Stormwater 101

Hana Berres Jefferson County Stormwater Program City of Bessemer Stormwater Department Lunch and Learn August 13, 2022



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WATER

- ➤ Is everyone's problem whether too much or not enough
 - Vital to every living thing
 - 2/3 of the human body is made up of water
- ➤ Is the universal solvent absorbs what it comes in contact with
- ➤ Is a finite resource
 - Water Cycle

3 sectors of use in Alabama:

- · Agriculture
- Public supply
- Industry

Reference: Alabama Watershed Stewards

Alabama's Characteristics (hint: the reason runoff is such an important issue to discuss)

Rain

- Average rainfall 55 inches a year
- Weather is extreme – either too much, or not enough

Soils

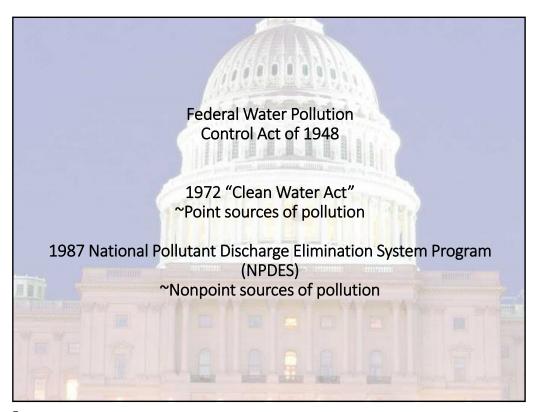
- Old and weathered, heavily compacted
- Clay and chert

Waterways

- 10% of the nation's fresh water in the continental US starts in or flows through our borders
- Alabama is divided into 16 river basins with over 132,000 miles of rivers and stream channels

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Jefferson County Stormwater Program

NPDES Permit ALS000001 Phase I MS4 Requirements

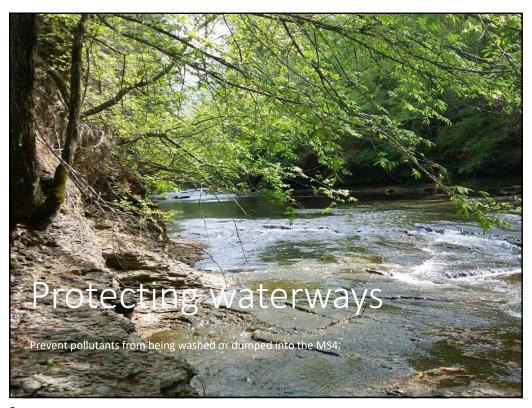
- Structural controls
- Public Education and Public Involvement
- Illicit Discharge Detection and Elimination
- Construction Site Storm Water Runoff Control
- Post Construction Stormwater Management; New and Redevelopment
- Spill Prevention Response
- Pollution Prevention / Good Housekeeping
- · Pesticides, Herbicides, Fertilizers
- Oils, Toxics, and Household Hazardous Waste Control
- Industrial Storm Water Runoff
- Monitoring
- Inspections and Enforcement

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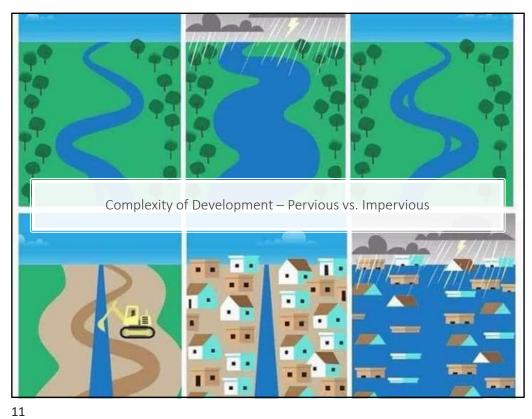
Local Stormwater (MS4) Programs

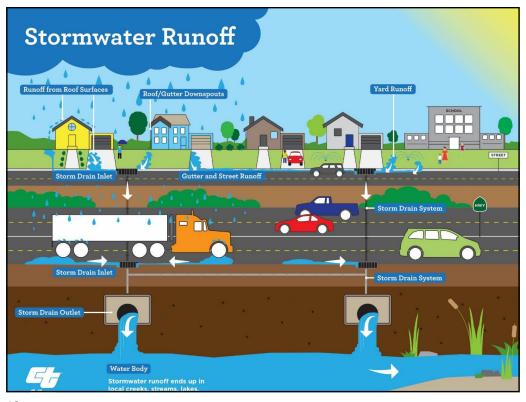
- ➤ City of Bessemer
- > City of Birmingham
- > City of Hoover
- > City of Leeds
- > Jefferson County Commission
- > Jefferson County Department of Health Watershed Division Program
 - Implements various stormwater requirements on behalf of Storm Water Management Authority, Inc. (SWMA)

Adamsville – Brighton – Brookside - Center Point - Clay – Fairfield Gardendale - Graysville – Homewood -Hueytown – Irondale – Lipscomb Maytown – Midfield Mulga - Mountain Brook – Pinson - Pleasant Grove Tarrant – Trussville - Vestavia Hills





