



Maumee AOC Summit Fall/Winter 2014

UPDATED

*Thursday, December 4, 2014
9:30am to 12:30pm
Jadel Leadership Center at Camp Miakonda
5600 W Sylvania Ave, Toledo, OH 43623*

AGENDA

- 9:30-9:40am Welcome and Introductions
Cherie Blair, Maumee AOC Coordinator, Ohio EPA
- 9:40-10:20am Framework Panel Discussion
Ohio's New AOC Program Framework
AmyJo Klei, Lake Erie Program Coordinator, Ohio EPA

Maumee AOC Facilitating Organization & AOC Advisory Committee
Kristina Patterson, Executive Director, PCS
- 10:20-11:00am Partner Presentations
- | | |
|---------------|--|
| 10:20 – 10:40 | Halfway, Silver, and Shantee Creeks Analysis
<i>Bill Carlson, TetraTech</i> |
| 10:40 – 11:00 | Tree Swallow Studies in Great Lakes AOCs
<i>Christine Custer, USGS</i> |
- 11:00-11:20am Break (networking)
- 11:20-11:50pm Agency and Facilitating Organization Reports
- | | |
|---------------|--|
| 11:20 – 11:30 | US EPA Report (<i>Kevin O'Donnell, US EPA Task Force Leader</i>) |
| 11:30 – 11:40 | Ohio EPA Report (<i>Cherie Blair, Ohio EPA AOC Coordinator</i>) |
| 11:40 – 11:50 | Partners for Clean Streams Report (<i>Kristina Patterson, PCS, Executive Director</i>) |
- 11:50-12:10pm Additional Partner Reports and Project Updates/Public Comments
- Open floor for project sharing by any other partners
(i.e. TMACOG, City of Toledo, Metroparks, TNC, DU, etc.)
- 12:10-12:25pm Public Comments and Questions
- 12:25-12:30pm Closing comments and announcements
- 12:30 (optional) Tour of SWIF Project Site (outside of Jadel Leadership Center)

Next Maumee AOC Summit
Spring/Summer 2015
May 2015
Location TBD



Fall/Winter AOC Summit

Thank You Civil and Environmental Consultants, Inc.
for sponsoring breakfast!



Maumee AOC Advisory Committee

Re-Establishing the Standing Committee

Fall/Winter Maumee AOC Summit
By Kris Patterson, Executive Director
Partners for Clean Streams

Re-Establishing the MAAC

- New name but familiar structure
- Is the local voice of the Area of Concern
- Stand-alone committee will no longer be under the PCS umbrella but will be facilitated by PCS
- Will meet quarterly beginning in 2015
- Summits will continue, if the MAAC wants

Structure of MAAC

- Guided by the Ohio EPA Framework
- PCS suggests committee of 8-16 people
- Voting and Non-Voting
 - Voting are designated from their org and selected by application
 - Non-Voting has 2 categories: Designated Ex-officio & Resource
- Representing 4 sectors, in roughly equal proportions
 - Business/Industry
 - Local Government
 - Academia/Non-Profits
 - General Public

Role of MAAC

- Local voice to the federal and state agencies guiding the Areas of Concern program
- Engage and inform the AOC watershed community about activities and management actions needed & underway
- Facilitate community involvement and public input
- Serve as a unified voice for advancing progress towards BUI removal and AOC delisting

Role of Facilitating Organization

- Serves as facilitator & secretariat to the MAAC & its sub-committees or teams
- Works in partnership with Ohio EPA & the local community to develop & implement actions or plans that will contribute to delisting
- Assist other local implementers: provide info, technical assistance, grant writing assistance specific to the AOC/BUIs, promote funding opportunities
- Engages AOC community to seek public input & increase public involvement

Role of Facilitating Org. (cont)

- Conduct meaningful public engagement opportunities
- Administers, tracks, and reports on AOC Support grant funds
- Maintain website & social media & provide regular updates



Getting Involved

- E- Applications open today & due January 5th, 5pm
- Applications are primarily so that there is even distribution for sectors/categories of membership
- Also want employer (if applicable) to support the nominees role/commitment to committee
- Outside selection team will review applications without identifying info
- First meeting proposed for February 2015
- Draft Operating Procedures available if needed, but will be adjusted & ratified by the whole committee once established

Questions?

- Kris Patterson, Partners for Clean Streams
 - Executive.Director@PartnersforCleanStreams.org
 - 419.874.0727
- AmyJo Klei, Ohio EPA
 - Amy.Klei@epa.ohio.gov
 - 614.644.2871
- Cherie Blair, Ohio EPA NWDO
 - Cherie.Blair@epa.ohio.gov
 - 419.373.3010

Launch of DMDS

← → ↻ dmds.maumeerap.org ☆ 🔊 ☰

MaumeeRAP
PARTNERING FOR CLEAN STREAMS

HOME PROJECTS BUI STATUS BUI DATA SOURCES RESOURCE LIBRARY HELP LOGIN

Enter word to search tags and titles 🔍

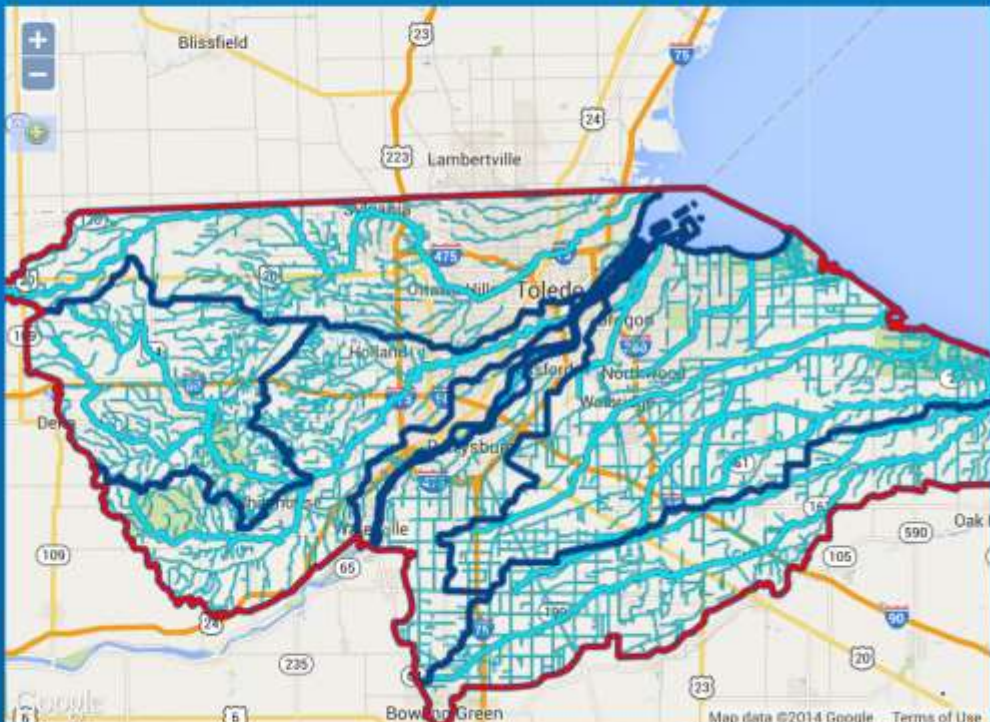
GETTING STARTED

About DMDS

Welcome to the **Data Management and Delisting System (DMDS)**, built by Partners for Clean Streams, in cooperation with Ohio Environmental Protection Agency, for the Maumee Area of Concern (AOC). The DMDS is designed to share information, maintain collaboration and communicate the status of the Maumee AOC.

In the **Projects** module, visitors can learn more about projects that are addressing the identified beneficial use impairments. A catalogue of information on projects that have been completed, are seeking funding, or are ongoing, as well as where they are located within the AOC, is available in the **Projects** module. If a visitor registers for a user account, they can submit projects to be included in this module.

The current status of the Beneficial Use Impairments (BUI), including what they are, why they exist, and what the targets are for their removal, is available in the **Beneficial Use Impairments (BUI) Status** module. This module allows the users to not only review the current status for each BUI for the whole AOC, but to also see the status on a smaller 10- or



Map data ©2014 Google Terms of Use
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Launch of DMDS

Data Management & Delisting System

- DMDS.MaumeeRap.org is going live!
- MaumeeRap.org is also re-launching today.
- Online GIS-based tool to help determine:
 - Most current BUI status for whole AOC & in smaller areas
 - Analytical data specific to the BUIs
 - Projects completed, underway, proposed in the AOC
 - Resources specific to the AOC program and local issues
 - Will help determine future management actions and guide focused restoration towards delisting

Using the DMDS

- Register, if you haven't already, or use some tools without registering
- 36 people, representing 19 organizations, have been trained already & helped beta test
- New help guide built in & changes made based on beta testings but most front-end uses are the same
- Site will continue to evolve with new resources added, more projects, and more analytical data and evaluations needed to update some of the “unknown” statuses

Benefits of the DMDS

- Uses the applicable Ohio EPA data & the new Ohio EPA targets for BUI restoration to determine by assessment unit, if areas meet the target (or not)
- Identifies data gaps and needs & overlays projects geographically
- Allows all implementation partners, as well as federal and state agencies, to use the system with up-to-date info as a one-stop-shop
- Allows locals and agencies to target and refine future projects to focus on BUI removal, driven by the supporting data

New Local Implementation Funds

- PCS announces a Request for Proposal for small, targeted implementation projects to demonstrate local actions towards BUI improvement
- Short proposals due January 30th
- 3 - 4 small implementation projects, based on funding, with a completion date of June 30, 2016.
- 2 or 3 demonstration projects in the AOC, \$10K max, such as bioswales, streambank restoration, rain gardens, in stream projects, wetland projects, etc.
- One project, \$15K max, targeting Ottawa River - Tenmile Creek HUC (04100001 03 06):
 - Improvements of fish populations (Mlwb score specifically)

Questions?

Details posted at MaumeeRAP.org

Other Activities to support AOC

- Clean Your Streams Day
 - 31 river miles
 - 1,104 people
 - 16,978 pounds
- Get the Lead Out
 - 50+ people
 - 2 miles
 - Approx. 30 pounds of lead



Other Activities to support AOC

- Girl Scout Educational Programs
 - Led water activities for Girl Scout summer camps
- College Educational Programs
 - Taught UT class about AOC program and BUIs



In Support of Ohio's Areas of Concern

A Framework for Reorganizing and Implementing Ohio's Remedial Action Program



Amy Jo Klei

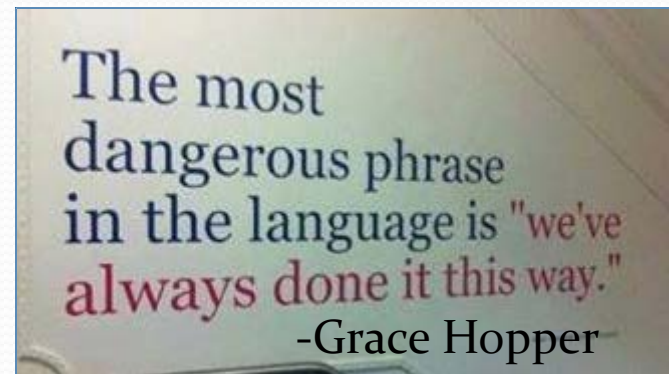
Ohio EPA Lake Erie Coordinator

December 4, 2014

Maumee AOC Fall/Winter Summit

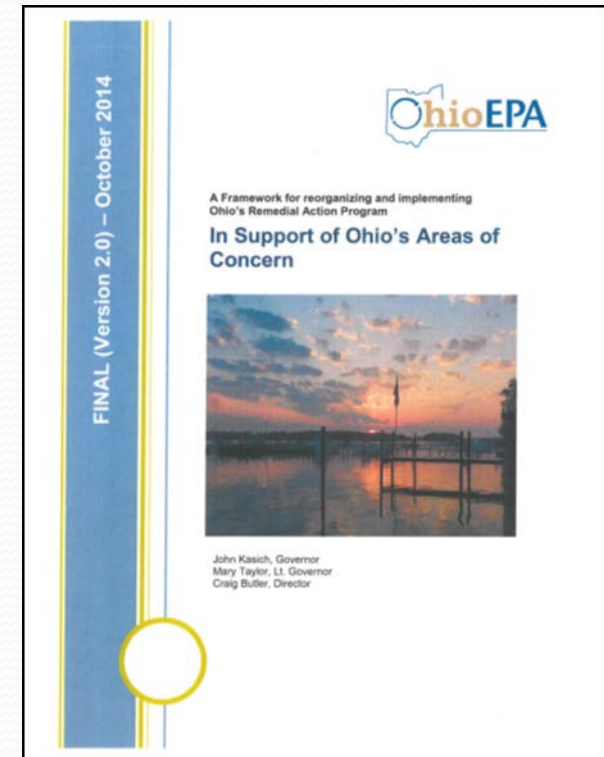
Overview of Improvements to Ohio's AOC Program

