



US Army Corps
of Engineers
Great Lakes &
Ohio River Division

FY 07 Navigation Season Summary

Appendix Four

Water Levels & Dredging Impacts on Navigation

Wayne Schloop, PE
Chief, Operations
Detroit District



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Harbors & Channels





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FY 07 Navigation Season Summary

Water Levels & Dredging “Impacts on Navigation”

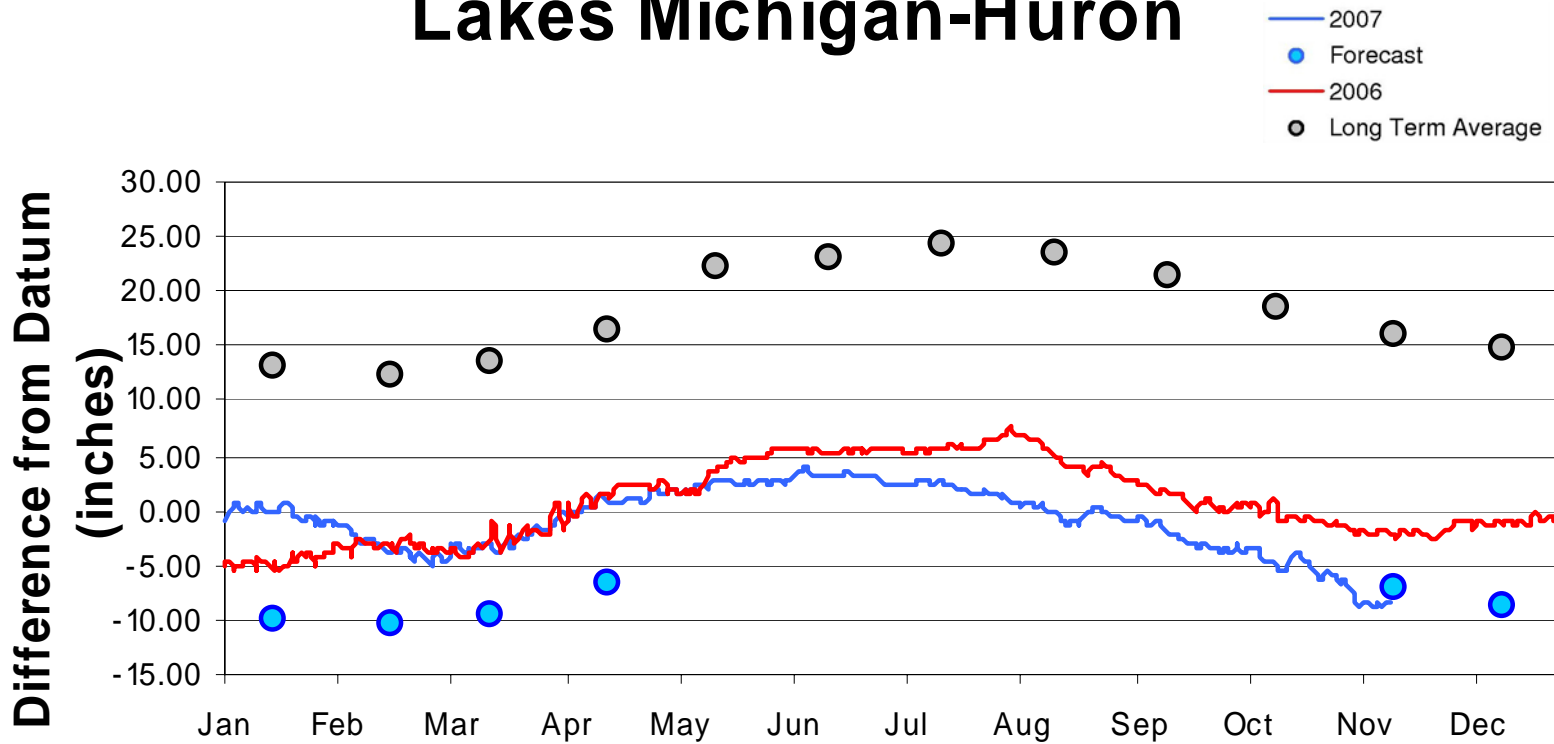
- > Groundings
- > Muskegon Harbor
- > Little Lake
- > Portage Lake



