

# Maumee Area of Concern

---

## *2025 End of Year Update*

# Maumee AOC - BUI Status

BUI #	BUI Name	Target Achieved	Current Status	MA Completed	Projected BUI Removal
1a	Restrictions on Fish &	✓	Target Achieved. BUI Removed.	Complete	<div>2022</div> <div>REMOVED</div> <div>8/22</div>
1b	Wildlife Consumption	✓	Target Achieved. BUI Removed.	Complete	
3a	Degradation of Fish &		Management Action Project list approved; projects are being funded and implemented	2027	2028
3b	Wildlife Populations	✓	Sentinel species target is met (2017)	Complete	
4	Fish Tumors & Other Deformities	✓	No assessment units are impaired for Bullhead tumors DELTs are still impaired in 1 of 31 assessment units (Sibley [lower Ottawa R]; → Removal is delayed until after sampling event in 2027 or GLLA remediation	Complete	2028
6	Degradation of Benthos		Management Action Project list approved; projects are being funded and implemented <i>NOTE: Ohio revisiting this target for the lacustraries. Working with FWS &amp; USGS to study these areas for evaluate a possible target tweaking. Sampling was conducted this summer. Expecting data and report in January.</i>	2027	2028
7	Restrictions on Dredging Activities	✓	Target Achieved. BUI Removed.	Complete	<div>2024</div> <div>REMOVED</div> <div>8/24</div>

# 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	2028
8b			Data for this BUI was recently reviewed, and it was determined that more recent data is needed to fulfill the “reported in the last 3 years” component. Sampling is expected to be completed in 2027 by Ohio EPA.	Complete	
10a	Beach Closings (Recreational Use)		Management Action Project list approved; project funded (2021); project completed (June 2024); removal pending project success (observation ‘25-’26)	2024	2026 <b>Under Review</b>
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10c		✓	Ottawa River “No Contact Advisory” for PCBs was rescinded (2018); Hecklinger Pond (Duck Crk.)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	✓	Target Achieved. BUI Removed.	2021	2023 <b>REMOVED 7/23</b>
14a	Loss of Fish &		Management Action Project list approved; project are being funded and implemented	2027	2028
14b	Wildlife Habitat	✓	Local target of 3427 acres set (late 2016); Management Action Project list approved (2018); all projects fully funded (2020), and completed (2025).	Complete	

# WILDLIFE HABITAT MAPs

## WildMAPs (BUI 14b)

- Target = to acquire, enhance and/or improve 3,427 acres
- Received \$19.3M GLRI-AOC funding since 2018 for 20 wildlife habitat projects
- \$8.4M in supplemental funding from other sources
- All 20 projects were **COMPLETED** in May 2025 = 3,517 acres
  - Exceeded our target by 90 acres



*Cedar Point NWR Pool 2 (Gradel Marsh)  
(WildMAP 14-16)*



# WILDLIFE HABITAT MAPs SUCCESS

## WildMAPs (BUI 14b)

- Acquire, enhance and/or improve 3,427 acres
  - Upland areas = 722.2 acres (21%)
  - Wetland areas = 2794.8 acres (79%)
- Total enhanced = 2965.8 acres (84%)
- Total acquired/enhanced = 551.2 acres (16%)
- New conservation areas via acquisition with restoration
  - The Nature Conservancy = 12.4 acres
  - Metroparks Toledo = 126.5 acres
  - ODNR Division of Forestry = 169.9 acres
  - US Fish and Wildlife Service (Ottawa NWR) = 242.4 acres



