



Dredging for New Ideas for Salmon Recovery

HABITAT RECONNECTION AND
RESTORATION IN DREDGE MATERIAL ON
THE LOWER COLUMBIA

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FEBRUARY 9, 2023

RIVER RESTORATION NORTHWEST

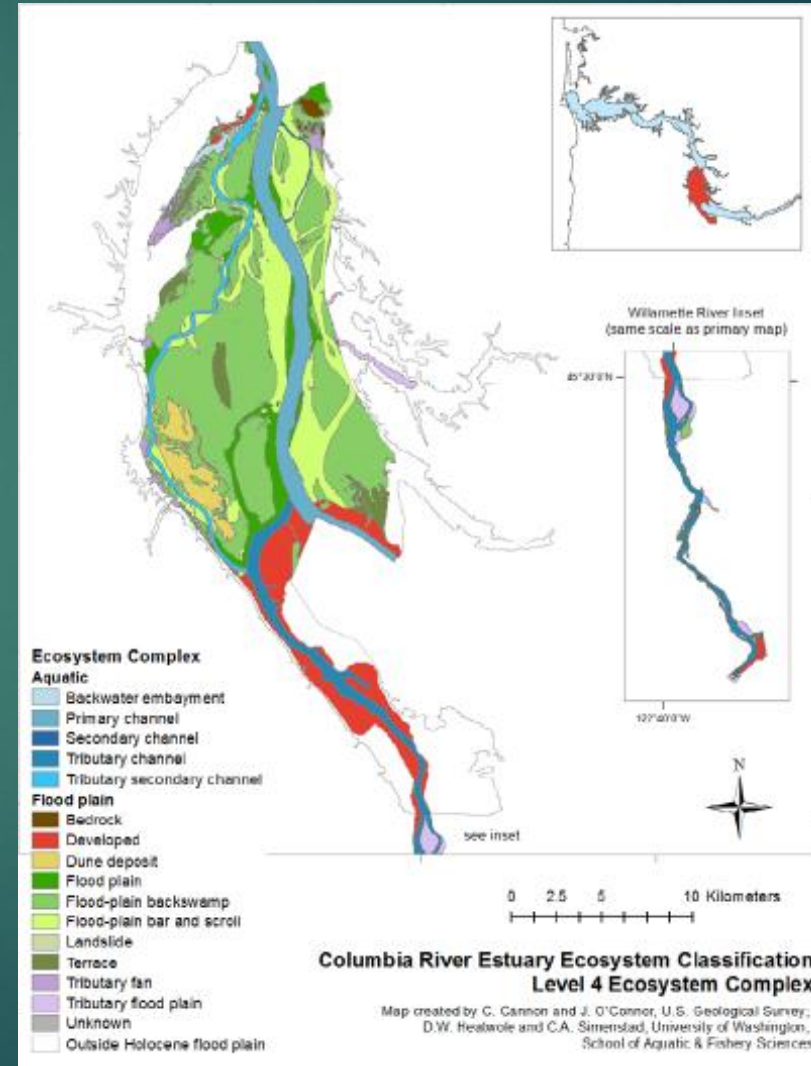


Washington
