Aquatic Invasive Species Control and Prevention Plan

Priest Rapids Hydroelectric Project
Mid-Columbia River, WA
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
Monitoring – Zebra/Quagga

Grant County Public Utility District No. 2
Priest Rapids Hydroelectric Project (FERC No. 2114), Zebra Mussel Sample Locations
Mid-Columbia River, WA

Zebra Mussel (Dreissena polymorpha)
Sample Locations
- Collection Site
- Substrate Locations

- Rock Island Dam (RM 453.4)
- Rock Island Tailrace (RM 452.5)
- Crescent Bar (RM 440.5)
- Sunland Estates (RM 426.0)
- Wanapum Forebay (RM 417.0)
- Wanapum Dam (RM 415.8)
- Wanapum Tailrace (RM 414.8)
- Lake Geneva (RM 407.0)
- Priest Rapids Forebay (RM 399.0)
- Priest Rapids Dam (RM 397.1)
- Priest Rapids Tailrace (RM 396.0)

Produced By:
Grant County PUD
PO Box 878
Yakima, WA 98902-0878
Monitoring – Aquatic Vegetation

Hydrilla
Eurasian milfoil
Curlyleaf pondweed
Parrotfeather

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
Boat Launch Transects
Summary of Survey Results (2011)

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

- Grant PUD’s AIS Plan
  - Education
  - Monitoring
  - Control

- Early detection through effective monitoring
  - GeoEngineers/AquaTechnex

- 2011 = year 1
  - Adaptive management is key

- CRT operations