*Cedar Point NWR Pool 2 (Graedel Marsh)  
(WildMAP 14-16)*

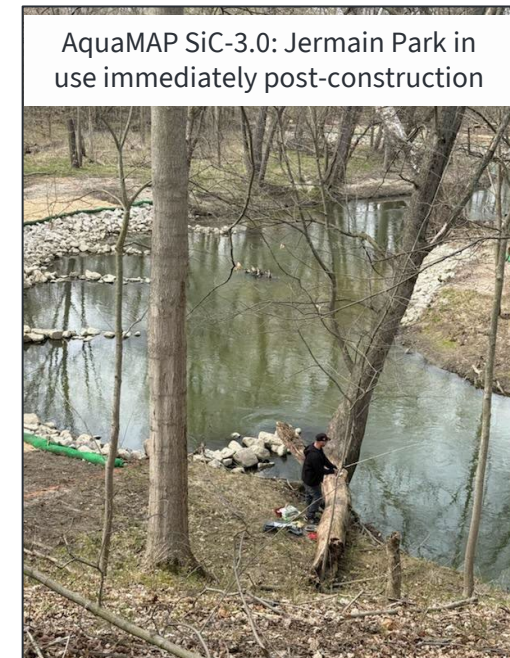




# AQUATIC POPULATIONS & HABITAT MAPS

## AquaMAPs (BUI 3a, 6, 14a)

- Target to enhance and/or improve aquatic habitat and communities based on aquatic metrics (e.g., IBI, MIwb, ICI, QHEI)
- Received \$35.8M since 2021 for 37 aquatic habitat projects (or phases of projects)
  - All but one implementation phase has been fully funded (expected in FFY26 for \$2.6M)
- Current status:
  - Assessment, Engineering & Design: 5
  - Mobilizing this Winter: 4
  - Under construction: 2
  - Substantially complete: 19
  - Phase 1 complete: 3
  - Fully complete: 4 (2 more at end of December)
- Estimated all AquaMAPs complete in 2027 (at least substantial completion)



## AQUAMAP MR-14.2: DELAWARE ISLANDS COMPLEX RESTORATION GLRI-AOC [\$5.3M] AND CLARK ISLAND RESTORATION AND NUTRIENT REDUCTION PROJECT H2Ohio [\$8.7M]

<b>Lead by</b>	Toledo/Lucas Co Port Authority
<b>Location/Landowner</b>	Project on two islands in the Maumee River owned by the City of Toledo
<b>Goal(s)</b> <i>(AOC Project only)</i>	<ul style="list-style-type: none"> <li>• <b>Restored</b> approximately <b>4.1 acres of wetland</b></li> <li>• <b>Enhance</b> approximately <b>13.4 acres of wetland</b></li> <li>• <b>Enhance</b> approximately <b>17.5 acres of open water aquatic habitat</b></li> <li>• <b>Invasive species control</b> of <i>Phragmites</i> will be performed on approximately <b>29 acres on existing land</b></li> </ul>
<b>Measured Accomplishment(s)</b> <i>(AOC Project only)</i>	<ul style="list-style-type: none"> <li>• Linear feet of <b>riparian area</b> enhanced, restored, created: <b>2,080 LF</b></li> <li>• Linear feet of <b>in-stream/ditch area</b> enhanced, restored, created: <b>219 LF</b></li> <li>• Acres of <b>upland</b> area enhanced, restored, created: <b>N/A</b></li> <li>• Acres of <b>wetland</b> area enhanced, restored, created: <b>0.79 AC</b></li> <li>• Cubic yards of <b>material moved/spoiled</b>: <b>2,695 CY</b></li> <li>• Acres <b>acquired</b>: <b>n/a</b></li> <li>• Acres protected under an <b>environmental covenant</b>: <b>3.0 AC</b></li> </ul>



For more information & photos of these projects:

[Delaware Islands Complex Restoration](#) and [Clark & Delaware/Horseshoe Islands Restoration & Nutrient Reduction](#)

