MISSOURI DEPARTMENT OF NATURAL RESOURCES

Lower Missouri River Watershed Meeting

January 18, 2017

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St. Louis Regional Office

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Our Missouri WATERS

EAST-WEST GATEWAY Council of Governments

MONTGOMERY LINCOLN WARREN

MISSOURI
DEPARTMENT OF
NATURAL RESOURCES

- ***Mission:*** The mission of the Missouri Department of Natural Resources is to protect our air, land and water; preserve our unique natural and historic places; and provide recreational and learning opportunities for everyone.
- ***Vision for Missouri***: The Missouri Department of Natural Resources envisions a Missouri where people live and work in harmony with our natural and cultural resources, make decisions that result in a quality environment, and prosper today and in the future**.**

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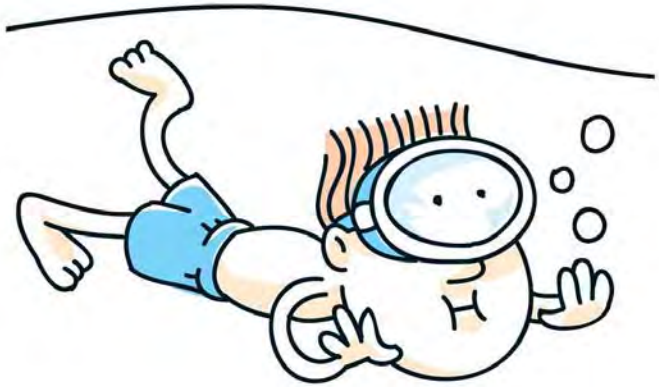

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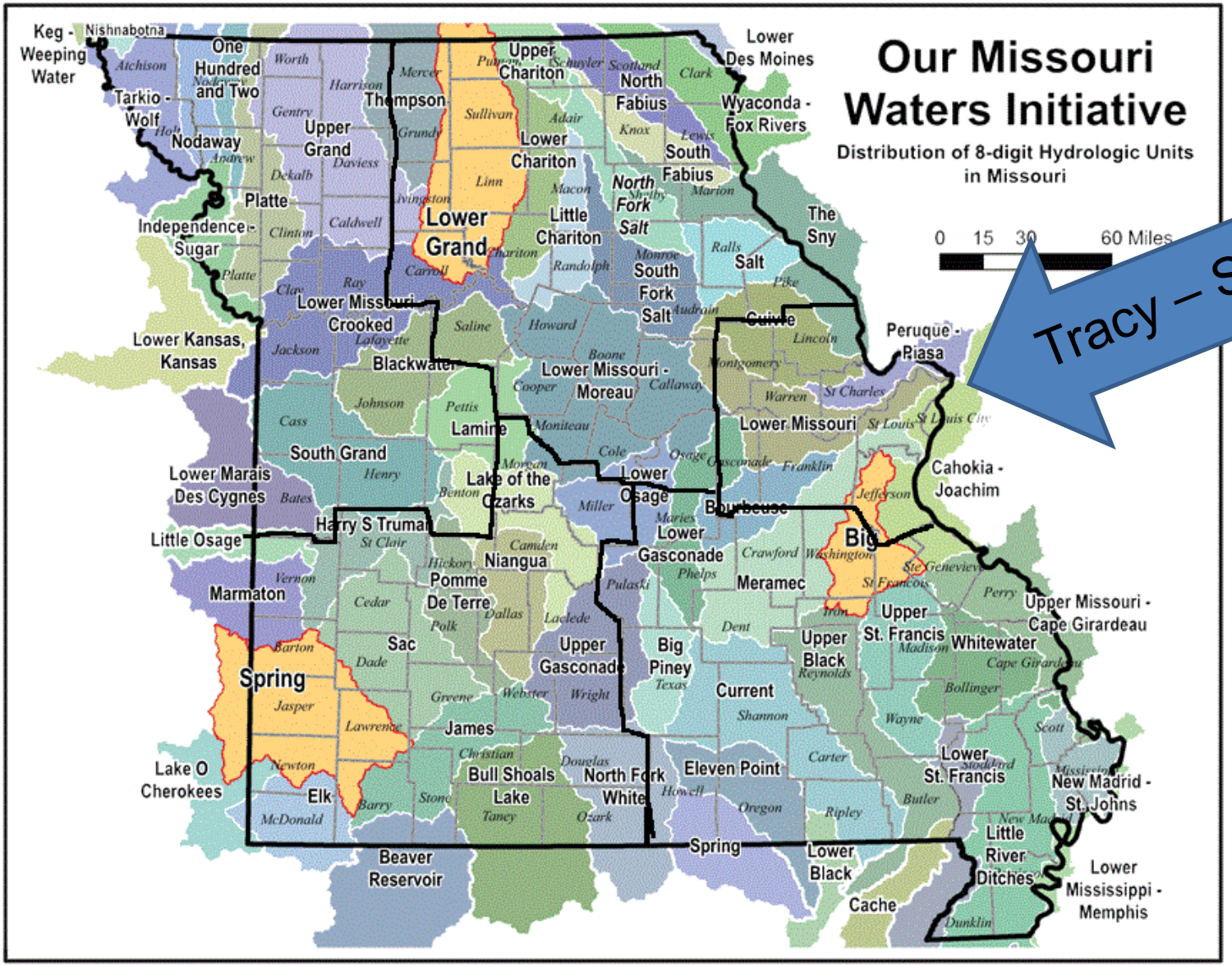

