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Maumee AOC Coordinator Report for the Maumee AOC Advisory Committee *February 11, 2021*

- WildMAPs (BUI 14b: Wildlife Habitat)
 - We have 5 WildMAPs that are complete. Eight more are scheduled to be completed in 2021.
 - An updated Summary Table of the WildMAPs is below.
 - A detailed narrative tracking of the WildMAPs is available upon request.
- AquaMAPs (BUI 3a, 6, 14a: Fish Pops, Benthic Pops, Fish Habitat)
 - Funding for 10 Top Tier projects (approx. \$8 million) was requested by Ohio for FFY21-Q2. We have not heard if any funding has been awarded for these projects.
 - Many of those Top Tier project implementers have begun developing their grant applications, so they will be ready as soon as the funding becomes available.
 - An updated Summary Table of the AquaMAPs is below.
 - A narrative tracking of the AquaMAPs is available upon request.
- SedMAPs (BUIs vary by project site, GLLA contaminated sediment)
 - Ohio continues to work with federal partners to make progress on these projects.
 - <u>Ottawa River:</u> 10-Yr Remedy Effectiveness Study was completed this winter by US EPA-ORD and US ACE-Chicago District. Data is expected in the spring/summer.
 - <u>Otter Creek:</u> Remedy and Restoration Baseline Study was completed this winter.
 Remediation is expected to begin in March/April, and habitat restoration in the fall.
 - <u>Swan Creek:</u> Data Gap sampling is expected this spring by a GLNPO contractor and US EPA-ORD. The sampling plan is being finalized pending the approval of FFY21-Q2 funding. The Focused Feasibility Study is funded and expected to begin once the data gap sampling results are available.
 - <u>Maumee River-Sway Bridge & WWTP:</u> Data Gap sampling is expected this spring by US ACE and US EPA-ORD. The sampling plan is being finalized pending the approve of FFY21-Q2 funding. The Focused Feasibility Study is being negotiated by Ohio EPA and GLNPO. It is expected to begin once the data gap sampling results are available.
 - Ohio is working to secure non-federal cost-share funding to match future project funding needs (*i.e.*, remedial design, remediation) for these contaminated sediment projects through community partnerships, responsible parties, and cost-share projects (*i.e.*, H2Ohio).
 - An updated Summary Table of the SedMAPs is below.
 - A narrative tracking of the SedMAPs is available upon request.
- Misc. MAPs (BUIs 1, 4, 7, 8, 10, 11)
 - **BUI 1b: Wildlife Consumption** Ohio EPA expects to begin drafting this BUI removal document this spring.
 - **BUI 4: Deformities & Tumors** Ohio EPA expects US FWS to sample the bullhead tumors and fish community this spring/summer after the 2020 sampling delay due to COVID.
 - **BUI 7: Dredging** Ohio EPA and US EPA are working with ACE to finalize a sampling plan within the navigation channel for this summer.
 - BUI 10a: Beach Closings (advisories) The MAAC recommended waterfowl deterrent project has been APPROVED. Funding for the project was requested by Ohio for FFY21-Q2. We have not heard if any funding has been awarded for this project.

- BUI 8b: Eutrophication Ohio EPA is developing a sampling plan to collect water samples for this BUI in the Maumee River and Bay this summer. This sampling activity is still pending approval by Ohio EPA management due to COVID and potential laboratory capacity issues.
- **BUI 11: Aesthetics** No recent activity, BUI removal pending Otter Creek GLLA project which is scheduled to being in March/April 2021.
- AOC Program Updates
 - The Ohio Lake Erie Commission has established a new website that includes a webpage for the Ohio AOC Program (<u>https://lakeerie.ohio.gov/wps/portal/gov/lec/programs-andprojects/areas-of-concern</u>). The previous Ohio EPA page provides a link to the new OLEC webpage. Please update any bookmarks or links you may have to the Ohio AOC program.
 - US AOC Conference has been posted until Sept. 28-30. The details and format have not been finalized. If it is held in person it will be in Muskegon, MI.
 - Congratulations to the Black River AOC for its Aesthetics BUI Removal. It was recognized as the <u>100th</u> BUI removed in the Great Lakes. We are so excited that this milestone was in an Ohio AOC.