- Evolution of the AOC program
- Opportunities for improvement
 - delisting strategy
 - targeted implementation
 - effective communication and coordination
- Lessons learned
 - public engagement is critical
 - defined roles and responsibilities



AOC Program Framework

- Finalized in October 2014
- Identifies roles, responsibilities and sets minimum performance expectations
 - Local AOC Advisory Committee
 - Local Facilitating Organization
 - Ohio EPA Lake Erie Program Coordinators
- Provides guidelines for future AOC support grants



Local AOC Advisory Committee

- Represents the voice of the AOC community
- Advises state/federal partners
- Identifies strategic priorities
- Serves as portal for public comment and engagement
- Transparent and open to the public



Local AOC Facilitating Organization

- Support and facilitate Advisory Committee
- Provide assistance to local implementers
- Works in partnership w/OEPA and watershed community to develop and implement restoration plans
- Engage AOC community by providing regular opportunities for public input
- Conduct outreach activities to increase public awareness of the AOC
- Administer grant funds



Agency Actions

- Coordinating agency resources to provide updated assessment of Ohio's AOCs
- Coordinating AOC needs and agency resources on priority actions
- Targeting funding on Lake Erie and AOCs
- Participating on Lake Erie LAMP and Annex 2



OEPA R/V Nor'Wester



Maumee River 2012

Role of AOC Program



Next Steps

- Work with local groups to effectively organize Advisory Committees
- Adopt BUI restoration targets or develop local targets
- Update BUI status and identify restoration needs for each AOC
- Identify needed management actions and delisting strategies

Questions...

Ohio's Framework for the AOC Program is
available online:

<http://www.epa.state.oh.us/dsw/lakeerie/index.aspx>

Ohio EPA Lake Erie Program

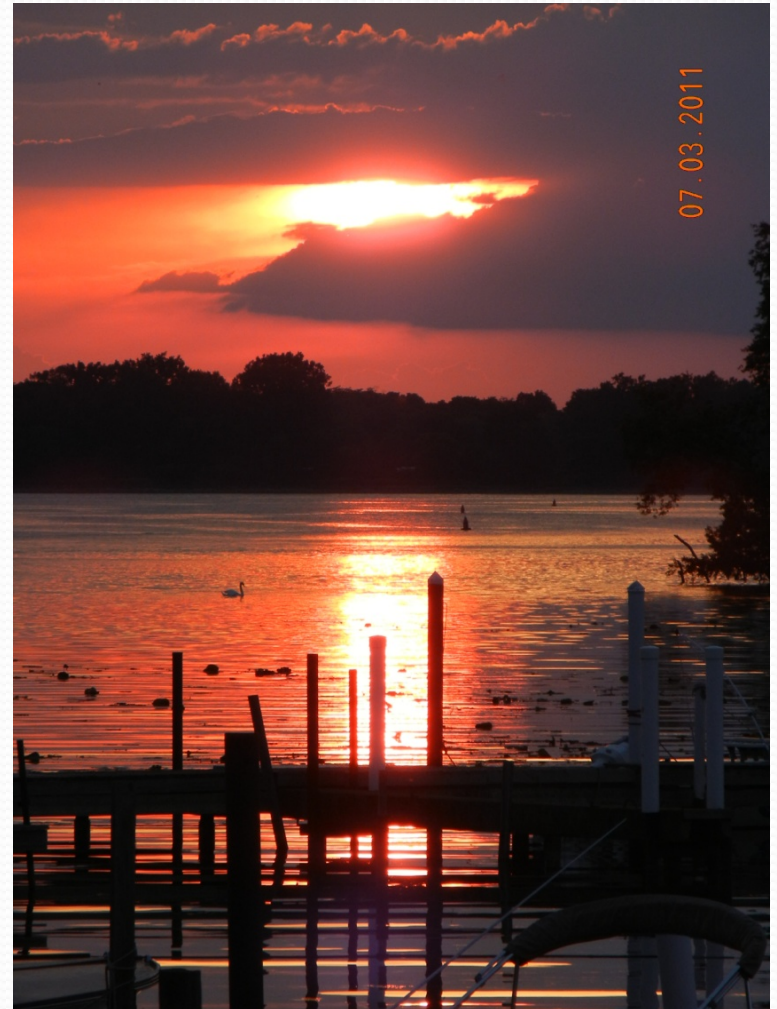
Russ Gibson, Manager

Amy Jo Klei, Lake Erie Coordinator

Cherie Blair, Maumee AOC

Ted Conlin, Ashtabula/Black AOC

Ed Wilk, Cuyahoga AOC





Halfway, Silver, and Shantee Creeks Analysis

Maumee RAP Summit
Toledo, OH
December 4, 2014



Study Objectives



Assessment and remediation efforts occur throughout the Maumee AOC but few efforts have focused upon Halfway, Silver, and Shantee creeks.

U.S. EPA Region 5 contracted Tetra Tech to develop the Halfway, Silver, and Shantee Creeks Analysis (HSSCA).

Study Objectives

- Identify possible ongoing sources of contamination and locations of historic contamination.
- Delineate critical areas to be addressed by future activities, including remediation.
- Determine appropriate control strategies to remediate the pollutant sources.

Project Summary



- Compile and evaluate secondary data
- Characterize the HSSCA project area
- Water quality assessment
- Identify pollutants of concern (POCs)
- Identity sources of the POCs
- Evaluate fate and transport of POCs from sources to in-stream impairments
- Delineate critical areas
- Recommend future activities

