

Maumee AOC Updates on BUI Status, MAPs, and Funding

*Maumee AOC Advisory Committee
December 8, 2022*



Maumee AOC - BUI Status

BUI #	BUI Name	Target Achieved	Current Status	MA Completed	Projected BUI Removal
1a	Restrictions on Fish &	✓	Reduced Ottawa River "Do Not Eat" advisory (2017) & Maumee R. Channel Catfish (2018); target is met	Complete	2022
1b	Wildlife Consumption	✓	Snapping Turtles in Ottawa R do not meet target; sampled in Aug. 2017 & June 2018; target is met	Complete	REMOVED 8/22
3a	Degradation of Fish &		Management Action Project list approved; projects are being funded and implemented	2026	
3b	Wildlife Populations	✓	Sentinel species target is met (2017)	Complete	2027
4	Fish Tumors & Other Deformities		DELTs and bullhead tumors are impaired in 5 of 31 assessment units; 4 units were sampled by US FWS in summer 2021 (not Otter Crk., due to GLLA project); Otter Creek to be sampled in 2023 by US FWS	Complete	2024
6	Degradation of Benthos		Management Action Project list approved; projects are being funded and implemented	2026	2027
7	Restrictions on Dredging Activities		US ACE is collected sediment in navigation channel during summer 2021; data is under review	Complete	TBD

Maumee AOC - BUI Status

BUI #	BUI Name	Target Achieved	Current Status	MA Completed	Projected BUI Removal
8a	Eutrophication or Undesirable Algae	✓	D.O condition of target is met (2014)	Complete	2023-24
8b			Watersheds sampled summer 2020; Persistent growth condition could be considered Not Impaired; Ohio EPA collected water chemistry data in Maumee R./Bay in summer 2021	Complete	
10a	Beach Closings (Recreational Use)		Management Action Project list approved; project funded (2021) and being implemented	2024	2025
10b		✓	Paddling Stream (Maumee R. in AOC) not on 303(d) list, target is met (2014)	Complete	
10c		✓	Ottawa River “No Contact Advisory” for PCBs was rescinded (2018); Hecklinger Pond (Duck Crk.) sign removed (2019)	Complete	
11	Degradation of Aesthetics		BUI status reviewed, removable once Otter Creek GLLA is complete; Otter Creek project was completed in Sept. 2021	2021	2022-23 <i>(85% draft)</i>
14a	Loss of Fish &		Management Action Project list approved; project are being funded and implemented	2026	2027
14b	Wildlife Habitat		Local target of 3427 acres set in late 2016; Management Action Project list approved; projects are fully funded (2020) and being implemented	2023	

Maumee AOC - Fall 2022 MAP Update

Wildlife MAP Updates (BUI 14b) (target = 3427 acres)

- All 20 projects are funded
- 13 completed totaling ~1974 acres as of Oct 2022 (1243 acres since 5/25)
- 2 projects totaling ~282 acres expected complete by end of 2022
- Only 4 projects left to be completed in 2023, 1 project in 2024



*New pump structures at
Magee Marsh
WildMAP 1-16*



*Penn 7 Ribbon Cutting
WildMAP 24-17*

Photos of WildMAPs in 2022

Maumee AOC - Fall 2022 MAP Update

Aquatic MAP Updates (BUI 3a, 6, 14a)

- Funding allocated in FFY21 (12 full/2 partials) (\$11.8M)
 - Most are working on QAPP, RFPs, E&D contracting, field data collection
 - Total of 7 projects have completed Tribal consultation for section 106
 - 2 projects nearing substantial completion
 - 1-2 should go to construction next spring (pending permits)
- Funding allocated in FFY22 (14 full/2 partial/3 with NOAA) (\$15.9M)
 - Most were funded in Sept, so just getting started
- Expected funding request in FFY23
 - Implementation funding for 1-2 projects
 - Only 1 TBD remaining - lower Ottawa River projects (2-3)
 - Expect projects 1 yr. after data available [recently received fish data, expect benthos data soon]
 - Possible funding request in late FFY23