Department of
FISH and
WILDLIFE

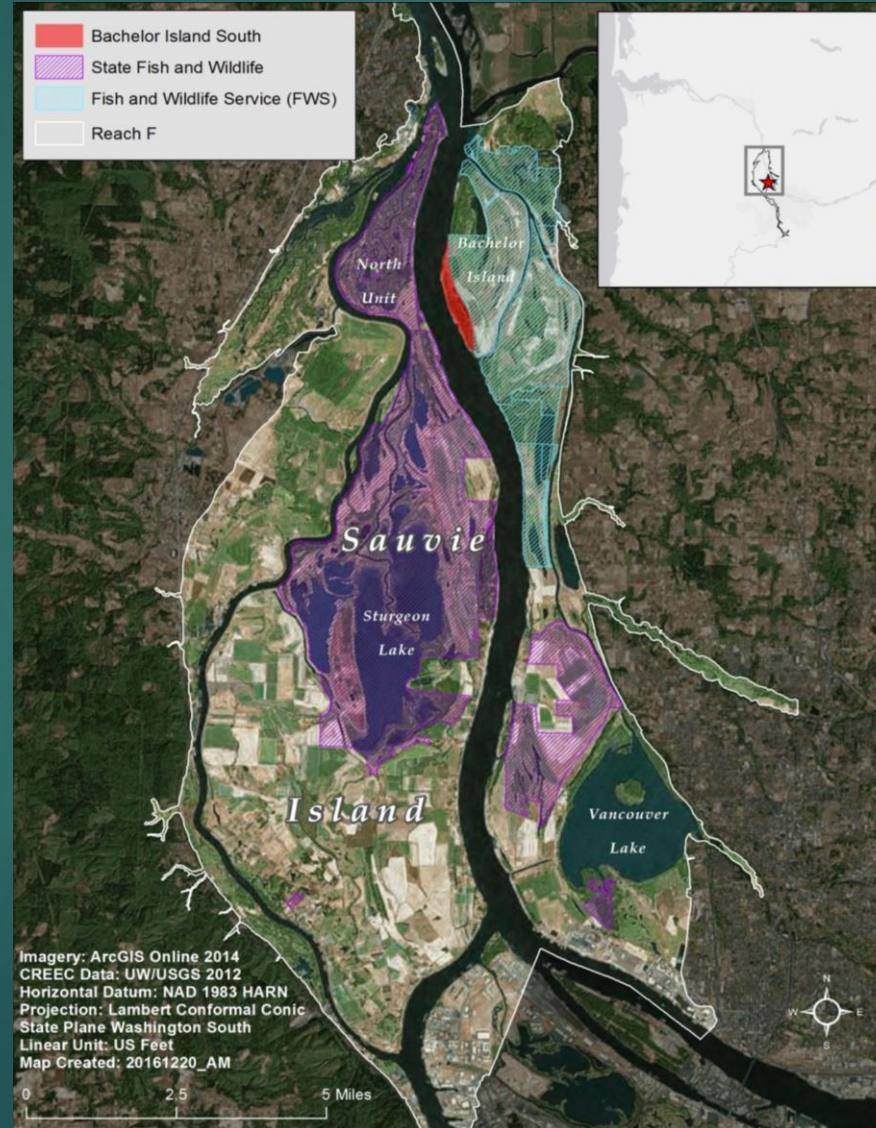
Dredging of the Lower Columbia



Impacts to Habitat and Salmonids



South Bachelor Island



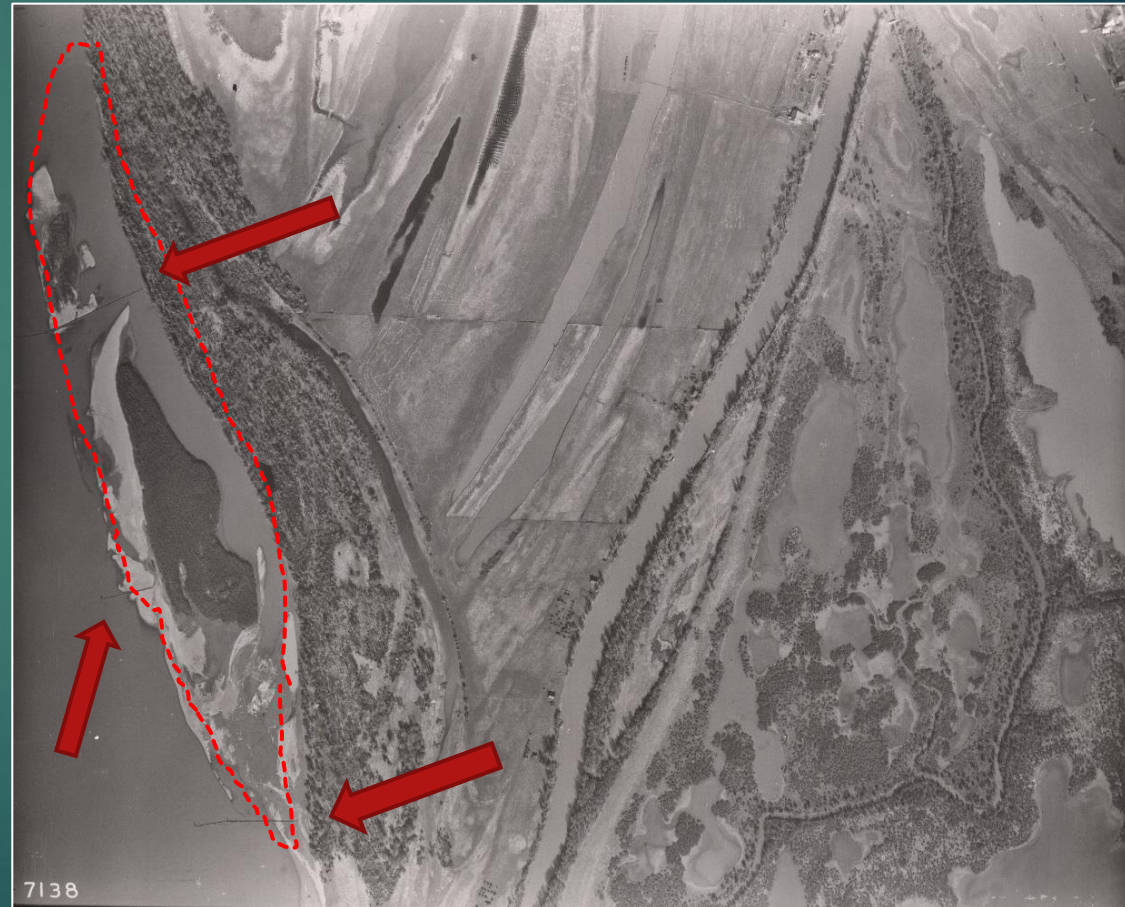
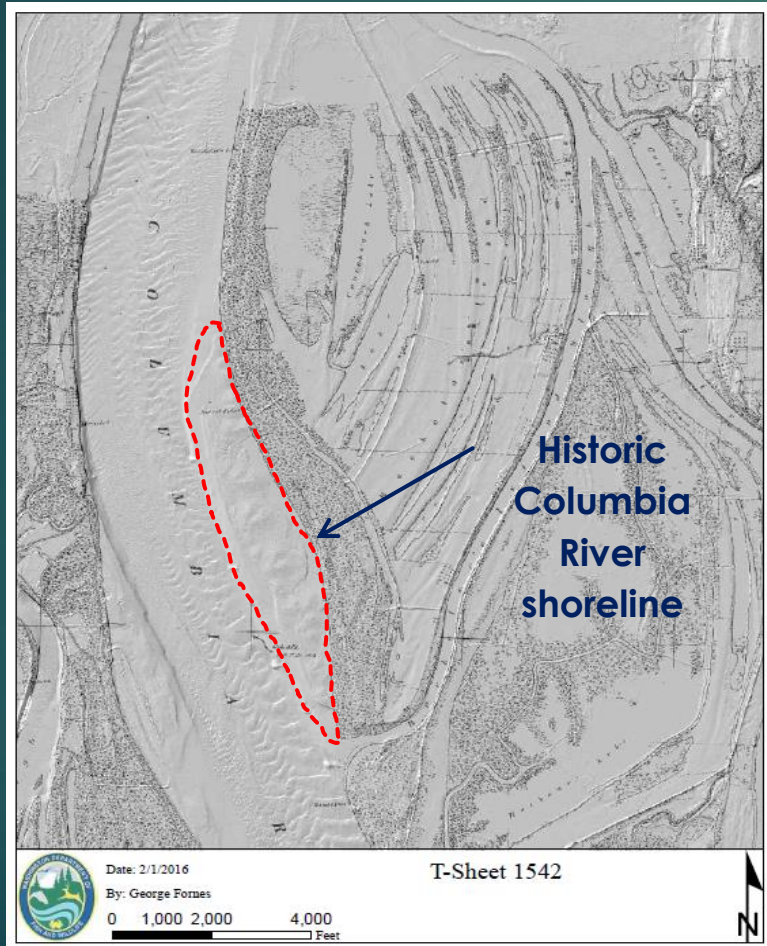
South Bachelor Island