Complete Management Action Project List for Maumee AOC Wildlife Habitat BUI 14b (WildMAPs)

Updated 12/31/20

On 12/14/17 the MAAC approved the projects below for recommendation to Ohio EPA. Ohio EPA endorsed these projects on 1/18/18 and US EPA accepted them on 2/12/18. It is expected that once implemented these projects will achieve the restoration target for BUI 14b: Loss of Wildlife Habitat.

Project ID	Project name (Site name)						
COMPLETED		Project Acreage	AOC GLRI Funding	Other Funding	Implementer	Funding Source	Complet
4-16	Irwin upland site 5 (Griswold property)	20	\$150,000		Metroparks	COMPLETE (GLRI via U.S. EPA)	9/18
6-16	Habitat Restoration Plans	0	\$400,000		Ohio EPA	COMPLETE (GLRI via U.S. EPA)	3/19
10-16	Irwin wet prairie site 3a (Neyland property)	10	\$97,300		Metroparks	COMPLETE (GLRI via U.S. EPA)	3/18
11-16	Irwin wet prairie site 3b	31.8	\$300,000		Metroparks	Funded (GLRI via U.S. EPA)	12/20
23a-17	Restoring Coastal Wetlands at Toussaint State Wildlife Area Phase I & II	63	\$600,000	\$888,000	ODNR-Wildlife, TNC, DU	Funded (GLRI via NOAA, GLFWRA, SOGL)	2019
	·	124.8	\$1,547,300	\$888,000		/	
UNDED (I	In Progress)	Project Acreage	AOC GLRI Funding	Other Funding	Implementer	Funding Source	Estimate Complet
1-16	Magee Marsh State Wildlife Area	1000	\$1,075,000		ODNR-Wildlife	Funded (GLRI via U.S. EPA)	6/22
2-16 & 3-16	Toussaint Parcel East and Toussaint Parcel West	203	\$2,297,000		DU, U.S. FWS	Funded (GLRI via U.S. FWS)	Fall 202
7-16	Maumee State Forest site 1 (Carter and Rusin-1 property)	25	\$220,000		ODNR-Forestry	Funded (GLRI via U.S. EPA)	4/21
8-16	Maumee State Forest site 2 (Hight wetland & forest property)	75	\$115,000		ODNR-Forestry, TNC	Funded (GLRI via U.S. EPA)	4/21
9-16	Maumee State Forest site 3 (Hight upland & flatwoods property)	85	\$95,000		ODNR-Forestry, TNC	Funded (GLRI via U.S. EPA)	4/21
13-16	Navarre Unit of Ottawa National Wildlife Refuge	732	\$1,300,000		US FWS, DU	Funded (GLRI to U.S. FWS)	2022
14-16	Cedar Point National Wildlife Refuge Pool 2	150	\$850,000		US FWS	Funded (GLRI to U.S. FWS)	2021
15-16	Oak Savannah Expansion at Secor Metropark	39.3	\$510,000		Metroparks	Funded (GLRI via U.S. EPA)	2022
22-17	Fox Property Restoration Project	35	\$43,840		Friends of Ottawa Funded National Wildlife (GLRI via U.S. EPA Refuge passthru to OEPA)		12/21
23b-17	Restoring Coastal Wetlands at Toussaint State Wildlife Area Phase III	62	\$750,000		ODNR-Wildlife, Funded DU (NOAA Partnership)		Fall 202
24-17	Penn 7 Wetland Restoration	59	\$2,786,144		City of Toledo, Funded GLC (NOAA Partnership)		2021
25-17	Howard Marsh Phase 2	240	\$4,272,000		Metroparks, DU	Funded (NOAA Partnership)	Fall 202
27-17	Kitty Todd Expansion	310	\$1,400,000	\$3,545,700	TNC	Funded (GLRI via U.S. EPA passthru OEPA, WRRSP)	12/21
28-17	Maumee State Forest Expansion	152	\$1,369,500		ODNR-Forestry	Funded (GLRI via U.S. EPA)	7/23
29-17	Maumee Bay State Park Coastal Wetland	137	\$500,000	\$2,000,000	ODNR-Wildlife, Parks	Funded (GLRI via U.S. EPA, H2Ohio)	6/22
		3304.3	\$17,583,484	\$5,545,700			
IEEDS FUI	NDNG/FUNDING being PROCESSED	Project Acreage	Funding Needed	Other Funding	Proposed Implementer	Funding Status	
	ALL Projects Funded	0	\$0	\$0			
	3429.1 = Total Acres of Recommended MAPs 3427.0 = BUI 14b Target Acreage -2.1 = Remaining Acres that Need to be Identified*						
		Total Cost =	\$19,130,784 \$25,56	\$6,433,700 54,484	6,433,700 = Estimated <u>Total Non-AOC GLRI Funds</u>		
	Estimated <u>Fund</u> i	ng Needed =	\$	0	1		

