



Stormwater Utility Outreach and Education Program



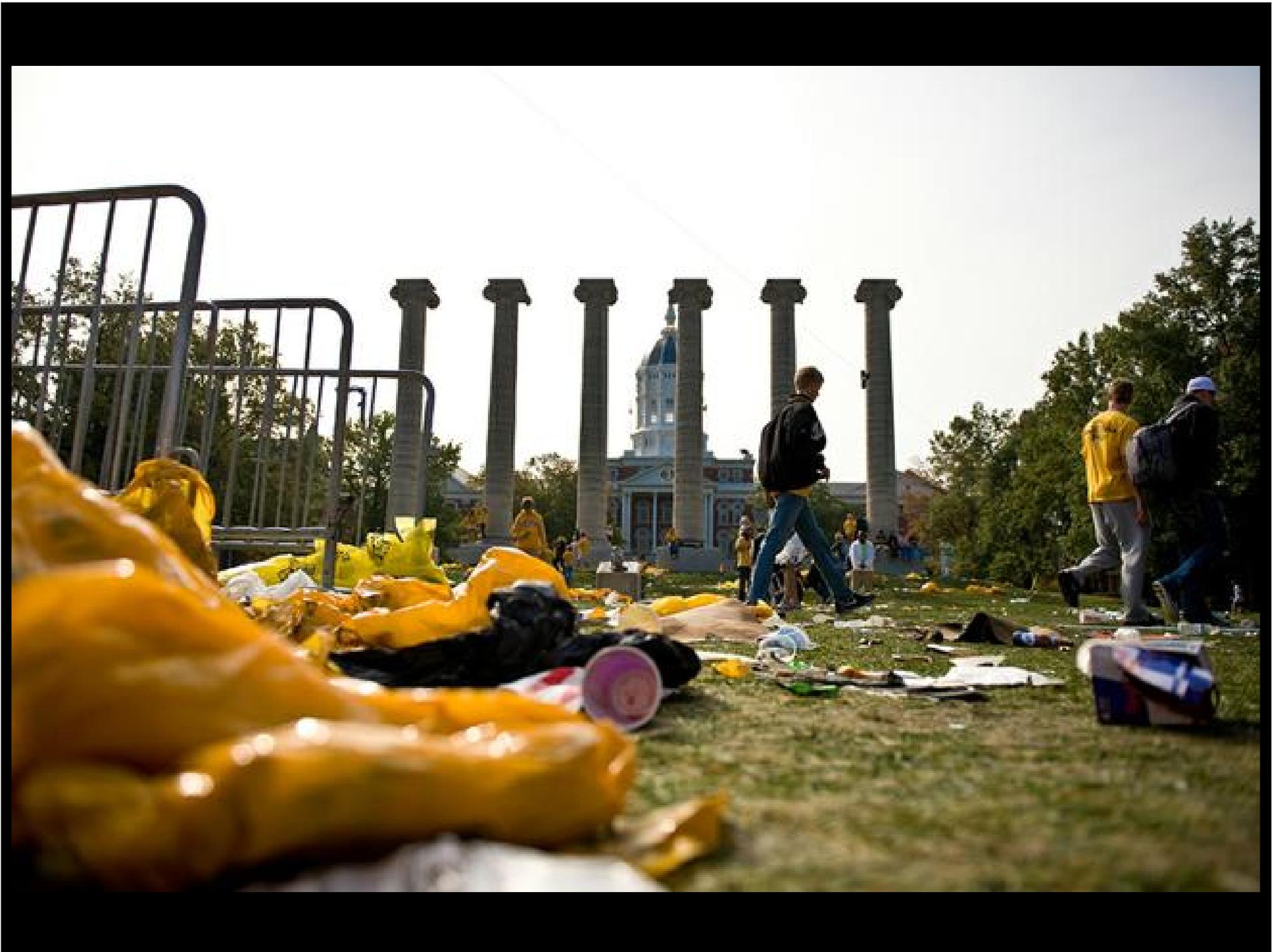
Mike Heimos

Stormwater Educator for the City of Columbia, Missouri











MS4 Permit

Municipal
Separate
Storm
Sewer
Systems

Municipal **S**eparate **S**torm **S**ewer **S**ystems
Permit

Permit Partnership