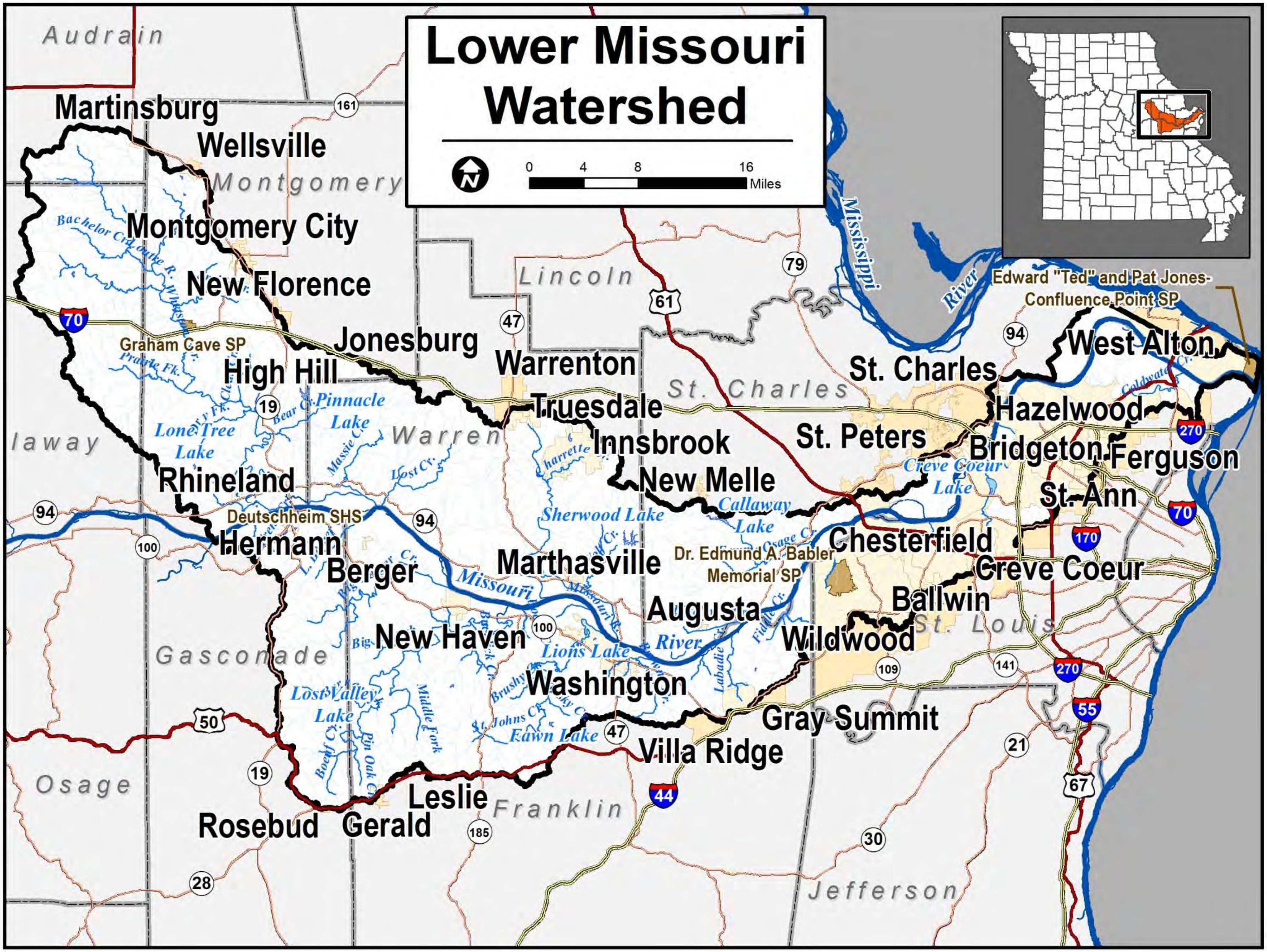
Lower Missouri Watershed
0 4 8 16 Miles
Audrain
Montgomery
Lincoln
St. Charles
Warren
laway
Gasconade
Osage
Franklin
Jefferson
St. Louis
Martinsburg
Wellsville
Montgomery City
New Florence
Jonesburg
High Hill
Warrenton
Truesdale
Innsbrook
New Melle
Rhineland
Hermann
Berger
Marthasville
Augusta
New Haven
Washington
Wildwood
Gray Summit
Villa Ridge
Leslie
Gerald
Rosebud
St. Charles
St. Peters
West Alton
Hazelwood
Bridgeton
Ferguson
St. Ann
Chesterfield
Creve Coeur
Ballwin
Graham Cave SP
Deutschheim SHS
Dr. Edmund A. Babler Memorial SP
Edward "Ted" and Pat Jones-Confluence Point SP
Mississippi River
Missouri River
Pinnacle Lake
Lone Tree Lake
Sherwood Lake
Callaway Lake
Creve Coeur Lake
Lions Lake
Lost Valley Lake
Fawn Lake
Middle Fork
Pin Oak Cr.
Prairie Fk.
Lost Cr.
Massie Cr.
Bear Cr.
Osage Cr.
Labadie
St. Johns Cr.
Boeuf Cr.
Brushy
Coldwater Cr.
70
270
170
44
55
61
67
50
19
47
94
100
109
141
161
79
21
30
28
185