Maumee AOC - Fall 2022 MAP Update

Misc. MAP Updates (BUI 1, 4, 7, 8, 10, 11)

- BUI 10: Beach Closings
- Waterfowl Deterrent for Maumee Bay State Park through ODNR (awarded July 2021 for \$167,200)
- Progress in 2022:
 - QAPP approved
 - Shoreline stabilization complete
 - 12 sitting rocks installed
 - Spillway repaired
 - Started the planting mounds
 - 2 applications of herbicide were applied
 - No MAPs for other listed BUIs



Maumee AOC - MAPs Timeline to 2030

Estimated Timeline for AquaMAP, WildMAP, MiscMAP

Phase of Project	FFY22	FFY23	FFY24*	FFY25*	FFY26*
Project Award	18	3-5	0	0	0
Feasibility Study/Planning	4	4	1	1	0
Engineering/Design	9	23	6	2	0
Construction	14	9	25	19	7
Project Complete	4	10	5	19	6

* Phases are estimated for projects that are not funded yet.

Maumee AOC - Fall 2022 MAP Updates

Sediment MAP Updates

- Steps under the GLLA
 - Sediment Site Characterization
 - Data Gap Site Characterization (if necessary)
 - Focused Feasibility Study (FFS)
 - Remedial Design (RD)
 - Remedial Action (RA)
- Funding Structure
 - Sediment Site Characterization is 100% federal
 - FFS-RD-RA requires a Project Agreement with non-federal cost-share
 - Cost-share of at least 65% federal / 35% non-federal



Photo by Karen Keil, US ACE

Maumee AOC - Fall 2022 MAP Update

SedMAP Updates (BUI 1, 3, 4, 6, 7, 11, 14)

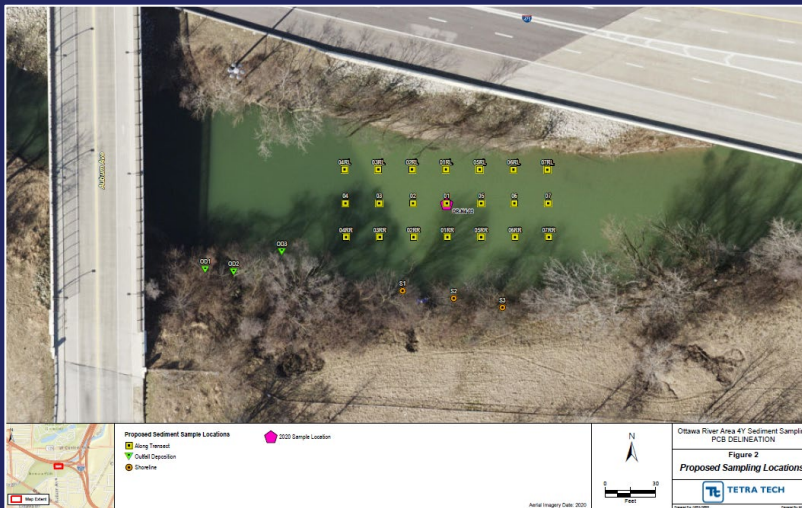
- Ottawa River
 - 4Y Sampling through Cooperative Agreement
- Otter Creek
 - Remedy Evaluation
 - Post-project Mussel Mitigation
- Swan Creek
 - Final Sediment Characterization Report
 - Began Feasibility Study
- Lower Maumee River (LMR-Sway Bridge, LMR-WWTP)
 - Final Sediment Characterization Report
 - Began Feasibility Study



Photo by Lynn Ackerson, Ohio EPA

Ottawa River

- Reach 1: 2020 Remedy Confirmation
 - PCBs exceed short-term (3 locations) and long-term goals (19 locations)
- Reach 2-4: 2020 Remedy Effectiveness Study
 - ORD Synthesis Report/Remedy Effectiveness Assessment Report pending
 - Preliminary Reach 4 data confirms high PCB concentrations (175 ppm) remain in Reach 4 (area 4Y)
- Current Activities
 - Determine hot spot extent in Reach 4 - 2022 Sampling (Ohio EPA) (week of Nov 7)
- Next Steps
 - Determine next steps for Reaches 1 - 4



