



Wilcox and Phoenix Lakes Restoration Project



> Summary of the Great Lakes National Program Office- Funding (Great Lakes Restoration Initiative)

- US Environmental Protection Agency: Great Lakes National Program Office- Funding (Great Lakes Restoration Initiative)
- Alliance of Rouge Communities (ARC) – Grant/Project Owner
- Wayne County Parks – Land Owner/ARC Community Member
- City of Plymouth – ARC Community Member
- Plymouth Township – ARC Community Member
- Northville Township – ARC Community Member
- Rouge River Advisory Council – Local PAC
- Environmental Consulting & Technology, Inc. (ECT) – Engineer
- ENTACT - Contractor



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1987
AOCs Identified

2010
Great Lakes Restoration Initiative (GLRI)

2016
Habitat Restoration Project List Approved



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> 2021 EPA GLRI Grant for Design (2021- 2022)

- QAPP Topographic Survey
- Wetland Streambank Assessment
- T&E Design
- Permitting

> 2022 EPA GLRI Grant for Implementation (2022- 2026)

- Contract Documents Construction Bidding
- Construction Grant Administration
- Public Outreach

> Implementation Grant Objectives

6.0 acres of habitat restored and created

- ✓ 4.5 acres at Wilcox
- ✓ 1.5 acres at Phoenix

Approximately 6,000 cubic yards of sediment were removed from Wilcox Lake

6.5 acres of invasive species management

- ✓ 2.5 acres at Wilcox
- ✓ 4.0 acres at Phoenix



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➤ Project

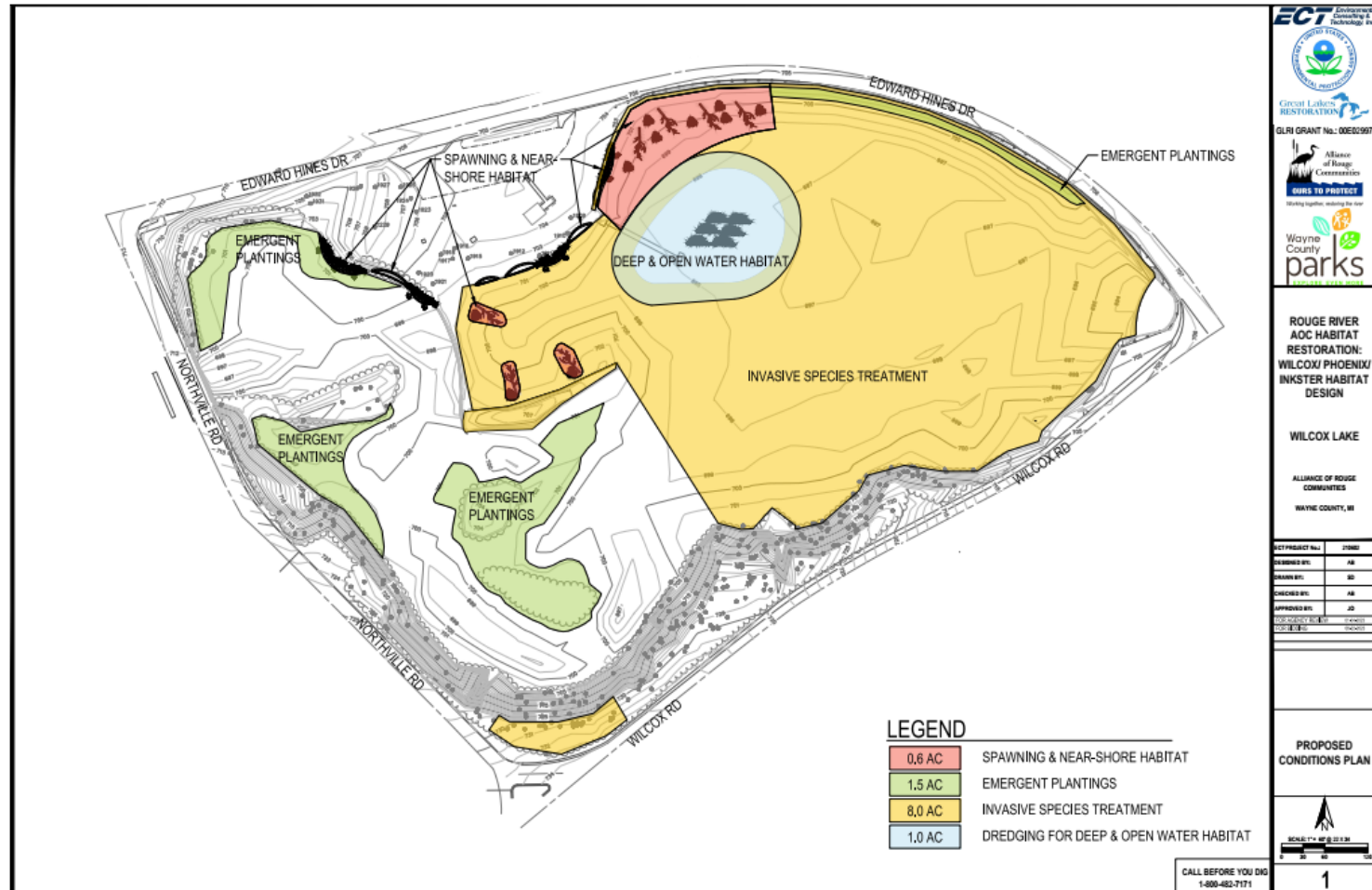
- ✓ Invasive Species Control, Revegetation, Erosion Repair
- ✓ Natural Sand Spawning Habitat
- ✓ Cover Habitat
- ✓ Emergent Habitat