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Water Quality

Missouri Water Quality 305(b) Integrated Report

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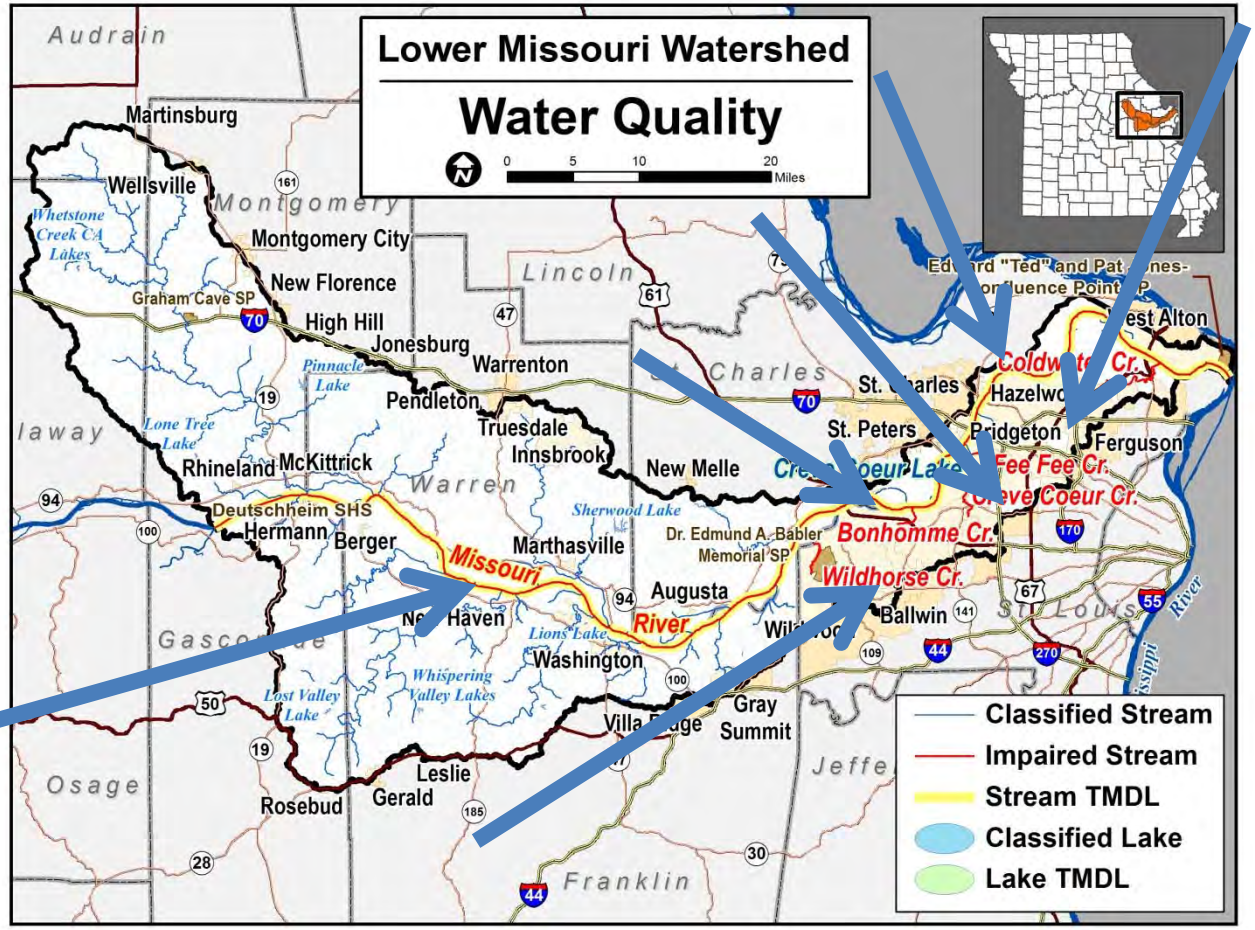
Water Quality