Estimated <u>Percentage of Non-AOC Funds Leveraged</u> = 25.2% Estimated <u>Cost per Acre to Achieve Target**</u> = \$7,459.73

* Based on past experience, it is expected that the actual acreage of projects will change slightly as they are implemented. Any remaining acreage needed to achieve the BUI 14b restoration target is expected to be realized through project(s) that have similar objectives to this BUI target, but are funded by non-AOC GLRI sources.

** In NW Ohio in-lieu mitigation costs average \$48,000 per acre and mitigation bank costs average \$35,000 per acre in 2016

Complete Management Action Project List for Maumee AOC Aquatic BUIs 3a, 6, and 14a (AquaMAPs)

On 4/30/20 the MAAC approved these projects for recommendation to Ohio EPA. Ohio endorsed these projects on 5/7/20 and US EPA accepted them on 7/29/20. BUI 3b is not impaired. BUI 14b has all mgmt. actions being implemented. Once this list of projects is implemented the Restoration Targets for BUI 3: Degradation of Fish & Wildlife Populations, BUI 6: Degradation of Benthos, and BUI 14: Loss of Fish & Wildlife Habitat is expected to be achieved.

	C (FA1) FUNDING REQUIRED, ALREADY FUNDED	Target BUI(s)	AOC GLRI Funding	Other Funding	Implementer	Funding Source	Complete	Funded
SiC-13.0	instream and Riparian Projects in the Lacustuary of Ottawa River (pending - sampling results)	3a, 6, 14a	\$3,000,000 \$36,153,222	\$130,000	1 yr of data	TBD	TBD	TBD
MR-14.0	Restoration Projects in Madmee RMB 15 to 7 (pending - tribal consultation/involvement) Instream and Riparian Projects in the Lacustuary of Ottawa River (pending -	3a, 14a, 6	\$9,000,000		TBD TBD within	TBD	TBD	TBD
	Restoration Projects in Maumee RMs 15 to 7	, =		 	· ·	U.S. EPA		Pending
HDSC-4.0	UTMC Swan Creek Restoration*	6, 14a	\$508,000		(TES) University of Toledo	Partnership GLRI via	Awaiting Allocation	10
DC-2.0	Blue Creek Restoration at Blue Creek Metropark*	14a 6, 14a	\$550,000		City of Toledo	U.S. EPA NOAA/GLC	Awaiting Allocation Awaiting Allocation	15
OC-3.3 LBC-17.1	Taylor Rd. and Yarrow St. Floodplain and Stream Improvements** Blue Creek Restoration at Blue Creek Metropark*	14a, 6, 3a 14a	\$690,000 \$550,000		City of Oregon Metroparks Toledo	U.S. EPA GLRI via	Awaiting Allocation	14b 15
0C-3.2	Berlin Avenue Floodplain and Stream Improvements^	14a, 6, 3a	\$557,136		City of Oregon	U.S. EPA GLRI via	Awaiting Allocation	14a
CrC-5.0	Crane Creek Lacustuary Wetland Restoration	14a, 3a, 6	\$1,500,000		U.S. FWS	GLRI to U.S. FWS GLRI via	Awaiting Allocation	13
		1.0, 0, Ja	<i>\$300,000</i>			U.S. EPA		Tier Thr
CeC-4.0	Waste Management Instream and Riparian Restoration ^{A^E}	14a 14a, 6, 3a	\$500,000		Wood Co. Engineers	U.S. EPA GLRI via	Awaiting Allocation	11
UBC-13.0	Maumee State Forest Blue Creek Stream Restoration*	14a	\$668,000		ODNR-Forestry	U.S. EPA GLRI via	Awaiting Allocation	10
CeC-1.0	Nature Trails Park Riparian Restoration and Wetland Creation*	14a, 6, 3a	\$357,000		City of Northwood	U.S. FWS GLRI via	Awaiting Allocation	10
LTC-1.0	Schiller Stream and Riparian Improvements*	14a, 3a, 6	\$678,000		U.S. FWS	NOAA/GLC GLRI to	Awaiting Allocation	9