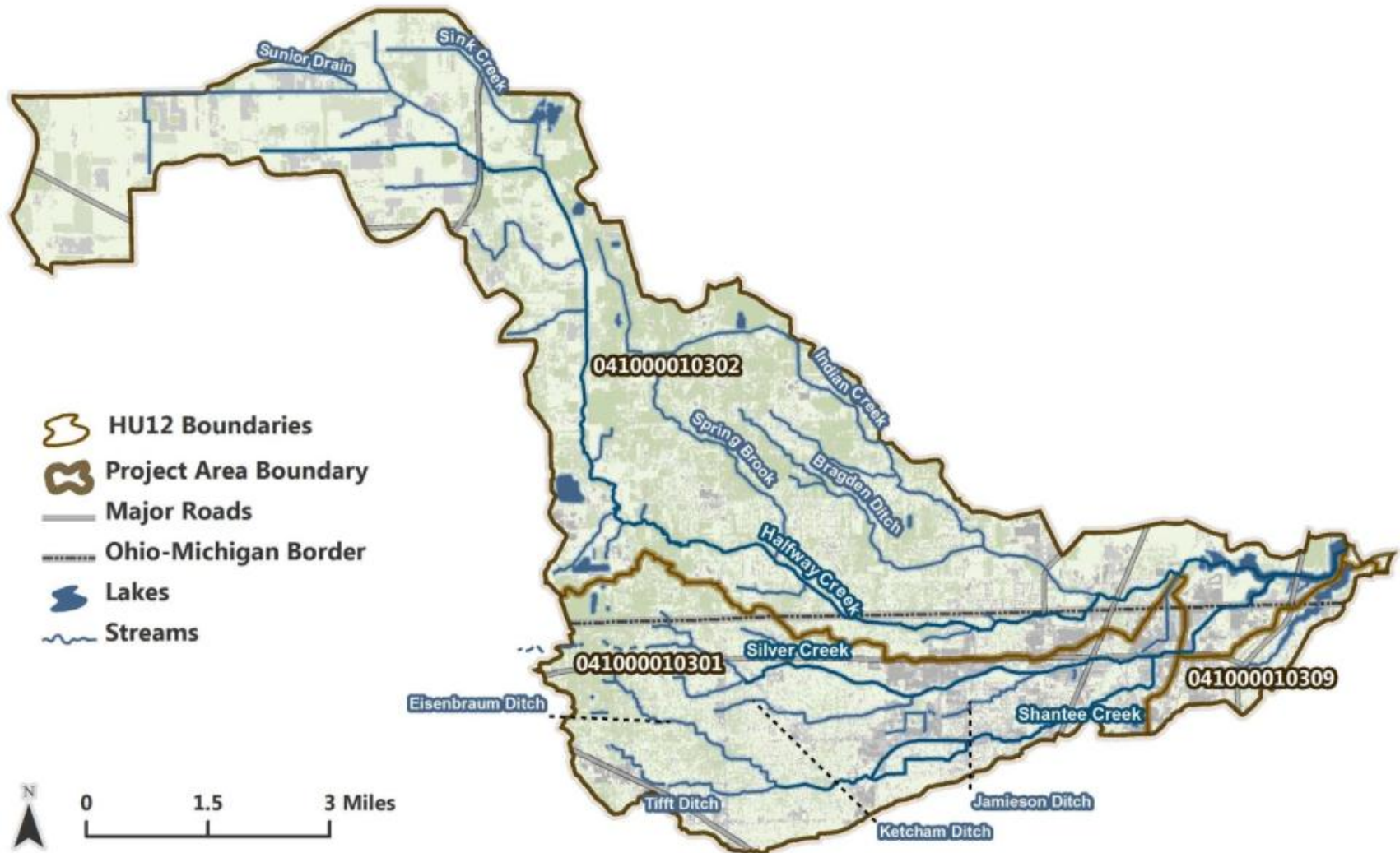


Maumee AOC & HSSCA Project Area

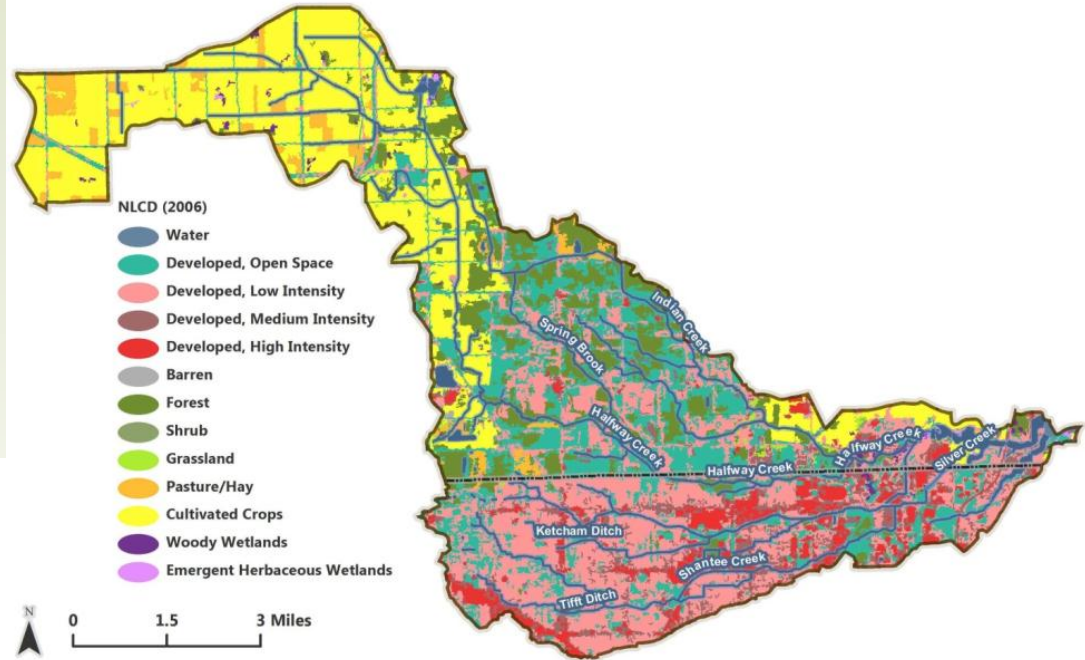
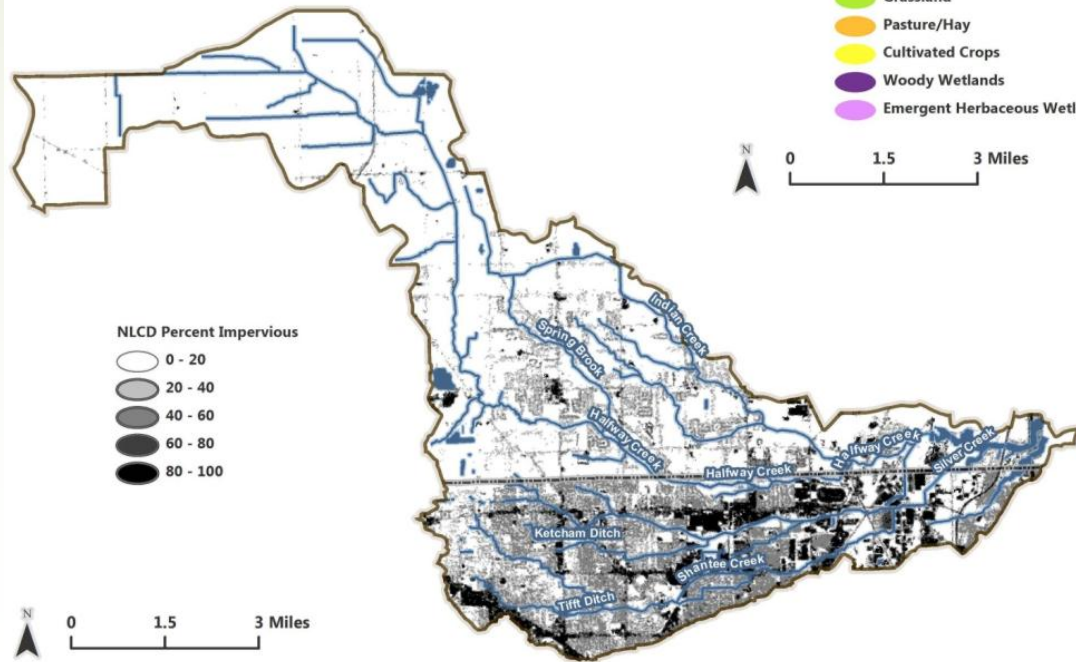


Focus on the AOC-portion of the HSSCA project area (i.e., Ohio-side)

Watershed Characterization



Watershed Characterization



Water Quality Assessment



Available Environmental Data

- Aquatic biology (e.g., IBI)
- Fish tissue chemistry
- Aquatic habitat (e.g., QHEI)
- Surface water chemistry
- Groundwater chemistry
- Sediment chemistry

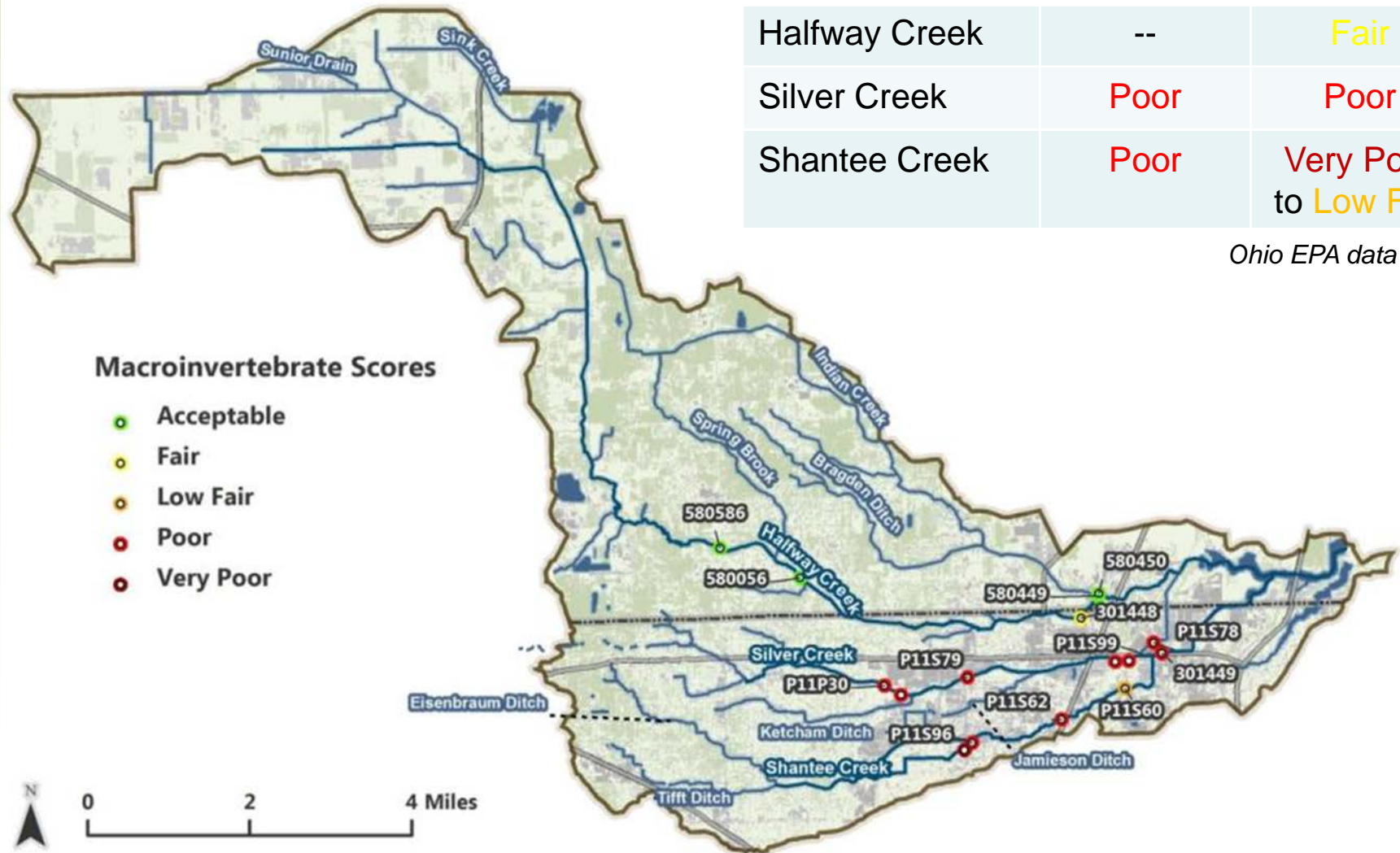


Water Quality Assessment



Stream	1992-1993	2011
Halfway Creek	--	Fair
Silver Creek	Poor	Poor
Shantee Creek	Poor	Very Poor to Low Fair

Ohio EPA data



Identify Pollutants of Concern



■ Environmental Data

- Water column chemistry
- Sediment chemistry
- Fish tissue chemistry

■ Spills Reports

- Mostly generalized POCs (e.g., gasoline, diesel fuel)
- Sometimes specific (e.g., mercury, cyanide)

■ Facility Records



Identify Pollutants of Concern



- Metals
 - Cr, Cu, Pb, Zn
 - As, Cd, Hg, Ni
- Organics
 - PAHs
 - PCBs

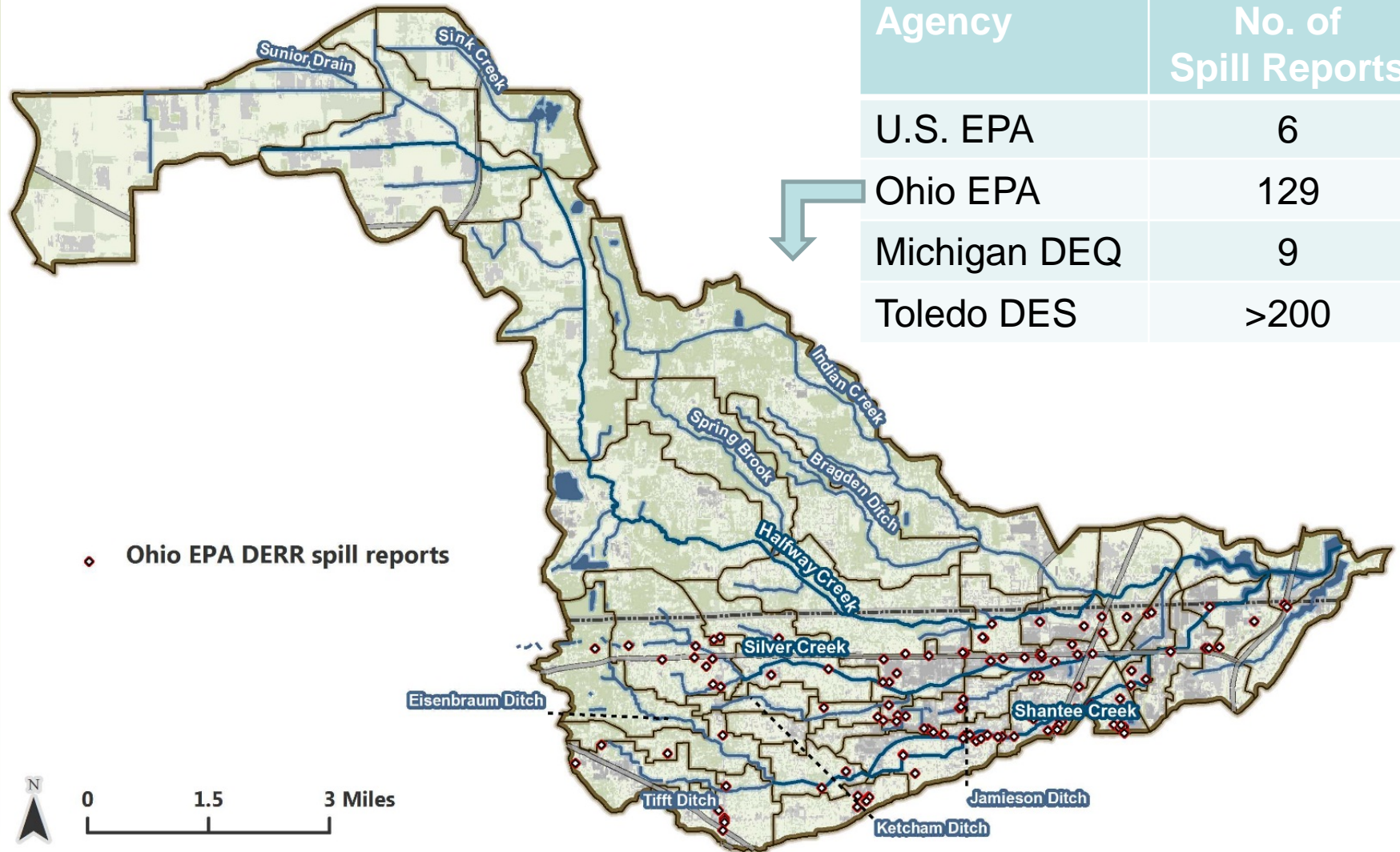
POC	Water column		Fish tissue Detected ^a	Sediment	
	Detected ^a	WQS ^b		Detected ^a	SRV ^b
Metals					
Arsenic	Detected	Less than	ND	--	--
Cadmium	Detected	Less than	Detected	Detected	Exceed
Chromium	Detected	Less than	--	Detected	Less than
Copper	Detected	Exceed	--	Detected	Exceed
Lead	Detected	Exceed	Detected	Detected	Exceed
Mercury	Detected	Less than	Detected	Detected	Less than
Nickel	Detected	Less than	--	Detected	Less than
Selenium	ND	n/a	Detected	ND	n/a
Zinc	Detected	Exceed	--	Detected	Exceed
Polycyclic Aromatic Hydrocarbons					
2-Methylnaphthalene	--	--	--	Detected	Exceed
1,1,1-Trichloroethane	Detected	Less than	--	--	n/a
Benzo[a]anthracene	ND	n/a	--	Detected	Exceed
Benzo[a]pyrene	ND	n/a	--	Detected	Exceed
Benzo[b]fluoranthene	ND	n/a	--	Detected	Exceed
Benzo[g,h,i]perylene	ND	n/a	--	Detected	Exceed
Benzo[k]fluoranthene	ND	n/a	--	Detected	Exceed
bis(2-Ethylhexyl)phthalate	ND	n/a	--	Detected	Exceed
Chloroform	Detected	--	--	--	n/a
Chrysene	ND	n/a	--	Detected	Exceed
Fluoranthene	ND	n/a	--	Detected	Exceed
Indeno(1,2,3-cd)pyrene	ND	n/a	--	Detected	Exceed
Phenanthrene	ND	n/a	--	Detected	Exceed
Pyrene	ND	n/a	--	Detected	Exceed
Polychlorinated Biphenyls					
PCB 1242	--	--	ND	Detected	Exceed
PCB 1248	--	--	Detected	ND	n/a
PCB 1260	--	--	Detected	Detected	Exceed
Pesticides					
Aldrin	ND	--	Detected	--	n/a
gamma-BHC (Lindane)	ND	--	ND	--	n/a
4,4'-DDD	--	n/a	Detected	--	n/a
4,4'-DDE	--	n/a	Detected	--	n/a
Dieldrin	ND	--	Detected	--	n/a
Endrin	Detected	Exceed	ND	--	n/a
Hexachlorobenzene	--	n/a	Detected	--	n/a
Methoxychlor	Detected	--	ND	--	n/a
Mirex	Detected	--	ND	--	n/a

