

# Four Lakes Task Force

Gladwin and Midland Counties' Delegated Authority  
of the Four Lakes Special Assessment District

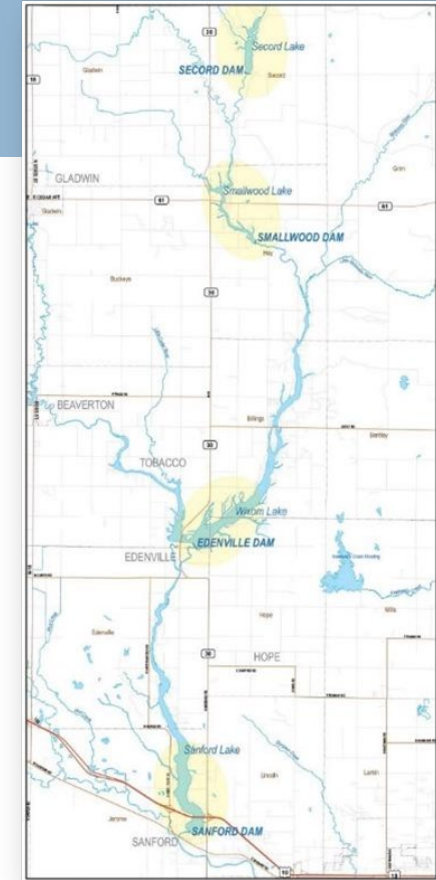
## June Update

June 8, 2023

Community Information Meeting



Four Lakes Task Force



# Informational Communications Meeting

2

- This is an informational session
  - ▣ This meeting is being held virtually to accommodate as many people as possible
- This is not a board meeting – no formal action will occur
- Please use the Q&A feature in GoToWebinar or email questions to [info@fourlakestaskforce.org](mailto:info@fourlakestaskforce.org) and we will answer questions during the meeting and at the end



# Agenda

3

- Progress Report
  - ▣ Recovery
  - ▣ Timeline
  - ▣ Lake by Lake Updates
- Question and Answers



# A clear path to restoring the Four Lakes

4

- Successful stabilization of the Four Lakes System
- Secord and Smallwood are permitted and under construction
- Sanford and Wixom construction planned to start this summer
- Discipline of design
  - Safety – greater than current state standards
  - Environmental restoration and “run of river”
  - Four Lakes managed as one system
  - Sustainable:
    - Operations – Financing – Lake Health - Economic Impact



# 2020-2022 Recovery Milestones

6

- **Dam stabilization** on Smallwood, Secord, Edenville and Sanford dams completed resulting in stable structures for the interim period before restoration.
- **Debris removal** from Sanford Dam, downstream and bottomlands consisted of 1,044 debris points removed to-date. On Wixom Lake, 1,307 debris points have been removed



- **Shoreline erosion** – FLTF has performed 28 shoreline and culvert stabilization projects. In total, 10,634 feet of shoreline were restored using 48,335 tons of riprap among other materials.