South Bachelor Island

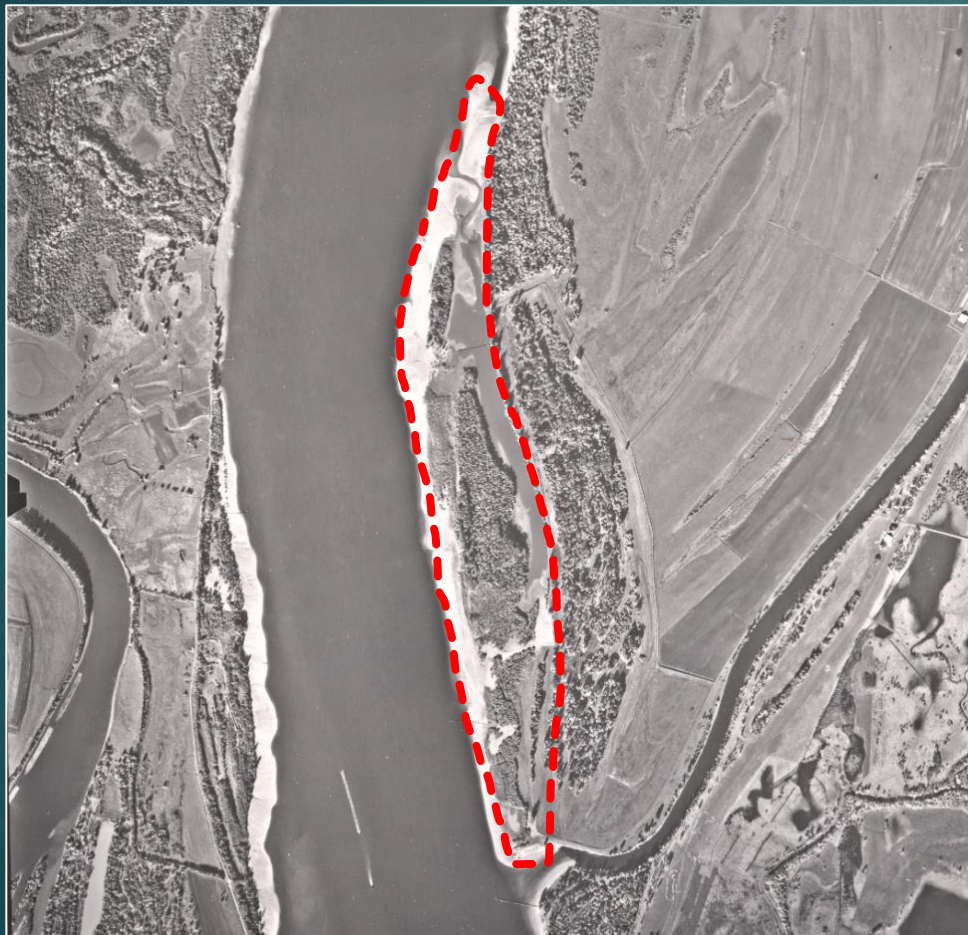
1882

1937



South Bachelor Island

1961



2016



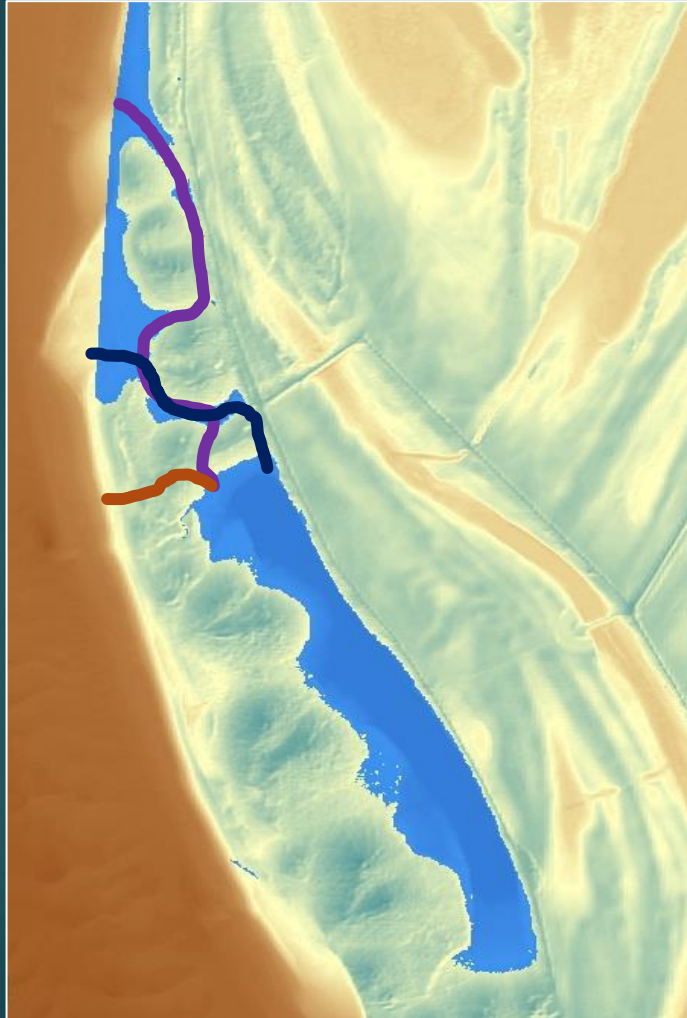
South Bachelor Island



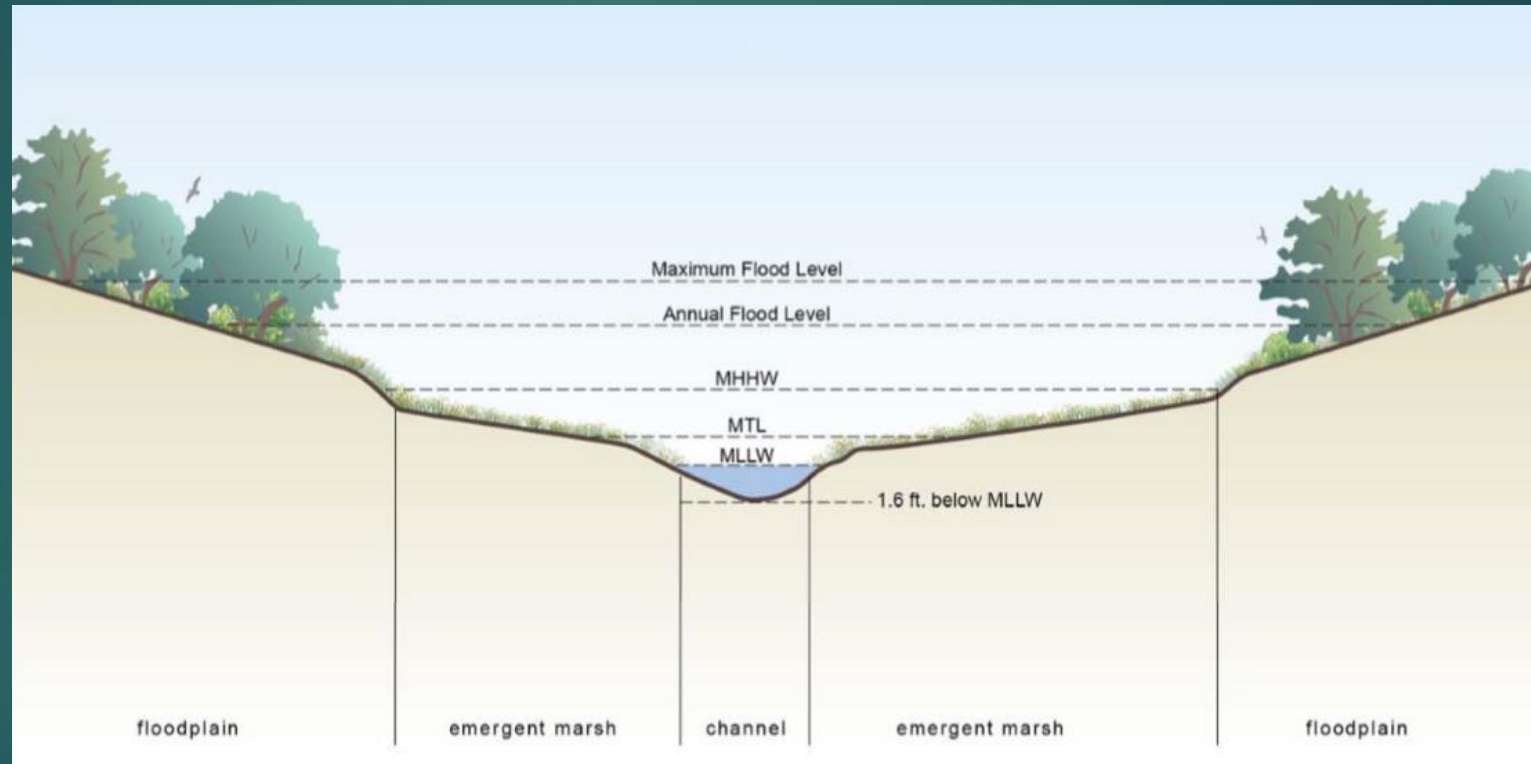
Project Goals

- ▶ Establish juvenile salmonid access to existing and created shallow water habitats
- ▶ Enhance wetland habitat for other native terrestrial and aquatic species
- ▶ Implement a project in dredge material
 - ▶ How will this work?
 - ▶ What does project success look like long-term?