HTC-12.2	Stream Restoration at Lathrop Park*	14a, 6	\$450,000		(Parks) Village of Berkey	Partnership GLRI U.S. EPA or	Awaiting Allocation	8
DD-7.0	Detwiler Park Municipal Golf Course Stream Restoration	6, 3a, 14a	\$1,000,000		(Eng. Services) City of Toledo	Partnership NOAA/GLC	Awaiting Allocation	7b
IDOR-13.0	Hill Ditch Restoration at Paisley Park	14a, 6	\$130,000	\$130,000	Conservancy City of Toledo	Passthrough NOAA/GLC	Awaiting Allocation	7a
TuC-2.0	Turtle Creek North Nissen Road Restoration ^{^E} *	14a, 6, 3a	\$787,000		Black Swamp	U.S. EPA TBD	Awaiting Allocation	6
PC-6.0	Packer Creek Stream and Riparian Restoration^	14a	\$278,500		Ottawa SWCD	U.S. EPA GLRI via	Awaiting Allocation	5
IDOR-9.0	Hill Ditch Restoration at Toledo Natural Science Technology Center*	6, 14a	\$250,000		Toledo Public Schools	U.S. EPA GLRI via	Awaiting Allocation	4
AC-3.0	Lacustuary of Turtle Creek (<i>Minier</i>)^ * Neis Ditch Stream Restoration [?]	14a, 6, 3a	\$400,000		Metroparks Toledo	Passthrough GLRI via	Awaiting Allocation	3
TuC-18.0	Oxbow Channel Addition & Wetland Enhancement/ Reconnection in the	14a, 3a, 6	\$3,300,000		U.S. FWS, TBD	Partnership IA and TBD	Awaiting Allocation	2
LTC-13.0	Connected Wetland and Fish Passage at Camp Sabroske^*	3a, 6, 14a	\$3,000,000		U.S. FWS, DU	IA and NOAA/DU	Awaiting Allocation	Tier Tu
BD-2.0	Stream Restoration at Oregon Recreational Complex*	14a, 6	\$1,344,000		City of Oregon	GLRI via U.S. EPA	Awaiting Allocation	top
PC-2.0	Packer Creek Stream Restoration near Genoa-State Route 163*	14a	\$3,444,000		Ottawa SWCD	GLRI via U.S. EPA	Awaiting Allocation	top
CeC-6.0	Dry Creek Ecological Design and Demonstration Project	14a, 6, 3a	\$580,000		Wood Co. Engineers	GLRI via U.S. EPA	Awaiting Allocation	top
OC-5.0	Collins Park Municipal Golf Course Stream Restoration	14a, 3a, 6	\$700,000		City of Toledo (Parks)	NOAA/GLC Partnership	Awaiting Allocation	top
SiC-3.0	Restoration of the Ottawa River within Jermain Park*	3a, 6, 14a	\$600,000		City of Toledo (TES)	NOAA/GLC Partnership	Awaiting Allocation	top
AOC-2.0	Fish and Benthos Improvements with Urban Chloride Reductions (Phase 1)	6, 3a	\$264,261		TMACOG	GLRI via U.S. EPA*	Awaiting Allocation	top(4
HTC-2.0	Headwaters Tenmile Creek Stream & Riparian Restoration^*	6, 14a, 3a	\$505,000		Lucas SWCD	GLRI via U.S. EPA	Awaiting Allocation	top(3
TuC-17.0	Wetland Enhancement in the Riverine of Turtle Creek (Sharlow) ^	14a, 3a, 6	\$302,325		Ottawa SWCD	GLRI via U.S. EPA	Awaiting Allocation	top(2
PD-6.0	Prairie Ditch Two-Stage and Floodplain Planting: Secor Park Expansion, Phase II	14a, 6	\$160,000		Metroparks Toledo	GLRI via U.S. EPA	Awaiting Allocation	top(1
PD-5.0	Prairie Ditch Restoration at Secor Park: North of Visitor's Center	14a, 6	\$150,000		Metroparks Toledo	GLRI via U.S. EPA	Awaiting Allocation	top(1
EEDS FUNI	DNG/FUNDING being PROCESSED	BUI(s)	Needed	Funding	Implementer	Source	Status	Priorit Top Tie
		Target	\$0 Funding	ŞU Other	Proposed	Proposed	Funding	Fundir
•		BUI(s)	Funding	Funding \$0		Source	Complete	
JNDED (In	Progress)	Target	AOC GLRI	Other	Implementer	Funding	Estimated	
			\$0	\$0				