# 2020-2022 Restoration & Pre-Construction

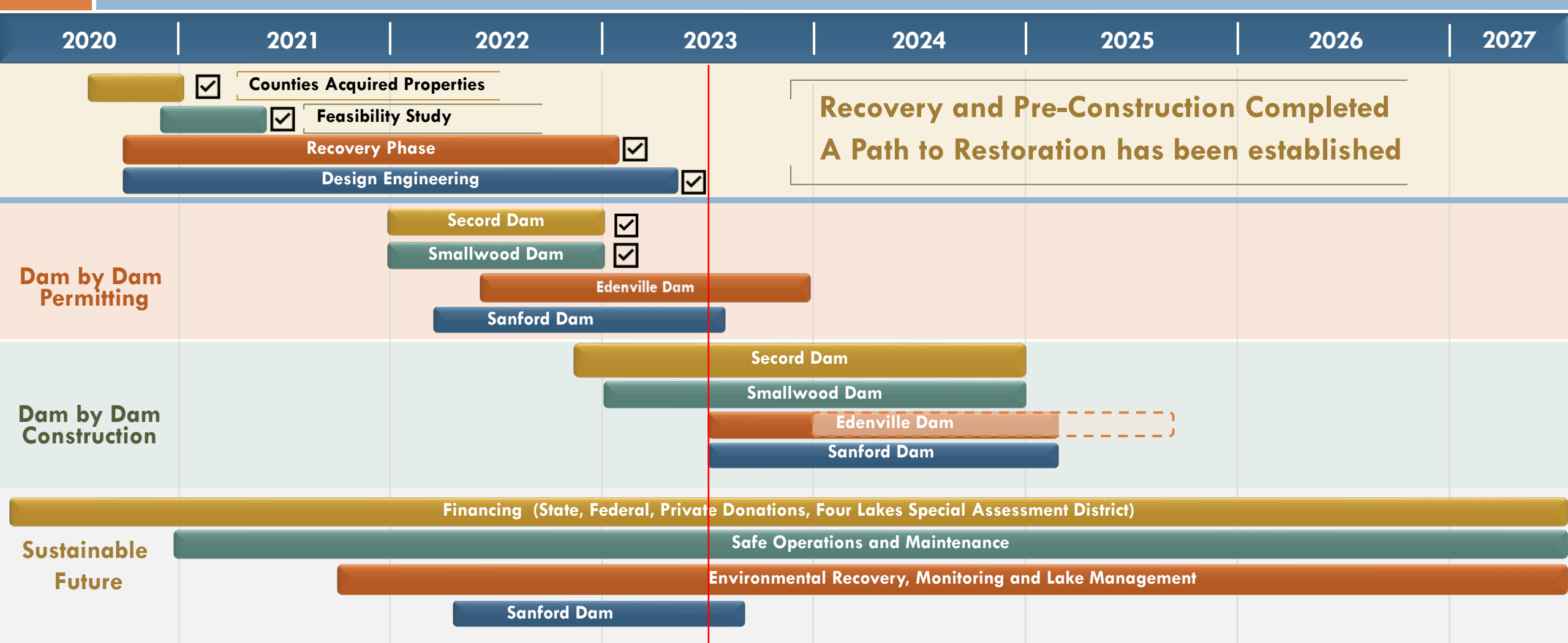
## A \$58 Million Investment

- Secord and Smallwood to acquire all permits and construction has begun
- Edenville and Sanford dams are at 100% design engineering and are moving through the permitting process
- Hydrology analysis, feasibility study, and environmental studies are completed



2020-2022 High Level Interim Expenditures prior to Construction						
	State of Michigan	Federal	Private Donations	Homeowner Share	SAD	Total Expenditure
Recovery	\$ 12,146,317	\$ 19,899,473		\$ 691,880		\$ 32,737,670
Preconstruction Restoration	\$ 20,616,737		\$ 1,368,486			\$ 21,985,222
O&M	\$ 855,211		\$ 875,812		\$ 1,399,810	\$ 3,130,834
<b>Total Spent on interim by source</b>	<b>\$ 33,618,265</b>	<b>\$ 19,899,473</b>	<b>\$ 2,244,298</b>	<b>\$ 691,880</b>	<b>\$ 1,399,810</b>	<b>\$ 57,853,726</b>

# Dam Restoration Timeline



— Where we are now

⌋ Shaded rectangle indicates timing if permits are received by the end of 2023

# Secord – 2023 Construction Work Planned

8

- Value engineering on water control for primary spillway
- West of the dam, access roads and storm sewer are under construction and close to completion
- Mobile concrete batch plant has been constructed and began testing various mix designs for acceptance
- Completion of auxiliary spillway
  - Planned well drilling to divert groundwater before deep excavation takes place of the auxiliary spillway





# Smallwood – Construction Underway

9

- Access roads on the south side of the dam have been completed, with the laydown yard currently under construction
- Access road downstream of the power house is under construction
- Auxiliary spillway excavations (north of dam) have been completed, with steel sheet pile driving underway



# Edenville – 2023 Construction Work Planned

10

## “Pull-Ahead” Construction

- Contracting is in the final stages for installing the SCB (soil cement bentonite) cutoff wall in the embankments
- Planned to start this summer

## Permitting for 2024 Construction

- Environmental assessment for permitting (endangered species)
- FEMA Conditional Letter of Map Revision (CLOMR)
- EGLE Stream Mitigation Plan



