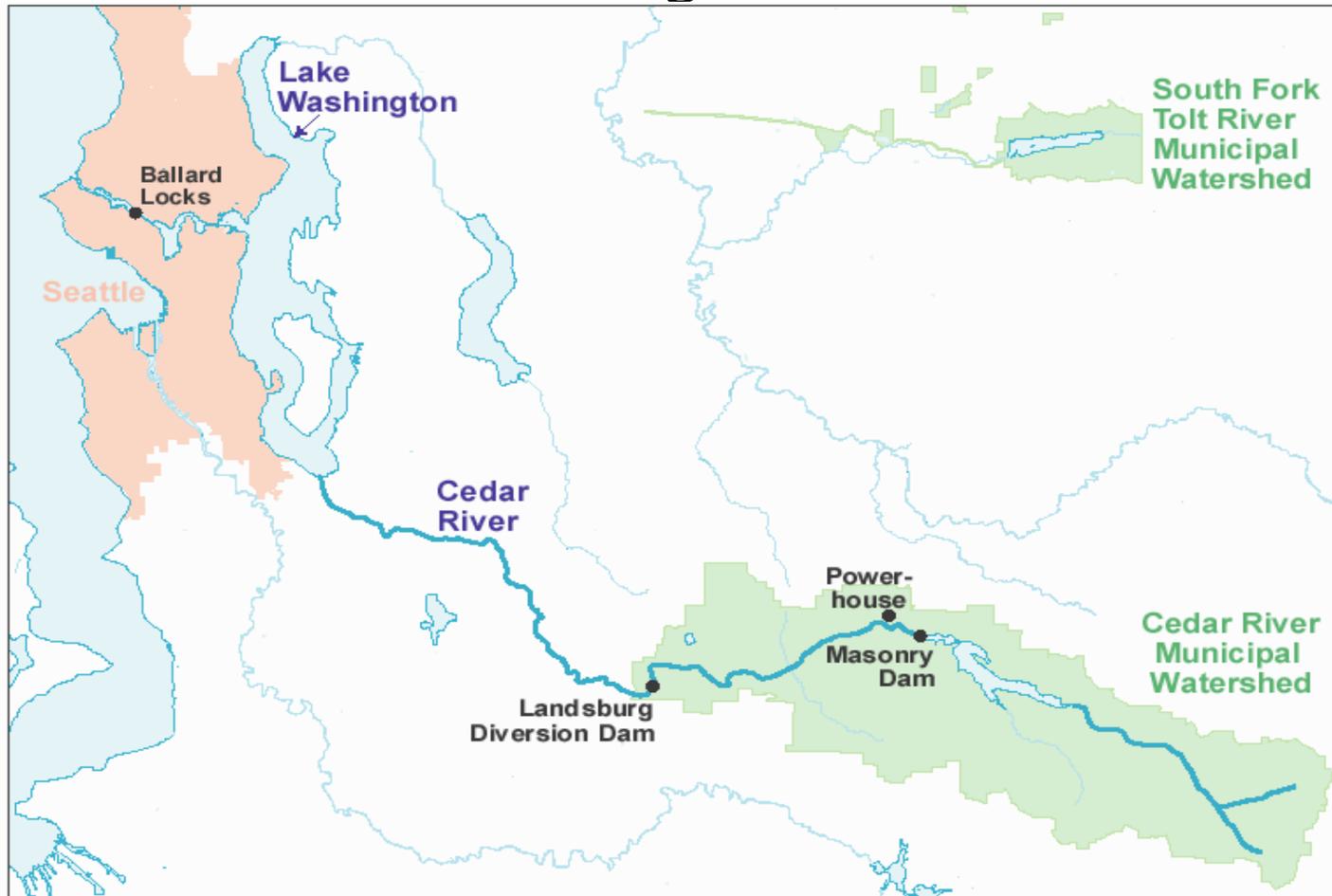


Knotweed Treatment in the Cedar River Municipal Watershed



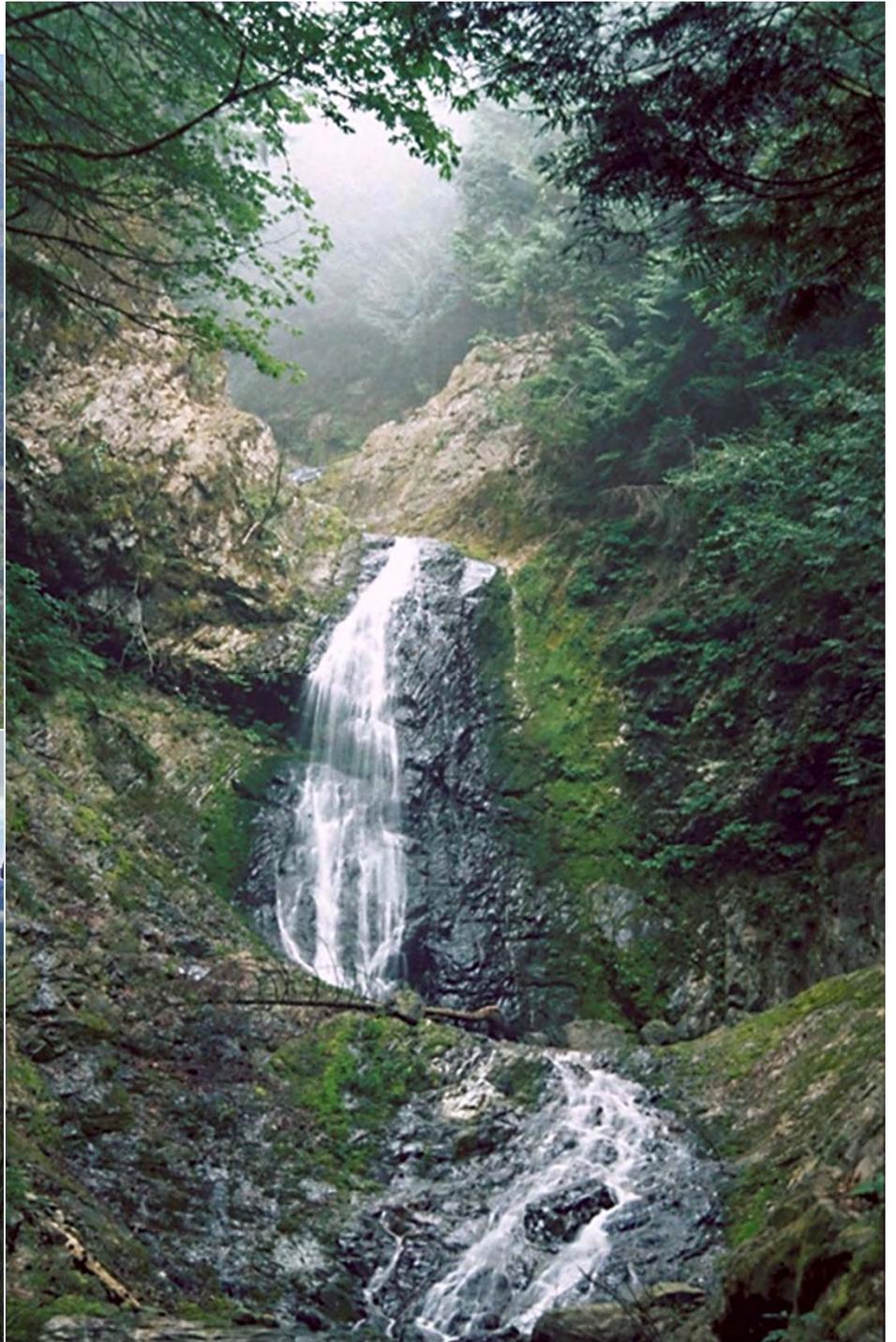
Cedar River Municipal Watershed

Watershed Management Division



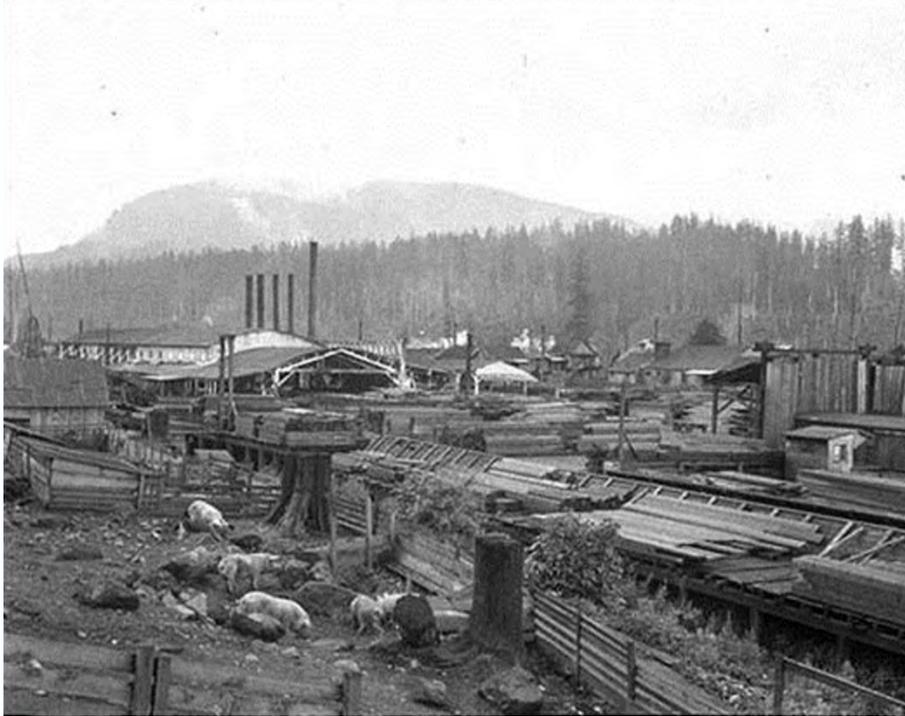
Cedar River Municipal Watershed Facts

- >91,000 acres (141 square miles)
- Elevation: 538 - 5,447 feet
- Annual Precipitation: 57-140 inches
- Supplies 100 million gallons of water daily to 850,000 customers
- <20% of the annual river flow is diverted
- Closed to public access since early 1900s