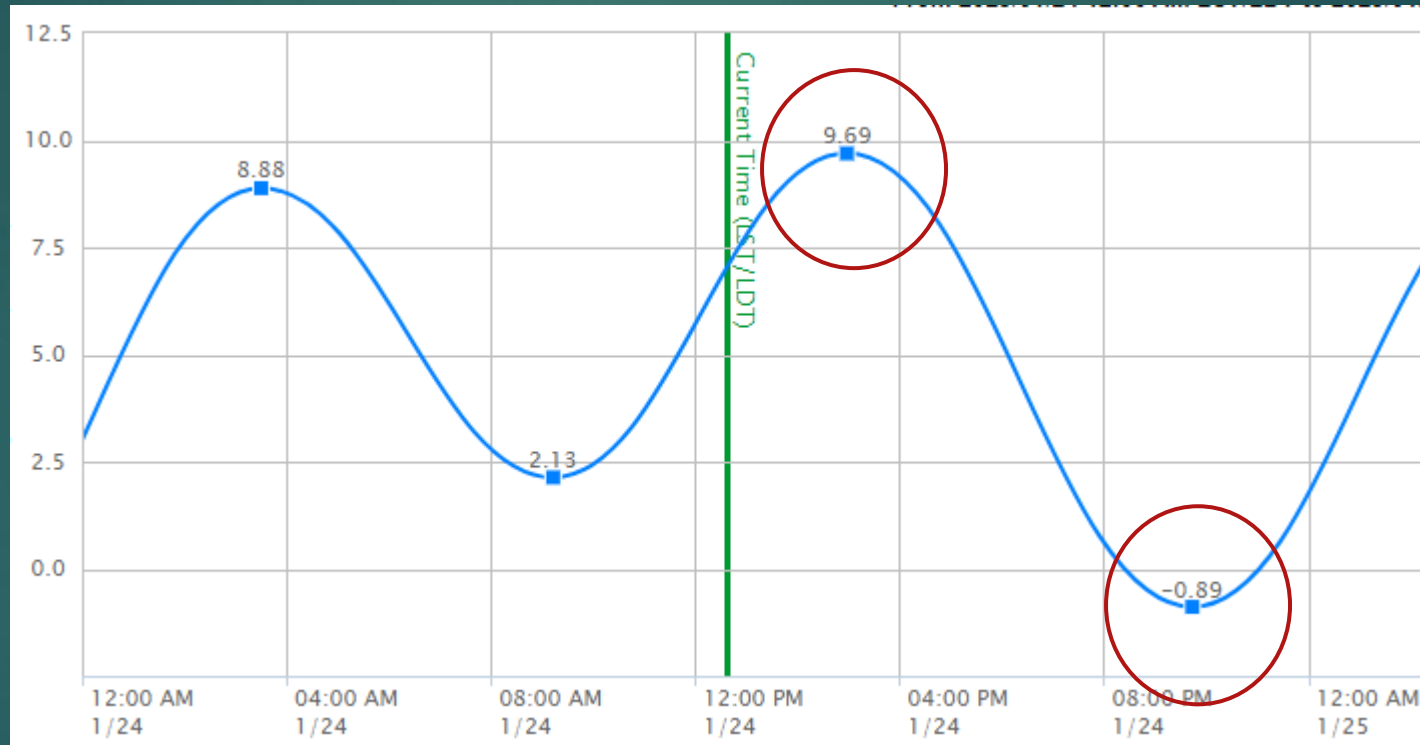
How Far?



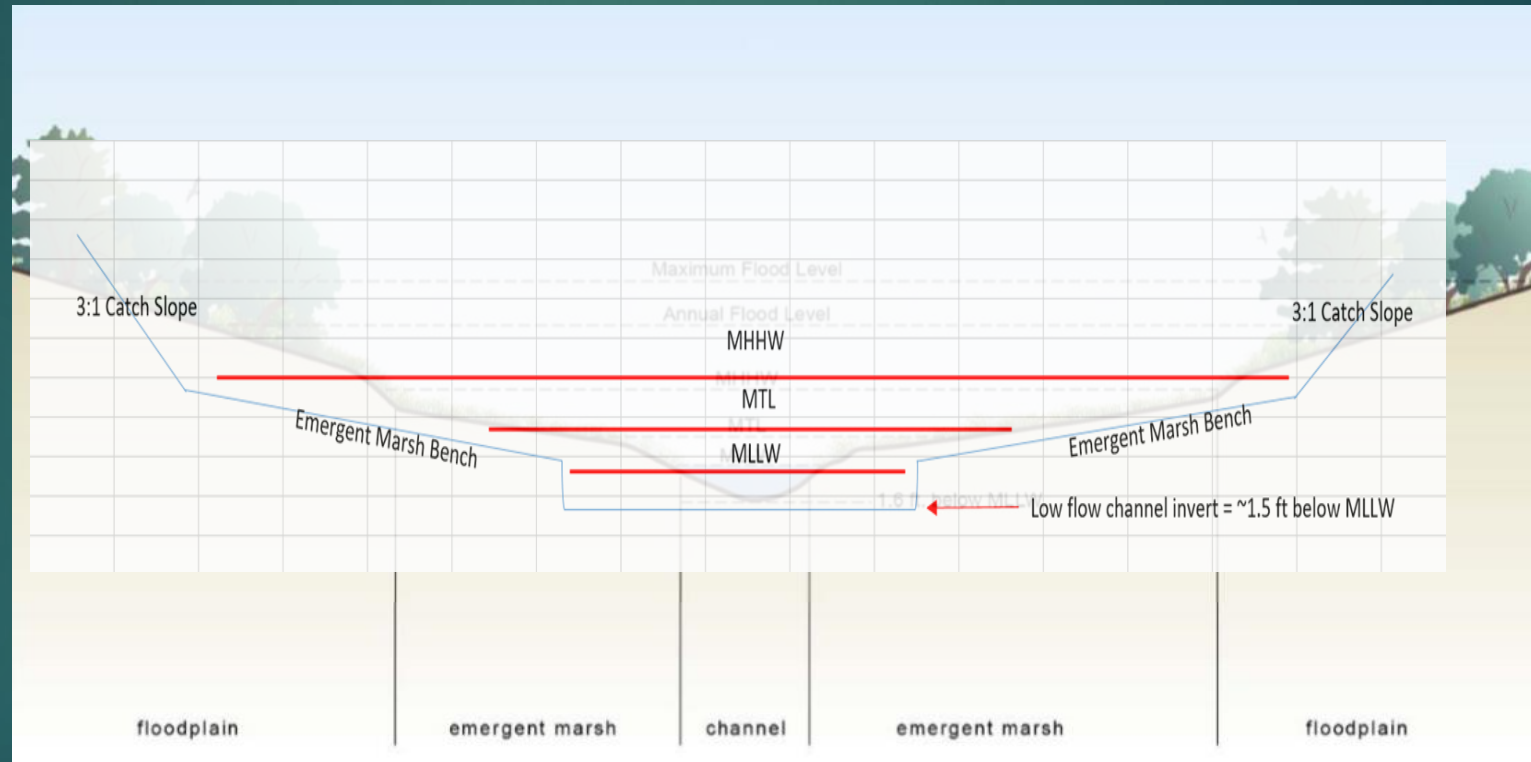
How Deep?