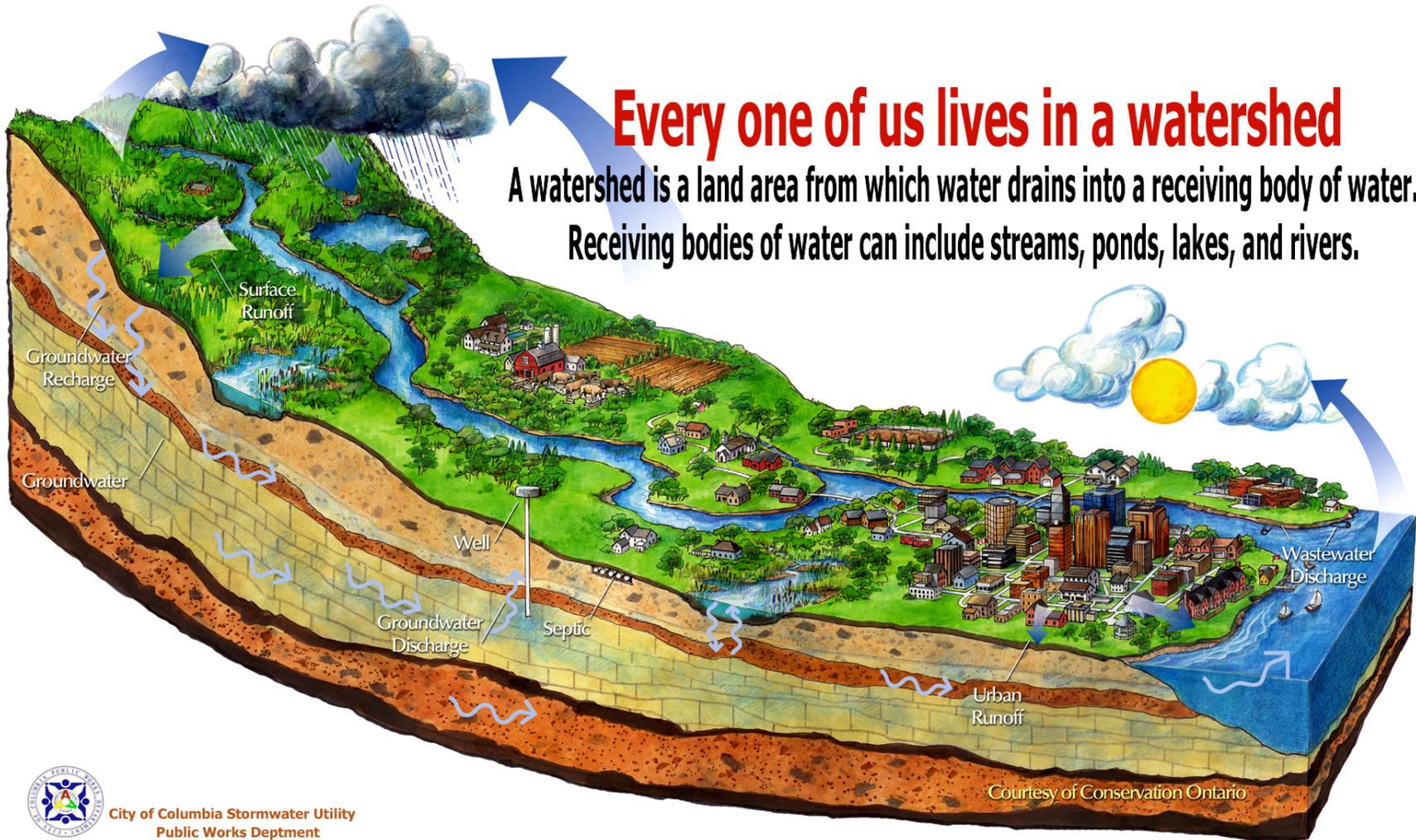
Show-Me
STORMWATER
management



What is a Watershed?

Every one of us lives in a watershed

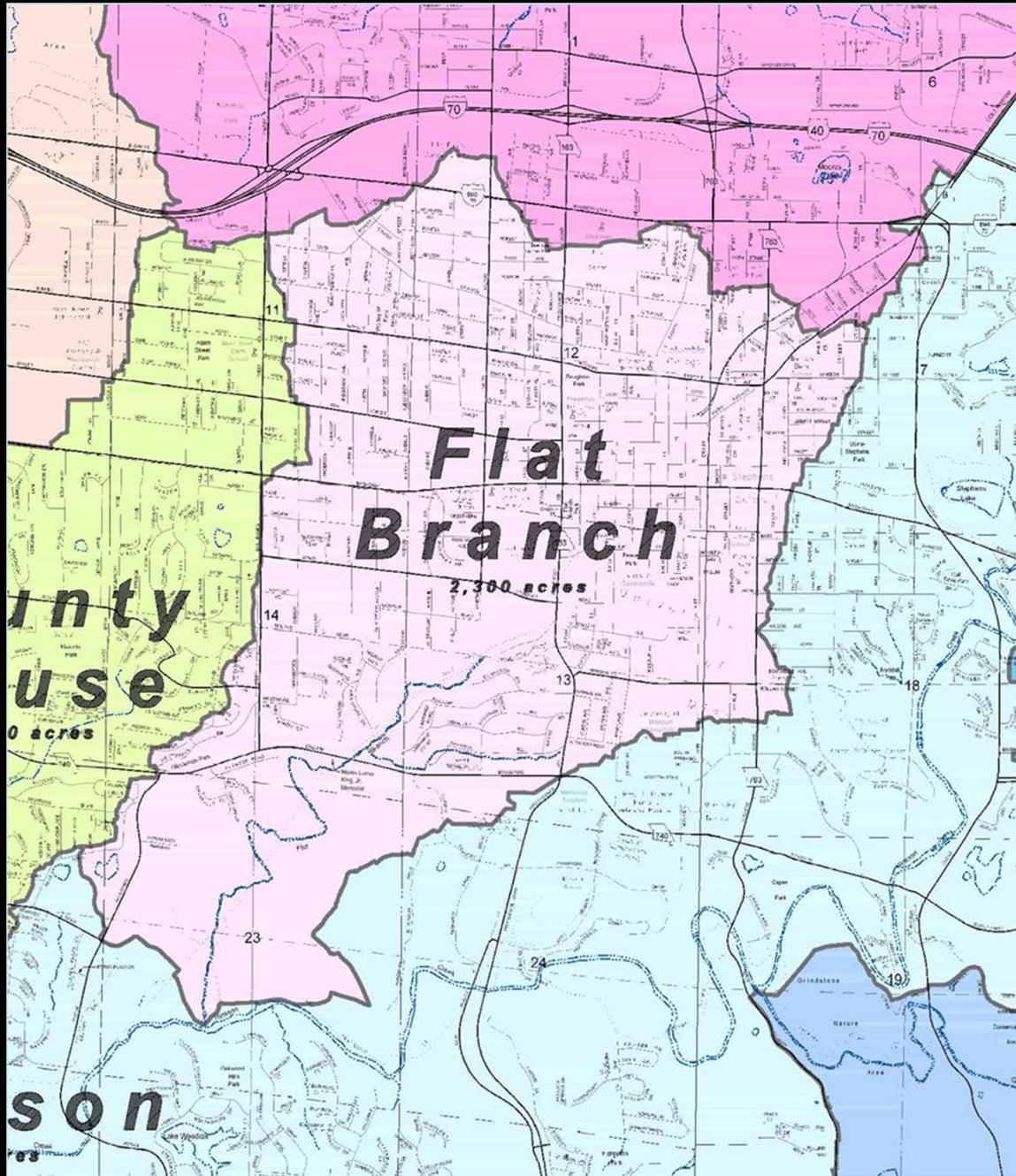
A watershed is a land area from which water drains into a receiving body of water.
Receiving bodies of water can include streams, ponds, lakes, and rivers.