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Current Conditions Lake Levels

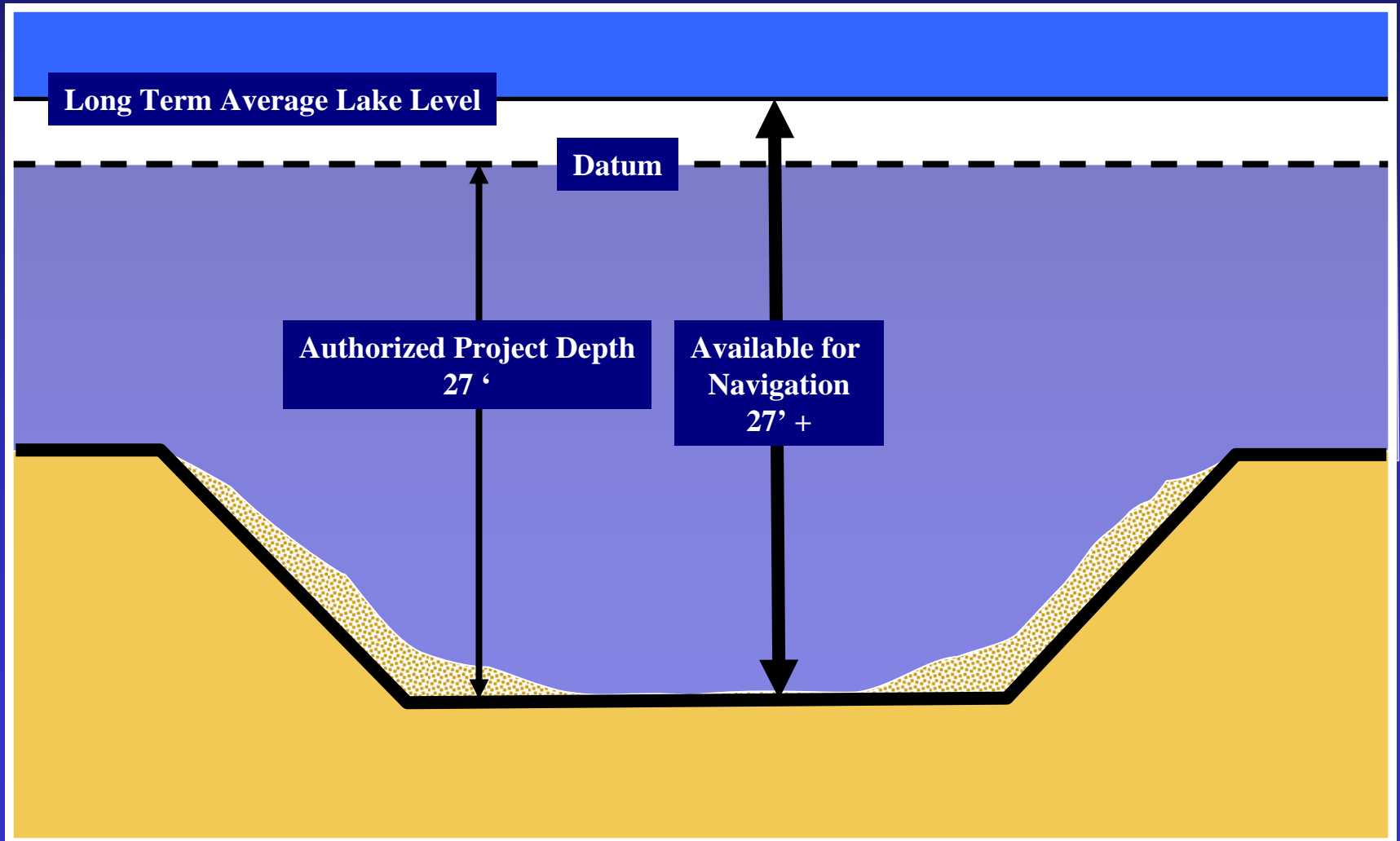
Lakes Michigan-Huron





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Historical Water Levels “Normal” Conditions