303d listed streams:

- Bonnhomme Creek
- Coldwater Creek
- Creve Coeur Creek
- Fee Fee Creek
- Missouri River
- Wildhorse Creek



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303d listed streams

Designated Beneficial Uses for Missouri Waterways	
Livestock and Wildlife Watering (LWW)	Protection of Human Health (Fish Consumption) HHP
Protection of Aquatic Life (AQL)	Whole Body Contact Recreation (WBCR)
Outstanding State Resource Water (OSRW)	Secondary Contact Recreation (SCR)
Drinking Water Supply (DWS)	Cool-water Fishery (CWF)
Industrial (IND)	

Waterbody	County	Pollutant	Impaired uses	Pollutant Source
Bonhomme Creek	St. Louis	Bacteria	WBCR(B)	Urban Runoff/ storm sewers
		pH	AQL	Unknown
Coldwater Creek	St. Louis	Bacteria	WBCR(B)	Urban Runoff/ storm sewers
		Chloride	AQL	Urban Runoff/ storm sewers
Creve Coeur Creek	St. Louis	Low Dissolved Oxygen	AQL	unknown
		Chloride	AQL	Urban Runoff/ storm sewers
		Bacteria	WBCR(B)	Urban Runoff/ storm sewers
Fee Fee Creek	St. Louis	Bacteria	WBCR(B)	Urban Runoff/ storm sewers
		Chloride	AQL	Urban Runoff/ storm sewers
Missouri River	St. Louis	Bacteria	WBCR(B) SCR	Municipal Point Source Discharges, Nonpoint Source
Wildhorse Creek	St. Louis	Bacteria	WBCR(B)	Runoff from Forest/Grassland/Parkland, Rural, Residential Areas

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Total Maximum Daily Load

-
-

dnr.mo.gov/env/wpp/tmdl/index.html.

Water Body
Poll

12-digit Hydrologic Un
103002000802 – Heady
103002000803 – Cold

Designated
Livestock
Irrigation
Protectio
Human
Indust

Use tha
Whole

Missouri Department of Natural Resources
Water Protection Program

Bacteria
Total Maximum Daily Load (TMDL)

