

Great Lakes High Water and Erosion

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Water Resources Division

1/23/2020

EGLE

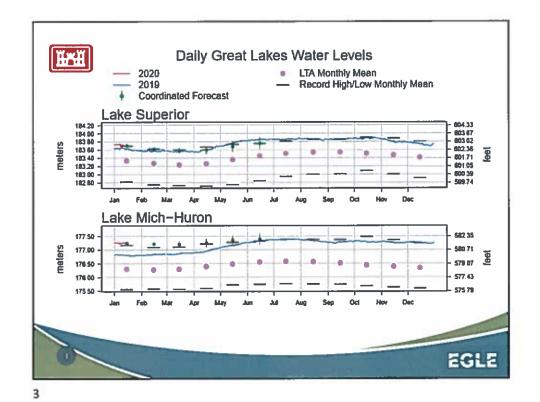
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Great Lakes Water Levels

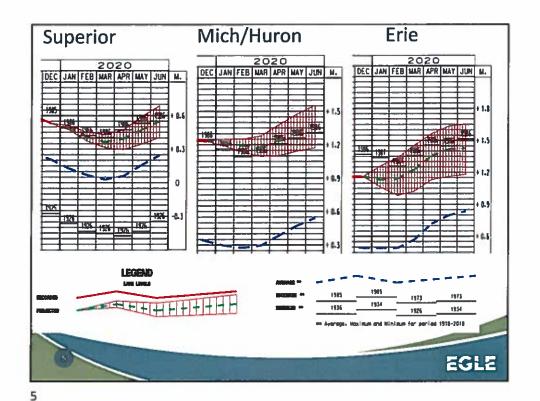


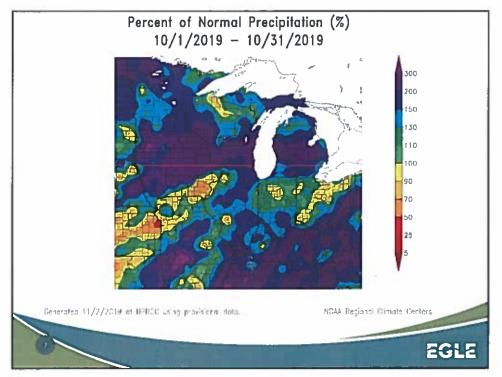
- Water levels are cyclical with periods of low and high water
 - Can last for several years
 - Influenced by precipitation, runoff, and evaporation
- All the Great Lakes are currently at or near record highs

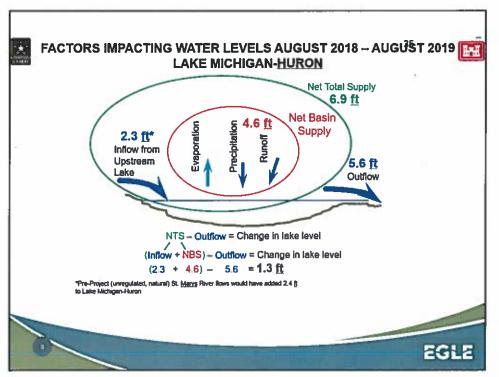
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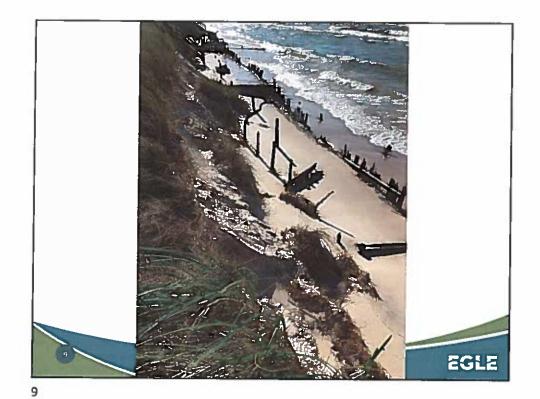


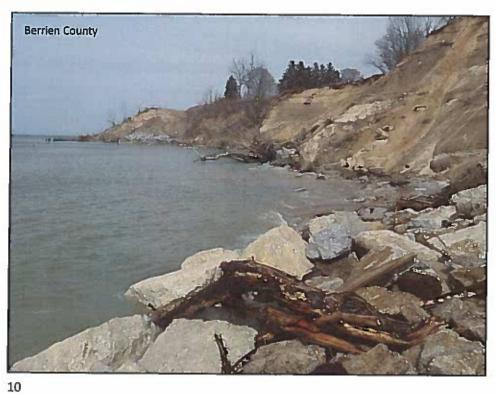
HAH **Daily Great Lakes Water Levels** LTA Monthly Mean Record High/Low Monthly Mean 2020 - 2019 Coordinated Forecast Lake St. Clair 575 79 175.50 574 15 175 00 174.50 57251 174 00 Lake Erie 175 00 572.5t 174 50 570 87 174 00 173.50 EGLE