How Deep?



How Deep?



And what about all that sand...?



And what about all that sand...?

Current - Placement Area



Goal – Intertidal Bench



Construction!



Construction!



Connection



South Bachelor Island

Project Goals

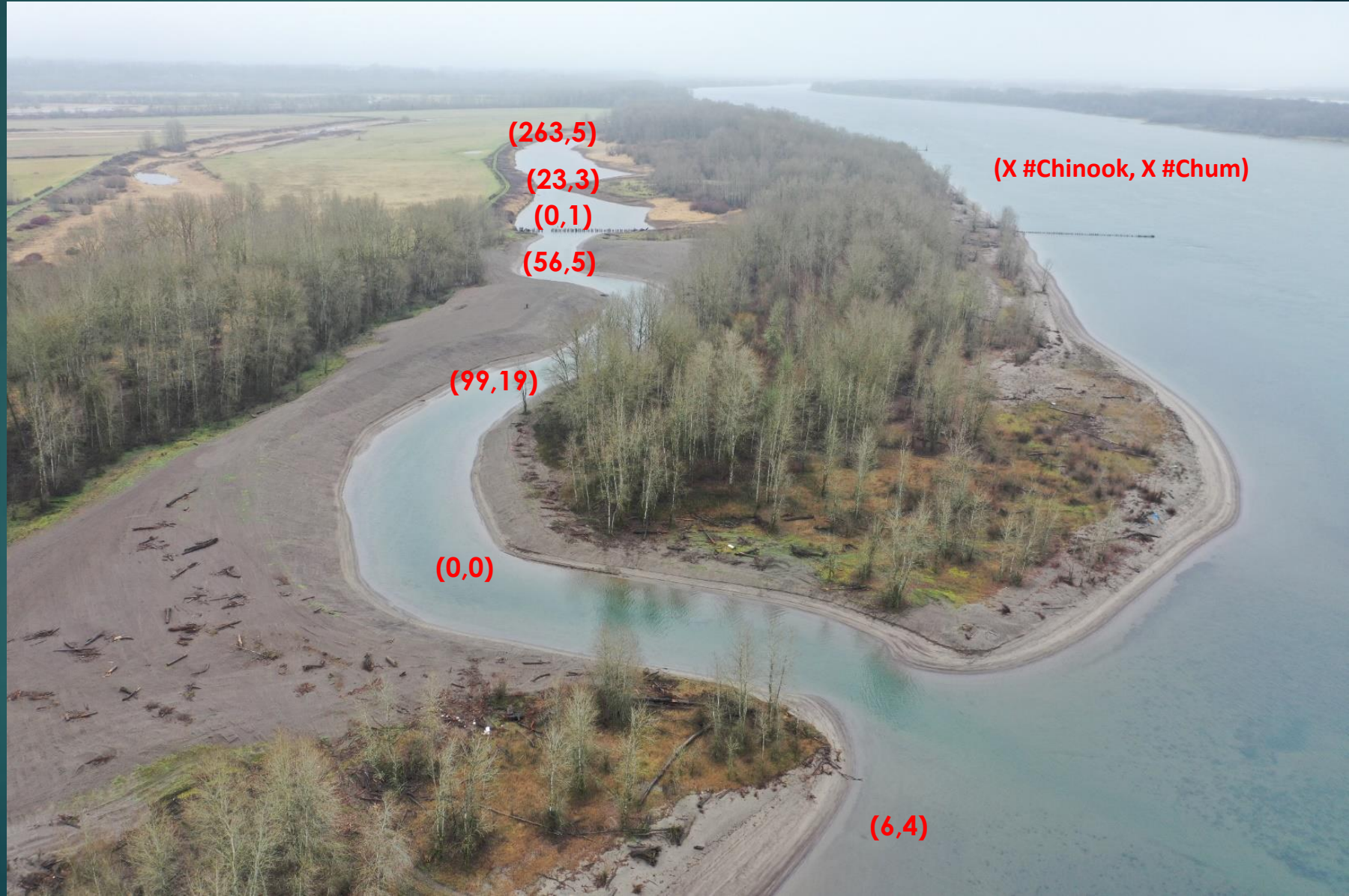
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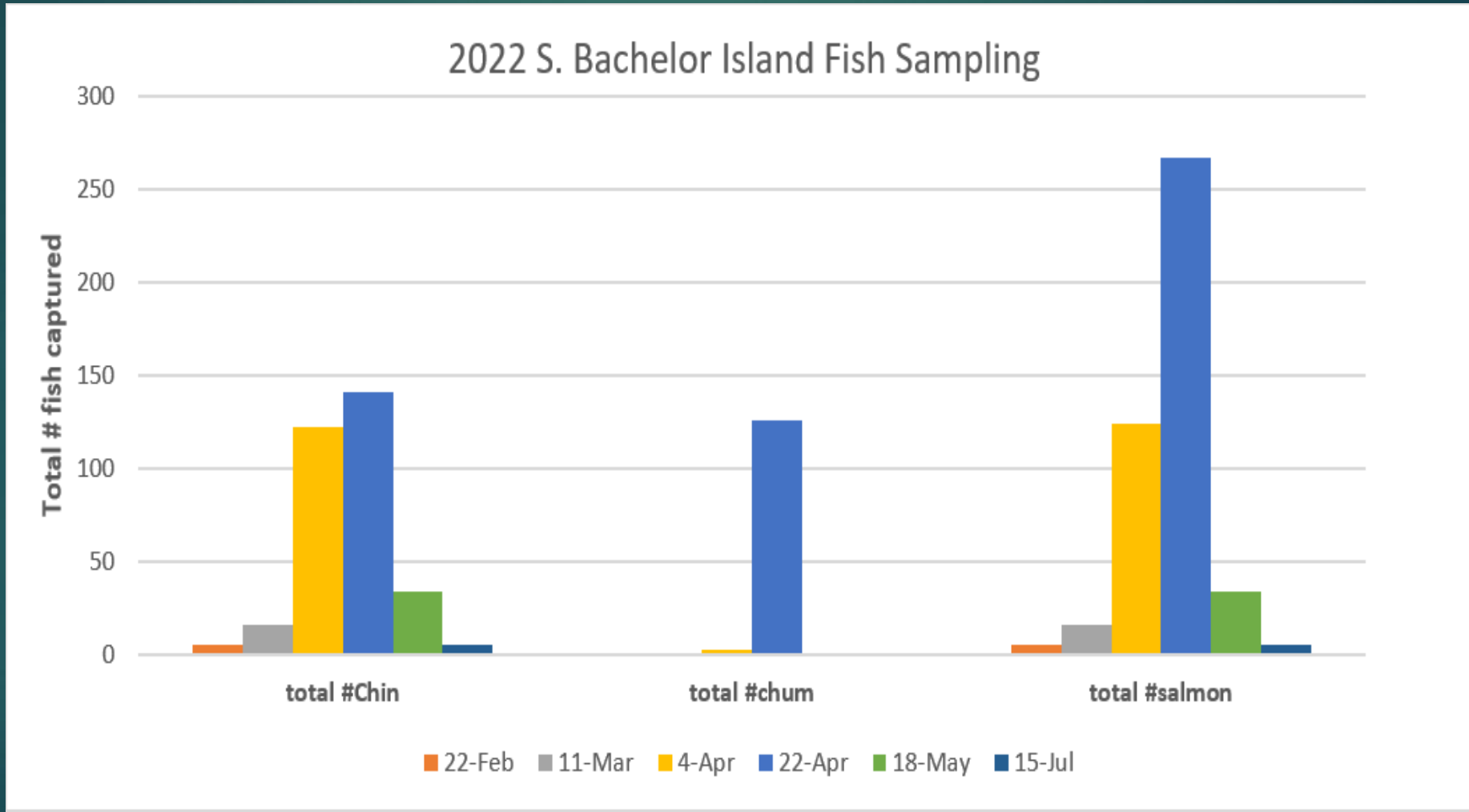
Fish Sampling