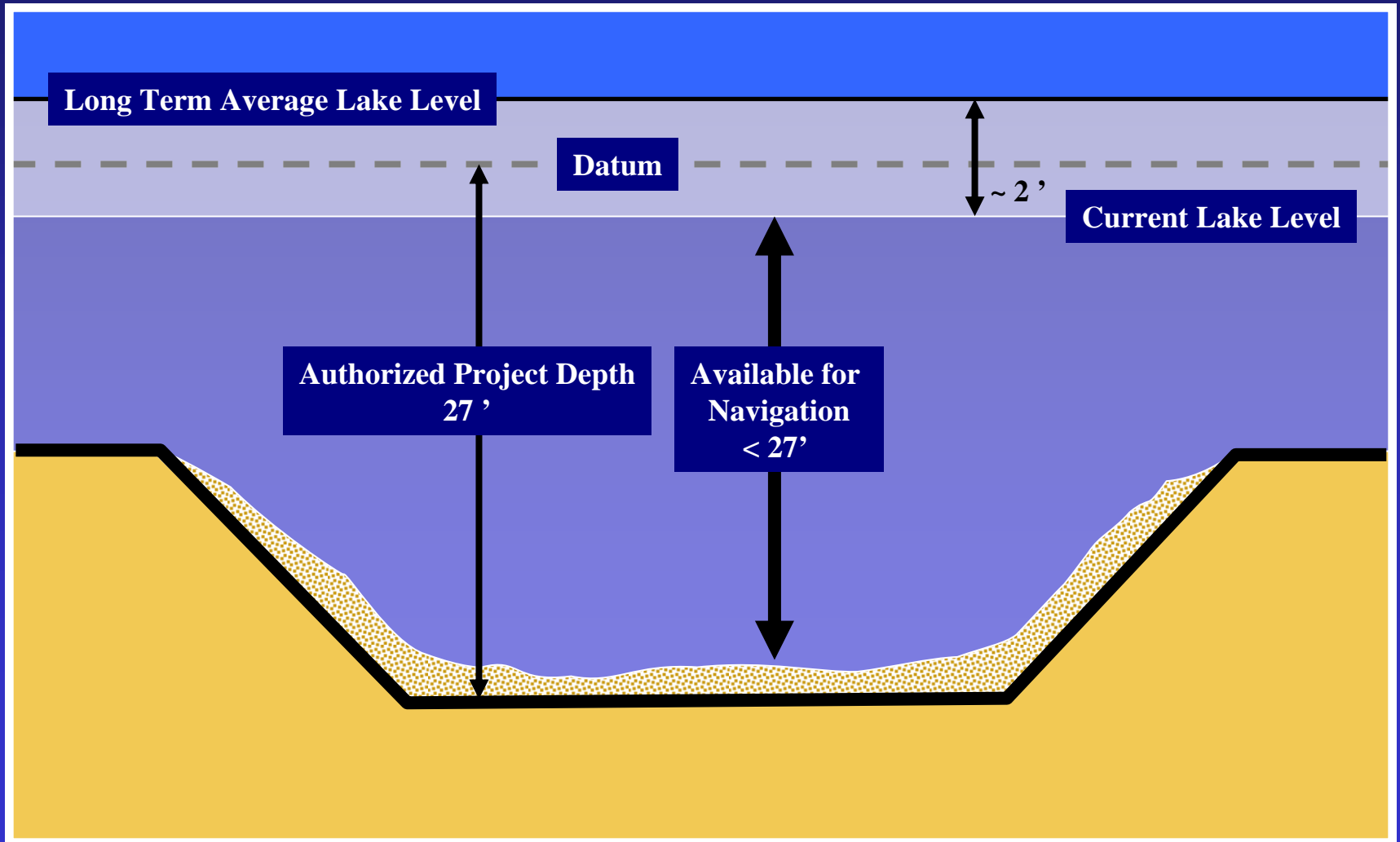




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Conditions: 1999 to 2003