➤ Grant Metric Objectives

- ✓ 4.5 acres of habitat restored and created
- ✓ 2.5 acres of invasive species management

➤ Anticipated Outcomes

- ✓ 3.6 acres of habitat restored and created
- ✓ 8.0 acres of invasive species management



ECT Environmental Consulting & Technology, Inc.

Great Lakes RESTORATION

GLRI GRANT No.: 06E02987

Alliance of Rouge Conservation

GOES TO PROTECT

Wayne County parks

ROUGE RIVER AOC HABITAT RESTORATION: WILCOX/ PHOENIX/ INKSTER HABITAT DESIGN

WILCOX LAKE

ALLIANCE OF ROUGE COMMUNITIES

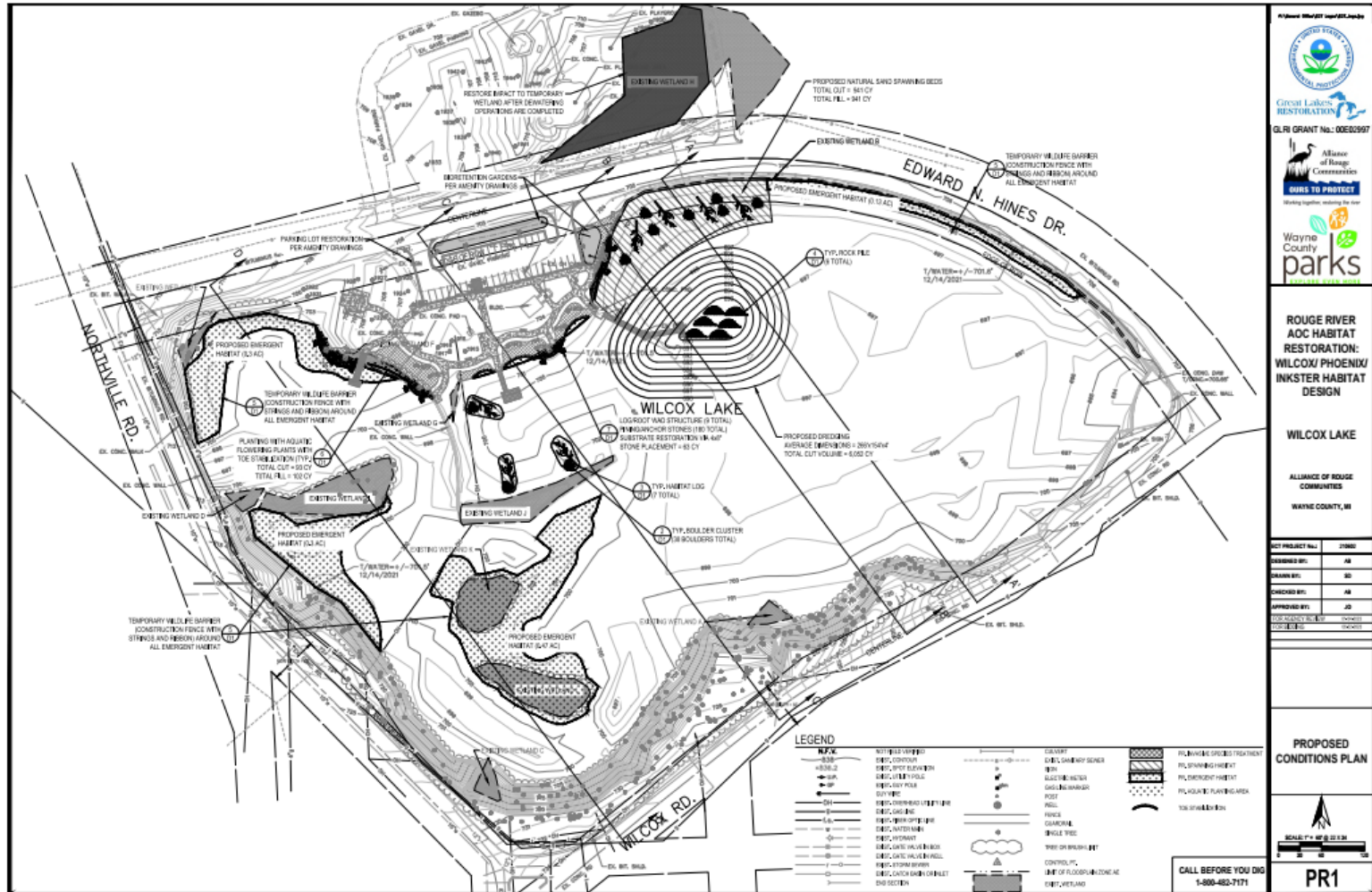
WAYNE COUNTY, MI

ECT PROJECT No.	02060
DESIGNED BY:	AK
DRAWN BY:	SD