Complete Maumee AOC Management Action Project List for Contaminated Sediments (SedMAPs)

On 6/11/20 the MAAC approved these projects for recommendation to Ohio EPA. Ohio endorsed these projects on 6/29/20 and US EPA accepted them on 7/29/2020. These projects will address a variety of BUIs as listed with each project. These projects will lead to the direct removal of some BUIs, but other BUIs will require additional management actions as defined in those BUI-specific management action lists. Below is an explaination of the BUI numbering.

BUI	Site	Lead Agency	Task/Description	Funding Status	Estimated Total Cost	Anticipated FFY
1,3,4,6,14	Ottawa River	US ACE/ORD (for GLNPO)	Remedy Confirmation Study - Reach 1	Complete	\$446,723	19
	(Reaches 1 - 4 area)		Remedy Effectiveness Study - Reach 2-4	Complete	\$1,100,000	20
			Decision document	In Progress	-	20
3,4,6,14	Halfway, Silver, Shantee Creeks	Ohio EPA	Field verification of conditions	Complete	-	20
			Decision document	In Progress	-	21
6,14	Swan Creek (RM 4-0)	GLNPO	SLERA	Complete	-	19
	(Phase 1 & 2 area)		Data Gap Investigation	In Progress	\$600,000	20
			Feasibility Study	Funded	\$200,000	21
			Remedial Design	Pending	tbd	22
			Remedial Action/Construction	Pending	\$18,500,000	23
			Remedy Effectiveness Study	Pending	tbd	28
3,4,6,14	Maumee River - Upstream	US ACE (for GLNPO)	SLERA	Complete	-	20
	(Phase 1 area)		Decision document	In Progress	-	20
3,4,6,7,14	Maumee River - Sway Bridge	US ACE (for GLNPO)	SLERA	Complete	-	20
	(within Phase 2 area)		Data Gap Investigation	In Progress	\$700,000	21
			Feasibility Study	Pending	tbd	22
			Remedial Design	Pending	tbd	23
			Remedial Action/Construction	Pending	\$19,250,000	24
			Remedy Effectiveness Study	Pending	tbd	29
3,4,6,14	Maumee River - WWTP	US ACE (for GLNPO)	SLERA	Complete	-	20
	(within Phase 2 area)		Data Gap Investigation	In Progress	\$600,000	21
			Feasibility Study	Pending	tbd	22
			Remedial Design	Pending	tbd	23
			Remedial Action/Construction	Pending	\$33,250,000	24
			Remedy Effectiveness Study	Pending	tbd	29
3,4,6,11,14	Otter Creek	US ACE (for GLNPO)	Remedial Design	Complete	\$2,000,000	20
			Remedy/Restoration Baseline Study	In Progress	tbd	20
			Remedial Action/Construction	In Progress	\$10,000,000	21
			Remedy Effectiveness Study	Pending	tbd	26
			Restoration Effectiveness Study	Pending	tbd	26
3,4,6,14	Duck Creek	GLNPO	SLERA	Complete	-	19
			Decision document (NFA)	Complete	-	19