Sources of Pollutants



Program	Number of Records
Federal Registry System	488
National Pollutant Discharge Elimination System	51
Part 201 sites (Michigan)	5
Resource Conservation and Recovery Act	266
Superfund	5
Toxic Release Inventory	11
Underground storage tanks	318
Underground storage tanks (leaking)	223
Volunteer Action Program (Ohio)	1

Sources of Pollutants



Fate & Transport

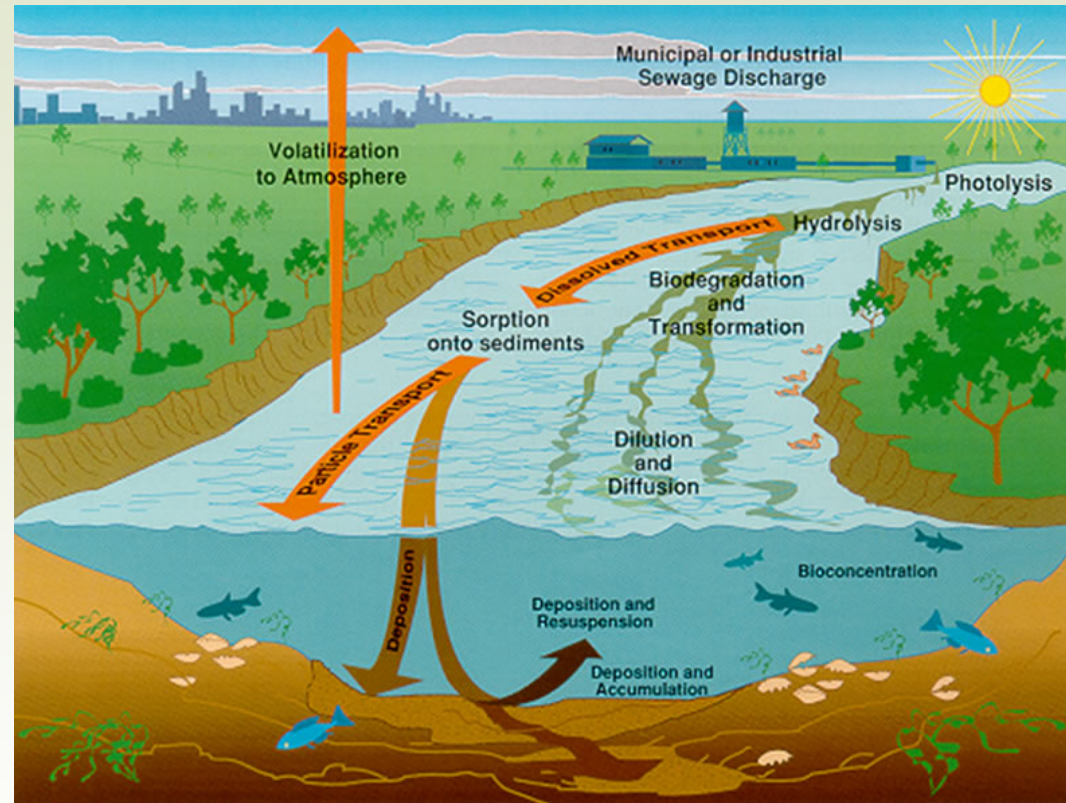


■ Environmental Data

- Limited in-stream data
- Insufficient data to link to potential sources

■ Spill Reports

- Identify in-stream contamination
- Investigates sources and pollutant transport
- POCs often migrate via storm sewers