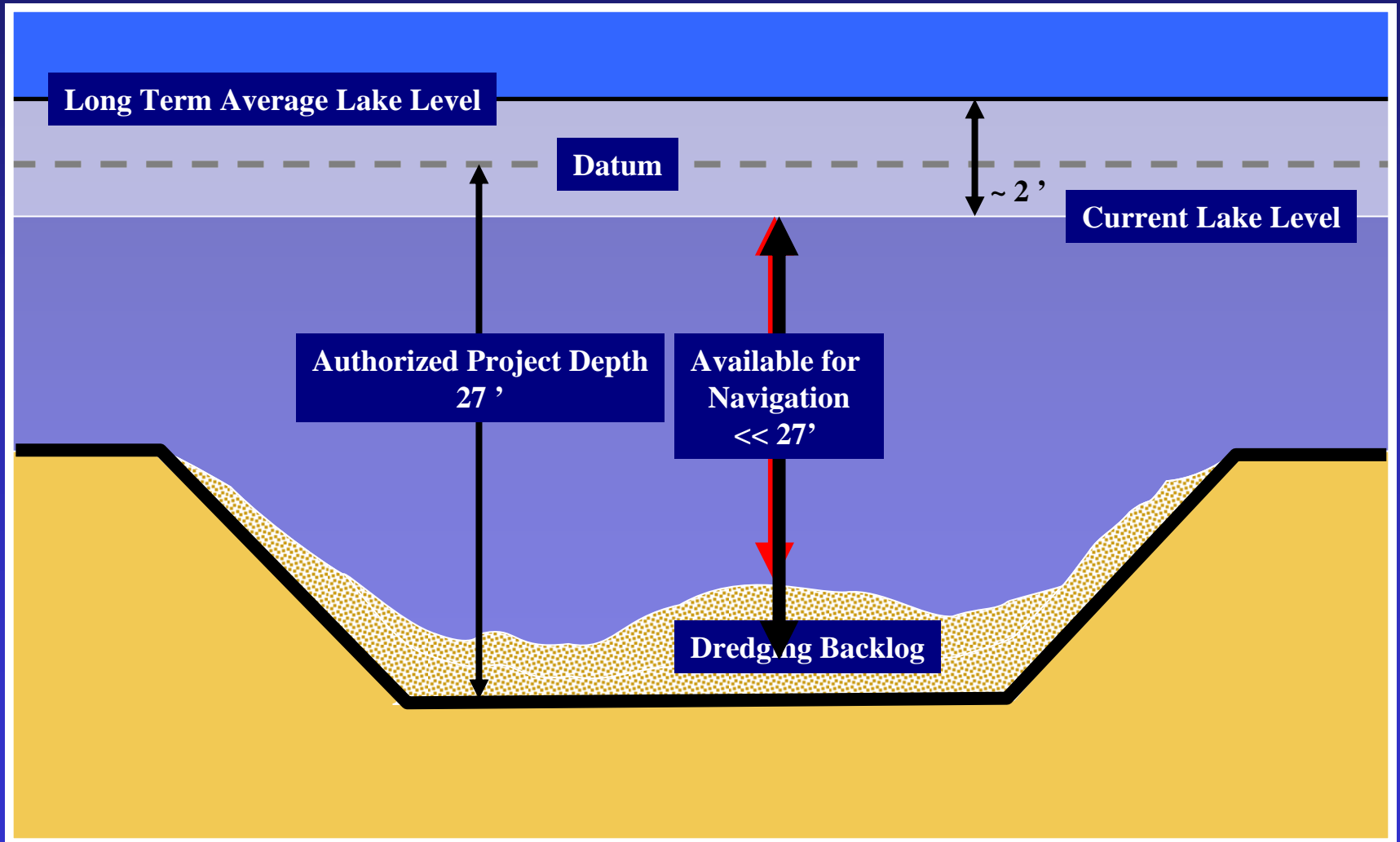
Water Level Below Datum





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