for

Coldwater Creek
St. Louis County, Missouri

Completed: Dec. 31, 2014
Approved: July 13, 2016

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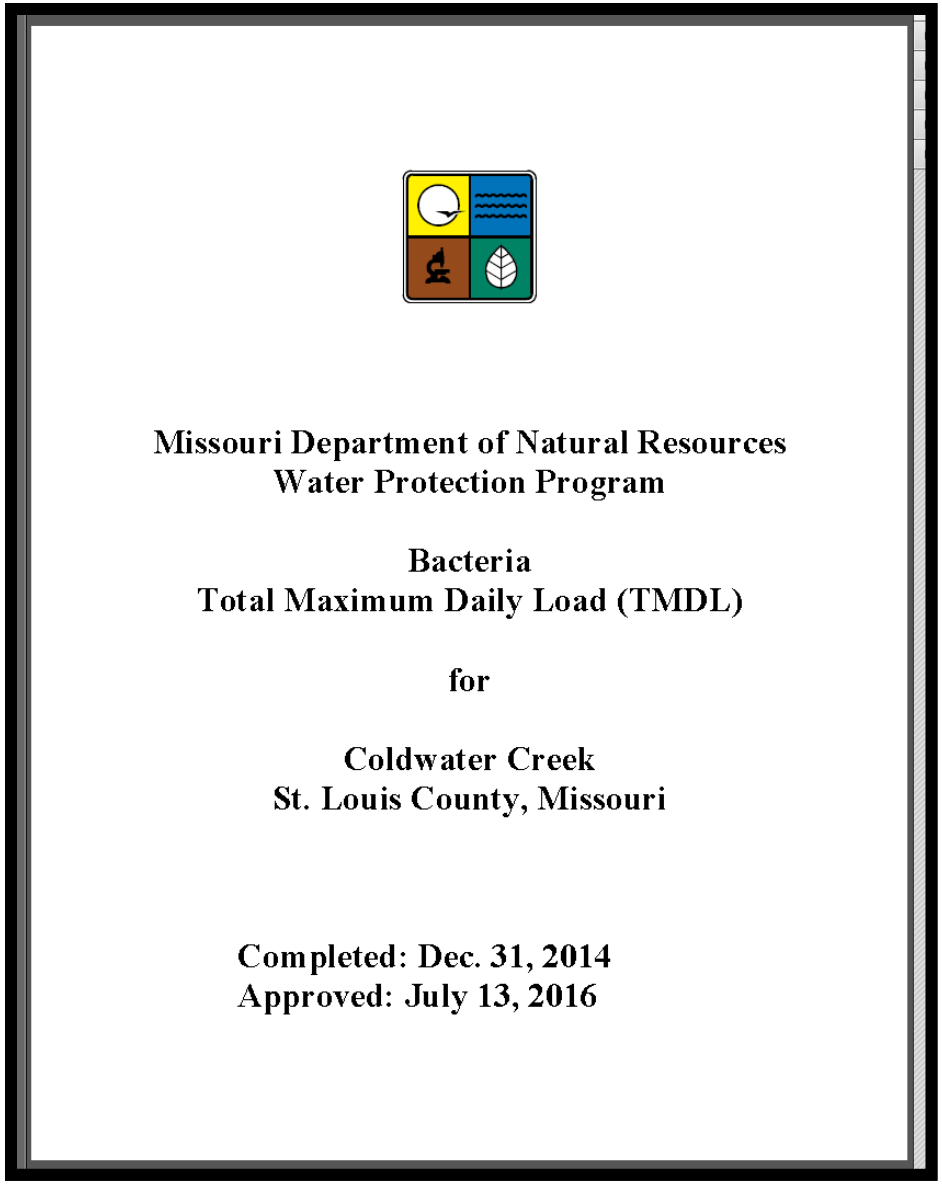
TMDL

- Determines the pollutant loading Coldwater creek can handle
- Identifies the pollutant sources in Coldwater Creek
- Provides opportunity for citizen involvement



Missouri Department of Natural Resources
Water Protection Program

Bacteria
Total Maximum Daily Load (TMDL)

for

Coldwater Creek
St. Louis County, Missouri

Completed: Dec. 31, 2014
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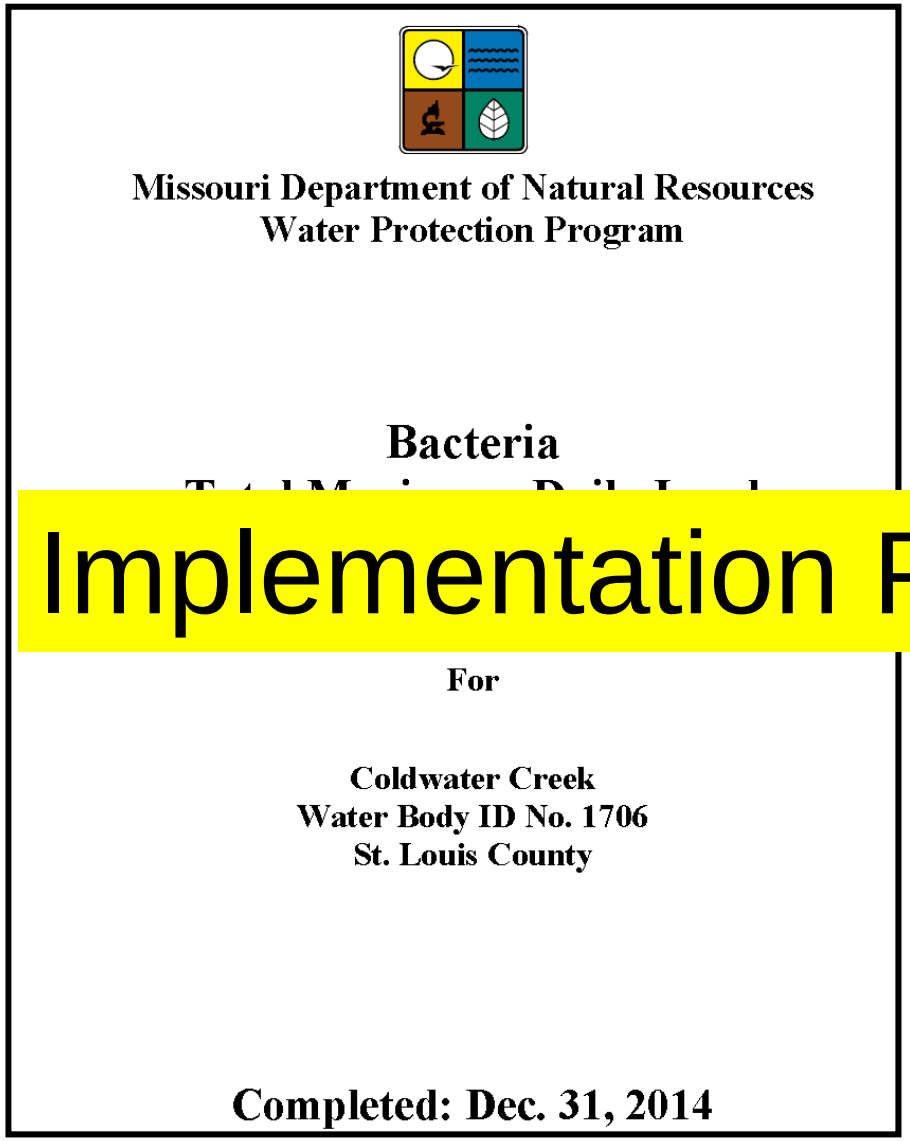
Implementation Plan