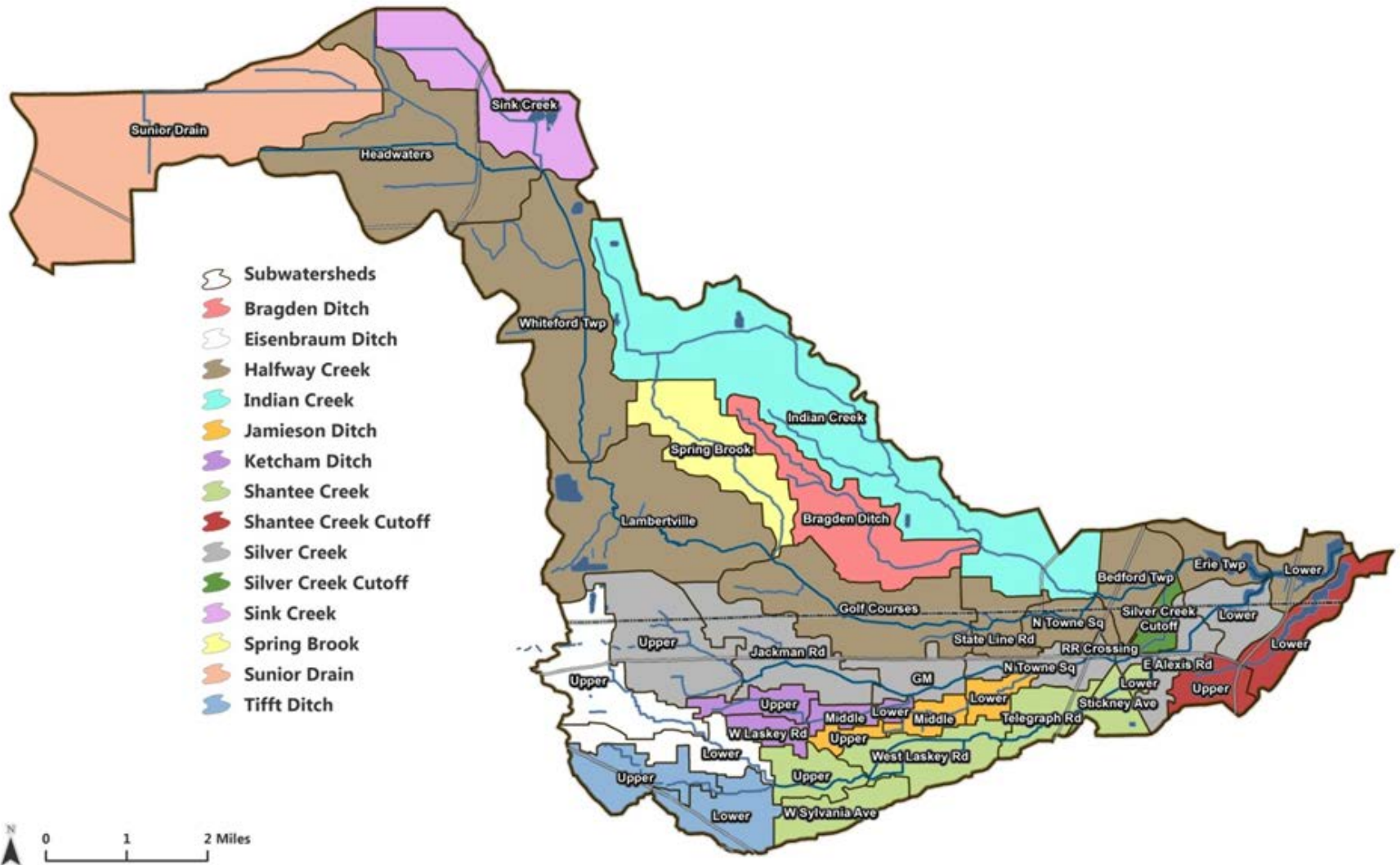


http://toxics.usgs.gov/regional/emc/images/transport_figure_lg.jpg

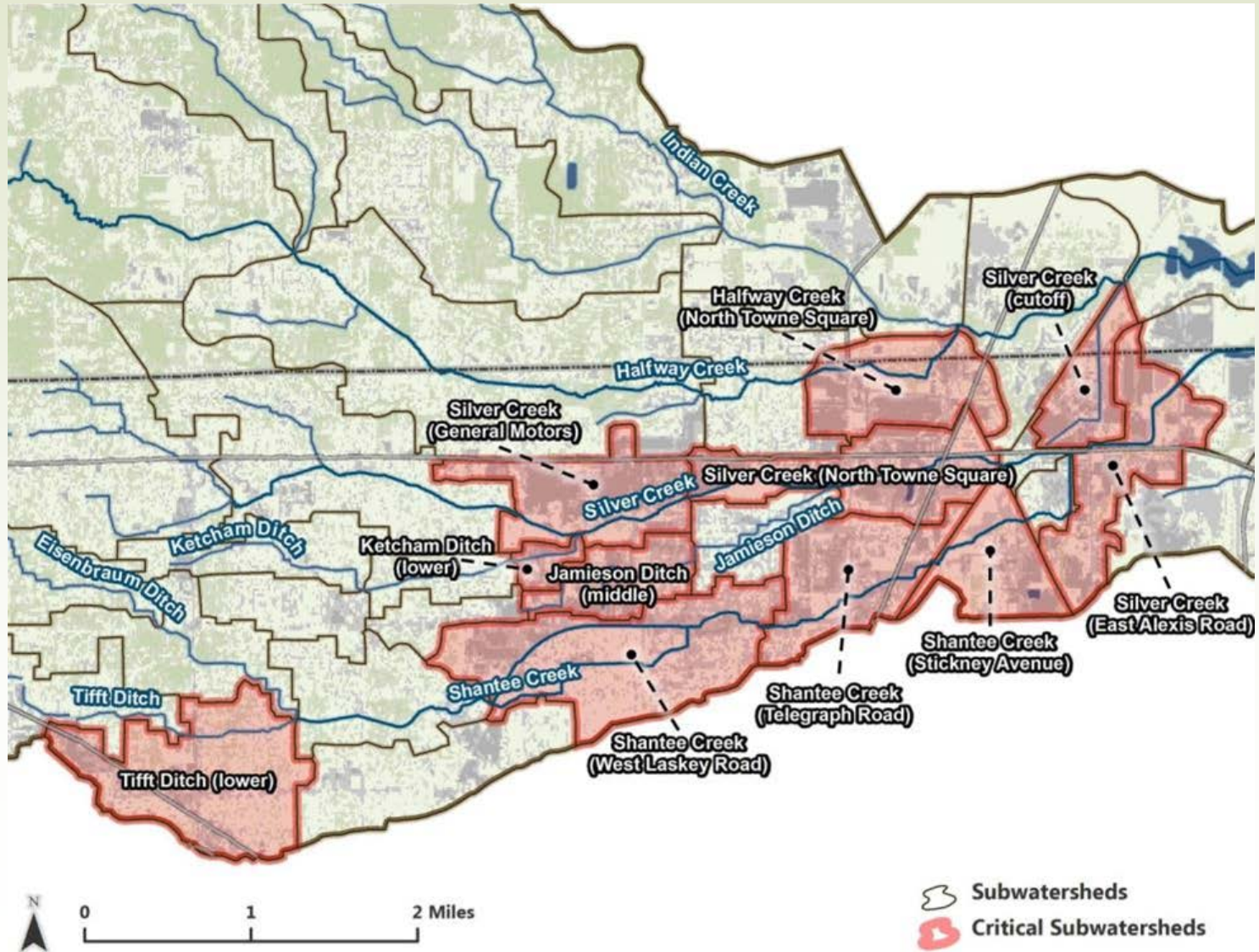
Fate and Transport



Identify & Delineate Critical Areas



Identify & Delineate Critical Areas



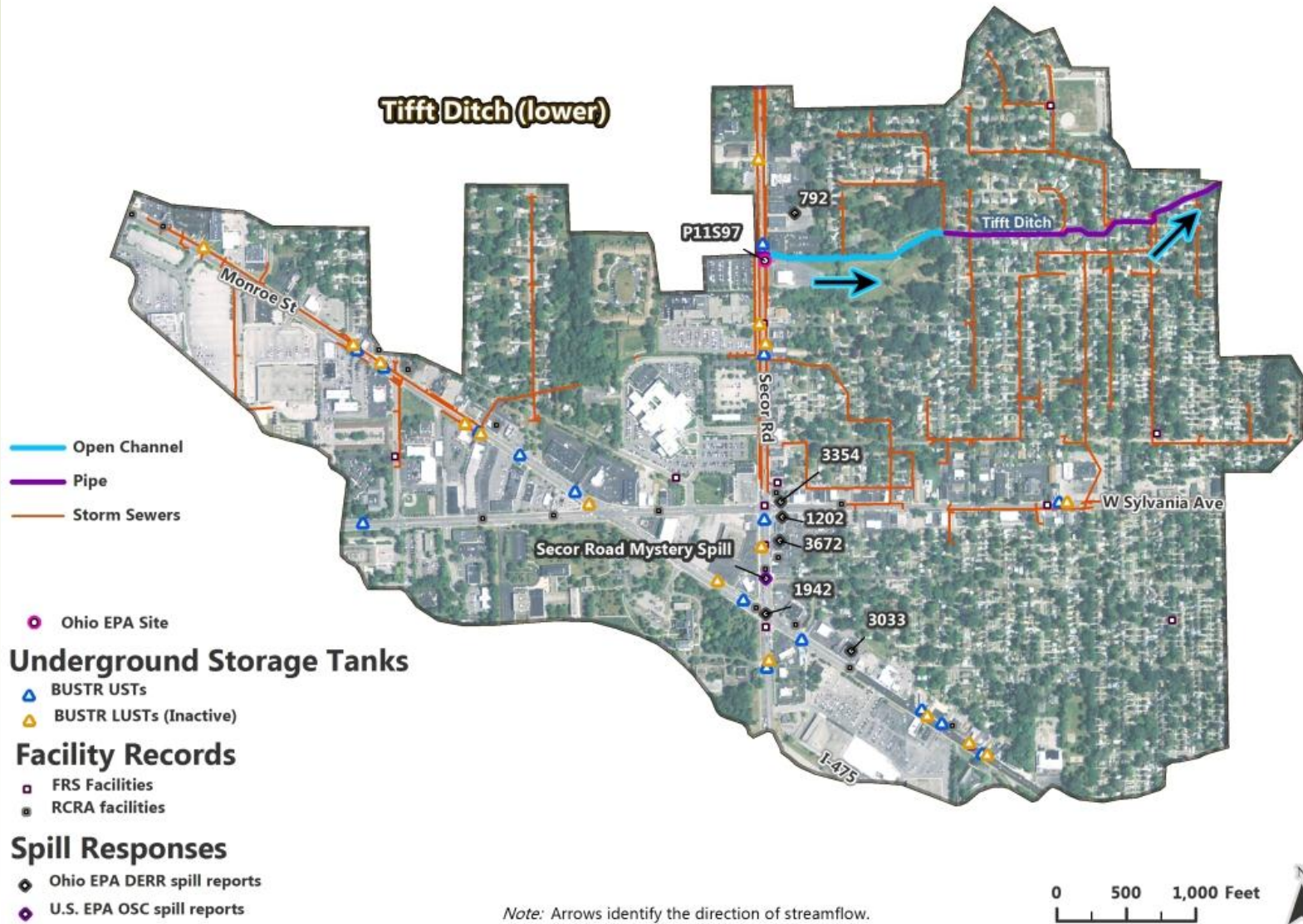
Tifft Ditch (Lower)



- Limited water quality data (1993 QHEI = very poor)
- Facilities as potential sources
 - BUSTR (19 UST records)
 - RCRA (19 records)
- Spills and releases
 - BUSTR (18 LUSTs records)
 - Ohio EPA DERR (5 records)
 - U.S. EPA, Region 5 (1 record)



Tifft Ditch (Lower)



Tifft Ditch (Lower)



- BUSTR LUSTs (18 inactive records)
 - Closure (9) & suspected contamination (9)
 - No Further Action (17) & disproval of release (1)
- Spills Reports (6 records)

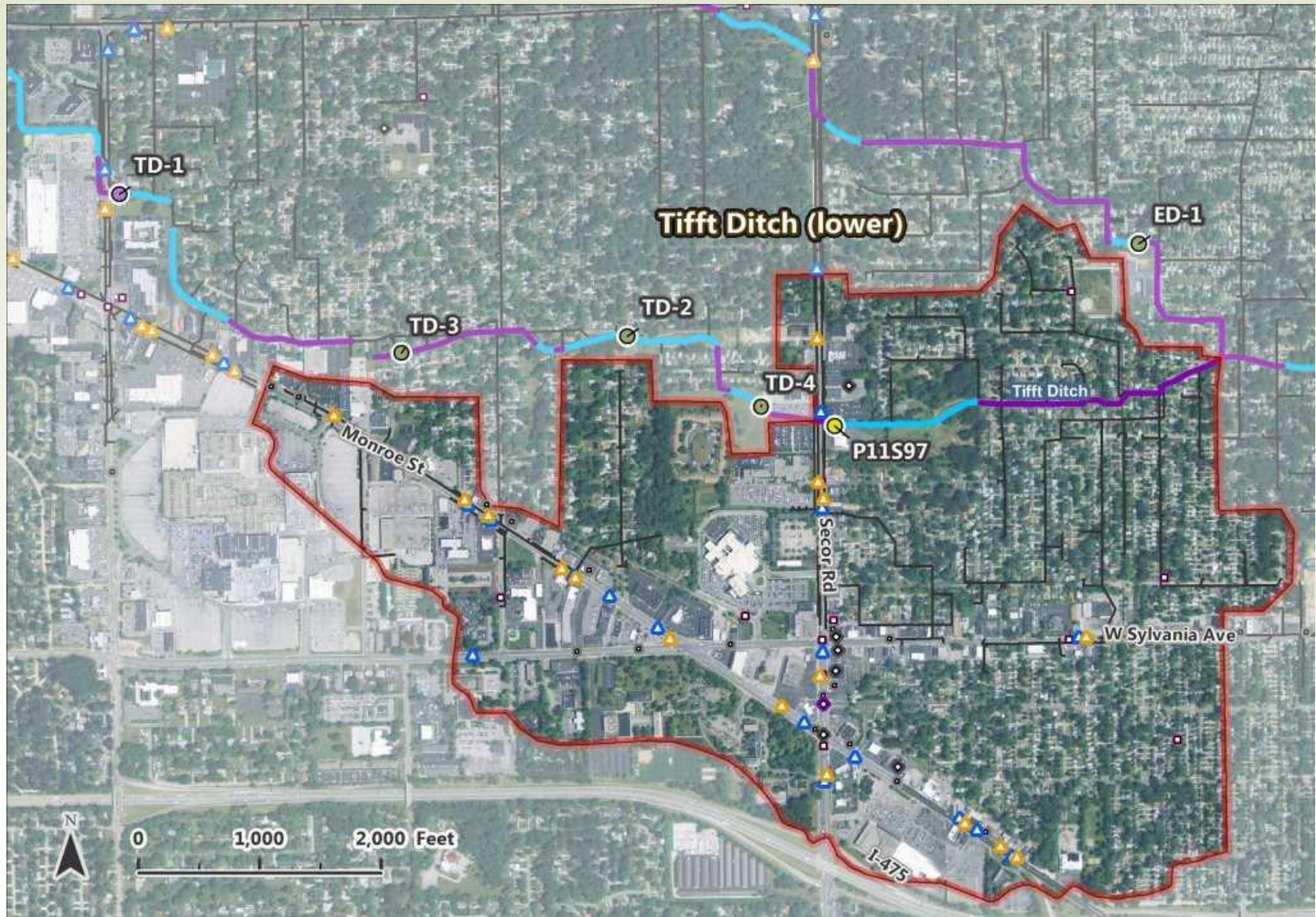
Agency	Spill ID	Date spill reported	Spilled product name	Volume (gallons)	Receiving waterbody	Importance of spill ^a
DERR	1995-3672	9/28/1995	gasoline	<i>unknown</i>	<i>none reported</i>	◆
DERR	1997-1942	5/20/1997	gasoline Banner product mixture ^b	20 <i>unknown</i> 400	storm sewers	◆◆◆
DERR	2003-3033	8/6/2003	diesel fuel	10	storm sewers ^c	◆◆
DERR	2005-0792	2/8/2005	mercury	<i>unknown</i>	<i>none reported</i>	◆
DERR	2010-1202	5/6/2010	<i>unknown</i> <i>petroleum</i>	50	storm sewer catch basin ^c	◆◆◆
R5	E10522	5/13/2010	<i>weathered</i> <i>gasoline</i>	unknown	storm sewers ^c	◆◆◆

Tifft Ditch (Lower)



- Spills and Releases
 - BUSTR LUSTS: no release of POCs
 - Spill reports: minor spills to storm sewers
- Future sampling
 - Tifft Ditch (upper): field parameters, sediment
 - Tifft Ditch (lower) : field parameters, water, sediment
 - Eisenbraun Ditch (lower): field parameters
- Investigate Restoration Opportunities
 - east of Secor Road
 - Foxglove Meadow Park

Tifft Ditch (Lower)



Tifft Ditch (Lower)



Tifft Ditch (lower) in Foxglove Meadow Park

Tifft Ditch (lower) east of Secor Road

Conclusions



- Identify possible ongoing sources of contamination and locations of historic contamination.
 - Compiled and assessed a considerable amount contamination data
 - Identified POCs to be metals, PAHs, an PCBs
- Delineate critical areas to be addressed by future activities, including remediation.
 - Biology and habitat generally poor throughout project.
 - Delineated critical areas for further study that require additional data collection to support future remediation activities
 - A few potential habitat restoration areas were identified.
- Determine appropriate control strategies to remediate the pollutant sources.

Questions & Comments



■ Summary Report

- Available at the *Data Management and Delisting System*
- <http://dmds.maumeerap.org/view.cfm?type=project&id=425>

■ Contacts

- Paul Proto (U.S. EPA, Region 5) proto.paul@epa.gov
- Cherie Blair (Ohio EPA): cherie.blair@epa.ohio.gov





Project 80: Birds as Indicators of Contaminant Exposure and Effects in the Great Lakes – the Maumee AOC

Christine Custer and Thomas Custer,
USGS, Upper Midwest Environmental Sciences Center
La Crosse, WI

Introduction

Why swallows?