# Sanford - Restoration Project to Start this summer

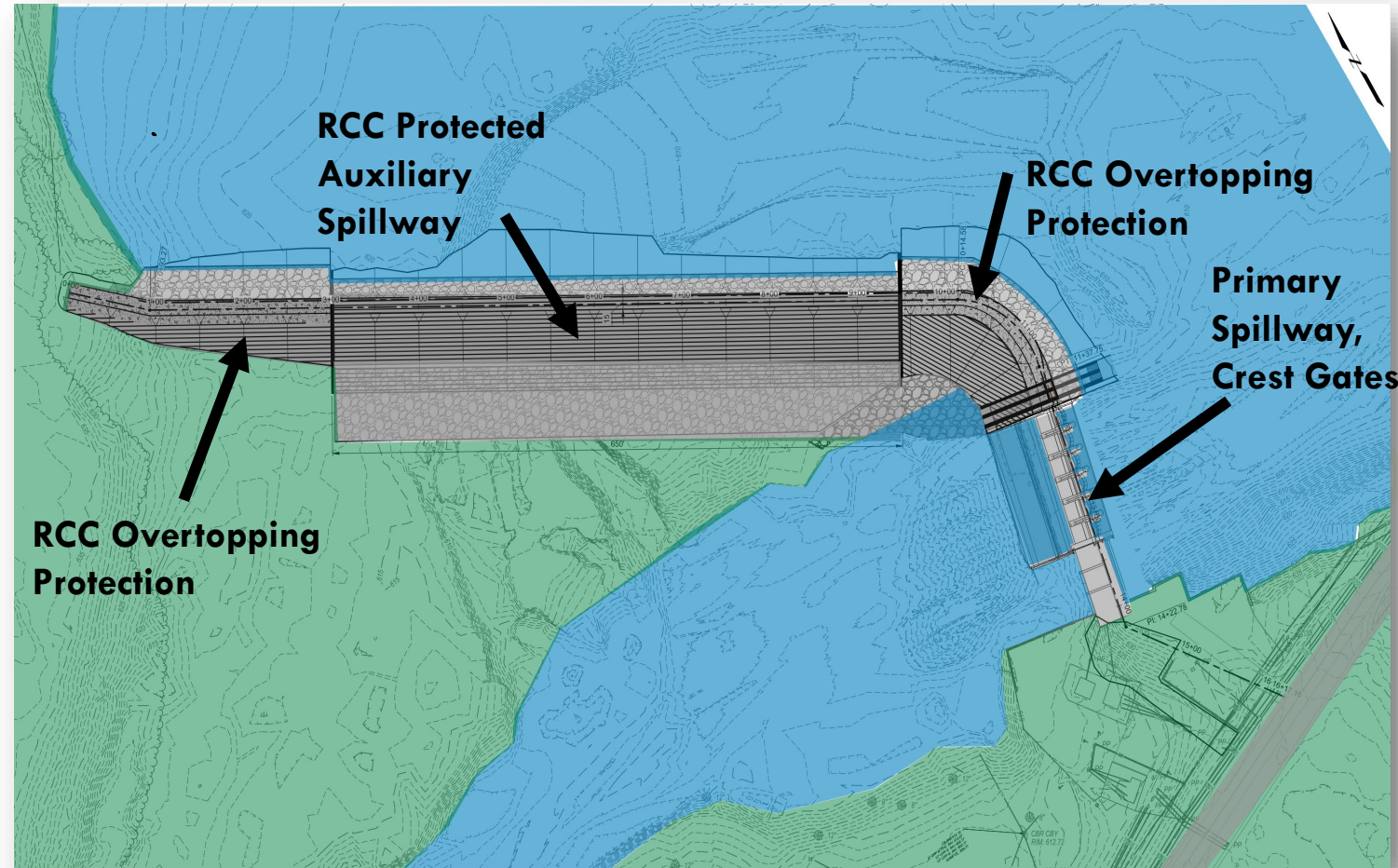
11

## Restoration Construction

- FLTF has engaged with Spence Brothers for pre-construction consulting and new bid letting
- Fisher Contracting is a likely subcontractor based on its prior bid on Sanford

## Final Steps for Permitting

- Complete public comment period
- Agreement on stream mitigation with EGLE





12

Q&A

# Where to Find Information

www.FourLakesTaskForce.org

13

Register for our next webinar and find out when all meetings take place on the **EVENTS** page

The screenshot shows the homepage of the Four Lakes Task Force website. At the top left is the organization's logo. A navigation menu includes links for ABOUT, RESTORATION PLAN, DONATE, EVENTS, DOCUMENTS, RESOURCES, SPECIAL ASSESSMENT DISTRICT, and CONTACT. A search bar is located in the top right. The main banner features a large image of a dam construction site with the text "Four Lakes Task Force" overlaid. Below the banner are three buttons: "DONATE", "NEWS FLASHES", and "UPDATES". A dropdown menu is open from the "UPDATES" button, listing: EROSION CONTROL, FOIA REQUEST, FREQUENTLY ASKED QUESTIONS, LAKEBOTTOM INFORMATION, SUBSCRIBE, UPDATES, and VOLUNTEER. An orange arrow points from the "EVENTS" text box to the "EVENTS" link in the navigation menu. Another orange arrow points from the "UPDATES" text box to the "UPDATES" option in the dropdown menu. Below the banner is a section titled "UPDATES & NEWS" with a sub-section for a "3 YEAR REPORT". The report text begins: "It has been three years since the Edenville Dam failure and we can be proud of our progress toward restoring Secord, Smallwood, Wixom and Sanford lakes and their dams. 2022 saw the completion of the Recovery Phase program and its over 30 projects and we moved solidly into the Restoration Phase for all four properties. The notable milestones in..."