- Addresses Bacteria impairment
- Serves as a guide to stakeholders
- Progress toward meeting water quality standards to be long-term
- This plan will incorporate many of the EPA's nine elements
- Separate TMDLs will be developed for other impairments.

http://dnr.mo.gov/env/wpp/tmdl/wpc-tmdl-progress.htm

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How do we use the implementation plan?

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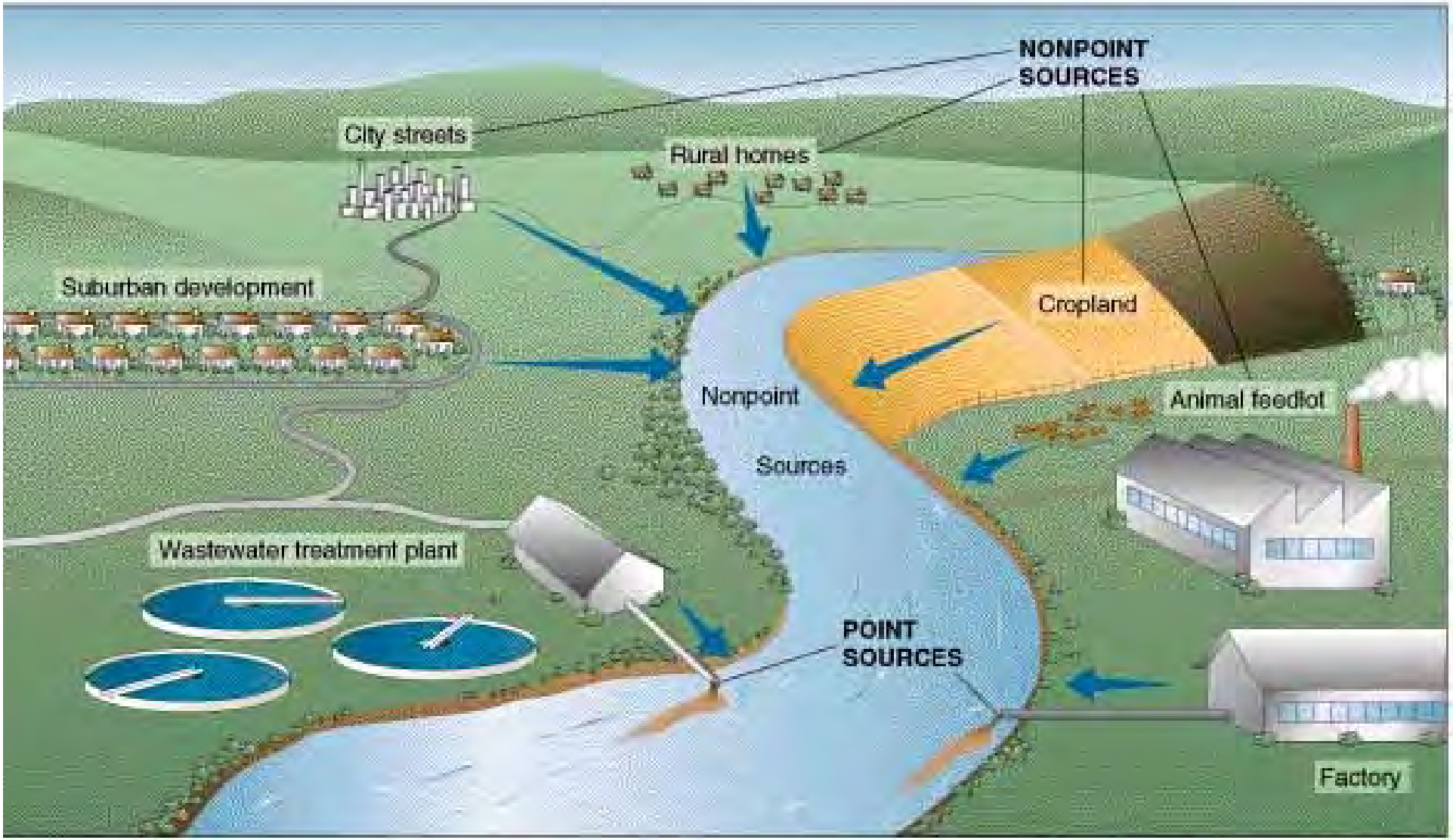
Point vs NonPoint Sources