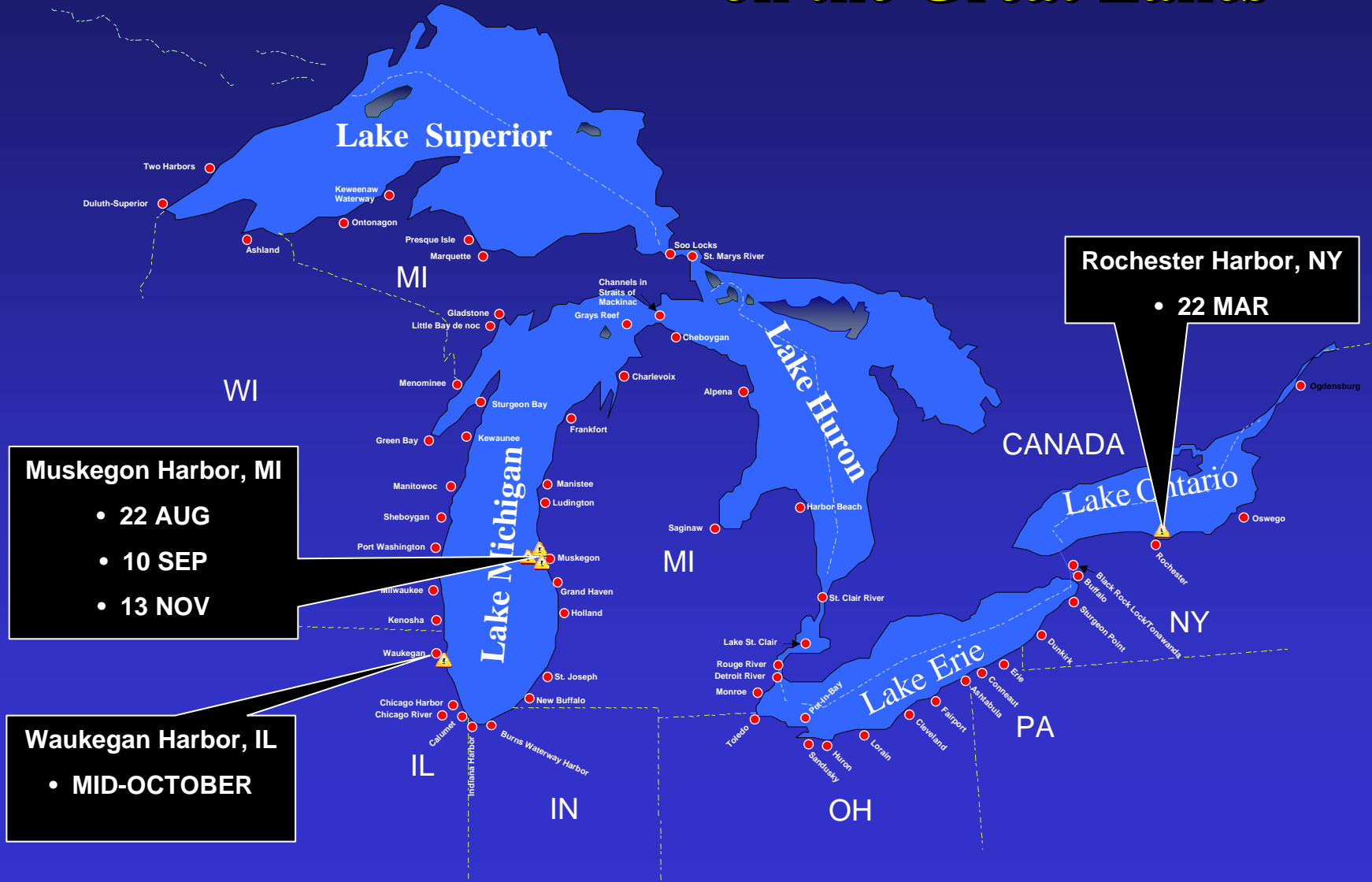
Current Condition Below Datum w/Dredging Backlog