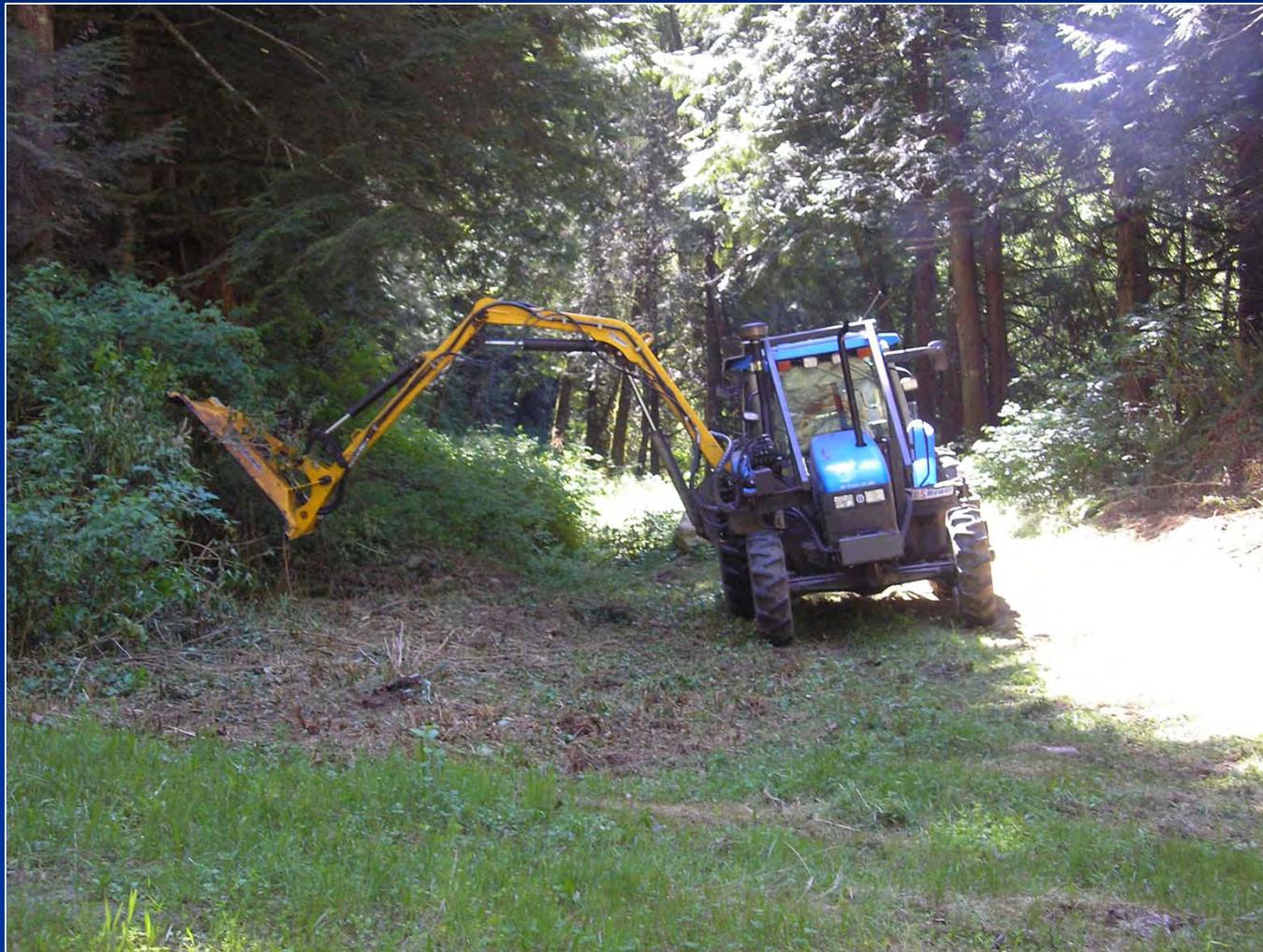


Cedar River Municipal Watershed Facts

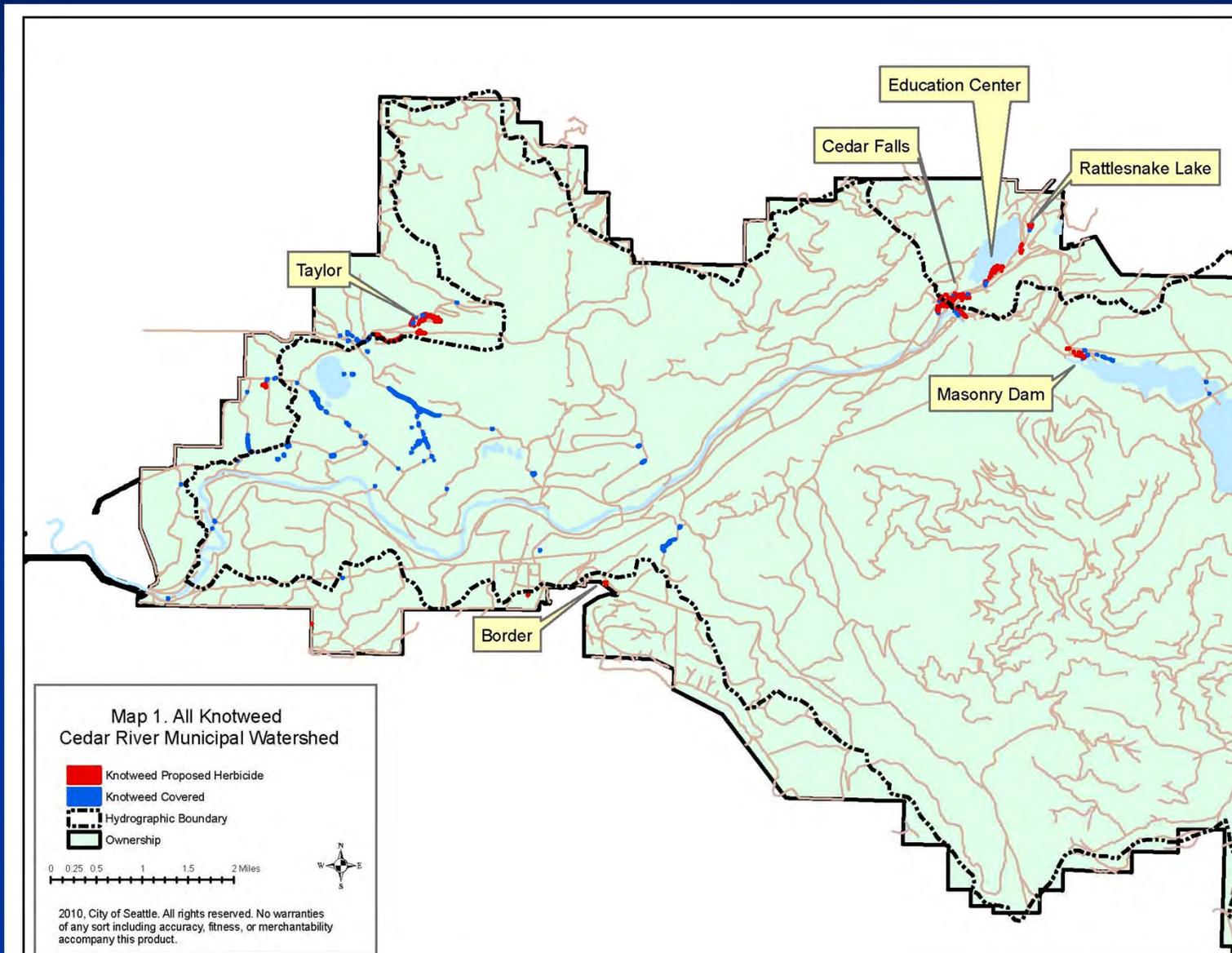
- 85% of the land was logged 1880-1994
- ~14,000 acres of old-growth forest left
- ~70,000 acres of second-growth forest
- 642 miles of road
- 9,400 years of human occupation:
tribes, homesteaders, railroad, logging,
mining, towns