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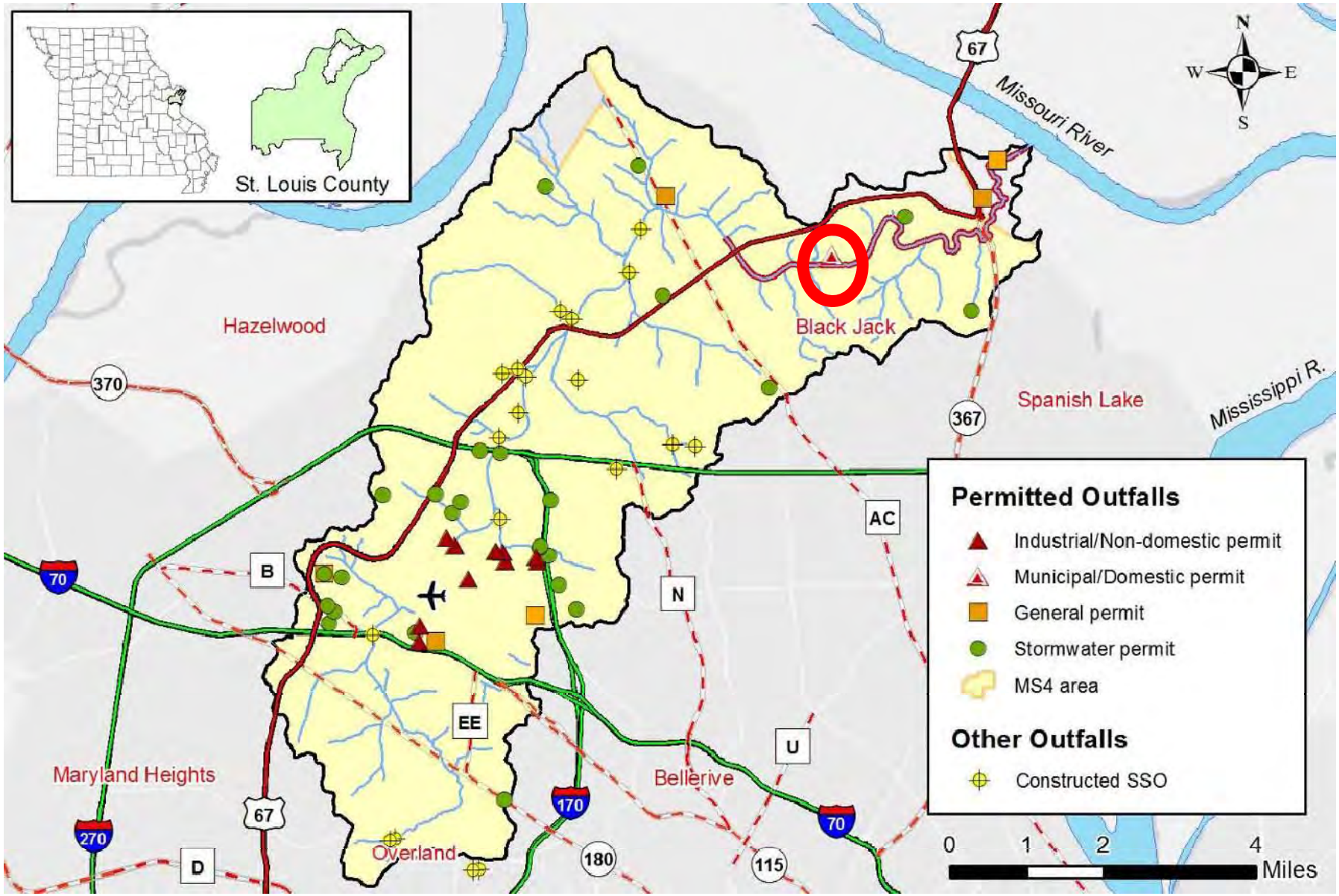
Point Source
Sanitary Sewer Overflow



