



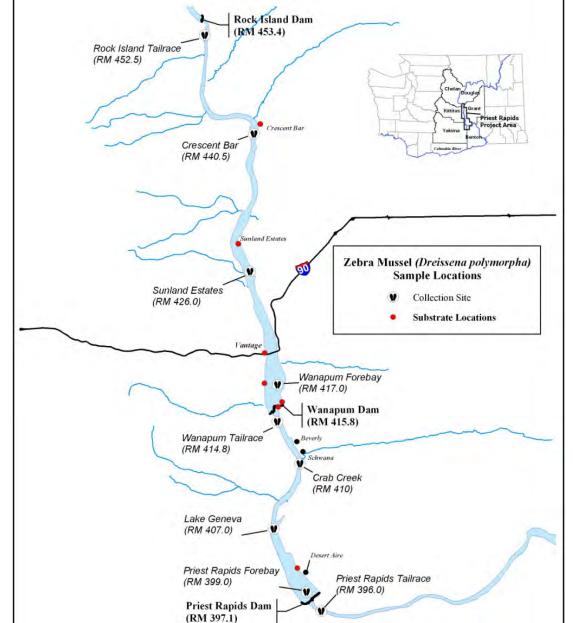
Aquatic Invasive Species Control and Prevention Plan

Priest Rapids Hydroelectric Project Mid-Columbia River, WA



Location





Objectives



- Primary Objective
 - Address methods to monitor and manage aquatic invasive flora and fauna within the Project
 - Key components
 - Education
 - Monitoring
 - Local and Regional Coordination
 - Control
 - These components are designed to help manage, control, and *potentially* prevent introduction and spread of new AIS within the Project and to monitor and manage existing AIS within the Project