CHECKED BY:	AK
APPROVED BY:	JD

PROPOSED CONDITIONS PLAN

SCALE: 1" = 200'

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Great Lakes RESTORATION

 GLRI GRANT No.: 00E0397

 Alliance of Rouge Communities

 Wayne County parks

ROUGE RIVER AOC HABITAT RESTORATION: WILCOX/PHOENIX/INKSTER HABITAT DESIGN

WILCOX LAKE

 ALLIANCE OF ROUGE COMMUNITIES

 WAYNE COUNTY, MI

PROPOSED CONDITIONS PLAN

 SCALE: 1" = 40'

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Project

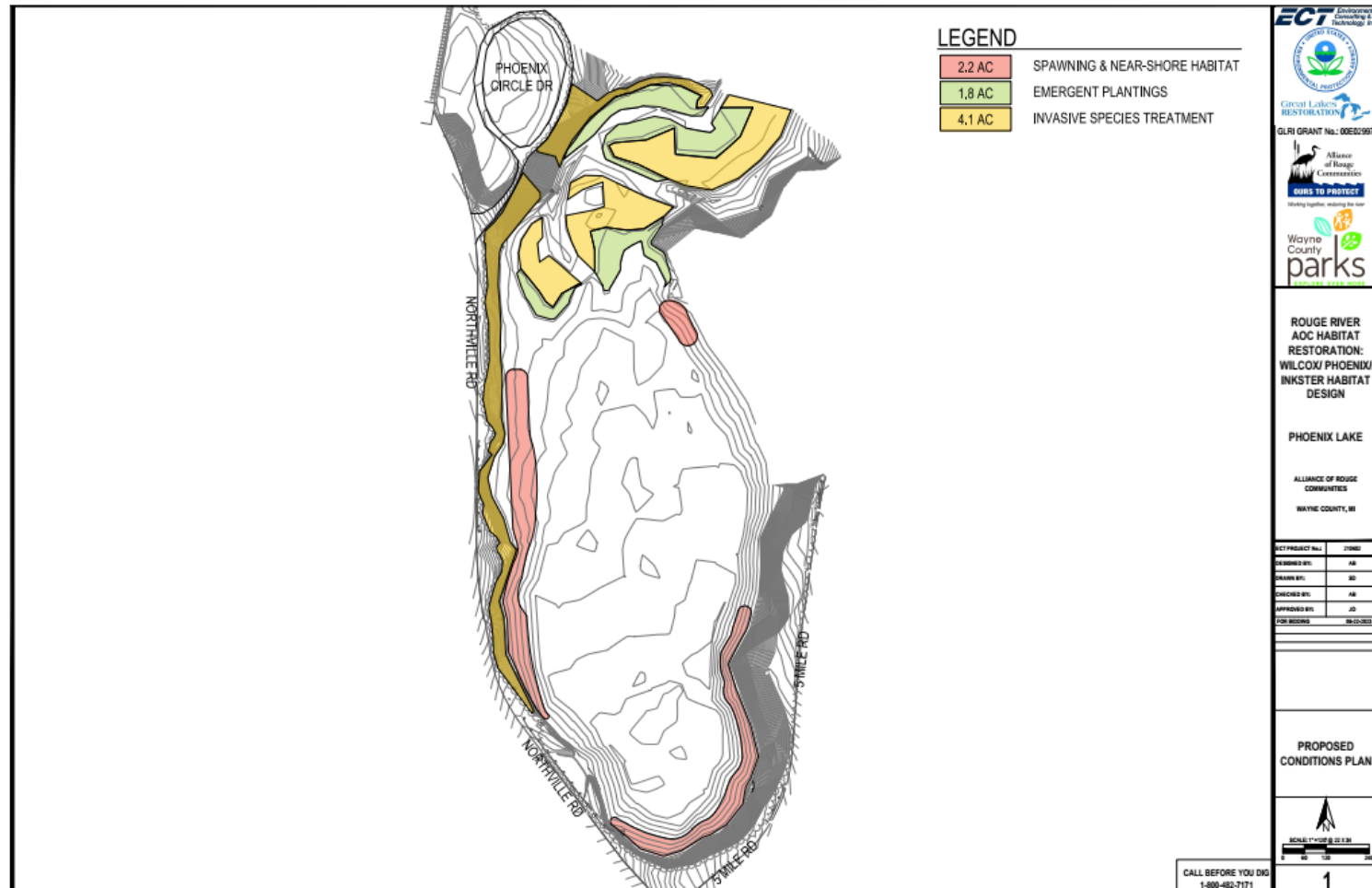
- ✓ Invasive Species Control, Revegetation, Erosion Repair
- ✓ Natural Sand Spawning Habitat
- ✓ Cover Habitat
- ✓ Emergent Habitat