City of Columbia Stormwater Utility
Public Works Department

For more information visit www.GoColumbiaMo.com

Courtesy of Conservation Ontario



**Flat
Branch**

2,300 acres

**Inty
use**
0 acres

son

63





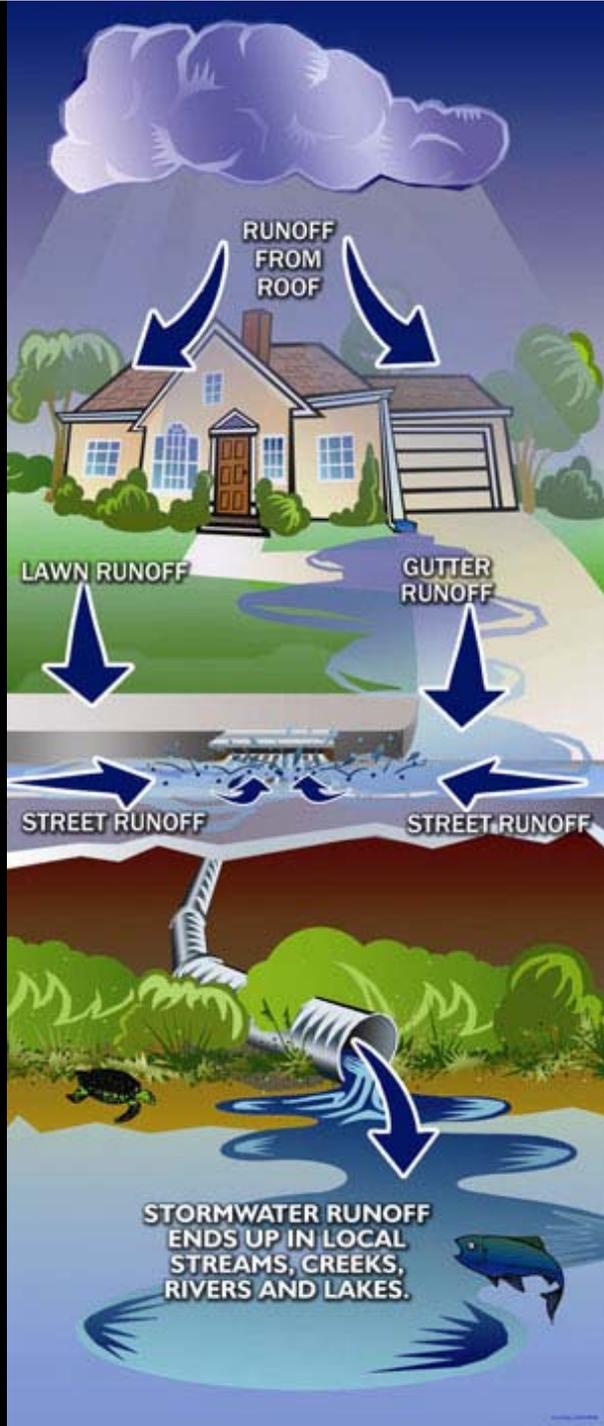


How Our Storm Sewer ^{Drain} System Works