1989 – Herbicide Moratorium Ordinance Adopted



Knotweed Infestation ~20 Acres



Covering with Fabric





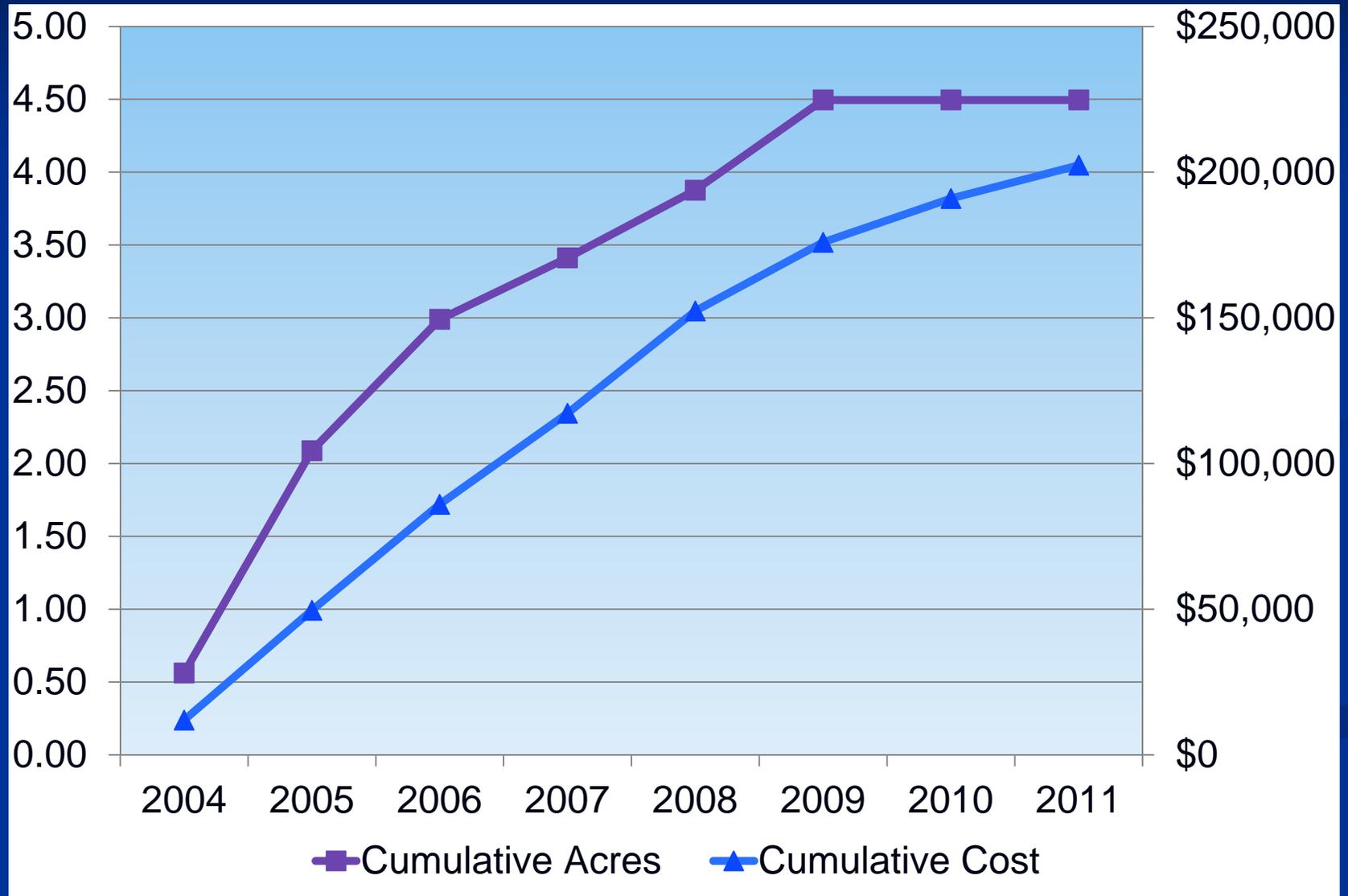
Maintaining Fabric



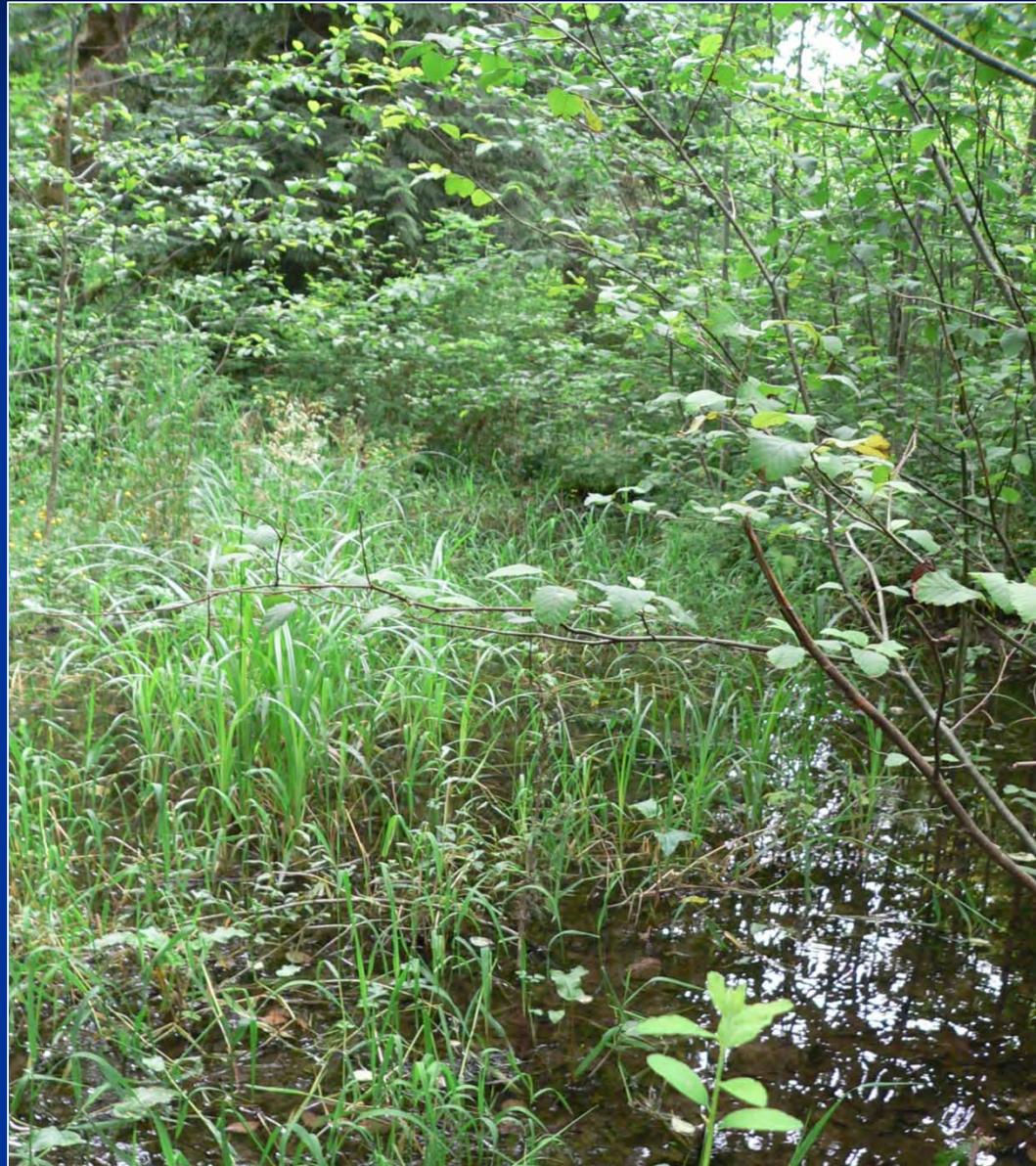
If Don't Maintain Fabric



Cost of Fabric Treatment



Removing Fabric after 6 Years



Removing Fabric after 6 Years



Herbicide – It's All about Politics

- **Environmental community generally supportive**
 - Tight restrictions
 - Only knotweed/ only imazapyr
 - Only 3 years
- **Toxicology Analysis**
- **Only 1 person opposed**
- **Supportive City Council Member – Key**

Ordinance – Special Exemption to Herbicide Moratorium

- **Seattle City Council passed ordinance amendment August 2nd 2010**
 - Imazapyr to treat known knotweed patches
 - Treat new patches, not to exceed 5 acres
 - Sunsets after 3 years (Dec 31, 2012)
 - Annual report to Council Committee
 - Establish on-going monitoring program

