

A photograph of a flooded landscape. In the foreground, there's a grassy field partially submerged in water. In the middle ground, a barn and a tall silo are visible, surrounded by trees. The background shows a dense forest of bare trees under a hazy sky. The image is framed by a green header and a blue footer.

Flood Retention Facility Project Update

Chehalis River Basin Flood Control Zone District

September 1, 2022

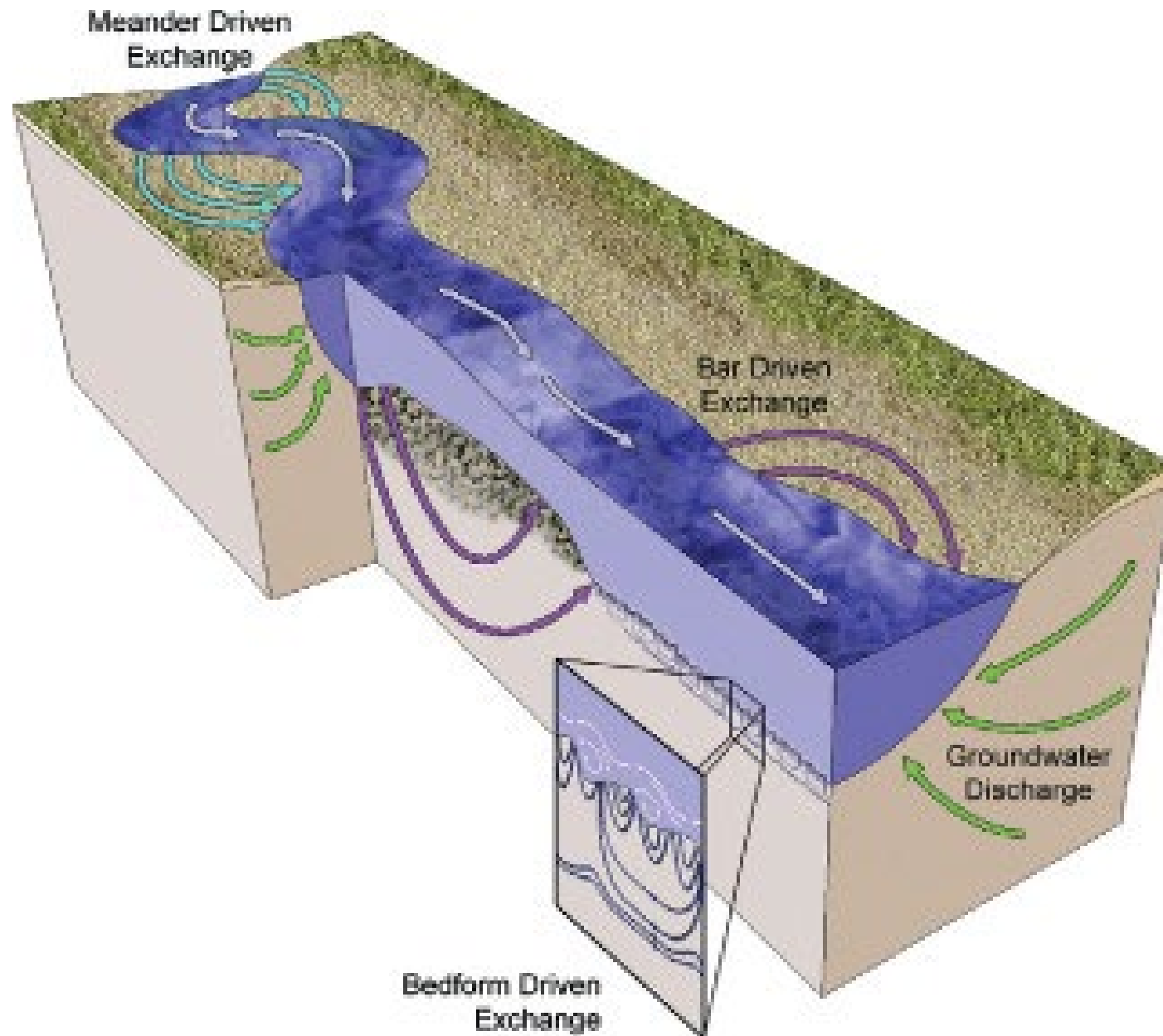
Active Work

- Minimization Alignments
 - Geotechnical Investigation
 - Open Channel Fish Passage
 - Section 106 Tribal Consultation
- Ongoing EIS Coordination & Support of AMM Submittals
 - USACE: AMM Review, ESA Consultation
 - Ecology: AMM Review
- Hyporheic Demonstration Project
- Communication
 - Agency Meetings
 - Tribal Outreach



- Temperature Moderation
- Carbon, Energy, & Nutrient Cycling
- Attenuation of Pollutants
- Sink/Source of Sediment
- Habitat for Benthic & Interstitial Organisms

(From Alley et al. 2002)