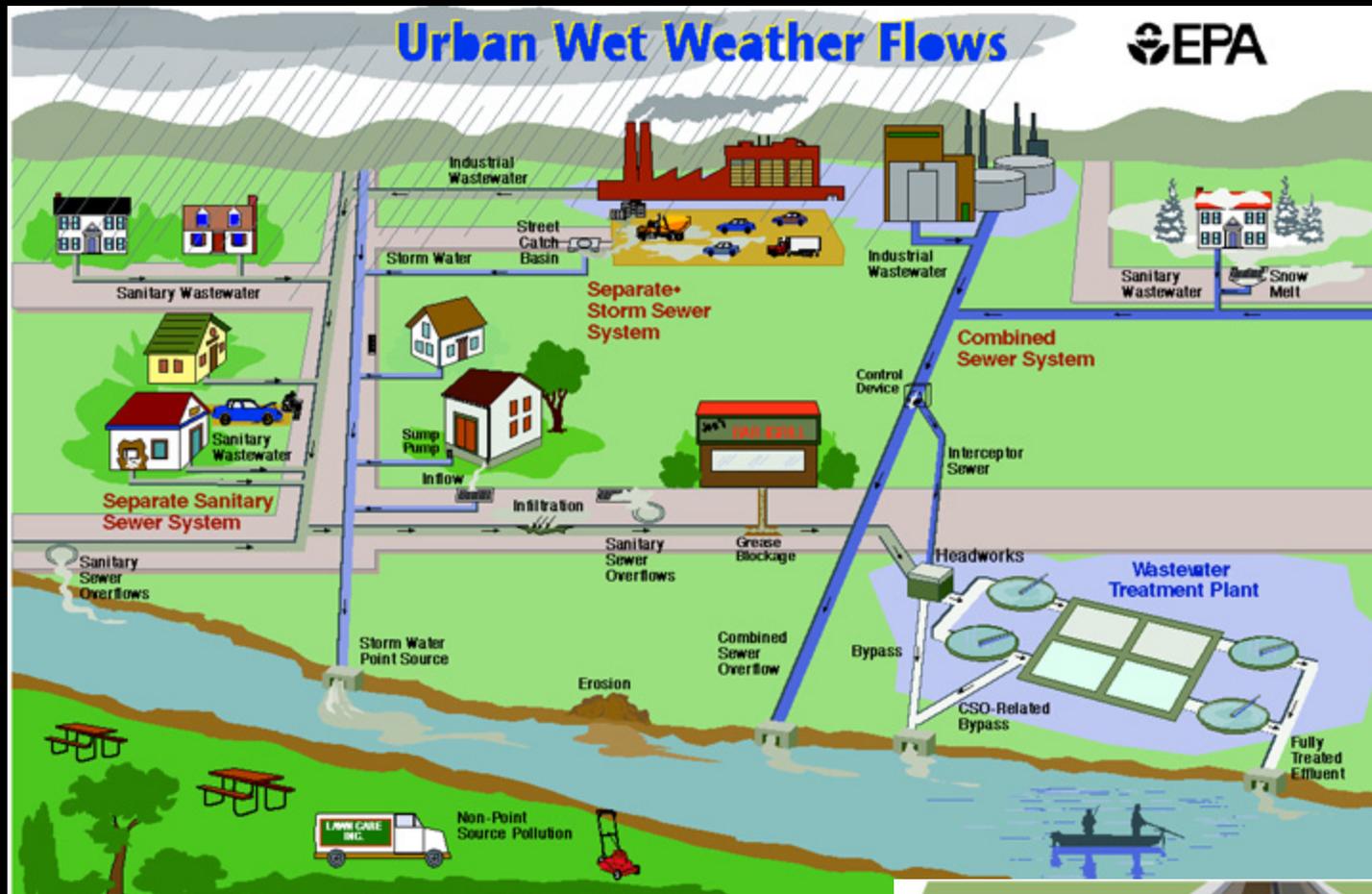




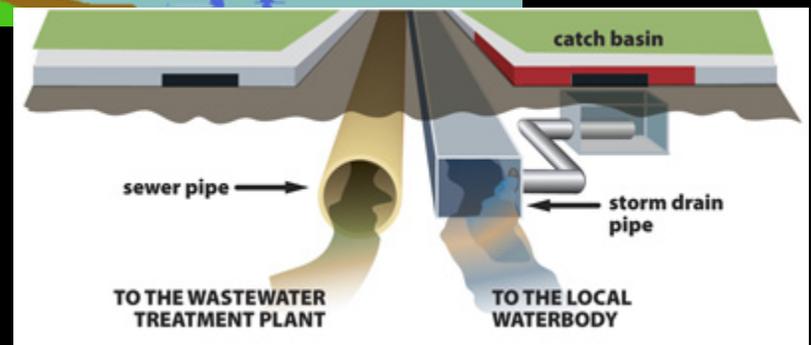




How our stormwater system works in Columbia, MO.



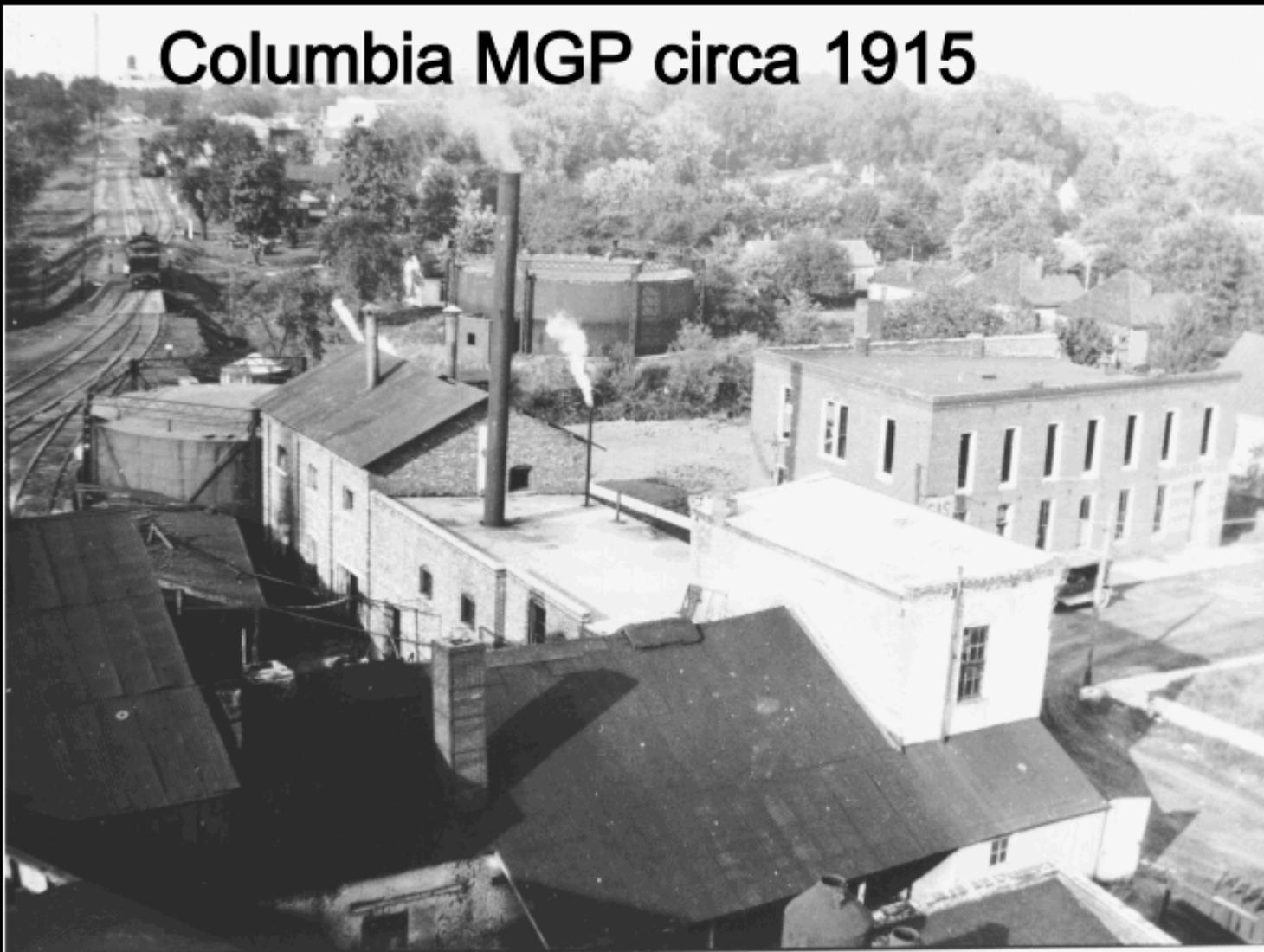
Separate **vs.** Combined
 Columbia has **SEPARATE**
stormwater
 and sanitary sewer systems.