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2007 Groundings on the Great Lakes





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Muskegon Harbor





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Muskegon Harbor



**Indiana Harbor
August 22, 2007**

Muskegon Harbor



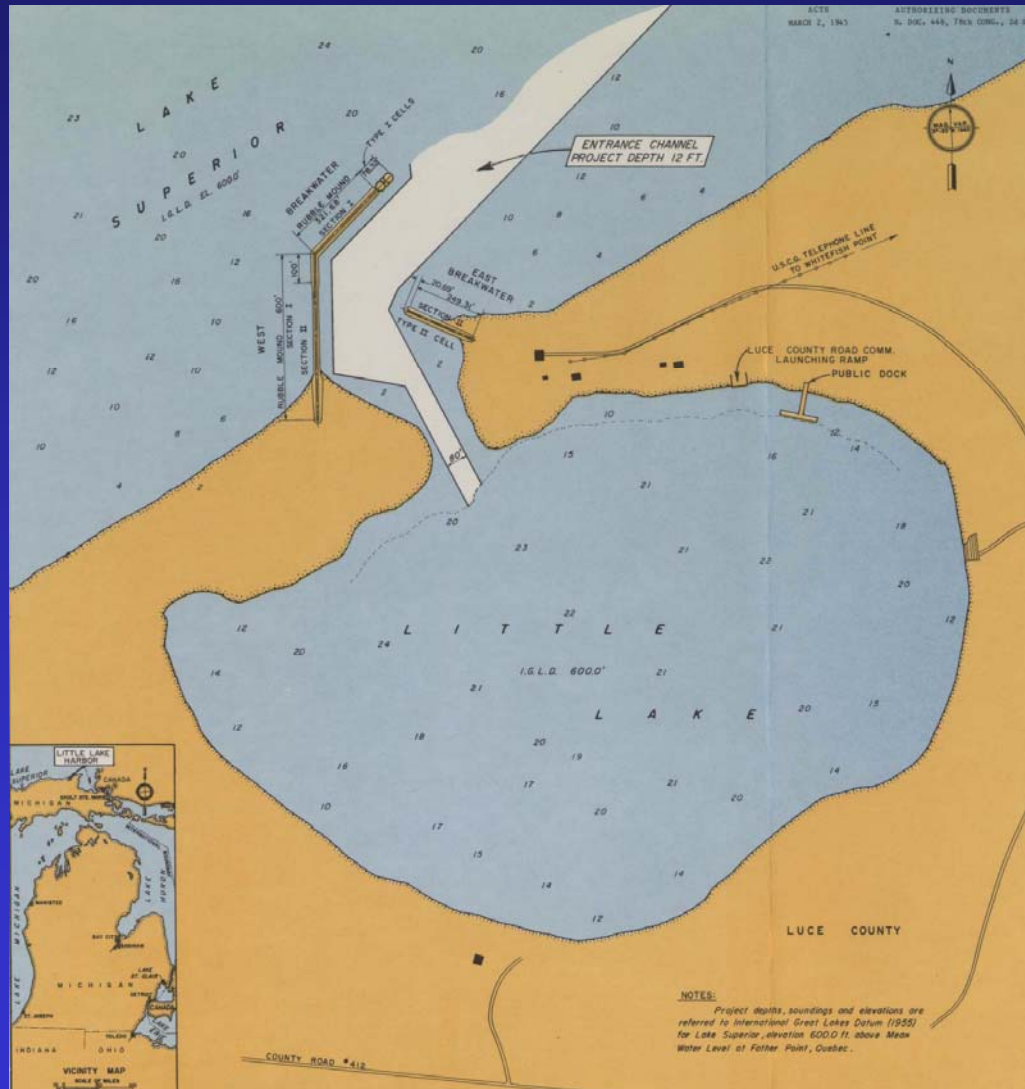
**American Integrity
September 10, 2007**





