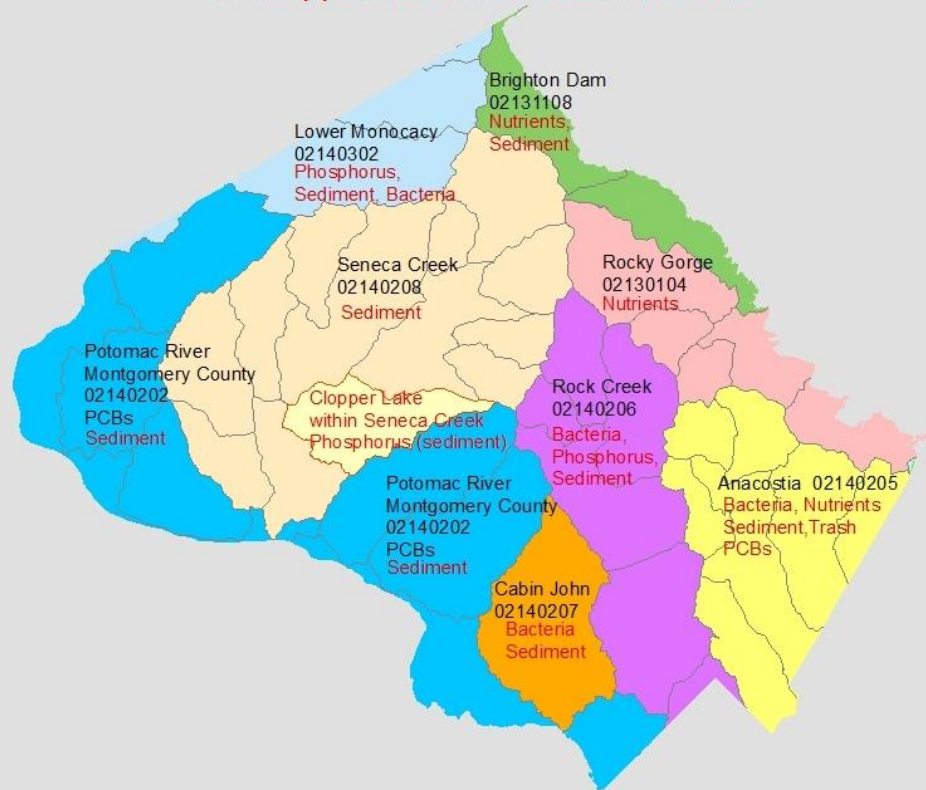


-  Excellent
-  Good
-  Fair
-  Poor
-  Not Monitored



# County Watersheds on Maryland's Impaired List January 2014

EPA approved TMDLs shown in red



Numbers represent 8-digit State Codes  
Boundaries are for 12-digit watersheds  
All County 8-digit watersheds show biological impairment



# Montgomery County

- Large Phase I Municipal Separate Storm Sewer System (MS4) jurisdiction
- Recent permit requires completion of retrofit of 10% of untreated impervious from last permit and an retrofit of an additional 20% of untreated impervious area. Total requirement of approximately 6000 acres.
- Looking for innovative ways to treat impervious area including tree planting

# Why do we plant trees

- Stream Restoration
- Habitat restoration
- Canopy tree goals
- Stormwater management
  - Parking lot canopy interception
  - Conservation landscapes designed to convert lawn to native plantings
  - When infiltration isn't an option but evapo-transpiration and interception would help
  - To slow erosion/ reduce sediment loss



# Programs that Plant Trees in the County

- County Tree Canopy Law
- State and County Roadside Tree Law
- Watershed Restoration Program
- State and County Forest Conservation Law
- RainScapes
- Maryland Reforestation Act
- County Landscaping requirements through the development process
- Montgomery Parks
- Environmental Groups

# Criteria for Impervious Credit

- **MDE Criteria for MS4 credit involving reforestation credits** – must have 100 trees/acre or greater with at least 50% trees having a diameter of 2 inches (DBH) at 4.5 feet above ground
- **Impervious Cover Credit for Individual Trees** – CWP developed a technical memo for MDE's review and consideration. The intent was to seek impervious credit for individual trees originally planted through the Rainscapes Rebate Program.

# Data Collected for Tree Planting

- Date Planted
- Species
- Size of tree at installation
- Location
- Minimum survival rate (FCA and ACOE permit)