The energy to do great things

PUGET SOUND ENERGY

pse.com

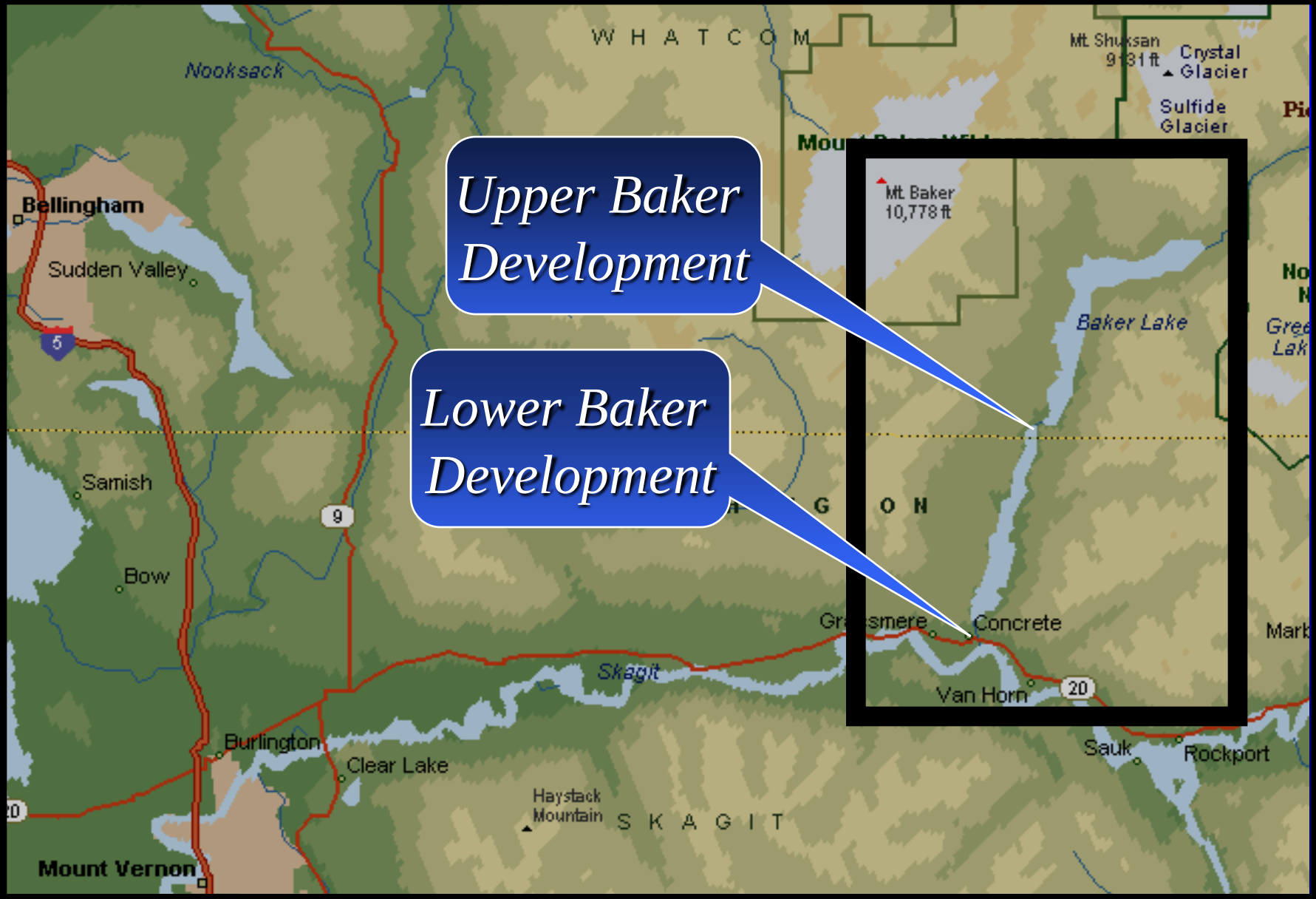
License Implementation

for the

Baker River Hydroelectric Project

FERC License No. 2150

Baker River
Project Area
Richmond
Surrey
BRITISH
COLUMBIA
Bellingham
Pasayten Wilderness
Oliver
Osoyoos
Grand Forks
Trail
Creston
Bonners Ferry
Saanich
Victoria
Anacortes
Mount Vernon
Oak Harbor
Port Townsend
Forks
Everett
Olympic N.P.
Shoreline
Kirkland
Seattle
Bridgeport
Chelan
Waterville
Electric City
Spokane
Post Falls
Coeur d'Alene
Opportunity
Newport
Sandp
WASHINGTON
Renton
Tacoma
Federal Way
Lakewood
Olympia
Wenatchee
Ephrata
Quincy
Moses Lake
Ritzville
Royal City
Ellensburg
Othello
La Crosse
Colfax
Moscow
Pullman
Connell
Yakima
Pomeroy
Lewiston
Hoquiam
Aberdeen
Centralia
Chehalis
South Bend
Pacific Ocean
UNITED STATES
Yakama Indian Reservation
Sunnyside
Richland
Kennewick
Walla Walla
Astoria
Longview
Seaside
Hood River
Goldendale
Hermiston
Milton-Freewater
Stevenson
Portland
The Dalles
Pendleton
Hillsboro
Enterprise
St. M
Wal


Upper Baker Development
Lower Baker Development
WHATCOM
Nooksack
Mt Shuksan 9131 ft
Crystal Glacier
Sulfide Glacier
Bellingham
Sudden Valley
5
Mt Baker 10,778 ft
Baker Lake
Samish
9
Bow
Concrete
Skagit
Van Horn
20
Burlington
Clear Lake
Sauk
Rockport
Haystack Mountain
SKAGIT
Mount Vernon

Project Data- Lower Baker

- *Constructed 1924- 1925 (20 Months)*
- *285 ft. high*
- *550 ft long*
- *7 mile long reservoir (2,278 acres)*
- *79.3 MW installed capacity*

Project Data- Upper Baker

- *Constructed June 1956- October 1959*
- *312 ft. high*
- *1200 ft long*
- *9 mile long reservoir (4,980 acres)*
- *90.7 MW installed capacity*

Bricklayer or Cathedral builder which will you be?