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Little Lake Harbor





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Little Lake Harbor



LITTLE LAKE ENTRANCE

LAKE SUPERIOR



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Little Lake Harbor





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Portage Lake Harbor





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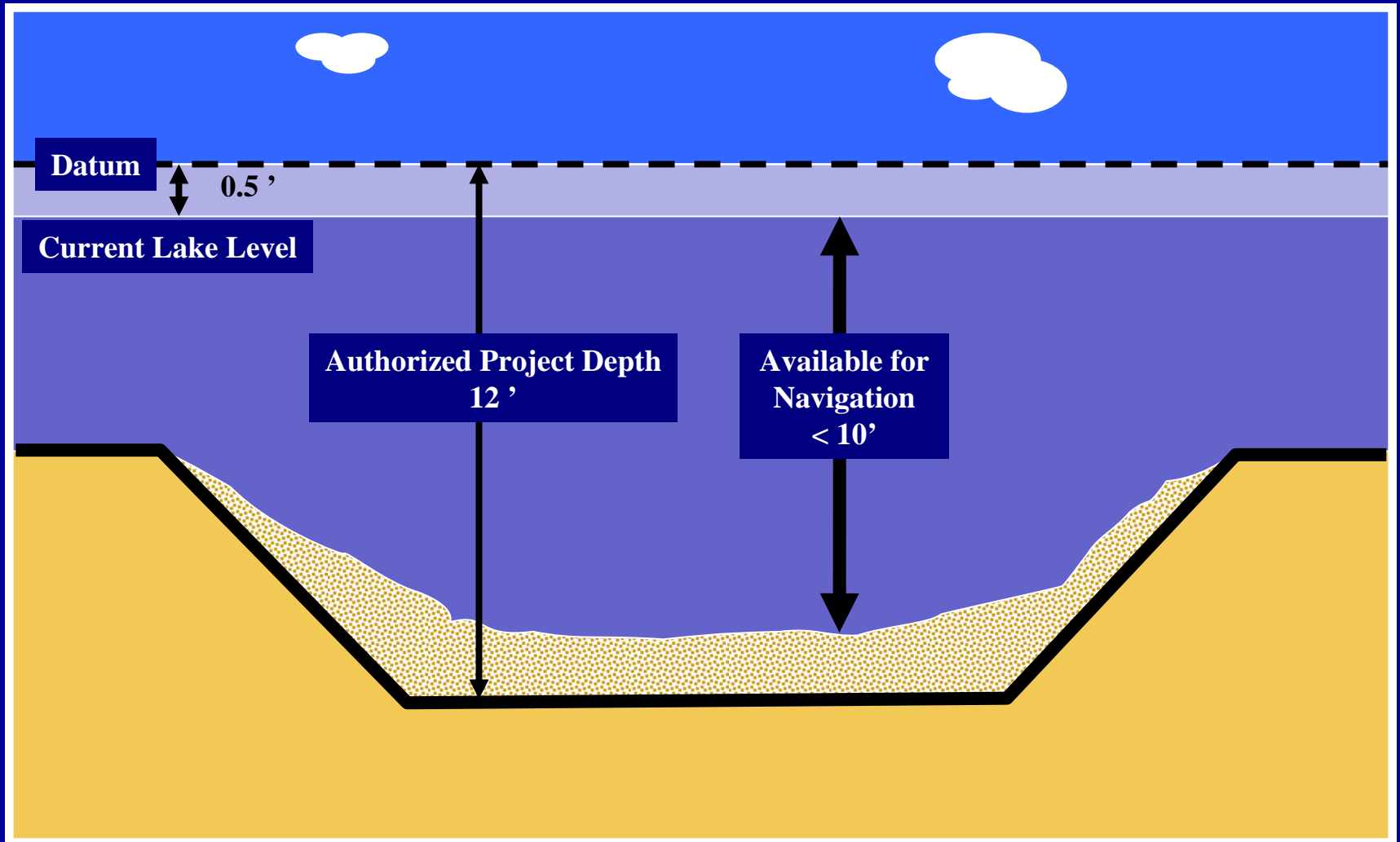
Portage Lake Harbor