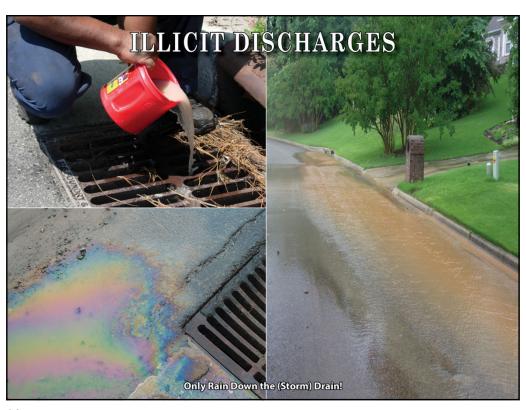




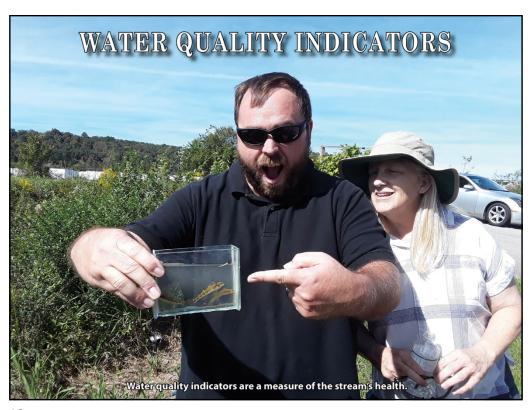


Stormwater Drainage Systems prevent streets from flooding by transporting rain to the nearest waterway with NO FILTRATIION OR TREATMENT.

Include gutters, curb inlets, open ditches, and pipes.

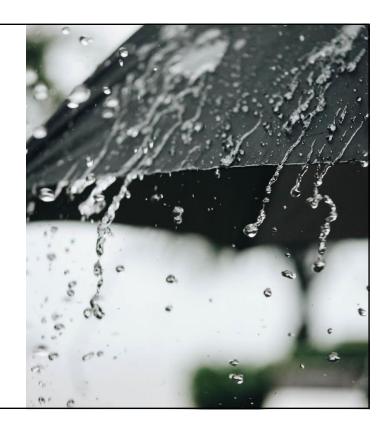




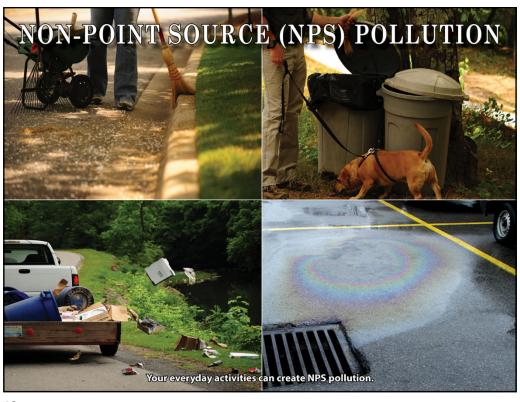


How does rainwater get polluted?

Does it really matter what rain comes in contact with before it flows into the waterways??

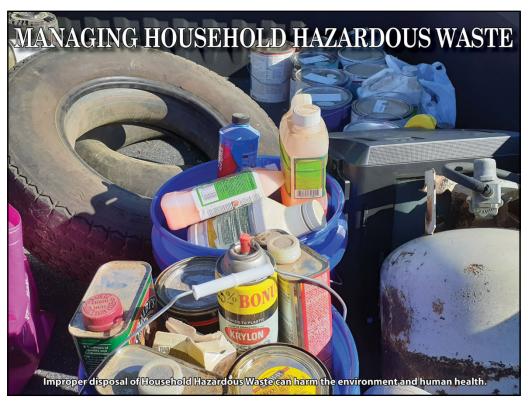


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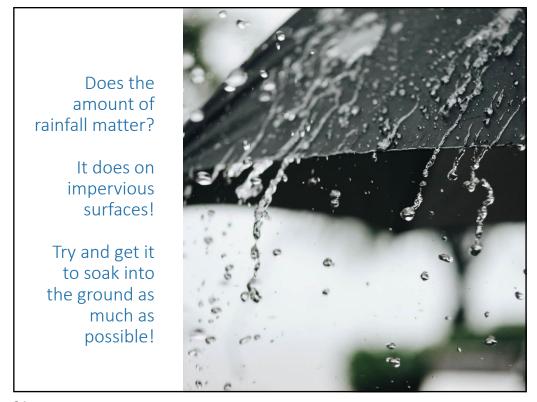