Licenses Are About Complex Relationships

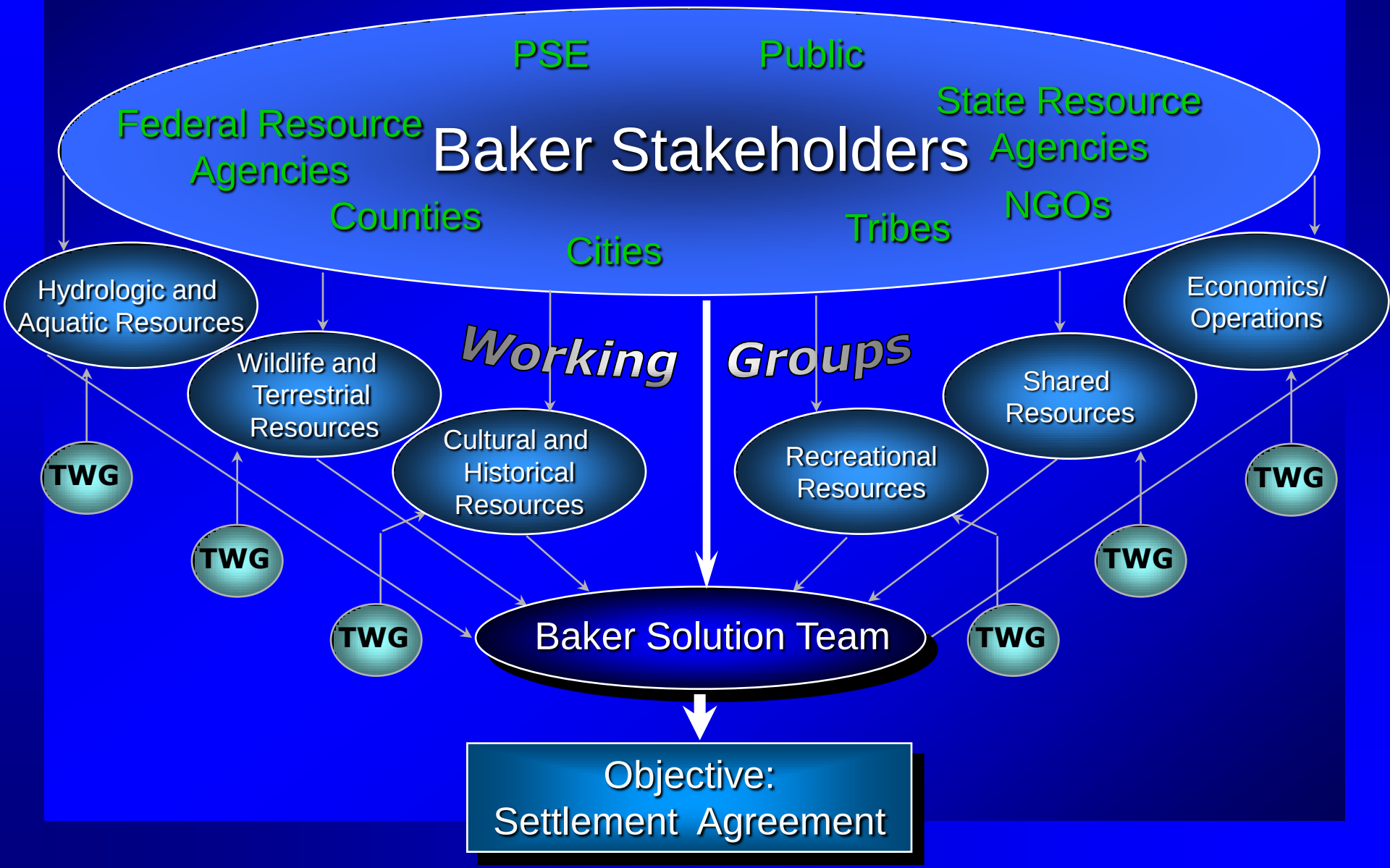
– ***PSE's Long-term Relationships With:***

- ***The General Public and PSE Customers***
- ***FERC***
- ***Federal and State Resource Agencies***
- ***Counties and Municipalities***
- ***Tribes***
- ***Environmental Groups***

Baker Relicense was about Collaboration

- *The Baker ALP created a forum*
  - *to understand stakeholder interests and issues*
  - *to balance competing interests*
  - *to achieve the best comprehensive use of resources*
  - *to develop enduring solutions and relationships*