# AQUAMAP PC-2.0: PACKER CREEK STREAM RESTORATION NEAR GENOA-STATE ROUTE 163 *GLRI-AOC [\$3.4M] and H2Ohio [\$200K]*

<b>Lead by</b>	Ottawa Soil and Water Conservation District
<b>Location/Landowner</b>	This project has 6 different sites: 4 are two-stage ditch, 1 wetland, 1 stream enhancement. All are private landowners.
<b>Pre-project Goal(s)</b>	<ul style="list-style-type: none"> <li>• Total of <b>7,000 feet of stream habitat</b> restored.</li> <li>• Total of <b>16 acres riparian habitat</b> restored.</li> <li>• Total of <b>18 acres of wetlands</b> restored.</li> </ul>
<b>Measured Accomplishment(s)</b>	<ul style="list-style-type: none"> <li>• Linear feet of <b>riparian area</b> enhanced, restored, created: <b>7,800 LF</b></li> <li>• Linear feet of <b>in-stream/ditch area</b> enhanced, restored, created: <b>9,500 LF</b></li> <li>• Acres of <b>upland</b> area enhanced, restored, created: <b>9.2 AC</b></li> <li>• Acres of <b>wetland</b> area enhanced, restored, created: <b>20.7 AC</b></li> <li>• Cubic yards of <b>material moved/spoiled</b>: <b>~47,350 CY</b></li> <li>• Acres <b>acquired</b>: <b>n/a</b></li> <li>• Acres protected under an <b>environmental covenant</b>: <b>35.72 AC</b></li> </ul>



For more information & photos of this project: Project a) [Hirzel](#) b) [Zeller](#) c) [Beard](#) d) [Harmeyer](#) e) [Alexander](#) f) [Goodman](#)



# AQUAMAP HDOR-13.0: HILL DITCH RESTORATION AT PAISLEY PARK (BANDORE) *GLRI-AOC [\$130,000] and 319/NPS [\$299,610], and H2Ohio [\$285,000]*

Lead by	City of Toledo
Location/Landowner	City of Toledo neighborhood park
Goal(s)	<ul style="list-style-type: none"><li>• <b>Create 1,000 feet of floodplain bench</b> within Hill Ditch</li><li>• Regrade upland to <b>restore</b> approximately <b>¼ acre of floodplain wetland</b></li><li>• <b>Plant</b> almost <b>1 acre of native riparian buffer</b></li><li>• <b>Add instream features</b> such as riffles, rock cover stones, locked logs and other benthic-loving features</li></ul>
Measured Accomplishment(s)	<ul style="list-style-type: none"><li>• Linear feet of <b>riparian area</b> enhanced, restored, created: <b>1,140 LF</b></li><li>• Linear feet of <b>in-stream/ditch area</b> enhanced, restored, created: <b>1,140 LF</b></li><li>• Acres of <b>upland</b> area enhanced, restored, created: <b>1.0 AC</b></li><li>• Acres of <b>wetland</b> area enhanced, restored, created: <b>0.96 AC</b></li><li>• Cubic yards of <b>material moved/spoiled</b>: <b>5,138 CY</b></li><li>• Acres <b>acquired</b>: <b>n/a</b></li><li>• Acres protected under an <b>environmental covenant</b>: <b>n/a</b></li></ul>



For more information & photos of this project visit: [Hill Ditch Restoration at Paisley \(Bandore\) Park](#)

# AQUAMAP SIC-3.0: RESTORATION OF THE OTTAWA RIVER WITHIN JERMAIN PARK *GLRI-AOC [\$769,802]*

Lead by	City of Toledo
Location/Landowner	City of Toledo park
Goal(s)	<ul style="list-style-type: none"><li>• Stabilize <b>2,300 feet of eroding stream bank</b></li><li>• Create <b>50 feet of riffle habitat</b></li><li>• Enhance <b>750 feet (1.5 acres) of riparian buffer</b></li><li>• Create/enhance <b>2.7 acres of wetland</b> with diverse native plantings</li></ul>
Measured Accomplishment(s)	<ul style="list-style-type: none"><li>• Linear feet of <b>riparian area</b> enhanced, restored, created: <b>1,450 LF</b></li><li>• Linear feet of <b>in-stream/ditch area</b> enhanced, restored, created: <b>1,450 LF</b></li><li>• Acres of <b>upland</b> area enhanced, restored, created: <b>7.0 AC</b></li><li>• Acres of <b>wetland</b> area enhanced, restored, created: <b>n/a</b></li><li>• Cubic yards of <b>material moved/spoiled</b>: <b>1,411 CY</b></li><li>• Acres <b>acquired</b>: <b>n/a</b></li><li>• Acres protected under an <b>environmental covenant</b>: <b>n/a</b></li></ul>