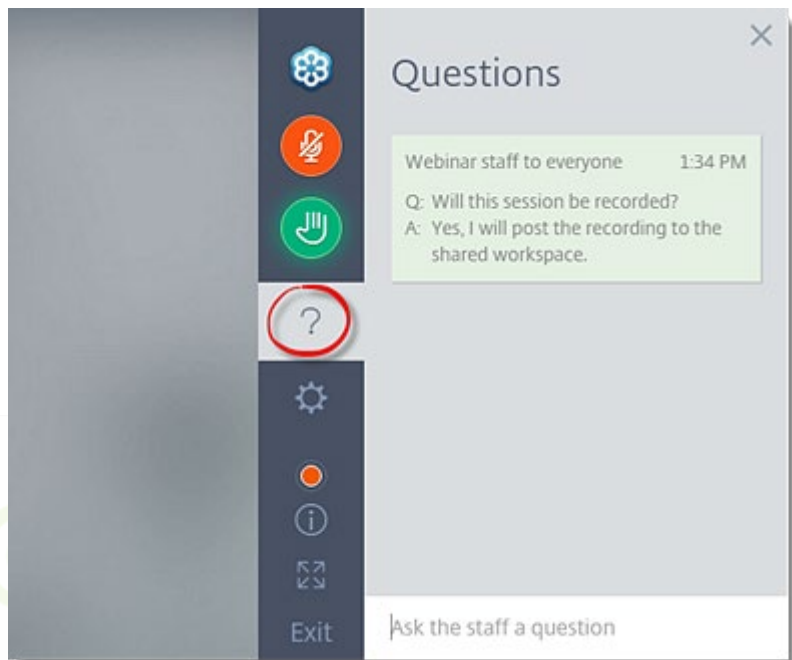
Read the latest news and updates on the **UPDATES** page

# Questions

14

Use the Q&A feature in GoToWebinar:

1. Select the **Questions** pane in the toolbar.
2. Enter your question in the text, then press **Enter**.



Or email your questions to [info@fourlakestaskforce.org](mailto:info@fourlakestaskforce.org) and we will try to get to as many as we can.

# Oversight of the Four Lakes

## Counties

**Gladwin County**

**Midland County**

- Owners of the dams and bottomlands

Managed in a **joint county agreement with the Four Lakes Task Force (FLTF)**, pursuant to the Urban Cooperation Act of 1967, and Part 307 of the Natural Resource Environmental Protection Act (Part 307).

## Four Lakes Task Force (FLTF) A 501©3 non-profit

- May receive grants from public and private sources to lower the burden to the county and the Special Assessment District
- The **Part 307 Delegated Authority** in the Restoration and management of the Four Lakes system

Under Part 307, to restore the Dams and Lakes to their Normal Legal Lake Levels, Maintain and Operate the dams and Lakes in compliance with Part 307, Part 315, Part 31, Part of the Michigan Natural Environmental Protection Act.

## Four Lakes Special Assessment District (SAD)

- The Four Lakes Special Assessment District was established under Part 307 along with the Legal Lake Levels
- The **Part 307 Delegated Authority** manages the SAD
- Counties Approve

Financing for restoration, maintenance and operations of the dams through the implementation of a capital and operational assessments.

## Lake by Lake Improvement

- Lake Improvement Boards delegated under Part 309
- Townships
- Weed assessments districts
- Drains/Drain Commissioners
- With support from FLTF or lake Associations as non-profits

- Weed Control
  - Dredging
  - Parks and Recreation
  - Environmental Improvement
  - Shoreline protection
- Note:** outside of Four Lakes Special Assessment district scope to fund.