Overview – GLRI project

Specifics for the Maumee AOC





- Contaminant research on birds since the 1970s
- Worked on the East Coast and Gulf Coast before moving to the upper Midwest in 1991
- Began working with tree swallows in the mid-1990s

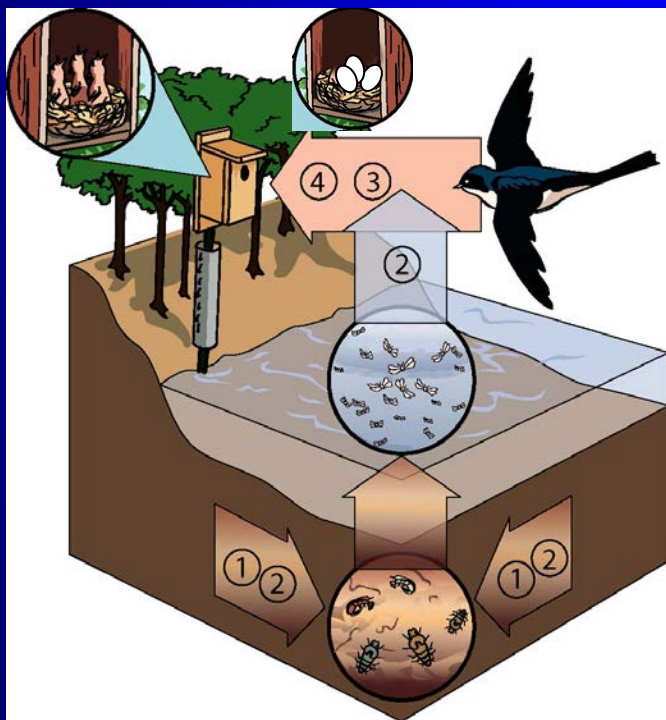
Why swallows - rather than other bird species





Attributes

- Feed on benthic invertebrates
- Close ties to sediment contamination
- Nest boxes at areas of interest
- Adequate sample size
- More localized feeding (± 0.5 km)
- Integrate over appropriate time and space scales
- Linkage is short
- Numerous sampling points
- Efficient to sample
- Existing data for comparison



Scope of Work for GLRI Project 80

Use tree swallows and colonial waterbirds to:

- 1) Assist States & EPA in the assessment of wildlife BUIs (n = 2 BUIs)
- 2) Evaluate remedy effectiveness
- 3) Enhance our understanding of contaminant effects



BUI assessments

1. Bird or Animal Deformities or Reproduction Problems



2. Degradation of Fish and Wildlife Populations



Wildlife BUIs



Measure tissue concentrations (e.g. PCBs, dioxins and furans, pesticides, trace elements [Hg, Se, Cd, etc.]) in eggs, and then

Compare those to effect concentrations

Directly measure reproductive rates and

Assessing other effect endpoints (EROD, -omics, genetic damage, oxidative stress)

Using genetic damage as a surrogate for polycyclic aromatic hydrocarbons (PAHs – petroleum products)



Overview and Progress -

- 60 sites in 25 AOCs (24 sites in 2010 ▲ ; 11 new in 2011 ▲ ; 12 more in 2012 ▲ ; 7 new in 2013 ▲ ; 6 new in 2014 ▲)



Toledo, OH



Ottawa River

Ottawa River (since 2010) –
pre-, during, and post-
dredging

Boxes at 3 landfills

Maumee AOC

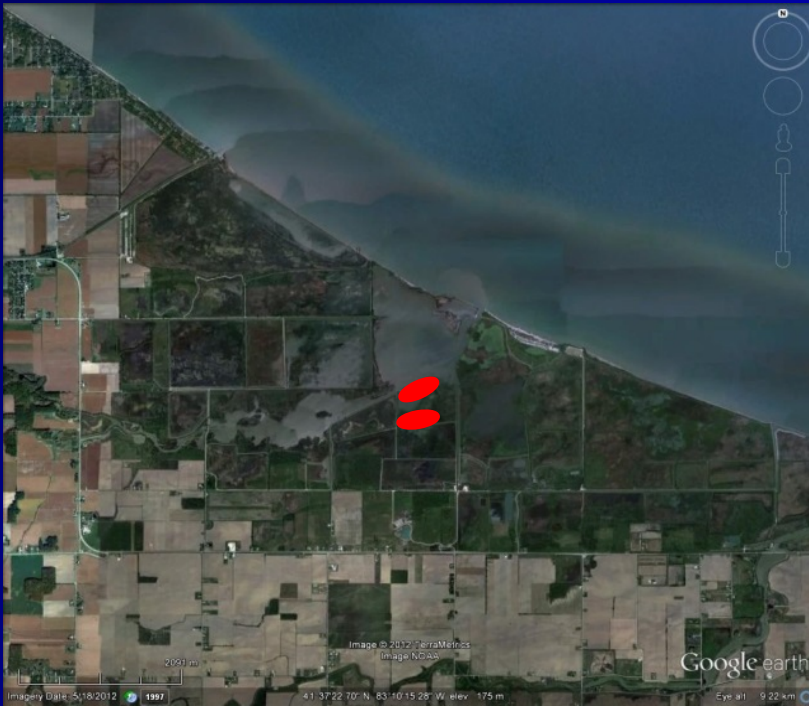
Lower Maumee River (since
2011)



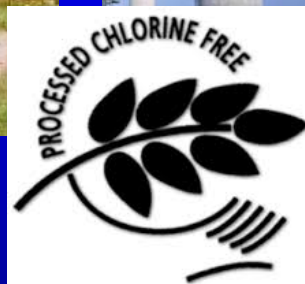
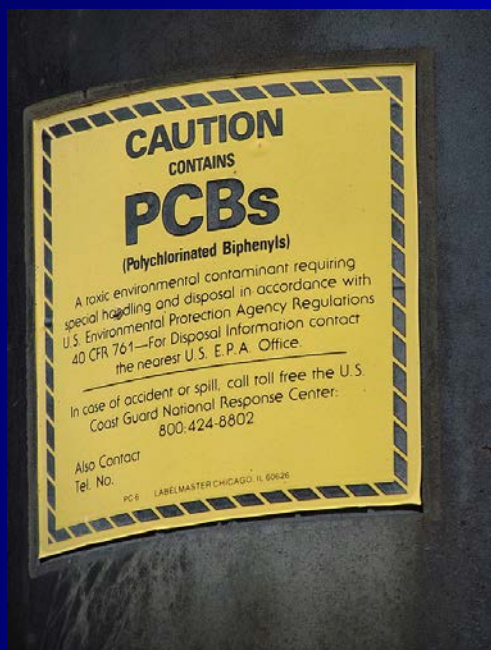
Maumee River

Ottawa Nat'l Wildlife Refuge

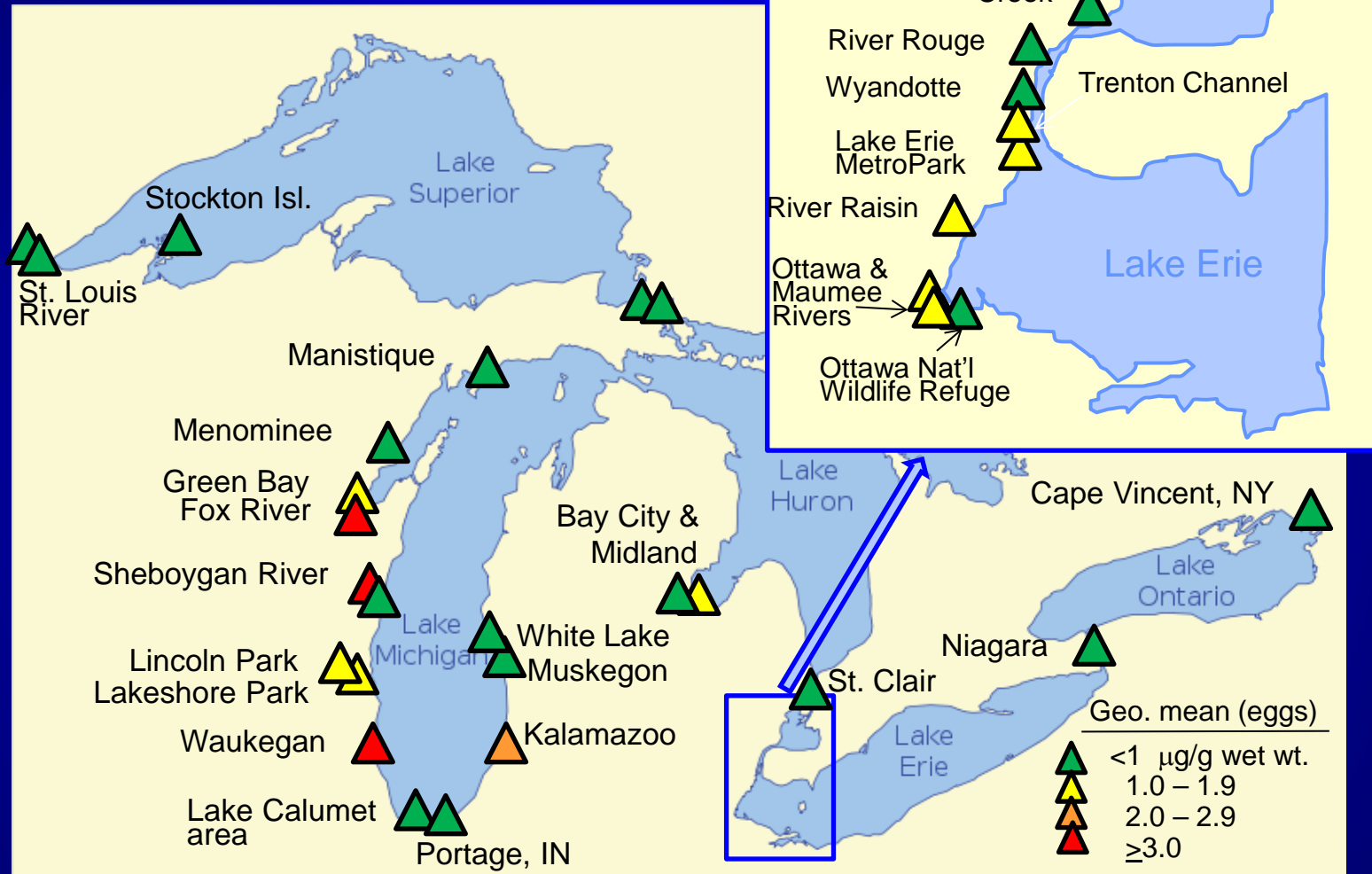
(impoundment and along Crane Creek)



Chemical data



PCBs – 2010, 2011, & 2012 Tree swallow eggs



Dioxins & Furans – 2010 & 2011

Tree swallows





Mercury – 2010 & 2012

Tree swallows





Additional contaminant information available



Upper Midwest Environmental Sciences Center

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Providing the scientific information needed by managers, decision makers, and the public to protect, enhance, and restore the ecosystems in the Upper Mississippi River Basin, the Midwest, and worldwide.



Great Lakes Restoration [link to information](#) [show all topics](#)


Scientists focus efforts on controlling Asian carp, investigating contaminant and botulism effects on birds, and understanding ecology of tributaries in support of the Great Lakes.

9/10

Can't see Flash? Install [Flash Player](#) or use the [HTML version](#).


National Native American and Alaska Native Heritage Month – November 2014

USGS Social Media



Impact of UMESC Science

The UMESC works with a wide range of [partners](#) to conduct applied research essential to solving natural resource management problems. For examples of the impact of UMESC science, click on image.



Search the UMESC web site


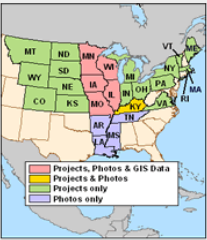
Search...