For more information & photos of this project visit: [Restoration of the Ottawa River within Jermain Park](#)

# AQUAMAP PC-6.0: PACKER CREEK STREAM & RIPARIAN RESTORATION

GLRI-AOC [\$278,500]

Lead by	Ottawa Soil and Water Conservation District
Location/Landowner	Private landowner
Pre-project Goal(s)	<ul style="list-style-type: none"><li>• Restored approximately <b>900 linear feet of instream habitat</b></li><li>• Installed <b>150-foot wide forested riparian buffer</b></li></ul>
Measured Accomplishment(s)	<ul style="list-style-type: none"><li>• Linear feet of <b>riparian area</b> enhanced, restored, created: <b>2,050 LF</b></li><li>• Linear feet of <b>in-stream/ditch area</b> enhanced, restored, created: <b>2,050 LF</b></li><li>• Acres of <b>upland</b> area enhanced, restored, created: <b>2.6 AC</b></li><li>• Acres of <b>wetland</b> area enhanced, restored, created: <b>n/a</b></li><li>• Cubic yards of <b>material moved/spoiled</b>: <b>2,200 CY</b></li><li>• Acres <b>acquired</b>: <b>n/a</b></li><li>• Acres protected under an <b>environmental covenant</b>: <b>2.6 AC</b></li></ul>



For more information & photos of this project visit: [Packer Creek Stream and Riparian Restoration](#)

# AQUAMAP OC-3.2 & OC-3.3: TAYLOR RD & YARROW ST FLOODPLAIN AND STREAM IMPROVEMENTS AND BERLIN AVE FLOODPLAIN & STREAM IMPROVEMENTS *GLRI-AOC [\$1,389,510]*

<b>Lead by</b>	City of Oregon
<b>Location/Landowner</b>	Project on Oregon property (after acquisition)
<b>Goal(s)</b>	<ul style="list-style-type: none"> <li>• <b>Stabilize of 2,500 LF Otter Creek streambank</b></li> <li>• <b>Establish of instream habitat structures</b></li> <li>• <b>Establish of cutoff oxbow channels</b> connected to Otter Creek</li> <li>• <b>Reconnect/enhance 2.5 acres of floodplain</b></li> <li>• <b>Enhance 4 acres of existing wetland and riparian area</b></li> <li>• <b>Divert 53 acres of stormwater</b> to forebay ponds <b>to reduce loadings</b></li> </ul>
<b>Measured Accomplishment(s)</b>	<ul style="list-style-type: none"> <li>• Linear feet of <b>riparian area</b> enhanced, restored, created: <b>1,750 LF</b></li> <li>• Linear feet of <b>in-stream/ditch area</b> enhanced, restored, created: <b>1,750LF</b></li> <li>• Acres of <b>upland</b> area enhanced, restored, created: <b>5.25 AC</b></li> <li>• Acres of <b>wetland</b> area enhanced, restored, created: <b>3.0 AC</b></li> <li>• Cubic yards of <b>material moved/spoiled: 13,221 CY</b></li> <li>• Acres <b>acquired: 12.97 AC</b></li> <li>• Acres protected under an <b>environmental covenant: n/a</b></li> </ul>



For more information & photos of this project: [Taylor/Yarrow Project](#) and [Berlin Project](#)

# Maumee AOC – LMR (Sway and WWTP)

---

- Feasibility Study (FS) completed in Fall 2023
- Remedial Design (RD) awarded in Fall 2024
  - Expected complete in Winter 2025-26
  - Currently at 100% Design and Cost Estimating
    - ~\$53M for both sites
    - Probably splitting into two projects due to cost and time requirements (~\$30M each)
  - Working on Permits, including SHPO requirements for shipwrecks/wreckage in project area
- Working toward a Remedial Action (RA) award in 2026, moving mud in 2027