Pre-Treatment – Bend Canes



Knotweed Herbicide Treatment Targeted Backpack Spray

➤ 2010

- Ordinance passes
- First treatment - 7.72 acres

➤ 2011

- Second treatment - 7.72 acres
- First treatment – 7.70 acres



1-Year Post-Herbicide: Small Scattered Re-growth



Unexpected - Widespread Small Growth Buds at Plant Base



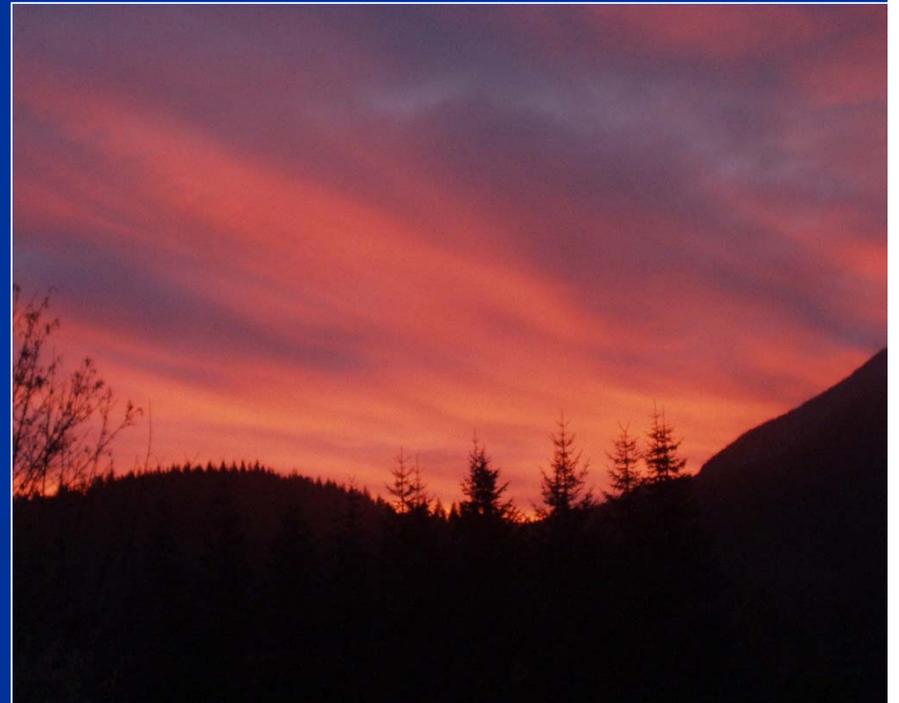
2012 Plans

➤ 2012 Treatments

- Third treatment on 7.72 acres
- Second treatment on 7.70 acres
- First treatment on areas missed in 2011 and any new patches found

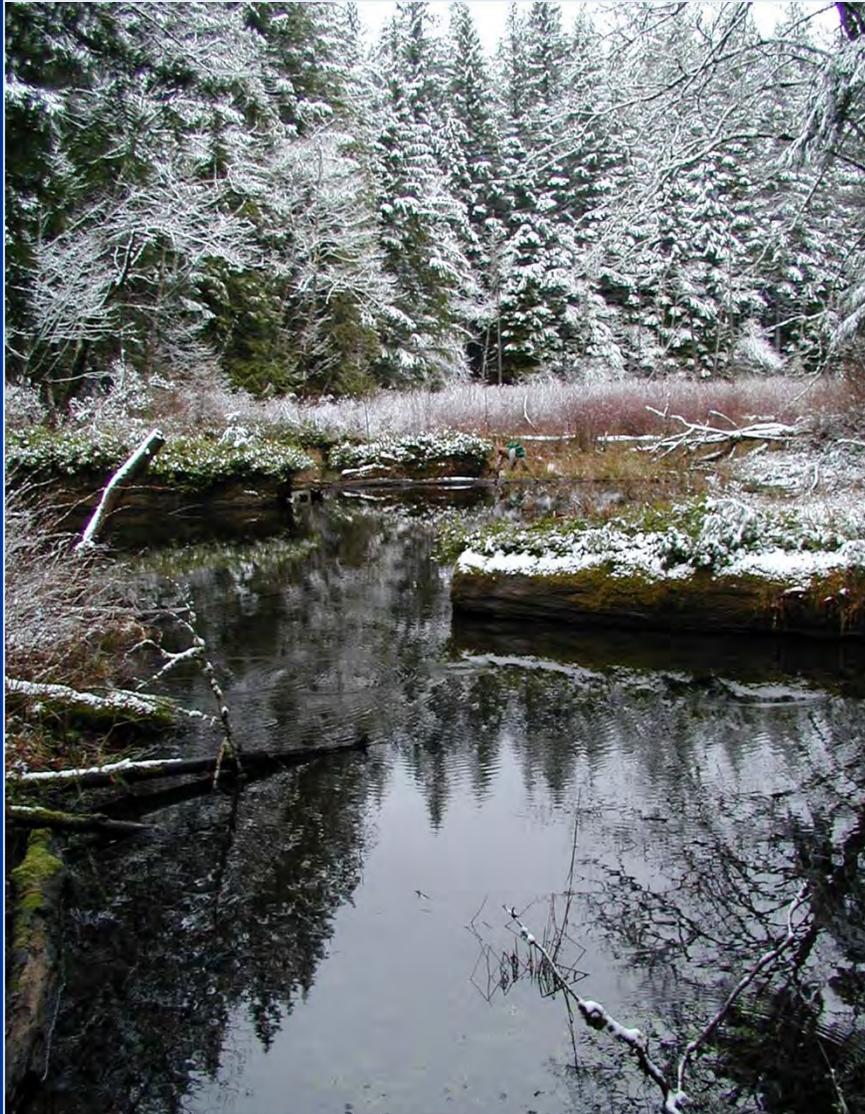
➤ Ordinance Sunsets

➤ Request extension?