☐ All USGS ☒ This site only

UMESC Science

Wildlife Toxicology

Select a State ▾ Select a River ▾



Projects, Photos & GIS Data
Projects & Photos
Projects only
Photos only

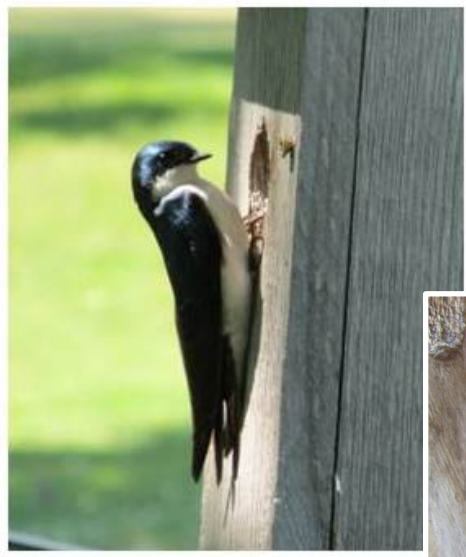
Upper Mississippi River System:

[UMRR-EMP Long Term Resource Monitoring Program](#)

The Upper Midwest Environmental Sciences Center is the science leader of the [Long Term Resource Monitoring Program](#) (LTRMP), an element of the U.S. Army Corps of Engineers' [Upper Mississippi River Restoration—Environmental Management Program](#) (UMRR-EMP). The LTRMP is the Nation's largest river monitoring program with six remote state-operated [field stations](#).

BUI – Bird or Animal Deformity or Reproductive Problems

- Number of nests initiated
- Number of eggs laid
- Number (%) that hatch
- Number of young fledged



Ottawa River sites (n=3 sites, 5 years) – normal reproduction
- Nearly all nests hatch and fledge young

Ottawa Nat'l Wildlife Refuge – normal reproduction

Maumee River site (n=1 site) – nearly total reproductive failure in 2014 and poor reproduction in 2012 & 2013



Nests are initiated, eggs are laid,
but then many nests abandoned

It's a mystery that we wish to
solve!



Options we've ruled in or ruled out.

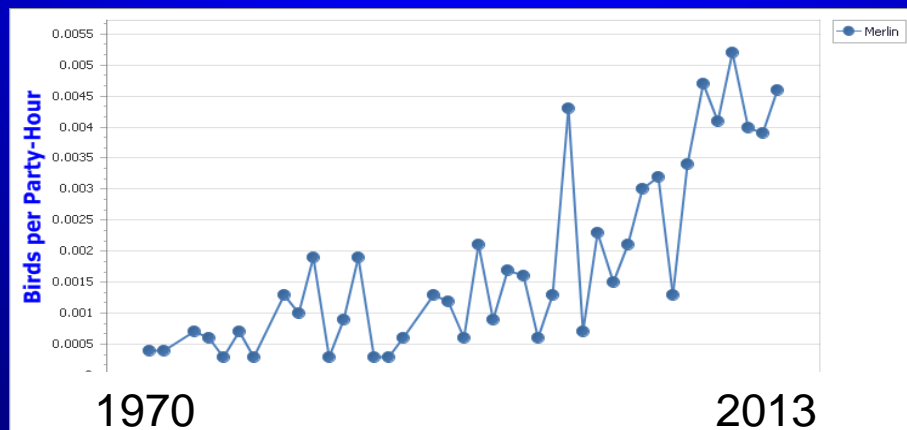
Weather – similar between Ottawa and Maumee sites

Predators – boxes are protected from ground predators, but an aerial predator could be possible

Solution: add new box arrays upstream or downstream to see if other nearby sites are similarly affected

Exposure to unidentified contaminants

Solution: biomarkers may help parse out and direct this assessment



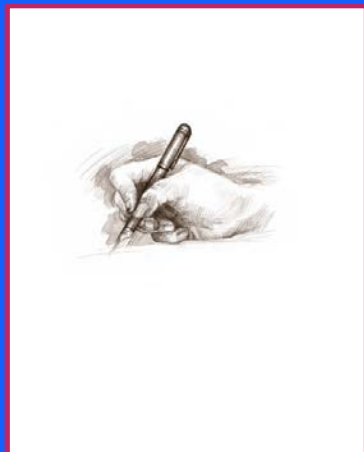
2015 and beyond

Continue collecting samples and monitoring reproduction
at the Maumee site

Expand sites on the Maumee River (upstream and downstream)
and add other locations of particular interest

See what information we can glean from our biomarker data
as well as other information for the Maumee

http://www.umesc.usgs.gov/wildlife_toxicology/glri_project80.html



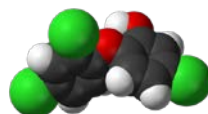
Goals and objectives



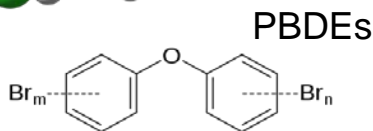
Maps and habitats at current study sites



Why use swallows?



PFCs



PBDEs



Thank you



► OHIO'S NEW BUI
RESTORATION TARGETS
AND PROGRAM FRAMEWORK



► GLLA SEDIMENT
CHARACTERIZATION



► SAMPLING
AND REPORTS

Maumee AOC

REPORT FROM OHIO EPA
MAUMEE AOC COORDINATOR
INCLUDES SPECIAL REPORT FROM
US EPA MAUMEE AOC TASK FORCE LEAD

Maumee AOC Fall/Winter Summit
December 4, 2014

NEW BUI RESTORATION (DELISTING) TARGETS FOR OHIO

Ohio EPA spent 2 ½ years conducting the most comprehensive review/update of Ohio's BUI Restoration Targets since they were written in 2005. The updates were to bring the targets in line with other Ohio EPA programs and to make them more clear and measureable. In late May 2014 Ohio EPA released this new "*Delisting Guidance and Restoration Targets for Ohio's Areas of Concern*". The new document includes step-by-step guidance on how to do such things as "remove a BUI" and "delist a watershed." These new targets are the foundation for BUI evaluations in the Data Management and Delisting System (DMDS) that is being developed by PCS and Ohio EPA. Available at http://epa.ohio.gov/portals/35/lakeerie/Ohio_AOC_Delisting_Guidance.pdf.

NEW PROGRAM FRAMEWORK FOR OHIO'S AOCs

This new *Framework for Reorganizing and Implementing Ohio's Remedial Action Program in Support of Ohio's Areas of Concern* (Oct. 2014) was prepared to re-align activities of local "RAP" groups and Ohio EPA Lake Erie Program staff in order to accelerate the implementation of restoration projects within Ohio's four Areas of Concern. This Framework is to be applied to all of Ohio's AOCs with the exception of the Ashtabula River AOC where all needed management actions have been completed.

This Framework identifies a local AOC Advisory Committee and a local AOC Facilitating Organization and how the two will work together. The Framework is designed to provide clarity and guidance for local AOC Facilitating Organizations, local AOC Advisory Committees and Ohio EPA's AOC program staff. Minimum performance expectations are provided to establish consistency within the program and lay the foundation for effective interaction between the groups. The Framework further delineates responsibilities, expectations and the actions that are necessary to more effectively engage the public, assist local implementers and to work cooperatively with state, local and federal partners to achieve common goals and objectives of BUI removal and AOC delisting. This document is available on Ohio EPA's web site at <http://www.epa.state.oh.us/LinkClick.aspx?fileticket=UoZ0rtvwsyM%3d&portalid=35>

GLLA SEDIMENT SITE CHARACTERIZATION REPORTS

US EPA GLNPO has conducted several Great Lakes Legacy Act Sediment Site Characterizations in the Maumee AOC in the past few years. The most recent study was in the lower 4 miles of the Swan Creek watershed. This was the second round of sampling in Swan Creek (first round was only lower 2 miles). The reason for the second round was due to the level of contamination and inconclusive findings from the first round. Sampling was conducted in June 2014 and the final report was made available in early November. Due to the size of the report (30MB) it is available on request from Cherie Blair, Maumee AOC Coordinator, Ohio EPA (cherie.blair@epa.ohio.gov) or Michael Bryant, US EPA (Bryant.Michael@epamail.epa.gov).



Cherie Blair, Maumee AOC Coordinator, Ohio EPA
419-373-3010 cherie.blair@epa.ohio.gov



MAUMEE RIVER SAMPLING AND TMDL REPORT

The Maumee River (3 Large River Units) were assessed by Ohio EPA in 2012. Since sampling was conducted, a US EPA contractor has been working to develop a TMDL report for this waterbody. A draft report is expected to be released for public comment in Spring 2015.

During the Summer of 2015, Ohio EPA will be conducting stream assessments for the remaining Upper and Lower Maumee River watersheds. Upon completion of this survey, the whole Maumee River watershed will have been assessed. Next summer's sampling in the Maumee River watershed is entirely upstream of the Maumee AOC.

HALFWAY, SILVER AND SHANTEE CREEKS ANALYSIS

Halfway, Silver, and Shantee creeks are part of the Maumee Area of Concern (AOC). During Ohio EPA's 2011 Ottawa River (Tenmile Creek) Stream Assessment contaminated sediment issues were noted in these creeks. Tetra Tech, as US EPA's contractor, in collaboration with US EPA and Ohio EPA staff conducted an analysis of these three watersheds. This report presents a summary of the study including data regarding environmental monitoring, regulated facilities, spills, and characteristics of these watersheds that were obtained from federal, state, and municipal regulatory agencies. These data were evaluated, within a framework of multi-scale spatial analyses, to develop a conceptual model that relates the pollutants of concern (POCs) to the POC sources and the fate and transport of the POCs through the environment. The report is expected to help to determine possible future projects in these watersheds in order to achieve beneficial use restoration. Information is available at <http://dmds.maumeerap.org/view.cfm?type=project&id=425>. To download the report, follow the link in the tan box on the right side under "Document".

2015 ANNUAL US AOC CONFERENCE AT UNIVERSITY OF TOLEDO

The U.S. Environmental Protection Agency will be hosting the 2015 Areas of Concern Annual meeting on Wednesday and Thursday, March 11-12 at the University of Toledo, Toledo, Ohio. Mark your calendars, reserve this date and spread the word to all who may be interested in attending. The event is tentatively planned to begin at 10:00 am on Wednesday, March 11 and last until Noon on Thursday, March 12. For more details contact John Perrecone at 312-353-1149 or by email at perrecone.john@epa.gov.

SPECIAL REPORT FROM MAUMEE AOC US EPA TASK FORCE LEAD KEVIN O'DONNELL

GLRI FUNDS TO HELP LAKE ERIE: U.S. Environmental Protection Agency awarded four Great Lakes Restoration Initiative (GLRI) grants totaling over \$8.6 million to Ohio, Michigan and Indiana state agencies to protect public health by targeting harmful algal blooms in western Lake Erie. These monies will fund critical projects in Ohio, Michigan and Indiana to expand ongoing efforts to reduce the amount of phosphorus entering Lake Erie. GLRI grants to the Ohio Department of Natural Resources (approximately \$5.9 million), the Ohio Environmental Protection Agency (over \$1.5 million), the Michigan Department of Agriculture and Rural Development (approximately \$807,000) and the Indiana Department of Agriculture (approximately \$360,000) will fund eight projects. The grants will be used to: 1) provide technical assistance and incentives to farmers in western Lake Erie watersheds to reduce phosphorus runoff that contributes to harmful algal blooms and 2) improve measurement of phosphorus loads in Lake Erie tributaries.

More information about GLRI grants is available at
<http://www.epa.gov/greatlakes/glri>.



Cherie Blair, Maumee AOC Coordinator, Ohio EPA
419-373-3010 cherie.blair@epa.ohio.gov





Maumee Area of Concern Small Grant Request for Proposals

Ohio Environmental Protection Agency (EPA), Partners for Clean Streams Inc. (PCS), and Maumee AOC Advisory Committee (MAAC) announces funding available to support projects within the Maumee Area of Concern (AOC). The aim of these funded projects is to make measurable improvements toward the removal of beneficial use impairments within the Maumee AOC. We are seeking opportunities to support new projects that can address water quality concerns or that may represent demonstration projects that could result in future expansion into larger projects from other funding sources.