Otter Creek



Photos by EnviroScience

- Remedial action and habitat restoration completed (8/27/2021)
- Current Activity
 - Mussel relocation of 617 mussels collected from two source populations, tagged, and transplanted (June 28 – July 1, 2022)
 - ORD completed a post-construction Remedy Effectiveness Study in late Sept 2022 (essentially repeat of baseline study)
- Next Steps
 - Need to determine if any further action for failed habitat restoration features (willow mortality)
 - Ongoing ORD REA data collection
 - Mussel survivability study and additional relocation based on sites with survivability

Swan Creek and Lower Maumee River (LMR)



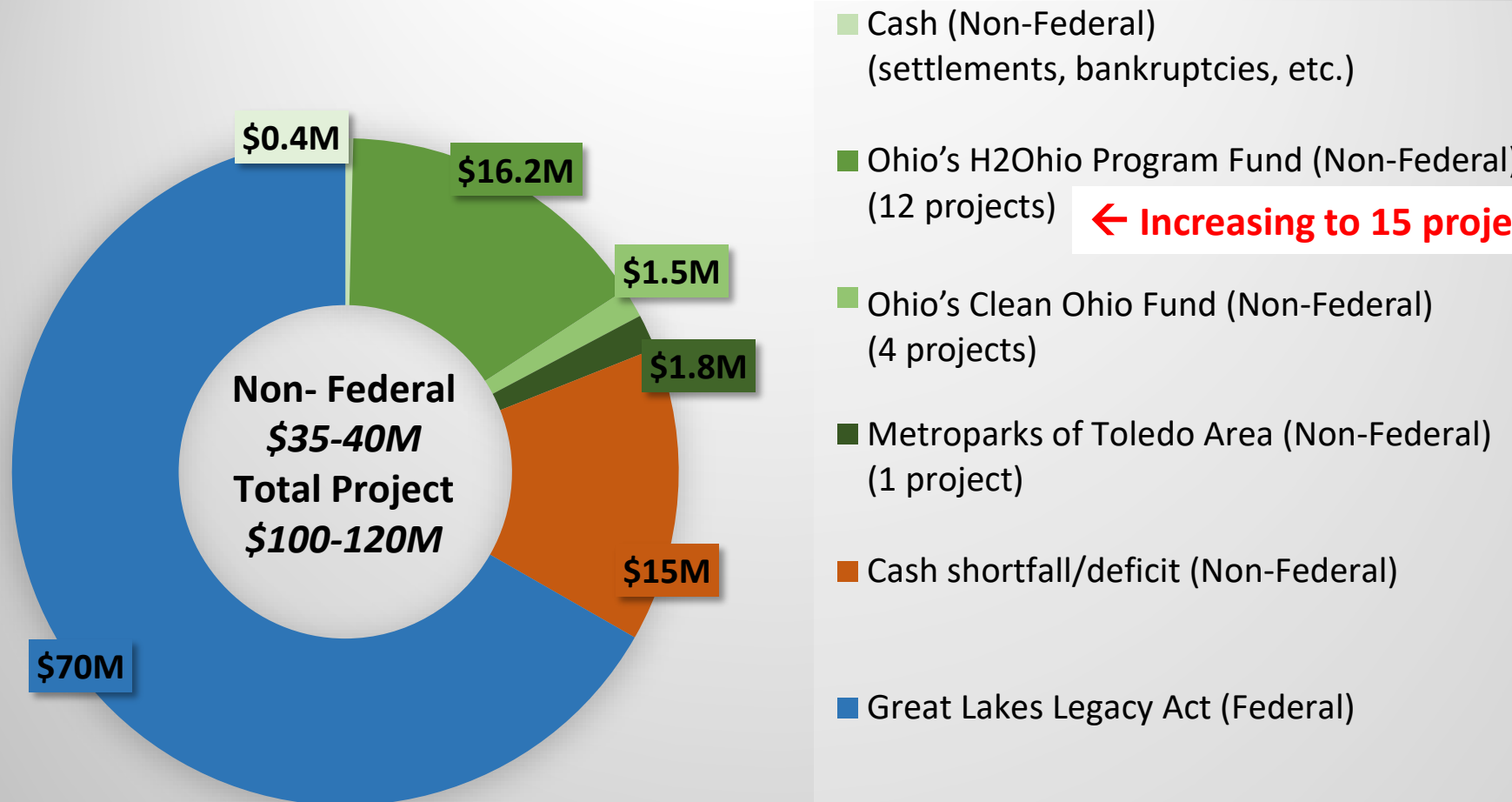
- Site Characterization Findings
 - LMR Sway Bridge & LMR WWTP – Exceeds screening criteria PCBs, PAHs and metals
 - Swan – Exceeds screening criteria for PCBs, PAHs, and metals
- Current Activities
 - US ACE conducted Shoreline Inventory (8/10/22)
 - Ongoing Feasibility Study for LMR and Swan
- Next Steps
 - Begin geotechnical evaluation for RD
 - Determine remedial alternatives