Habitat Restoration

It's More Than Killing Knotweed



Road through Rock Creek Wetland



Knotweed Infestation Prior to Road Removal



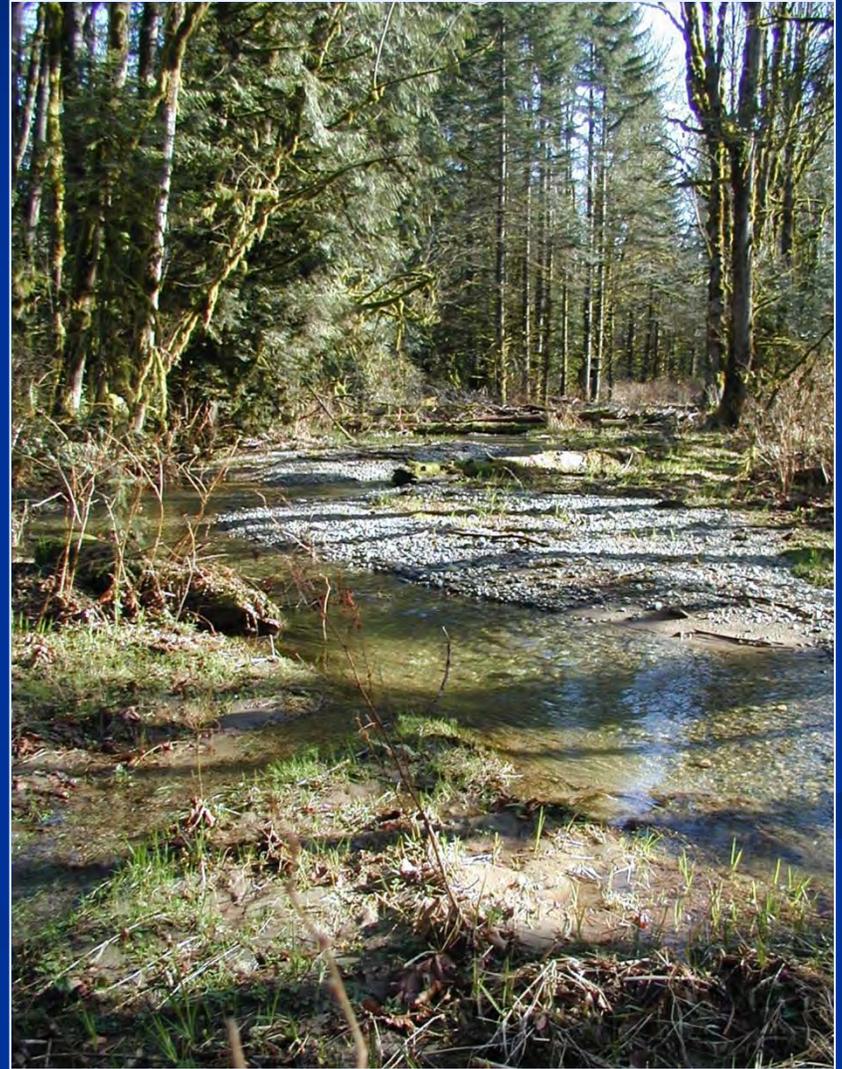
Controlling Knotweed

Rock Creek Wetland, Fall 2002

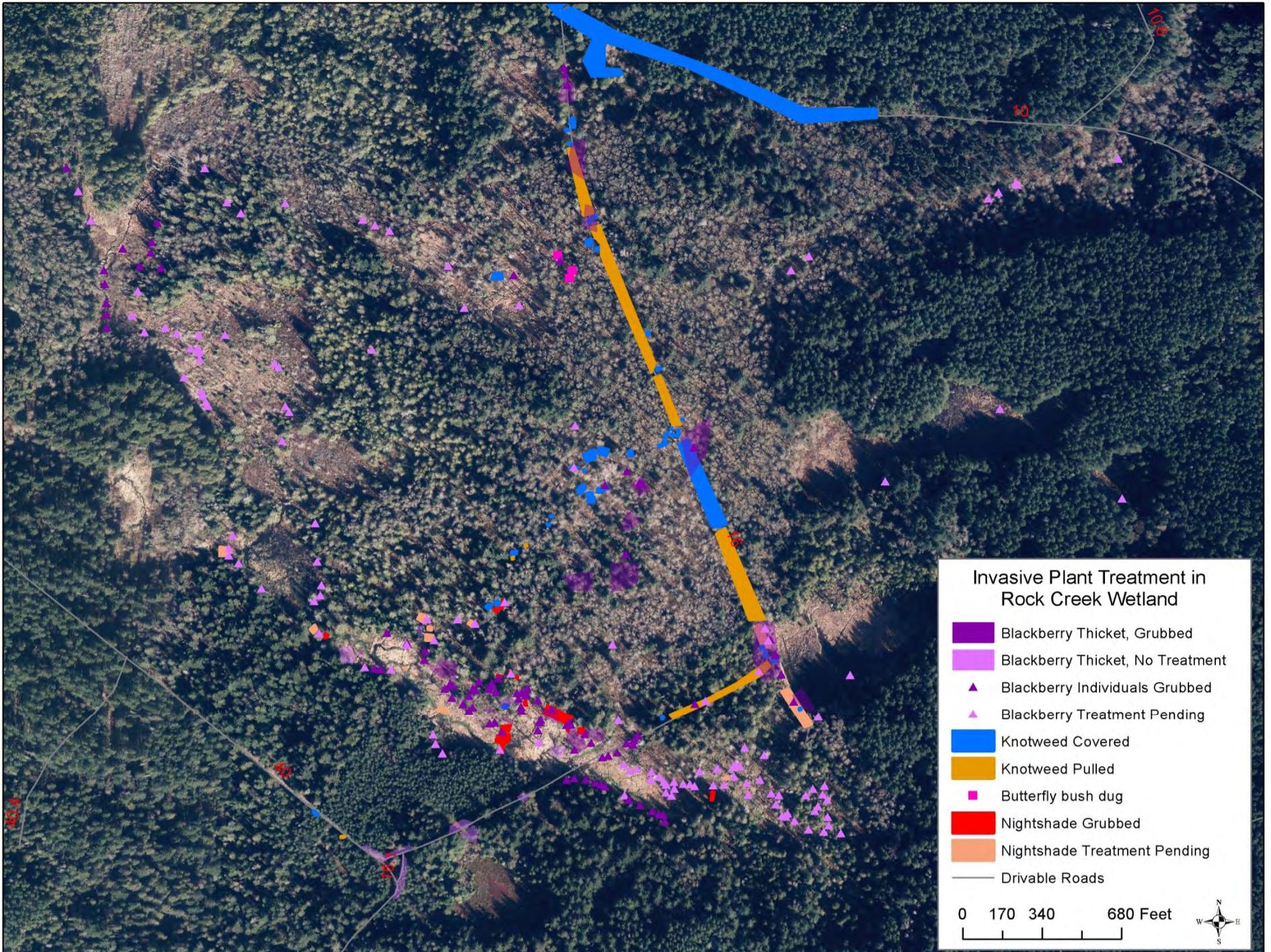
- Road deconstruction
- Excavate knotweed roots
- Bury roots off-site (create new infestation)
- Plant conifers on road bed