Education - Outreach





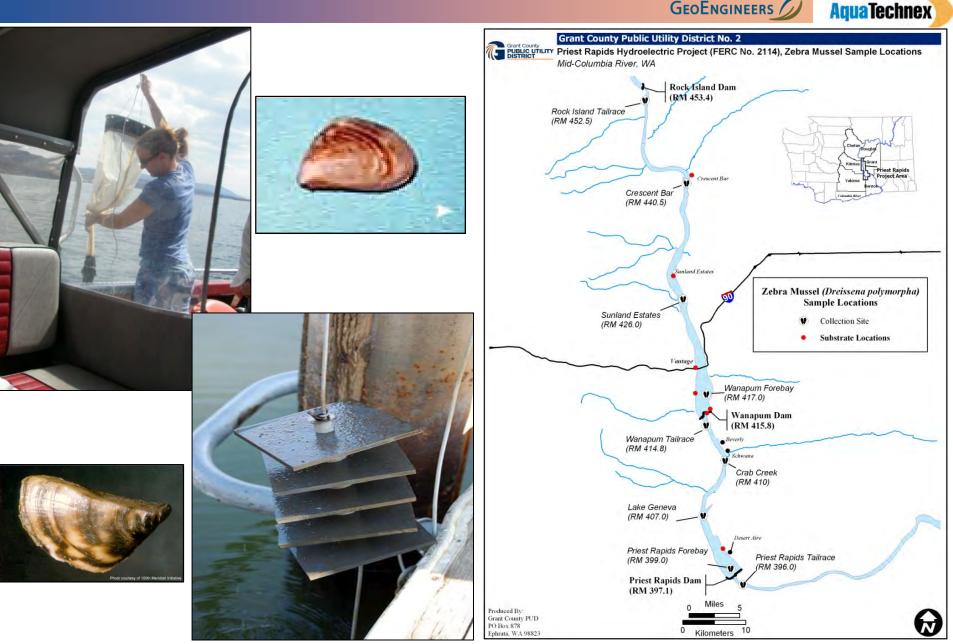


Monitoring – Zebra/Quagga

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GEOENGINEERS



Monitoring – Aquatic Vegetation

Eurasian milfoil

Hydrilla

Parrotfeather

Grant County
PUBLIC UTILITY DISTRICT

AquaTechnex

Curlyleaf pondweed

GEOENGINEERS

Photos: Washington Dept. of Ecology

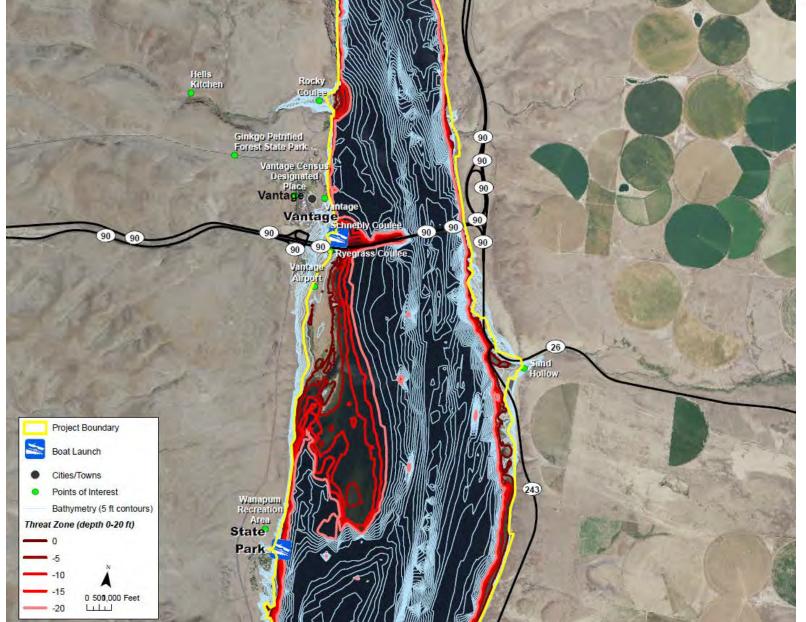
Aquatic/Riparian Vegetation Surveys



- Preliminary mapping
- Aerial Shoreline Analysis (AquaTechnex)
- Boat-based surveys
 - Aquatic vegetation mapping
 - Riparian/emergent vegetation mapping
 - Boat launch transects

Preliminary Mapping





Aerial Shoreline Analysis





Boat-Based Surveys





Aquatic Vegetation Mapping







Riparian/Emergent Vegetation Mapping

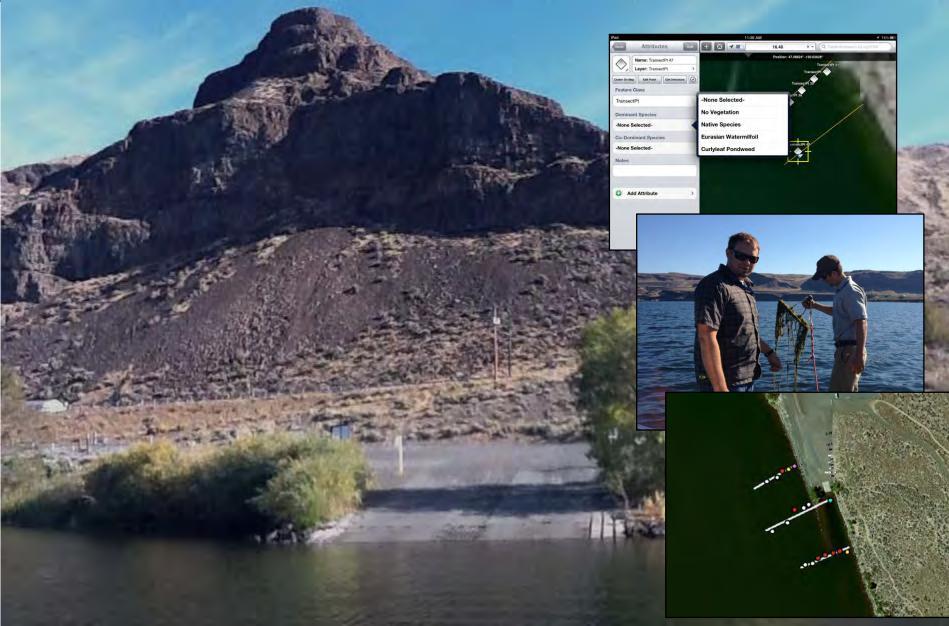






Boat Launch Transects





Summary of Survey Results (2011)



- Two types of aquatic (submergent) plant communities
- Shoreline/riparian/wetland invasive species
- Boat launches

















Grant PUD's AIS Plan

MINU

- Education
- Monitoring
- Control

Early detection through effective monitoring
GeoEngineers/AquaTechnex
2011 = year 1

Adaptive management is key

CRT operations