Eligible Applicants and Projects

Eligible applicants include local municipalities, non-government organizations, public land management agencies, and universities. Proposals will be **due on Friday, January 30, 2015 at 5:00pm (EST)** and should be submitted in PDF format to PCS. Awards to be announced in mid-March 2015. Work can start as soon as a contract with PCS is signed. All projects need to be completed by June 30, 2016.

Two types of projects are being requested for the submission of proposals

1. Ottawa River - Tenmile Creek HUC (04100001 03 06):
 - a. Improvements of fish populations (looking for MIwb score improvements)
 - b. One (1) project funded at \$15,000 maximum
2. Maumee Area of Concern:
 - a. Demonstration projects*
 - b. Two (2) projects, funded at \$10,000 maximum each

*Examples of demonstration projects include:

- bioswales
- rain gardens
- wetland restoration
- streambank improvements
- removal of riparian or wetland invasive species
- planting of riparian or wetland native species
- in-stream habitat improvements

For other types of potential demonstration projects, please contact PCS to discuss and seek approval of the project before preparing and submitting a proposal.

These grants *will not support* projects focusing on research only, monitoring, sampling or education only efforts. The proposals do not require local match, and these funds are not intended to be used solely as a match for a larger grant proposal to another funding source. Funded projects from these grants are to support “on the ground” direct, implementable work with measurable results to improve habitat, water quality or other environmental conditions in local rivers and streams, and associated riparian and wetland areas, within the Maumee AOC specifically aimed to address beneficial use impairments. Applicants will be required to provide documentation of achieved goals as intended outcomes of their project. For example, acres of restoration, stream miles improved, number of plants, or estimated volume of storm water retention.

Budgetary Requirements

Permissible budget expenses include overhead and staff (capped at 15% of requested amount), equipment, supplies, materials, subcontracts, and meeting costs. Applicants are also encouraged to include some form of public engagement, outreach or educational opportunities within their project that could include workshops, public meetings, signage, website or informational brochures.

Monitoring and Reporting

Awardees will not be required to complete post-project monitoring of results and outcomes as related to measured improvements of BUIs within the defined project site/HUC, as this work will be completed by Ohio EPA. Awardees will be required to provide semi-annual financial and project progress reports to PCS, as well as updates at the semi-annual Maumee AOC Summits.

Proposal

The proposal is limited to a total of ten (10) pages, including all text, maps, tables and illustrations and should include the following information:

- ◆ Project Title
- ◆ Contact Person, Company/Organization, address, phone number, email
- ◆ Site, including location and 12-digit HUC name/number within the Maumee AOC
- ◆ Project Description
- ◆ Methods and Techniques
- ◆ Aims and Anticipated Project Outcomes
- ◆ Schedule and Deliverables
- ◆ Public Engagement and Outreach Efforts
- ◆ Detailed Budget
- ◆ Summary of Qualifications of the Organization and PI

Scoring Criteria

The evaluation of proposals submitted will be based on the following scoring:

Project Definition and need (10 points)
Work plan and outcomes (10 Points)
Relevance to improving/removing BUI(s) (10 points)
Qualifications of applicant (10 points)
Budget Justification (10 points)
TOTAL = 50 points

A proposal review team consisting of representatives from Ohio EPA, PCS and the MAAC will conduct the evaluation of proposals and selection of awardees. Successful applicants will be notified of their award in mid-March 2015.

Proposal Submission and/or Questions

Please contact Kristina Patterson, PCS Executive Director, by phone at 419-874-0727 or via email at executive.director@partnersforcleanstreams.org.

**DEADLINE FOR SUBMISSION OF PROPOSALS
IS FRIDAY, JANUARY 30, 2015
BY 5:00PM (EST)
VIA EMAIL in PDF FORMAT TO PCS**



Maumee AOC Advisory Committee (MAAC) Information and Application

The Ohio EPA and the Maumee AOC's local Facilitating Organization (Partners for Clean Streams) are looking for people to join the new Maumee AOC Advisory Committee (MAAC). If you are interested in helping to improve the ecosystem health of our area, then consider joining the MAAC.

The MAAC has been created to perform the crucial task of advising state and federal partners on which projects are needed to provide focused and expedited improvements to the Maumee AOC by identifying strategic priorities within the AOC, encouraging completion of needed management actions, and serving as the voice of the AOC community.

This working committee, in collaboration with its local Facilitating Organization, will help to steer the course of what is happening to restore beneficial uses in the Maumee AOC, where it is happening, and how it is getting done with its presence, committees, programs, projects, and activities.

The MAAC is also an important liaison with the local AOC community. The MAAC's engagement is critical for successful implementation of recommended projects and especially for ensuring that the public has a voice in the AOC process.

As you consider this opportunity for membership on the MAAC, please review this list of expectations and considerations. We encourage those interested in this opportunity to apply for MAAC membership. Selection will be made by a peer review team that will review anonymous applications based on criteria determined prior to review.

To be considered for membership, please complete the application form and submit it along with your employer/organization letter of support (if required) by **Monday, January 5, 2015** to:

MAAC Member Recruitment
c/o Partners for Clean Streams
PO Box 203
Perrysburg, Ohio 43552

or email to:
admin@partnersforcleanstreams.org.

Maumee AOC Advisory Committee

EXPECTATIONS and CONSIDERATIONS

The Maumee AOC Advisory Committee (MAAC) members will:

- Commit to a 2-year term starting in January (half of the MAAC member terms will end each year);
- Attend at least 75% of the meetings each year (usually held quarterly) (average 2-4 hrs/mtg);
- Actively participate and engage in making decisions on issues and other MAAC business;
- Stay informed with what is going on in the MAAC, ask questions and request information;
- Act in the best interests of the AOC and excuse themselves from discussions and votes where there is (or may be perceived) a conflict of interest*;
- Act in full compliance with Ohio Ethics Laws;
- Interpret the MAAC's work and values, and promote them and the MAAC to the community;
- Work in good faith with other MAAC members, the Facilitating Organization, and Ohio EPA towards achievement of the agreed upon common goals and priorities; and,
- Attend and/or assist with at least one outreach/education event each year.

** Serving as a member of the MAAC is not in conflict with applying for or receiving any grants.*


The Local Facilitating Organization (Partners for Clean Streams) will:

- Provide an orientation to new MAAC members, as well as Ethics Training from the State of Ohio (by webinar) for all MAAC members;
- Submit at each meeting a financial update for the local Facilitating Organization activities related to their AOC-Support grant provided by Ohio EPA;
- Respond to questions that are needed to carry out member responsibilities to the MAAC;
- Work in good faith with MAAC members and the Ohio EPA towards achievement of the agreed upon common goals and priorities;
- Maintain a Maumee AOC website with information about the AOC and the MAAC; and,
- Assist AOC project implementers with grant applications to implement recommended management actions.

The State AOC Coordinating Agency (Ohio EPA) will:

- Serve as an ex-officio member to the MAAC and any other AOC local subcommittees, as appropriate;
- Provide Ohio EPA AOC Program update at each quarterly MAAC meeting;
- Provide access to technical assistance and highlight funding opportunities;
- Work in good faith with MAAC members and the local Facilitating Organization towards achievement of the agreed upon common goals and priorities;
- Coordinate with the local Facilitating Organization to track and report implemented management actions;
- Assist with public outreach and educational activities related to the AOC; and,
- Review and update BUI status when new monitoring data becomes available.

For more information on the roles and responsibilities of local AOC Advisory Committees, local AOC Facilitating Organizations and Ohio EPA Lake Erie Program staff, consult the *Framework for Reorganizing and Implementing Ohio's Remedial Action Program in Support of Ohio's Areas of Concern* (Oct. 2014). This document is available on Ohio EPA's web site at <http://www.epa.state.oh.us/dsw/lakeerie/index.aspx#125637033-documents>.



Maumee AOC Advisory Committee (MAAC) Application Form



Maumee AOC Advisory Committee (MAAC) Application Form

Name		Title	
Company/Organization			
Preferred Mailing Address			
City		State	Zip Code
Daytime Phone		Cell Phone	
Fax		Email	

Preferred method of contact: ☐ Phone (daytime) ☐ Phone (cell) ☐ Email

Is it ok to send you text messages/alerts? ☐ Yes ☐ No

1) Please check the category you are applying to represent? (check only one)

- ☐ Local Government *(i.e. counties, cities, special districts and authorities)*
- ☐ Academic Institutions/Nonprofit Organizations *(i.e. schools, colleges, 501(c)3 organizations)*
- ☐ Business/Industry *(i.e. industry, commerce, for-profit organizations)*
- ☐ General Public *(i.e. residents, landowners, concerned citizens)*

Note: if you would like to be considered for more than one category/sector please complete a separate application for each with your answers based on that category/sector

2) Please check any skills, experience and interests you would like us to consider. (check all that apply)

- | | | |
|---|---|---|
| <input type="checkbox"/> finance, accounting | <input type="checkbox"/> community service | <input type="checkbox"/> regulatory, permitting |
| <input type="checkbox"/> nonprofit experience | <input type="checkbox"/> strategic planning | <input type="checkbox"/> administration, management |
| <input type="checkbox"/> policy development | <input type="checkbox"/> social media | <input type="checkbox"/> education, instruction |
| <input type="checkbox"/> public relations, communications | <input type="checkbox"/> outreach | <input type="checkbox"/> government relations |
| <input type="checkbox"/> project management | <input type="checkbox"/> legal | <input type="checkbox"/> technology management |
| <input type="checkbox"/> ecosystem evaluation (i.e. QHEI, ORAM) | <input type="checkbox"/> grant writing | <input type="checkbox"/> project development |
| <input type="checkbox"/> biological sampling (i.e. fish, bugs) | <input type="checkbox"/> leadership | <input type="checkbox"/> OTHER: _____ |
| <input type="checkbox"/> sediment and water sampling | <input type="checkbox"/> program evaluation | <input type="checkbox"/> OTHER: _____ |

3) Are you interested in leadership within the MAAC? (check all that apply)

- ☐ Maumee AOC Advisory Committee
- ☐ Science Advisory Team
- ☐ Membership Recruitment/Selection Team
- ☐ Project Management Team

Please provide brief (2-4 sentences or a short list) answers to the following questions

Please do NOT attach a resume or curriculum vitae. It will not be considered. Membership decisions will be based on the answers to the following questions.

4) Describe your strengths or and areas of expertise and how they would be applicable to a seat on the MAAC.

5) Why are you interested in participating on the MAAC?

6) How do you feel the MAAC would benefit from your involvement?

7) a) Please list other board(s) or committee(s) you served on or have served on.

(i.e. business, civic, community, fraternal, profession, recreational, social)

Organization	Role/Title	Dates of Service

b) Please provide a name, email, and phone number of someone you currently or formerly volunteered with. Please tell us your relation to the reference.

8) What other volunteer commitments do you currently have?

- 9) a) If applying to represent Local Government, Business/Industry, Academic Institutions/Nonprofit Organizations, will your company or organization support your time and commitment to the MAAC?

☐

Yes

☐

No

b) Please attached to this application a letter on company/organization letterhead confirming their support of your MAAC membership.

- 10) Please list any education, training or certifications you have that will assist you in serving on the MAAC.

Description	Received From	Year Received

- 11) Please list any groups, organizations, or businesses that you could serve as a community connection to on behalf of MAAC.

- 12) Please share any other information that you feel may help us better understand your interests and commitment.

- 13) OPTIONAL – have you received any awards or honors that you would like to share for consideration?

Please accept my application form. I understand that by submitting this form, it does not guarantee an appointment to the Maumee AOC Advisory Committee or any of its subcommittees. If not selected at this time, I understand that my application will be maintained for future consideration.

Signature _____ Date _____

THANK YOU FOR APPLYING

Please submit complete applications by **Mon., Jan. 5, 2015** to: MAAC Member Recruitment, c/o Partners for Clean Streams, PO Box 203, Perrysburg, Ohio 43552 or by email admin@partnersforcleanstreams.org. Thank you for considering service on the Maumee AOC Advisory Committee.