Fish Sampling



Fish Sampling



South Bachelor Island

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Enhance Wetlands



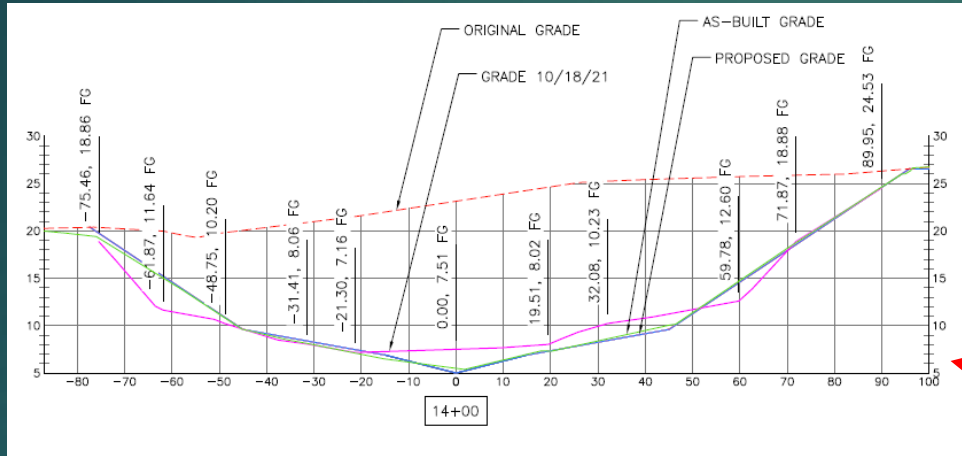
South Bachelor Island

Project Goals

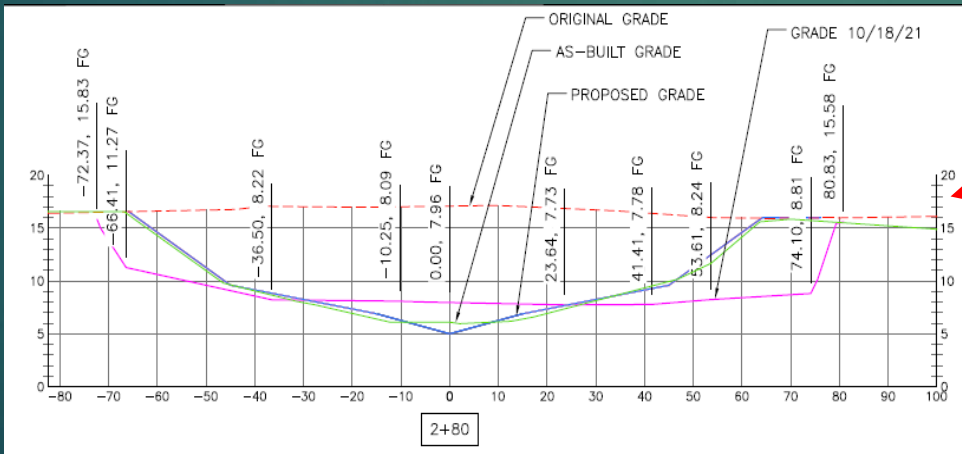
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Long Term Success

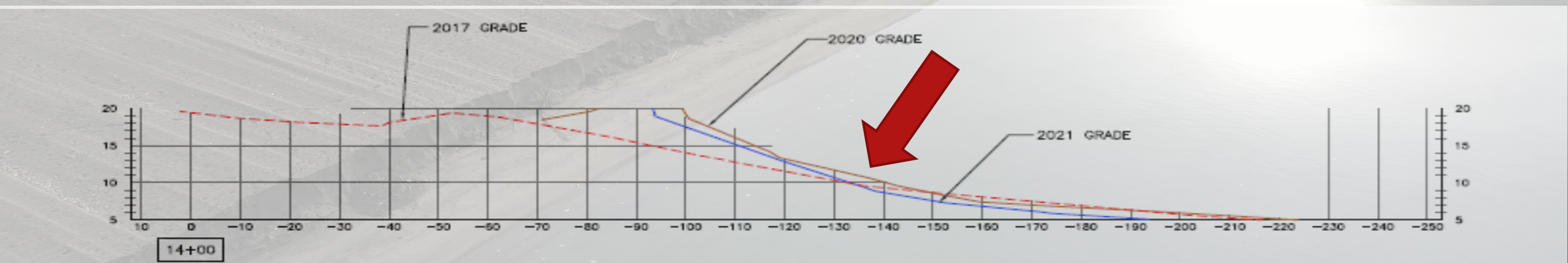
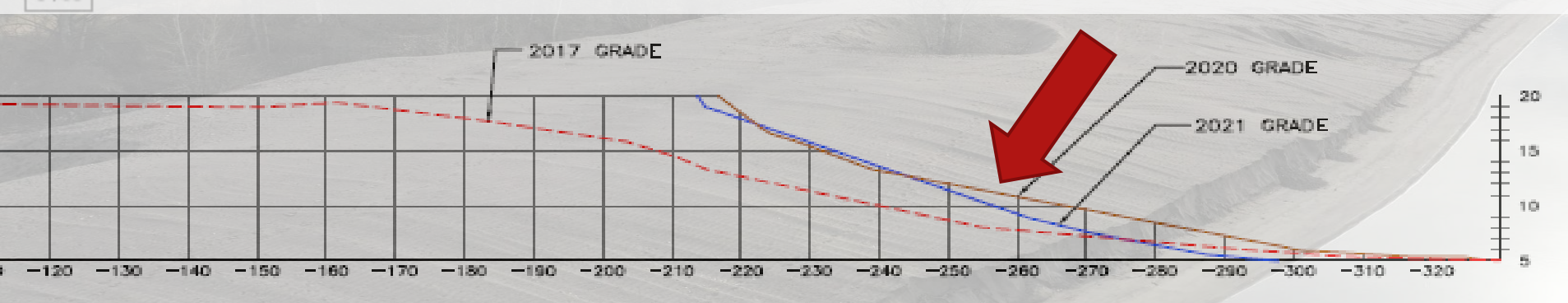
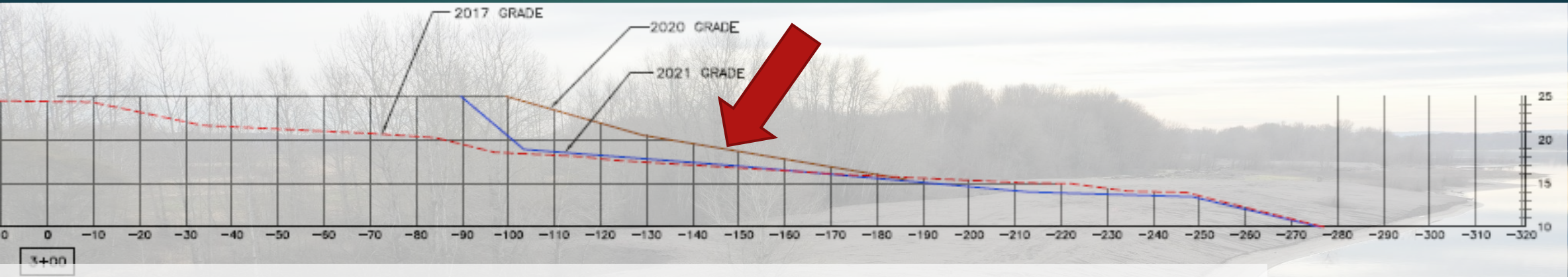


Channel-Lake Confluence



Channel-River Confluence

Long Term Success



Thank You



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