\$86,646,723

Beneficial Use Impairments

BUI 1: Restrictions on Fish & Wildlife Consumption BUI 2: Tainting of Fish and Wildlife Flavor BUI 3: Degradation of Fish & Wildlife Populations BUI 4: Fish Tumors or Other Deformities BUI 5: Bird or Animal Deformities or Reproductive Problems BUI 6: Degradation of Benthos BUI 7: Restrictions on Dredging Activities BUI 8: Eutrophication or Undesirable Algae BUI 9: Restrictions on Drinking Water Consumption or Taste & Odor Problems BUI 10: Beach Closings (Recreational Contact) BUI 11: Degradation of Aesthetics BUI 12: Added Costs to Agriculture or Industry BUI 13: Degradation of Phytoplankton and Zooplankton Populations BUI 14: Loss of Fish & Wildlife Habitat		
BUI 3: Degradation of Fish & Wildlife Populations BUI 4: Fish Tumors or Other Deformities BUI 5: Bird or Animal Deformities or Reproductive Problems BUI 6: Degradation of Benthos BUI 7: Restrictions on Dredging Activities BUI 8: Eutrophication or Undesirable Algae BUI 9: Restrictions on Drinking Water Consumption or Taste & Odor Problems BUI 10: Beach Closings (Recreational Contact) BUI 11: Degradation of Aesthetics BUI 12: Added Costs to Agriculture or Industry BUI 13: Degradation of Phytoplankton and Zooplankton Populations	BUI 1:	Restrictions on Fish & Wildlife Consumption [®]
BUI 4: Fish Tumors or Other Deformities BUI 5: Bird or Animal Deformities or Reproductive Problems BUI 6: Degradation of Benthos BUI 7: Restrictions on Dredging Activities BUI 8: Eutrophication or Undesirable Algae BUI 9: Restrictions on Drinking Water Consumption or Taste & Odor Problems BUI 10: Beach Closings (Recreational Contact) BUI 11: Degradation of Aesthetics BUI 12: Added Costs to Agriculture or Industry BUI 13: Degradation of Phytoplankton and Zooplankton Populations	BUI 2:	Tainting of Fish and Wildlife Flavor
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BUI 9: Restrictions on Drinking Water Consumption or Taste & Odor Problems BUI 10: Beach Closings (Recreational Contact) BUI 11: Degradation of Aesthetics BUI 12: Added Costs to Agriculture or Industry BUI 13: Degradation of Phytoplankton and Zooplankton Populations	BUI 7:	Restrictions on Dredging Activities
BUI 10: Beach Closings (Recreational Contact) BUI 11: Degradation of Aesthetics BUI 12: Added Costs to Agriculture or Industry BUI 13: Degradation of Phytoplankton and Zooplankton Populations	BUI 8:	Eutrophication or Undesirable Algae
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BUI 12: Added Costs to Agriculture or Industry BUI 13: Degradation of Phytoplankton and Zooplankton Populations	BUI 10:	Beach Closings (Recreational Contact)
BUI 13: Degradation of Phytoplankton and Zooplankton Populations	BUI 11:	Degradation of Aesthetics
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