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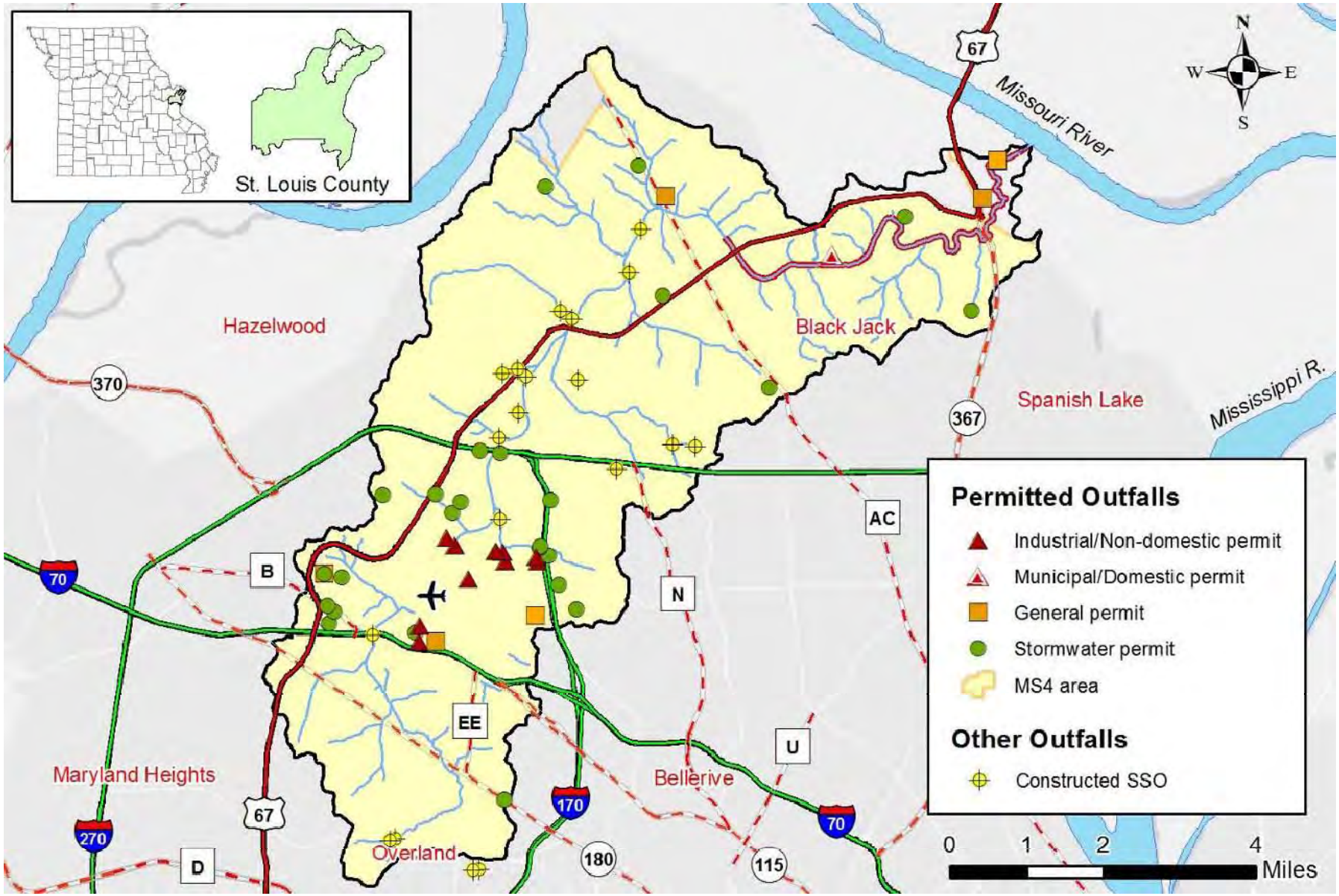
Point Source

MS4 Regulated Urban Runoff



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Non-Point Source

Failing onsite wastewater treatment

Successful Implementation

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Thank you!

Got questions? Call or email!

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