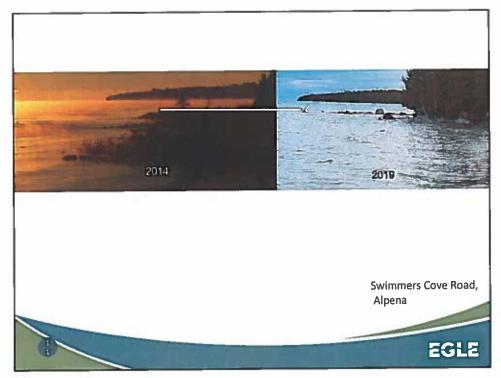


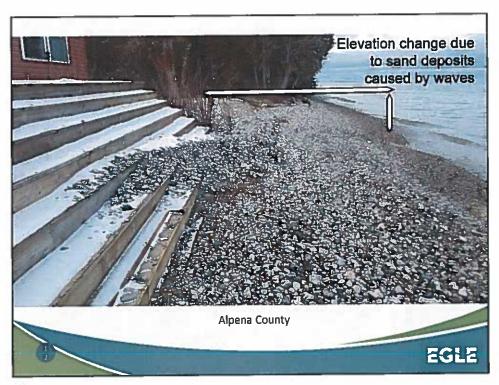






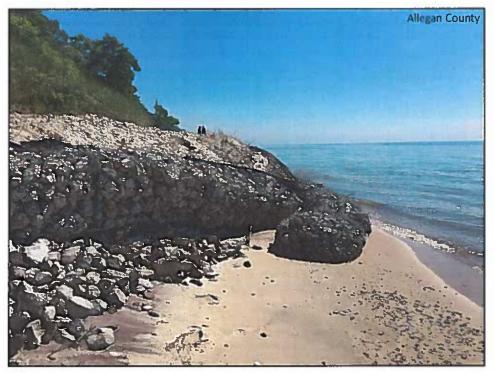


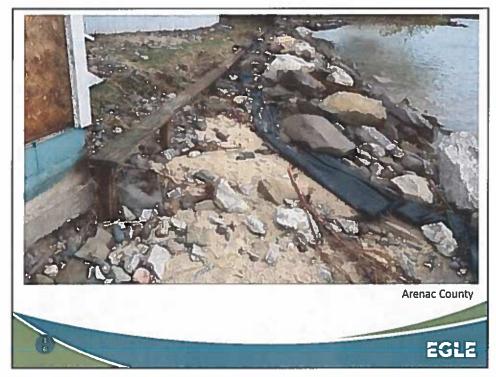














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 https://www.youtube.com/watch?v=8L2yK2iT 4C0

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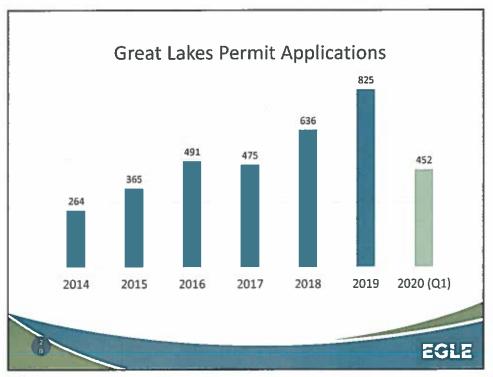
Permitting

- If the water level is at or above the proposed structure, a permit is required to install shoreline protection on the Great Lakes from both EGLE and the United States Army Corps of Engineers (USACE).
- If the site is in a Critical Dune Area, a permit is required for most activities.

In Michigan, one application covers both state and federal requirements for these programs (Joint Permit Application - Michigan.gov/JointPermit)

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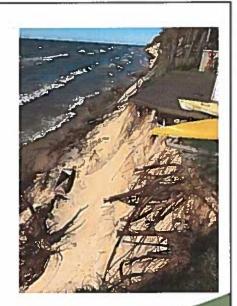


What is EGLE doing about it?

✓ 2018 – 2019: Staff Reassignments

✓ October 2019: Phase I

☐ January 2020: Phase II



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Phase I:

Internal Response Team:

- 1. Expedite high water permits
- 2. Customer assistance
- 3. Communicate







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Phase I – Assisting Customers

- ✓ New webpage: Great Lakes High Water Levels (Michigan.gov/HighWater)
- ✓ Customer assistance on-calls (8:30-4:30, M-F): Environmental Assistance Center (800-662-9278 or <u>EGLE-assist@Michigan.gov</u>). Tell the operator you are calling about "high water".

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Phase I - Communication

- ✓ Press Releases (3)
 - √ 30+ Media Interviews
- ✓ Local Units of Government Webinar (11/12)
- ✓ MiEnvironment Blog Articles
- ✓ Public Meetings: Holland, Lexington,Manistee (2), Spring Lake
- ✓ Stakeholder Meeting Presentations (6+)

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Phase I- Expediting Permits

- ✓ Prioritize based on risk to homes, critical infrastructure, and human health & safety
- ✓ More staff reassignments and overtime
- ✓ Emergency permitting authority
- ✓ Streamlining permitting processes
 - ✓ Minor Project category for sandbag stabilization
 - ✓ Modifying internal procedures

FY 2020 Q1:

Ave. Received to Issued = 14 days (66% within 7 days) Ave. Complete to Issued = 4 days (95% within 2 days)

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Phase II

Intended to address unforeseen challenges

- ☐ Limiting after-the-fact permit fees
- ☐ Working with LUGs to obtain timely comments
- ☐ Changing "complete" application requirements to address:
 - Engineer/Architect sign offs
 - Soil erosion permitting
- □ Emergency Conditional Permitting

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Ongoing Considerations

- · Inland and lakeshore flooding
 - Communities
 - Infrastructure
 - Mapping
- Agency coordination
- Sustainability of other permitting responsibilities

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