# Summary of All Dam Restoration Discharge Capacity

16

	Secord Dam		Smallwood Dam		Edenville Dam		Sanford Dam	
Parameter	Pre-Flood Spillway	Restoration Spillway	Pre-Flood Spillway	Restoration Spillway	Pre-Flood Spillway	Restoration Spillway	Pre-Flood Spillway	Restoration Spillway
IDF Inflow (cfs)	18,200		28,300		55,400		54,900	
Total Spillway Capacity (cfs)	8,000	32,500	28,000	39,100	20,650	80,700	36,200	77,500
<b>Spillway Capacity Increase</b>	<b>24,500 cfs</b>		<b>11,100 cfs</b>		<b>60,050 cfs</b>		<b>41,300</b>	
<b>Increase percentage</b>	<b>306%</b>		<b>40%</b>		<b>291%</b>		<b>115%</b>	
Probabilistic Storms								
Flood	Secord Dam		Smallwood Dam		Edenville Dam		Sanford Dam	
EGLE (2020) 100- Year	4,300		6,700		19,000		20,000	
<b>Ayres (2021) 100 year</b>	<b>6,730</b>		<b>11,090</b>		<b>22,400</b>		<b>23,600</b>	
<b>% 100-year Increase</b>	<b>56%</b>		<b>65%</b>		<b>18%</b>		<b>18%</b>	
<b>May 2020 Flood Flow Rates</b>	<b>N/A</b>		<b>N/A</b>		<b>19,100</b>		<b>N/A</b>	
<b>5,000-year Flood</b>	<b>15,900</b>		<b>24,335</b>		<b>55,400</b>		<b>54,900</b>	



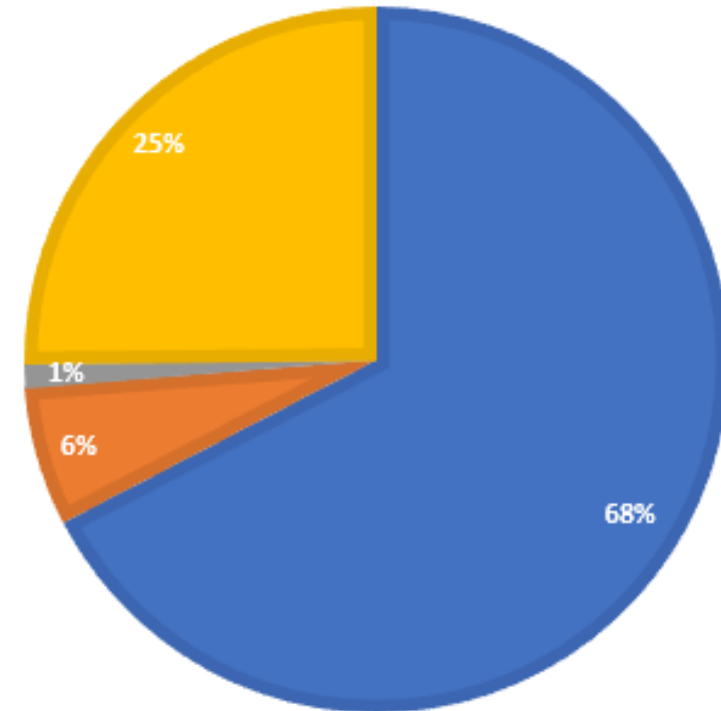
# Financing of Recovery and Restoration

17

- Assumes ~\$330 million + for recovery and restoration.
- Capital special assessment to be paid using US Army Corp loans to keep interest rates affordable for the community
- Continue to seek grants and donations to lower the burden on the local governments and the communities

RESTORATION AND RECOVERY TOTAL FUNDING BY SOURCE

■ State of Michigan ■ Federal Grants ■ Private Donations ■ Special Assessment



# Environmental Restoration

18

- Permitting
  - ▣ Environmental assessment of Snuff Box Mussel
  - ▣ Stream mitigation projects
- Wetland monitoring as the lakes are recovered
- Run of the river
- Lake-by-lake
  - ▣ Transition plans
  - ▣ Long-term management plans
  - ▣ Investment in recreation



# Bottomlands and Weed Control

19

## □ Community responsibilities for lake management

- Weed control
- Dredging
- Parks and recreation
- Shoreline

## □ FLTF responsibilities for lake management

- Lake levels
- Dam maintenance and operation
- Part 307



Lake improvement boards will begin spraying the bottomlands to remove vegetation in late June

**Please do NOT mow the bottomlands/trees between now and August 1, 2023**



# 2023 Calendar

## JULY

13<sup>th</sup>: Informational  
Webinar  
25<sup>th</sup>: Board Meeting

## AUGUST

10<sup>th</sup>: Informational  
Webinar  
25<sup>th</sup>: All lakes event

## WINTER

October 24<sup>th</sup>: Board  
Meeting  
December 12<sup>th</sup>: Board  
Meeting



21

Thank you for joining us