Maumee AOC - MAPs Timeline to 2030

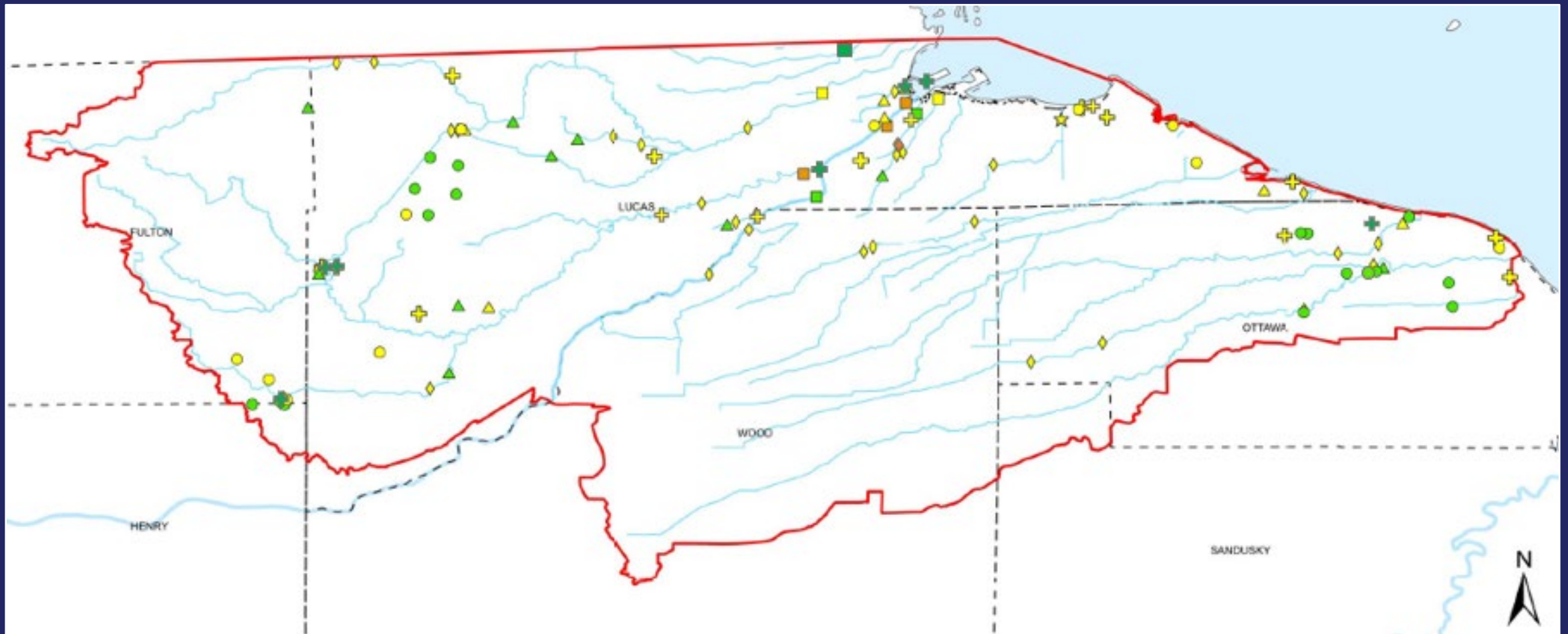
Estimated Timeline for SedMAPs

	FFY23	FFY24	FFY25	FFY26
Ottawa River	4Y sampling, Determine next steps	TBD	TBD	TBD
Otter Creek	Mussel evaluation, Habitat evaluation, Remedy Effectiveness	TBD	TBD	TBD
Swan Creek	Complete FS, PA3 executed, Start RD	Work on RD	Complete RD Start RA	Complete RA
Lower Maumee River (Sway/WWTP)	Complete FS, PA3 executed, Start RD	Work on RD	Complete RD Start RA	Complete RA

Maumee AOC – GLLA Funding



Maumee AOC - MAP Distribution



- *Over 80 MAPs plus 20 GLLA cost-share projects*
- *>\$84.3M in projects funded since 2018*
- *\$44.5M in MAPs are currently in progress*

All Management Action Projects

WildMAP

- Project Completed - AOC GLRI Funding
- Project Funded - AOC GLRI Funding
- Funding Needed - AOC GLRI Funding

AquaMAP

- ◆ Project Completed - AOC GLRI Funding
- ◆ Project Funded - AOC GLRI Funding
- ◆ Funding Needed - AOC GLRI Funding
- ▲ Project Completed - Other Funding
- ▲ Project Funded - Other Funding
- ▲ Funding Needed - Other Funding

SedMAP

- Project Completed - AOC GLRI Funding
- Project Funded - AOC GLRI Funding
- Funding Needed - AOC GLRI Funding
- ⊕ Project Completed - Other Funding
- ⊕ Project Funded - Other Funding
- ⊕ Funding Needed - Other Funding

MiscMAP

- ★ Project Completed - AOC GLRI Funding