Grant Metric Objectives

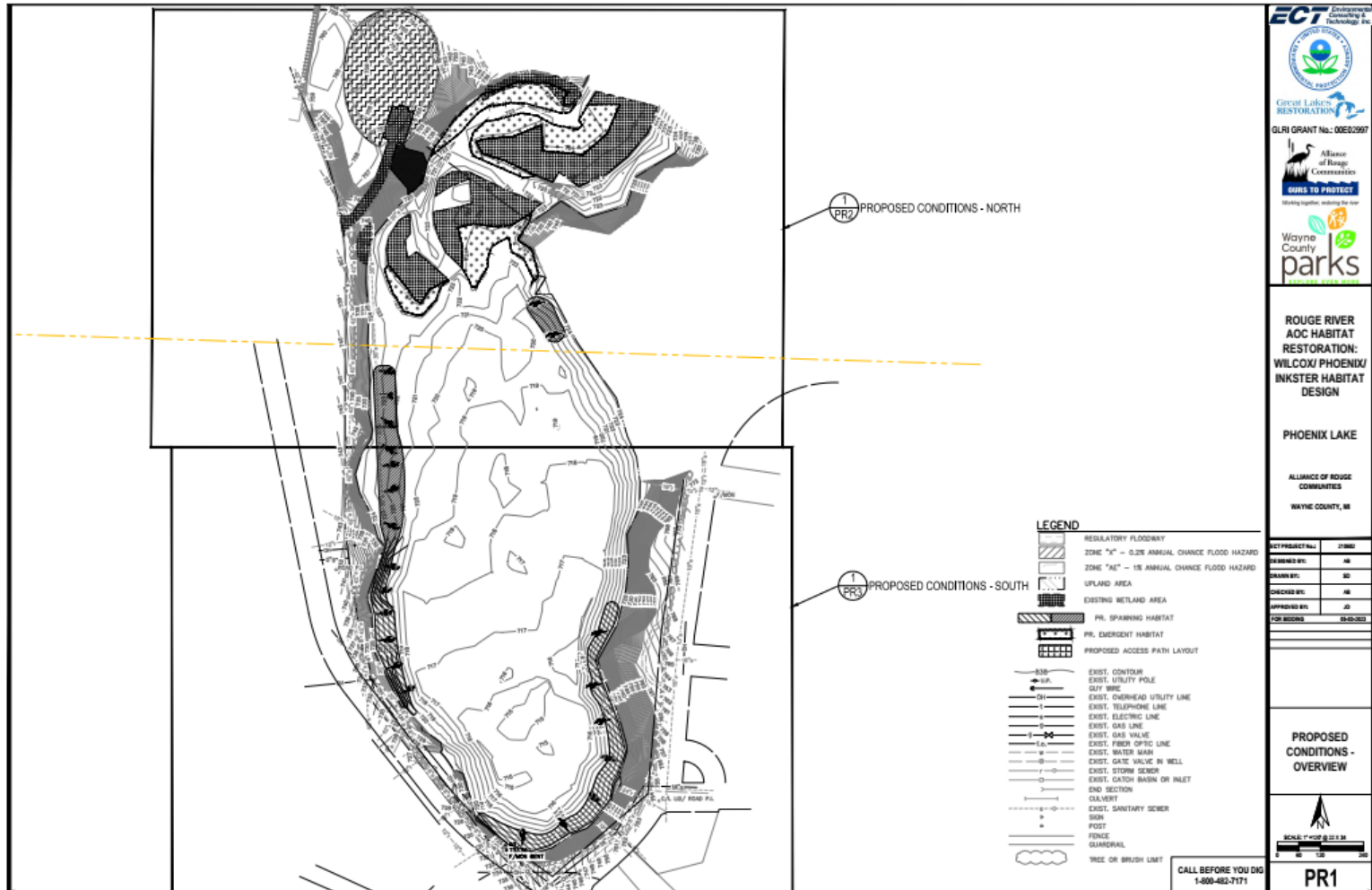
- ✓ 1.5 acres of habitat restored and created
- ✓ 4.0 acres of invasive species management