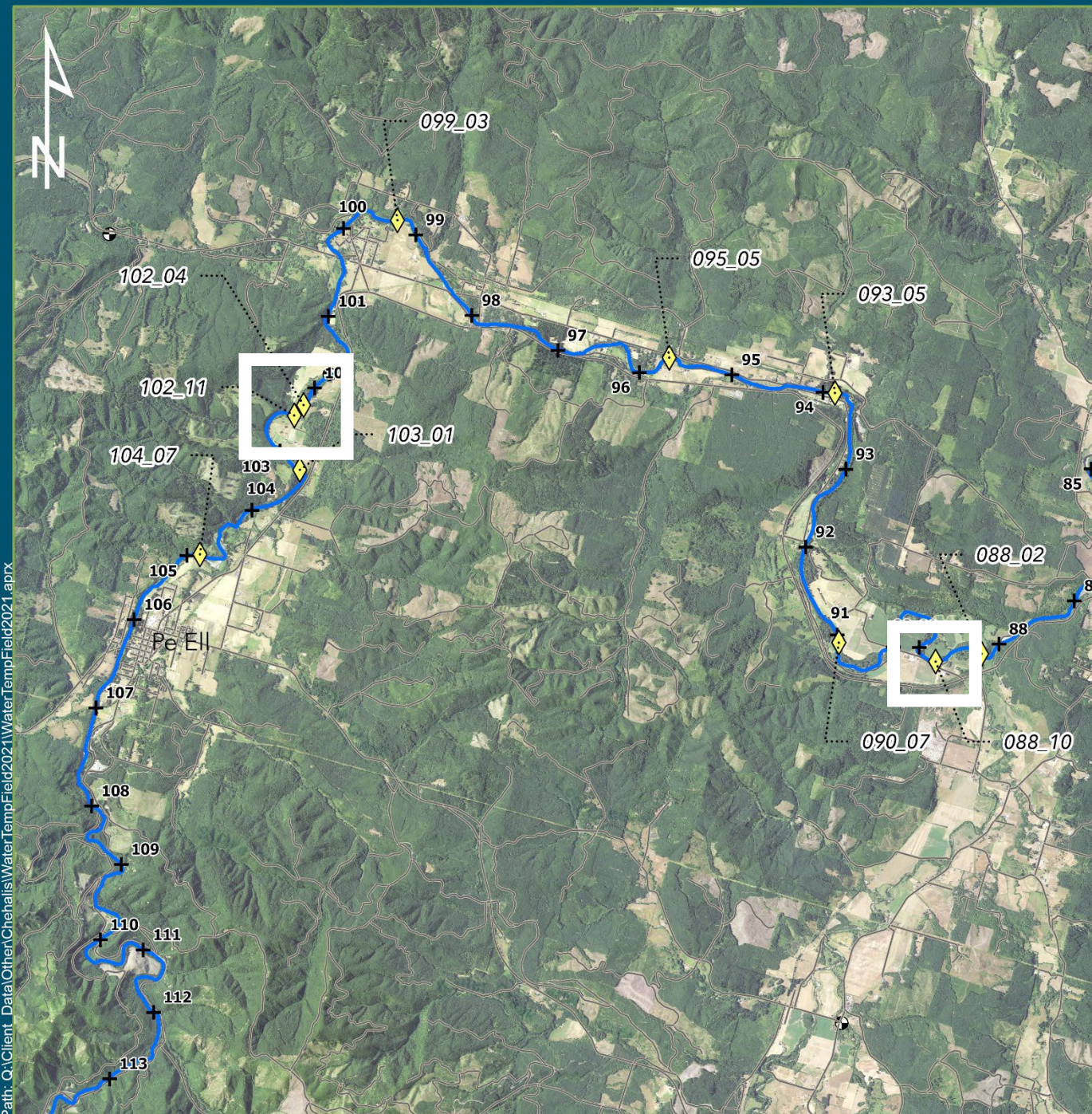


- Meanders
- Bars
- Bedforms
- Upwelling/Downwelling

(From Stonedahl et al. 2010)

Temperature Differentials





Preliminary Potential Hyporheic Sites

- Chehalis River
- Road
- + WDFW Chehalis River Miles
- USGS Streamgages
- ◆ Potential Hyporheic Sites