- ★ Project Funded - AOC GLRI Funding
- ★ Funding Needed - AOC GLRI Funding

□ Maumee AOC

Maumee AOC - MAPs in Summary

	Total # Projects*	Estimated Total Cost*	Needs Funding	Funding Allocated	Completed as of Oct 2022	Expected Complete December 2022
WildMAPs	20	\$27,413,756	0	20	13	15
AquaMAPs						
- AOC Funded	33-35	\$48,654,466	Part of 2 All of 1-3	Part of 2 All of 30	0	2 (<i>maybe</i>)
- Non-AOC Funded	20	\$12,577,240	0	20	13	15
SedMAPs - GLLA	8		Parts of 5	Parts of 5 All of 3	3	3
- Federal Funded		\$59,107,323				
- Non-Fed Funded		\$29,990,000				
MiscMAPs	1	\$167,200	0	1	0	0
TOTALS =	83+	\$177,909,985	6+	78+	29	35

*Projects and cost estimates include all MAPs regardless of funding source

Maumee AOC – GLNPO's EJ/DEI Initiative

- GLNPO looking for projects in AOCs, but not MAPs
- Maumee AOC is a priority AOC for year one funding (FFY23)
- GLNPO met with local partners on 10/24/22 followed by site visits
- 6 projects with an EJ/DEI and environmental nexus were submitted for consideration
 - Metroparks Toledo
 - Swan Creek/Glass City Riverwalk features
 - Toledo Area Reforestation
 - City of Toledo
 - Nature Play Parks
 - Penn 7 Park Activation
 - Delaware Park Nature Trail
 - Partners for Clean Streams
 - Maumee Corps Revitalized
- If you know of other projects that might be a good fit, please contact me or Leah.

