Addressing Lake Erie Water Clarity: BMPs for Turbidity and Placement of Dredged Material

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BMPs for Turbidity When Placing Dredge Material in Lake Erie

- Municipal Water Supply Intake Facilities
 - Dredging operations shall not take place within 3000 feet up-current of municipal water supply intakes
 - Notify municipal water supply users whose water quality may be affected by turbidity plumes prior to dredging (or placement of dredge material)
- Fish and Wildlife Restrictions

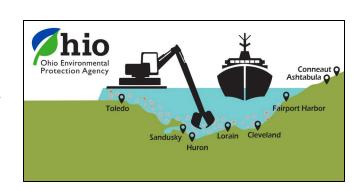


- Mussel surveys and relocations
- Fish spawning windows (in-water work restrictions)



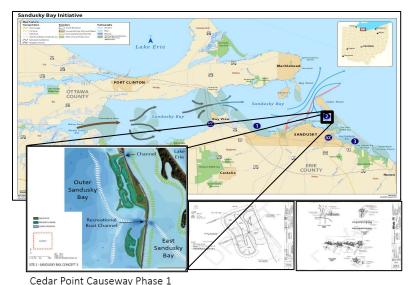
Alternative Approaches to Addressing Water Clarity in Lake Erie

- Dredging Placement BMP
- Sampling for PCBs/other contaminates
- ORC 6111.32 Dredging Plan restricts open-lake placement of dredge material into Lake Erie
 - Combined Disposal Facilities
 - Beneficial use projects
 - Beach nourishment projects with >79% sand
 - Placement in littoral drift > 59% sand
 - Habitat restoration projects
 - Limited open water placement to 10k CY



Alternative Approaches to Addressing Water Clarity in Lake Erie Cont'd

- Evaluate and approve based on project need, purpose, and design
- Major investments in beneficial use of dredge material to restore functional wetlands
- Healthy Lake Erie and H2Ohio projects (Cedar Point Causeway and Sandusky Bay Initiative)
- Innovative nature-based design techniques to minimize water quality degradation





Future Considerations...

 Ohio EPA is interested in evaluating innovative opportunities to further reduce any potential negative effects on water quality that may be caused by turbidity