0 2.5

Miles

Chehalis River Basin
Flood Control Zone District
Kleinschmidt

Drawn By: RJT	Date Drawn: 10-27-2021	Checked By: MLK	Date Checked: 10-27-2021
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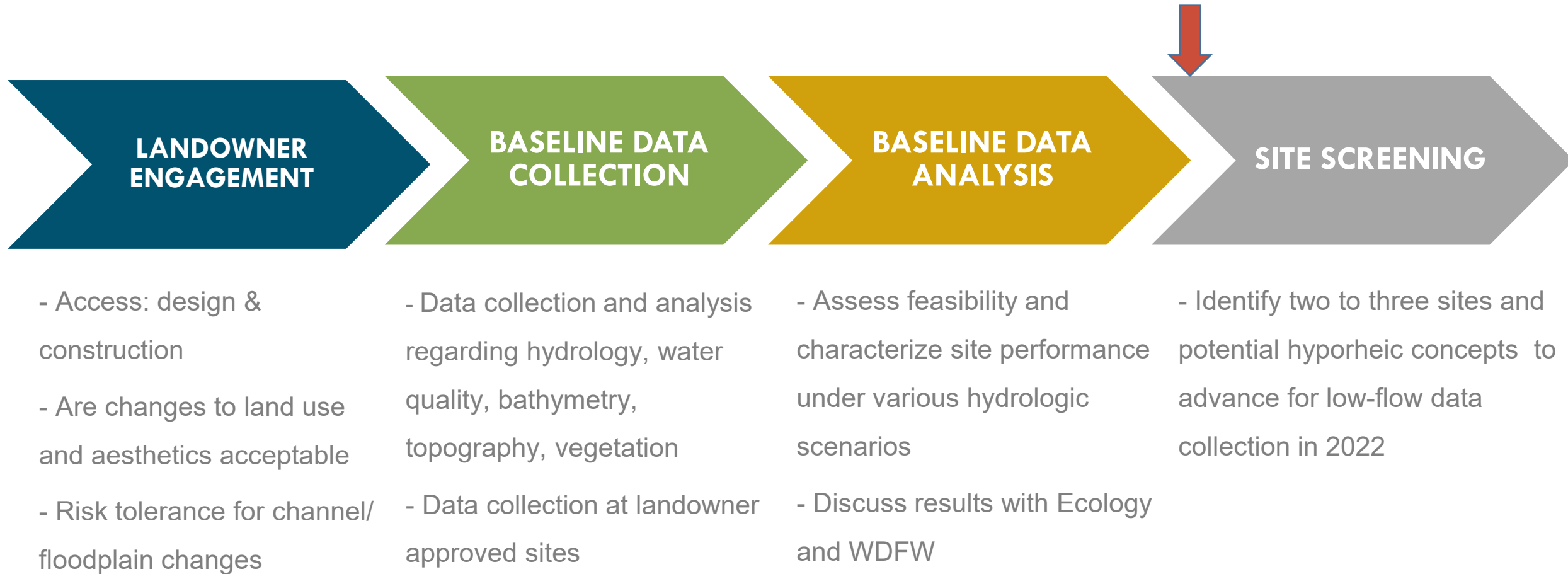
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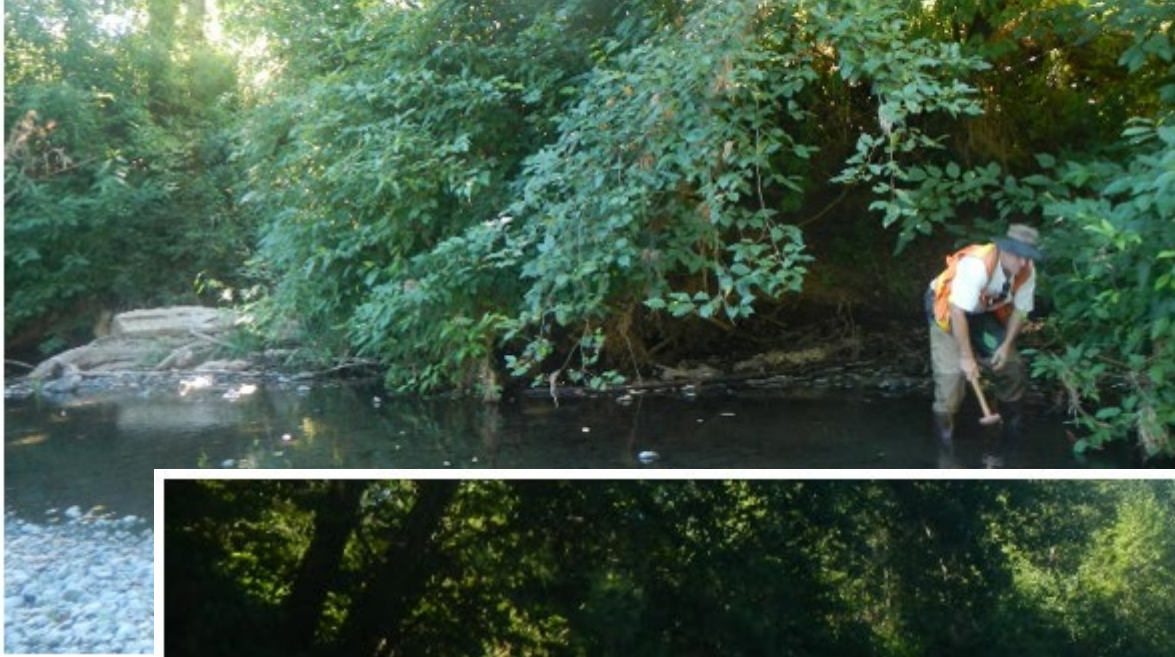
PN: 4827001.01

Date Printed: 11/15/2021

Assessment Approach



RM 102.4, Temperature
Logger Placements in Seep



RM 102.4, Temperature Logger Placement
in River, Seep to Left of Vegetated Island

Temperature Differentials