Anticipated Outcomes

- ✓ 4.0 acres of habitat restored and created
- ✓ 4.1 acres of invasive species management



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➤ **Fish Spawning**

- ✓ Substrate and aquatic vegetation for egg-laying

➤ **Fish Nursery**

➤ **Fish Cover**

- ✓ Nursery cover and feeding for Larval and juvenile
- ✓ Escape predators
- ✓ Attachment surfaces for foraging
- ✓ Predator ambush

➤ **Turtle and Waterfowl Loafing**

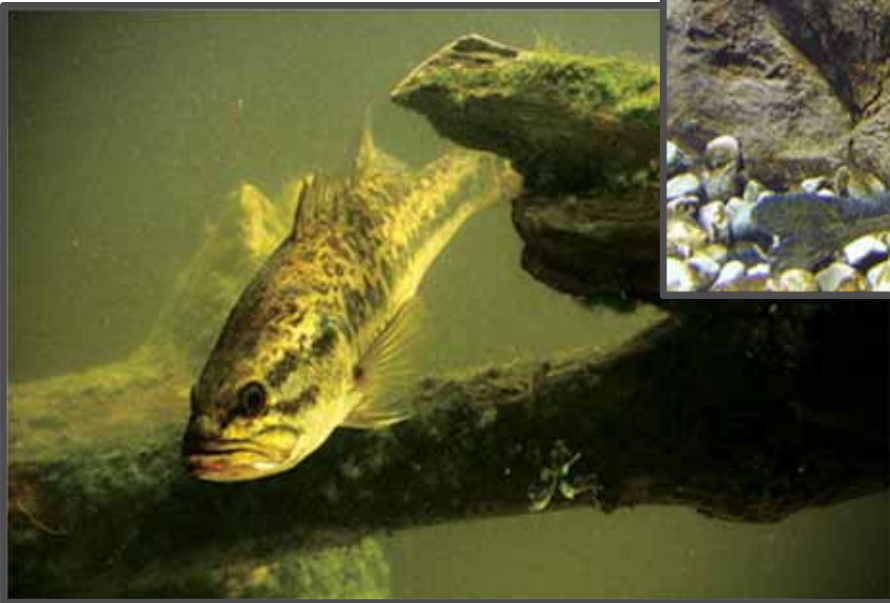
➤ **Nearshore and Aquatic Plantings help Insect Diversity**