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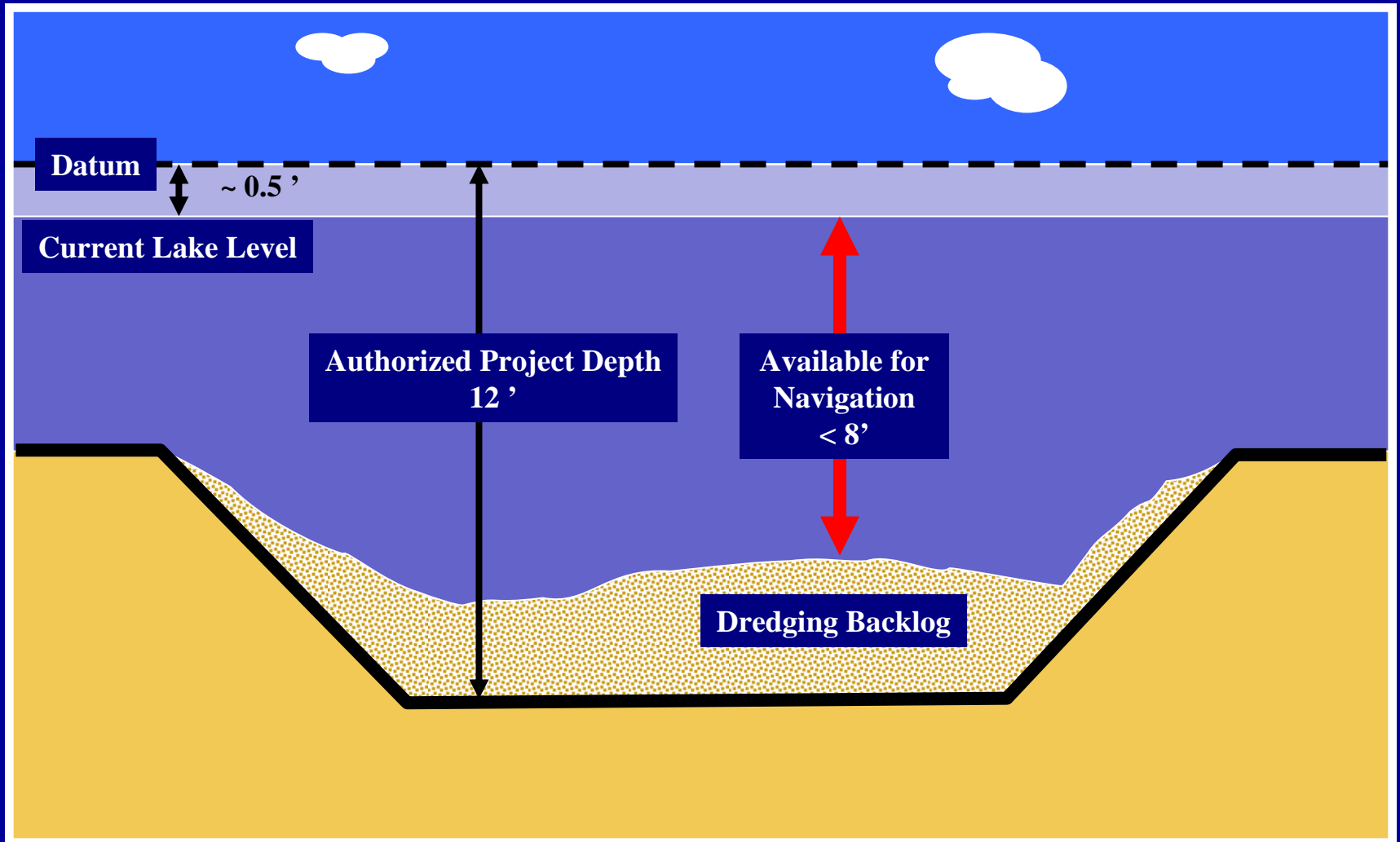
Below Datum w/Dredging Backlog





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Below Datum w/ Dredging Backlog



Questions?