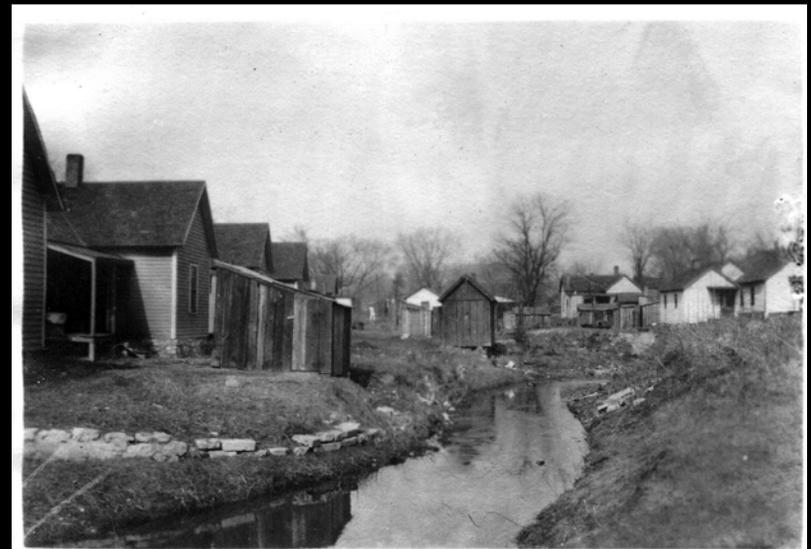


Stormwater in Columbia, Missouri

“The Good Old Days”