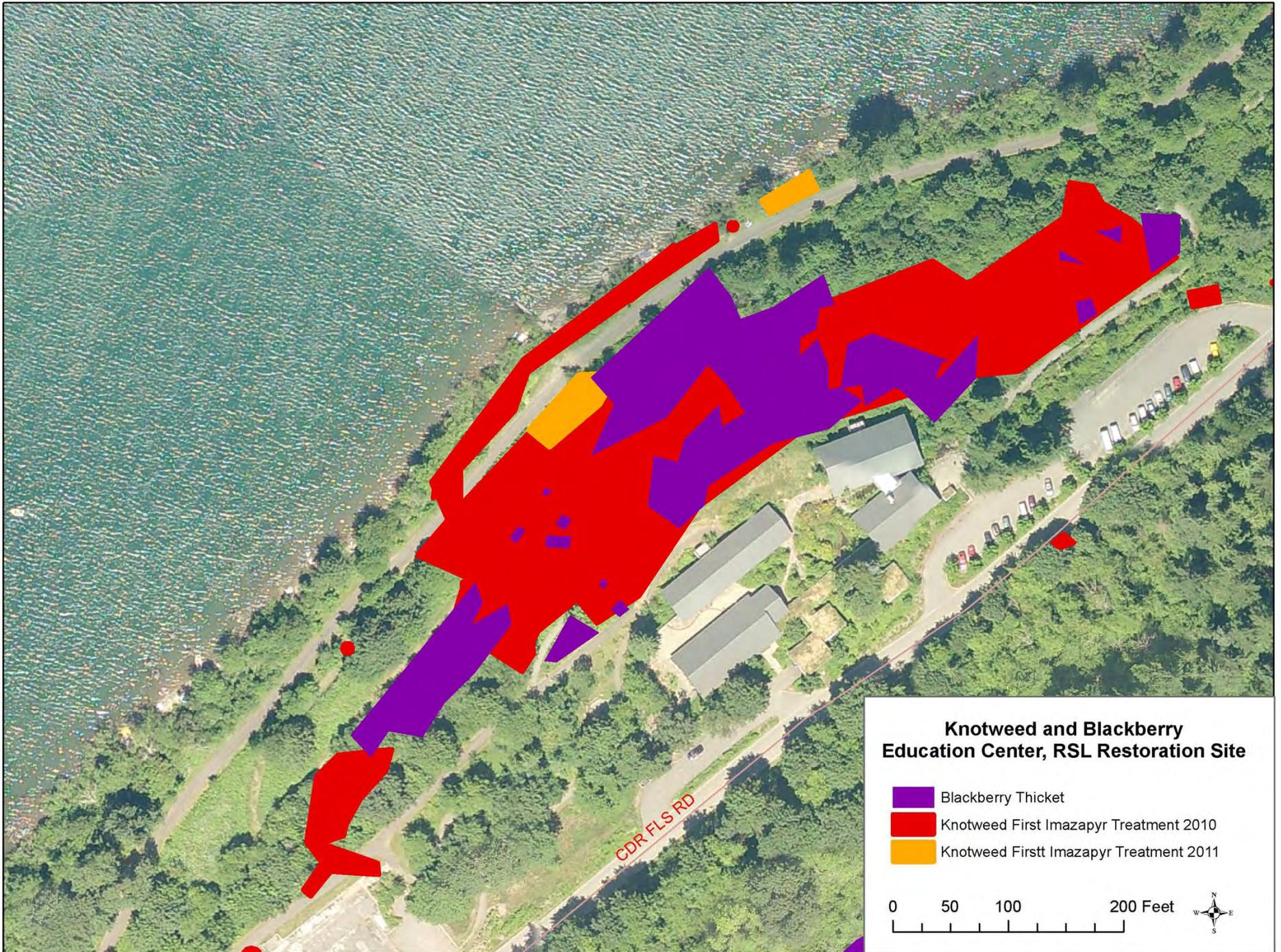


Deconstructed Road Rock Creek Wetland, 2007









Questions?