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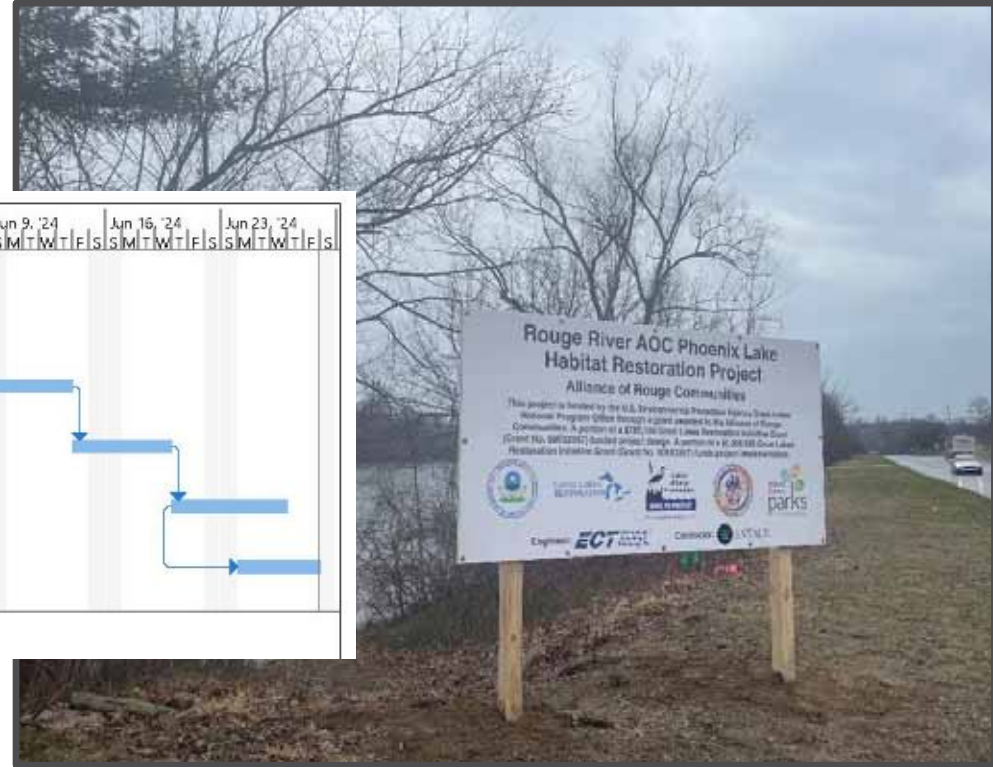


Task Name	Duration	Start	Finish	March	April	May	June
Mobilize to Wilcox Lake	10 days	Mon 3/11/24	Fri 3/22/24	█			
Site Preparation	16 days	Mon 3/11/24	Mon 4/1/24	█	█		
Woody Invasive Management	7 days	Wed 3/13/24	Thu 3/21/24	█			
Deep Water Habitat & Sand Spawning Dredging	17 days	Tue 4/2/24	Wed 4/24/24		█		
Sediment Disposal Trucking	15 days	Tue 4/2/24	Tue 4/23/24		█		
In Lake Habitat Construction	8 days	Tue 4/23/24	Fri 5/3/24			█	
Sand Spawning Bed Placement	2 days	Tue 4/23/24	Thu 4/25/24			█	
Rock Pile Placement	1 day	Thu 4/25/24	Fri 4/26/24			█	
Boulder Cluster and Habita Log Placement	5 days	Fri 4/26/24	Fri 5/3/24			█	
Shoreline Habitat Construction	10 days	Fri 5/3/24	Fri 5/17/24			█	
Log Root Wad	5 days	Fri 5/3/24	Fri 5/10/24			█	
Aquatic Planting Areas	5 days	Fri 5/10/24	Fri 5/17/24			█	
Site Restoration	15 days	Fri 5/17/24	Fri 6/7/24				█
Demobilization	7 days	Mon 5/27/24	Wed 6/5/24				█



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Task Name	Duration	Start	Finish	May 26, '24	Jun 2, '24	Jun 9, '24	Jun 16, '24	Jun 23, '24																			
				M	T	W	T	F	S	M	T	W	T	F	S	M	T	W	T	F	S	M	T	W	T	F	S
Mobilize from Wilcox Lake	4 days	Tue 5/28/24	Fri 5/31/24																								
Site Preparation	3 days	Wed 5/29/24	Fri 5/31/24																								
Sand Spawning Bed Placement	9 days	Mon 6/3/24	Thu 6/13/24																								
Habitat Log Placement	4 days	Fri 6/14/24	Wed 6/19/24																								
Site Restoration	5 days	Thu 6/20/24	Wed 6/26/24																								
Demobilization	5 days	Mon 6/24/24	Fri 6/28/24																								



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