Columbia MGP circa 1915





Flatbranch Creek 1943



Flatbranch Creek 1979





Flatbranch Creek 1979

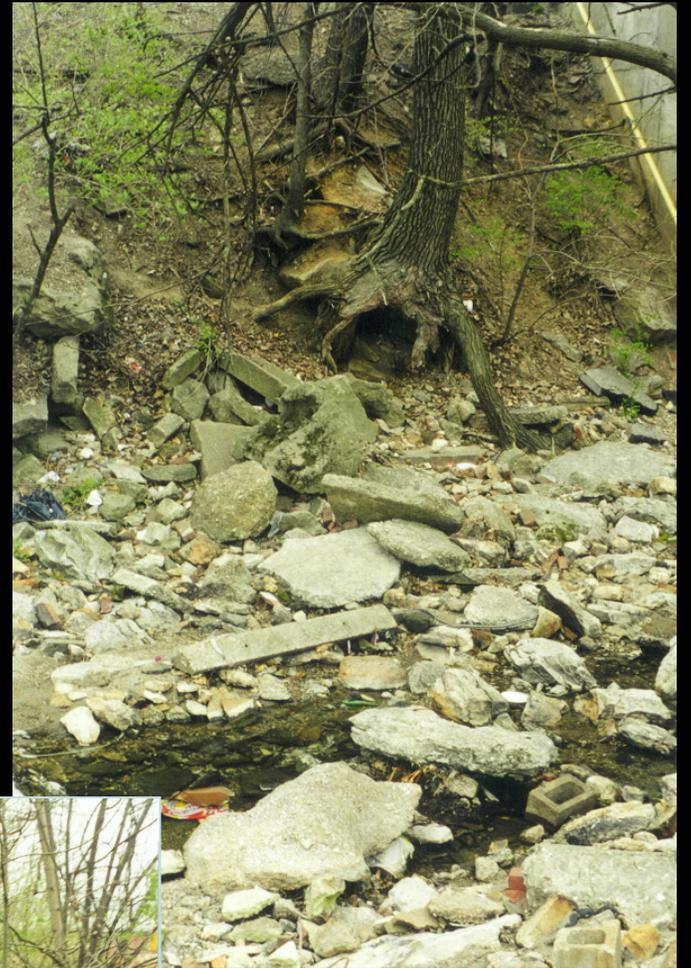


Flatbranch Creek 1979





Flatbranch Creek
1991





City property west side of
9th between Cherry + Locust
9-17-91 CWS

Flatbranch Park 1991



end of Cherry at creek
9-17-91 CWS



Stevenson 9-17-91 CWS
in stone tank supports



Today



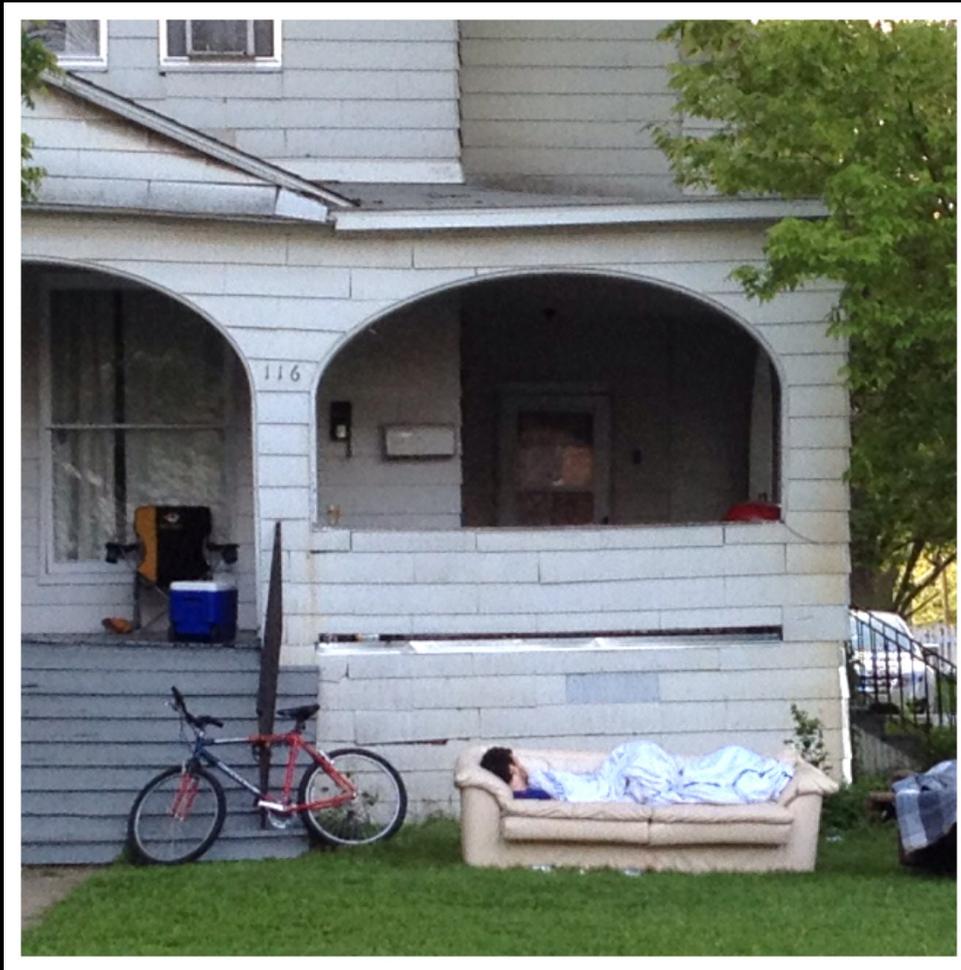


B.M.P

**Best Management Practices
(People Pollution)**



54+00







































100 homes at 1,200 sq. ft.

1 inch rain storm produces around
600 gallons of rain water just from the roof

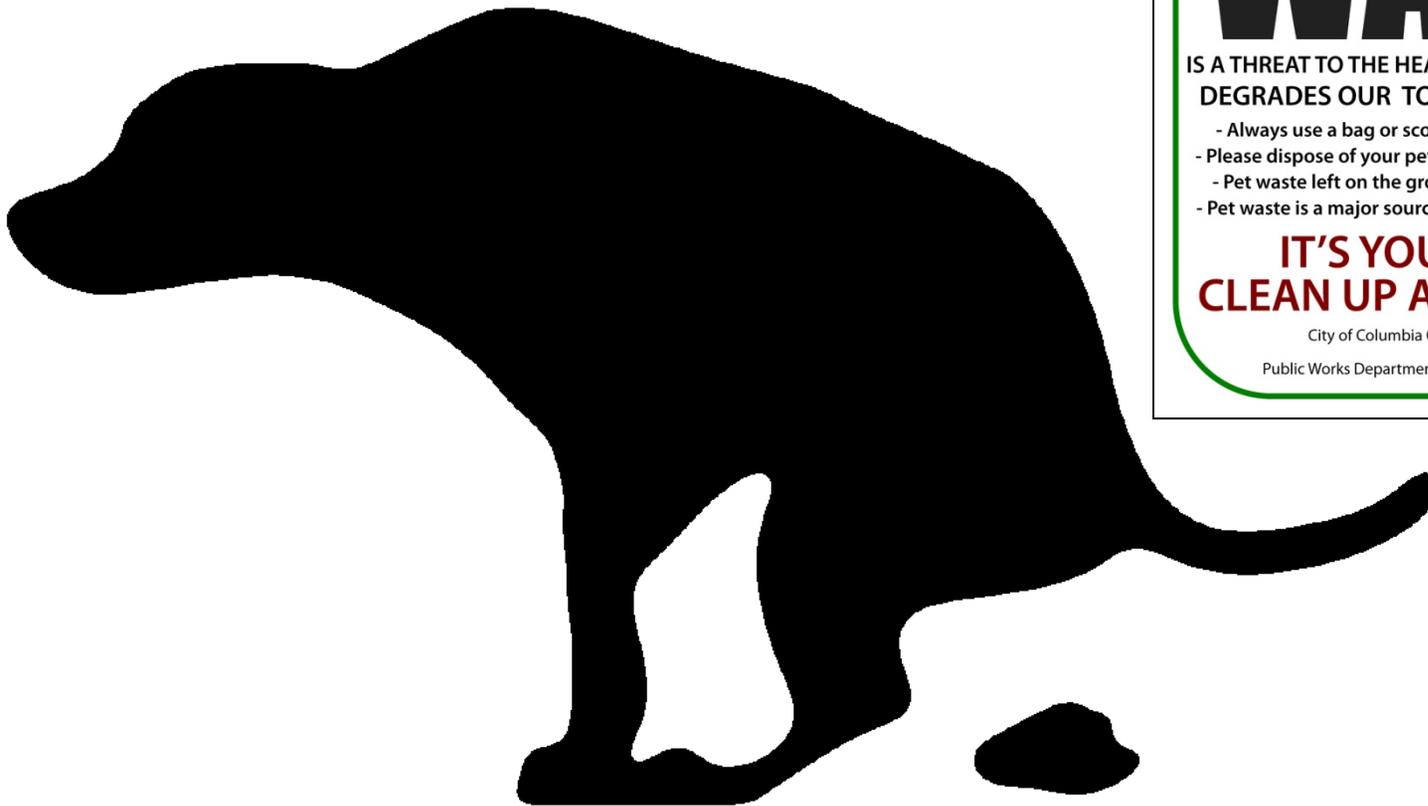




100 homes at 1,200 sq. ft.

50 pound pet will defecate
half its body weight in 30 days.





PET WASTE

IS A THREAT TO THE HEALTH OF THE OUR COMMUNITY
DEGRADES OUR TOWN - TRANSMITS DISEASE

- Always use a bag or scooper to clean up your pet's waste.
- Please dispose of your pet waste in a near by trash receptacle.
- Pet waste left on the ground washes into local waterways.
- Pet waste is a major source of E.coli pollution in local streams.

**IT'S YOUR "DOODY"
CLEAN UP AFTER YOUR PET**

City of Columbia Ord. No. 5-67; Ord. No. 16-231

Public Works Department Stormwater Utility



100 homes at 1,200 sq. ft.







100 homes at 1,200 sq. ft.







100 homes at 1,200 sq. ft.