*Photo from Barr Engineering Co (2024)*



# Maumee AOC – Ottawa Area 4y (and 4x)

---

- Conducted PDI sampling in 2022, 2024 & 2025
  - Results show more contamination “spread” than ORD found in 2020-21
- Next steps
  - Complete current PDI effort to document source control and movement of contamination
  - Ohio EPA request an award for FS/RD (Spring 2026)
  - Determine Cost for RA and Request funding (Fall 2026/Winter 2027)
  - Working toward a Remedial Action (RA) award in 2026, moving mud in 2027

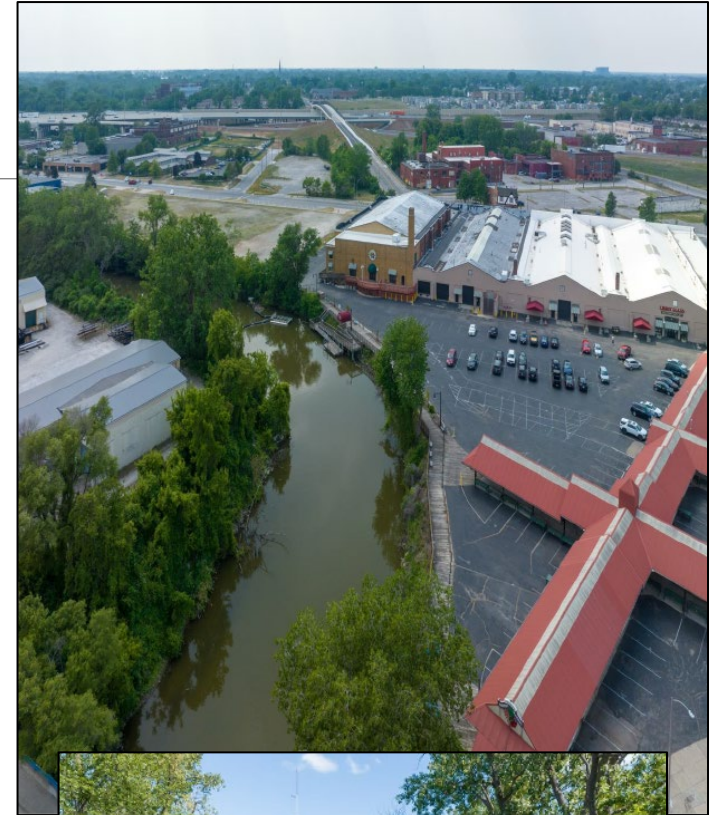


*Photo from Lynn Ackerson (2022)*

# Maumee AOC – Swan Creek

---

- FS in development
    - Started with first contract in March 2022
    - VE study conducted in March 2024
    - More data collection was planned for Summer 2025
  - Next steps
    - Complete PDI sampling and finish FS
- 
- Project is currently PAUSED
    - Need to finish other projects that are further along and determine our current match funding status



*Photos from EA (2023)*



# Other stuff this year...

## and in 2026 ...

- Thanks for a great job on ACAP Summit tours.
  - Congrats to PCS for a job very well done!
- 
- Complete BUI 6 study and evaluate results to potentially revised target for lacustuaries.
  - Seek implementation funding for the last AquaMAP that needs it. (*Ottawa R. Nearshore-Toledo*)
  - Last AquaMAP to start begins E&D. (*Crane Creek-FWS*)
  - Seek GLRI funding for SedMAPs.
  - Preparing for Ohio EPA stream assessment survey in 2027.



# What's coming up in 2026 for the MAAC?

- Continue supporting sediment and aquatic MAPs
- Work with Ohio AOC Program on BUI removals (BUI 10 in 2026)
- Work with Ohio EPA to determine future BUIs removals
- Assist PCS with outreach, awareness and information sharing
  - Showcasing projects & AOC Program momentum underway
  - Celebrating milestones & project completions
  - Organizing tours & public outreach (site visits, open houses, etc.)
  - Continuing to engage partners working on related AOC projects

Thanks for an  
Amazingly Productive,  
Crazy Busy Year!



Happy Holidays