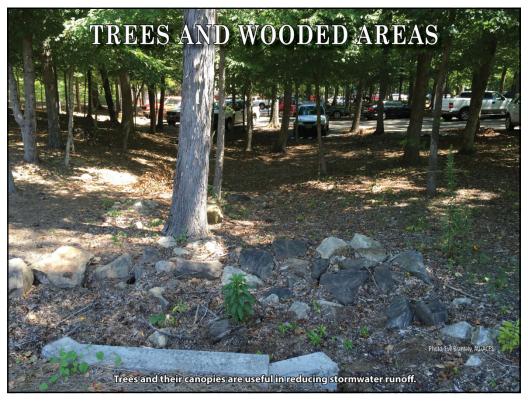




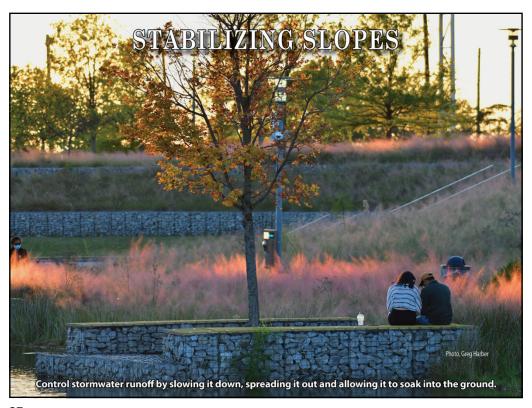


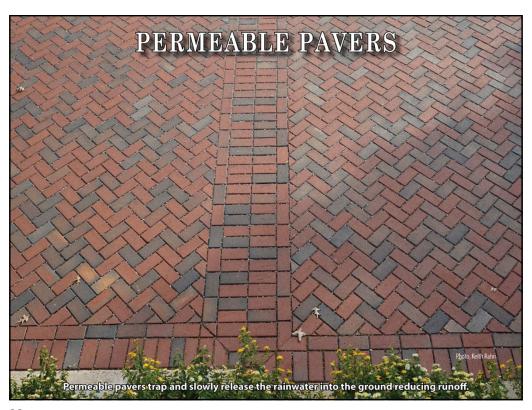


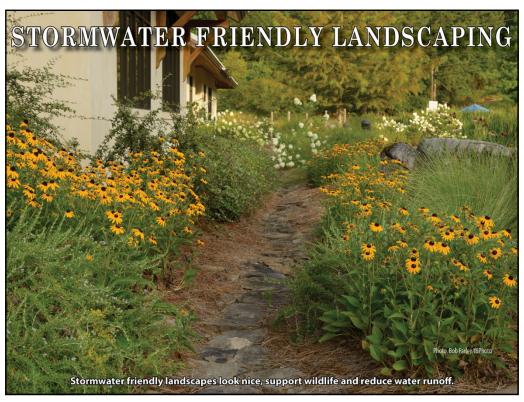












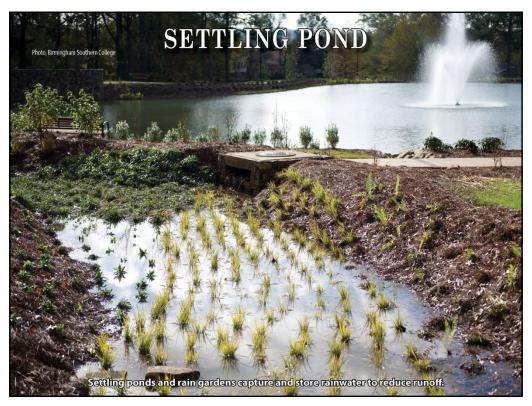


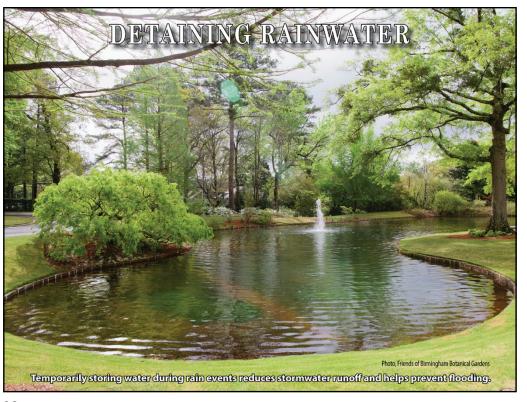






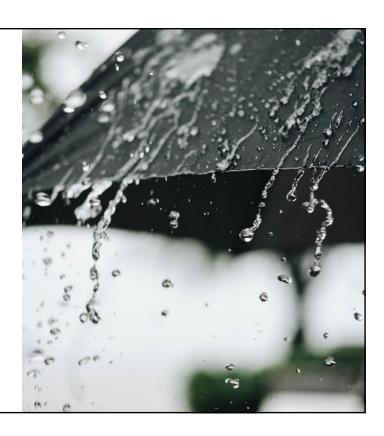




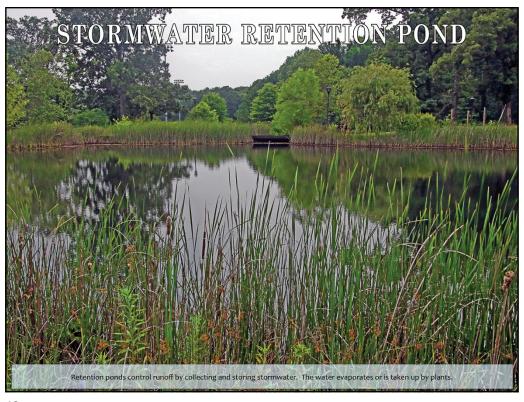




Retaining rainwater is helpful when trying to reduce flooding and polluted runoff.









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Jefferson County Stormwater Water Program

http://www.jccal.org/Default.asp?ID=2022&pg=Community+Outreach