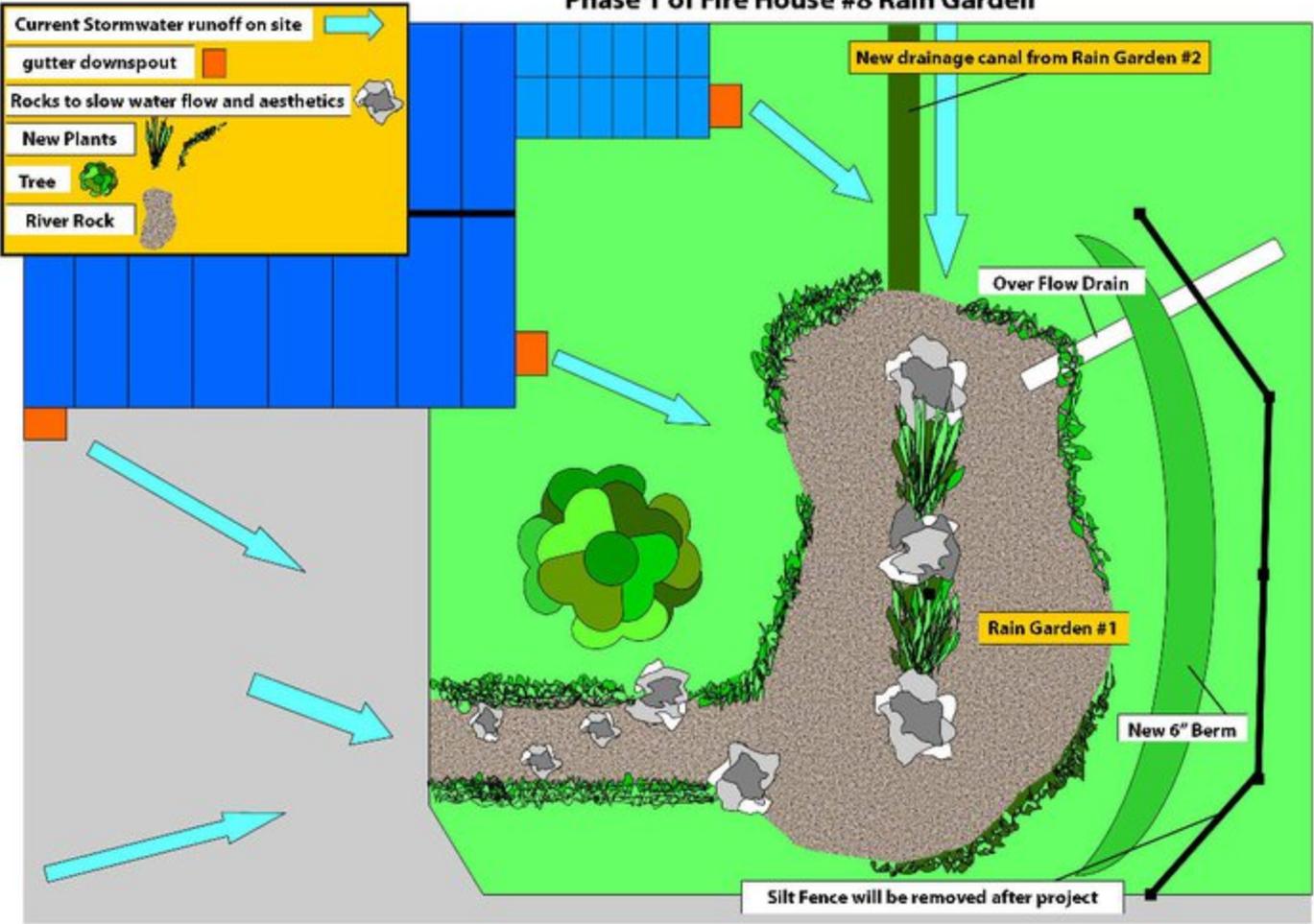






C.A.R.P Project
Fire House #8
Rain Garden Rebuild

Phase 1 of Fire House #8 Rain Garden











































C.A.R.P Projects

3M Hinkson/Flat Branch Wetland











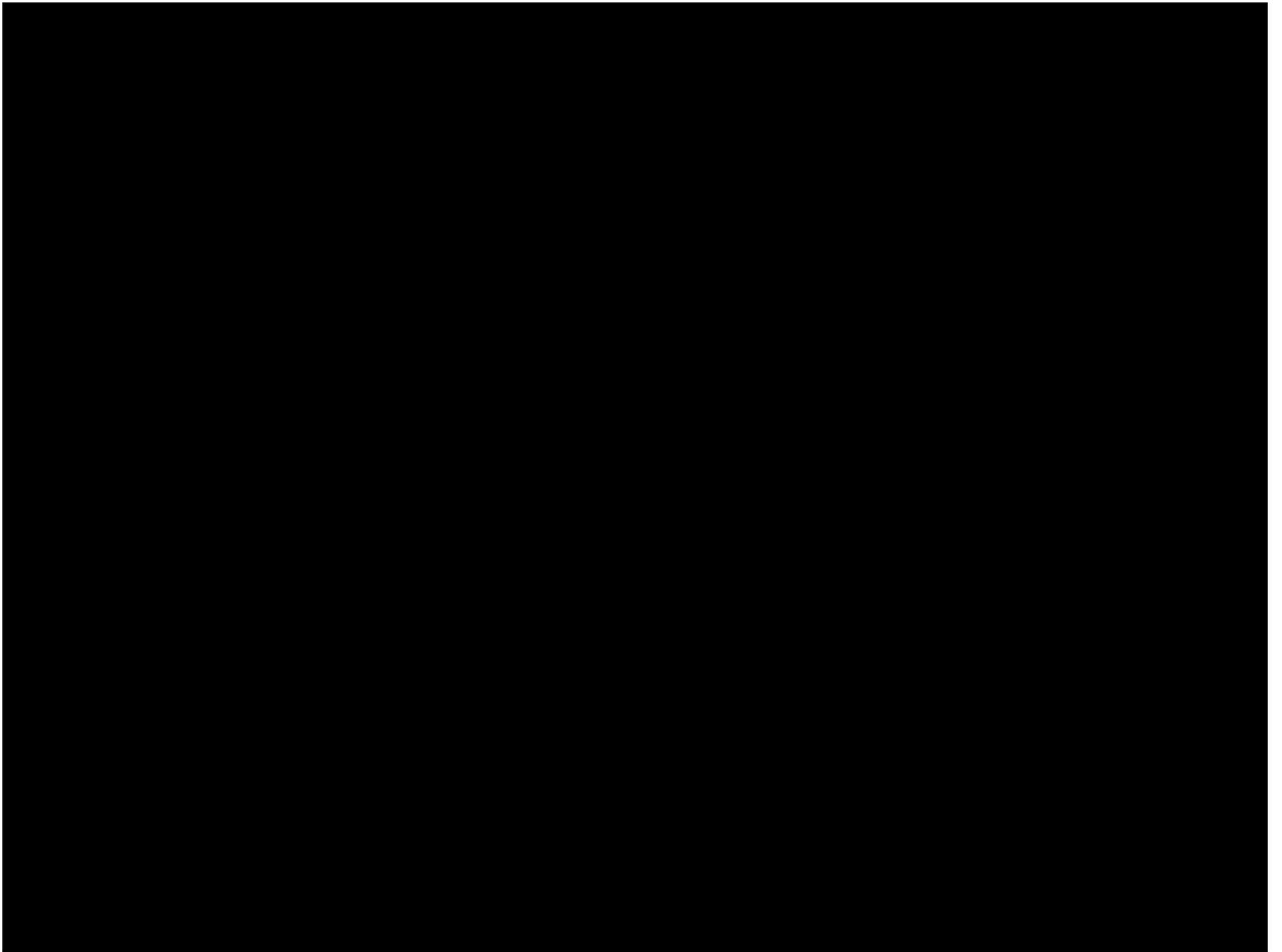




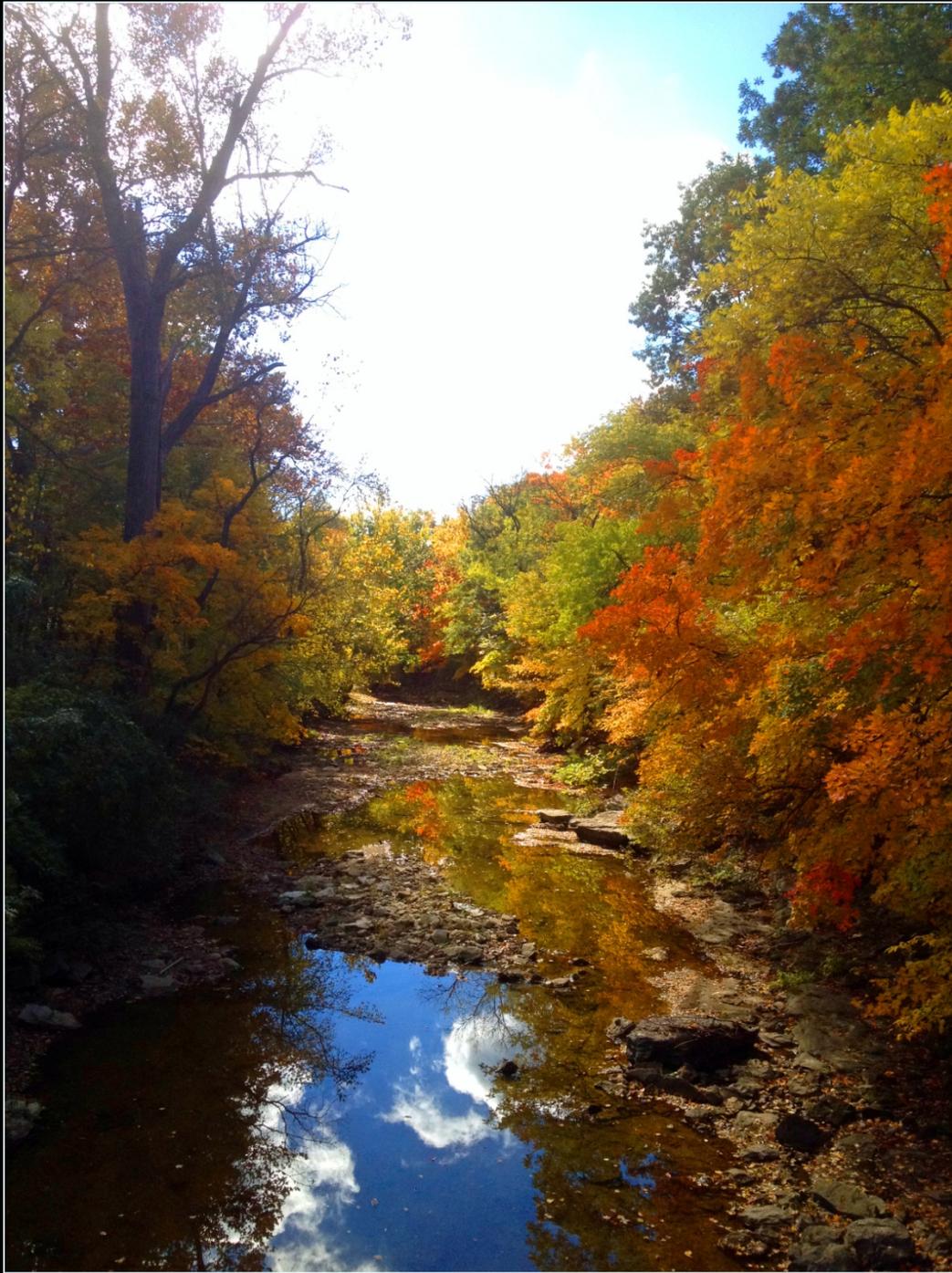
















THE END



THANK YOU FOR LISTENING... AND PLEASE DON'T LITTER!