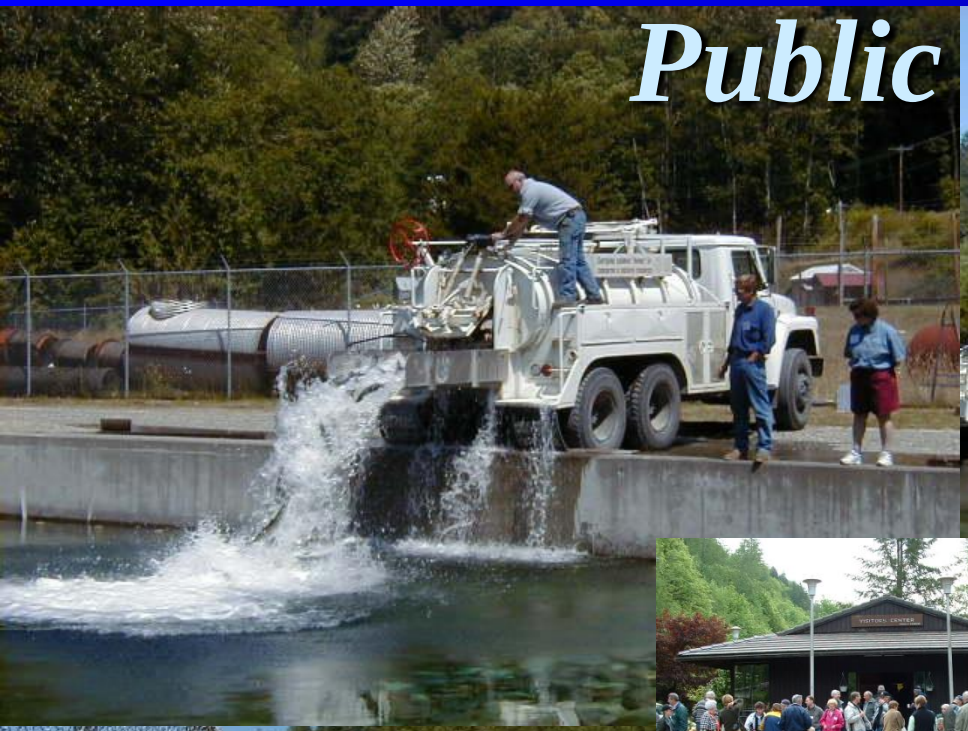
Baker Licensing Process

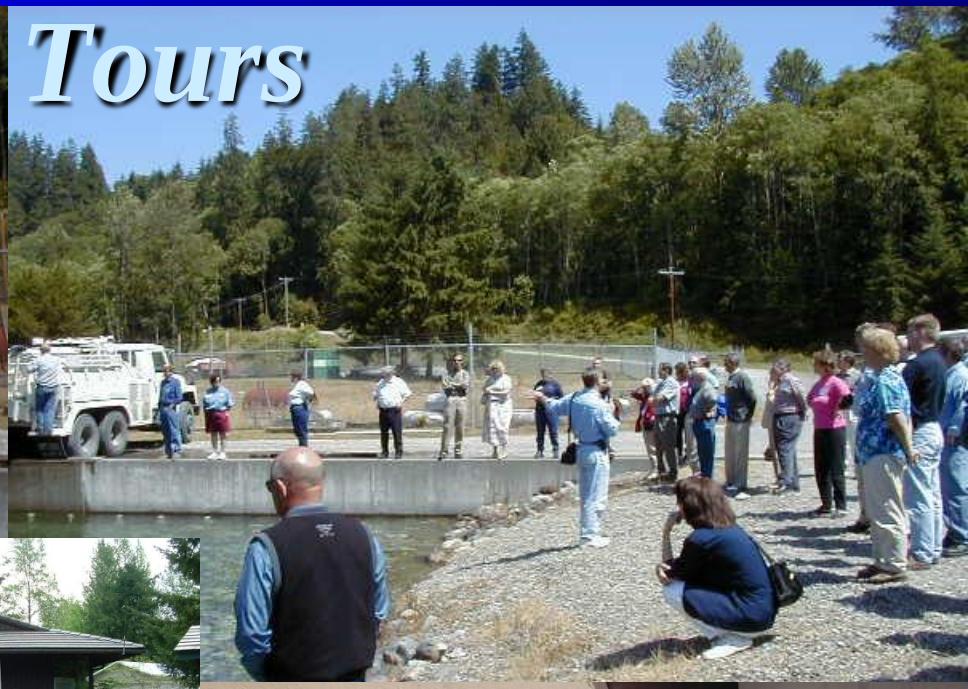


Groups Notified of Process

Over 160 Groups Notified
Nearly 500 individuals on Stakeholders list

Public Tours





Public Meetings

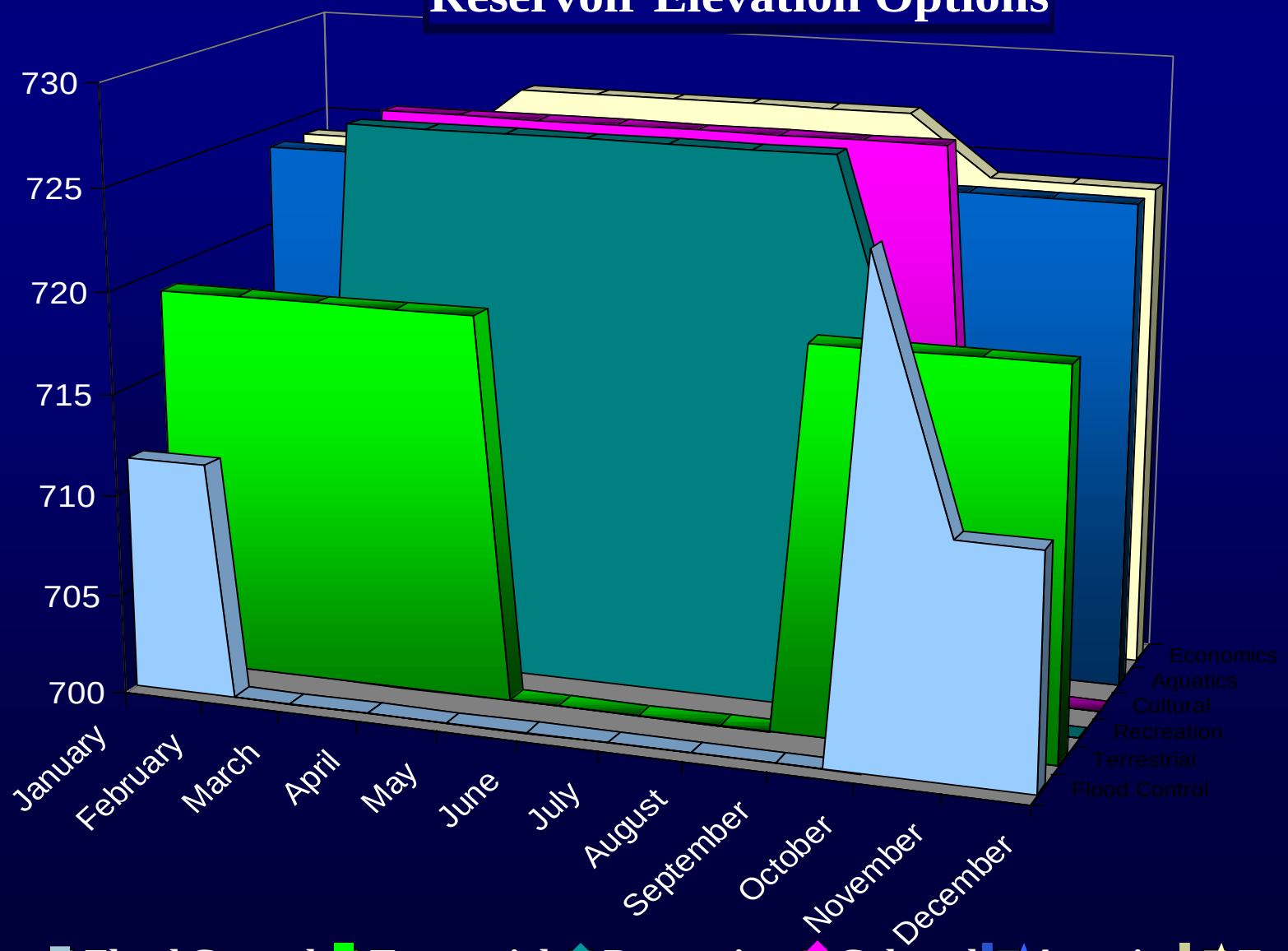
Baker Studies Initiated

The Baker River Project ALP

Examination of Interests and Issues

Competing Uses for Water

Reservoir Elevation Options



Flood Control Terrestrial Recreation Cultural Aquatics Economics

Aquatic Assessment

Aquatics Working Group

138 meetings - 47 major studies

US Forest Service
National Park Service
NOAA Fisheries
US Fish and Wildlife Service
US Army Corps of Engineers
WA Department of Ecology
WA Department of Fish and Wildlife
WA Department of Natural Resources
Skagit (River) System Cooperative
Upper Skagit Indian Tribe

Skagit County PUD No. 1
Skagit County
Town of Concrete
Skagit Fisheries Enhancement Group
Trout Unlimited
Wildcat Steelhead Club
WA Council Federation of Fly Fishers/Fidalgo Fly Fishers
Puget Sound Anglers
The Nature Conservancy

Terrestrial Assessment

Terrestrial Working Group

70 meetings- 14 major studies

Washington Department of Fish and Wildlife

US Forest Service

North Cascades Conservation Council

Skagit County Noxious Weed Control Board

Skagit (River) System Cooperative

US Fish and Wildlife Service

National Park Service

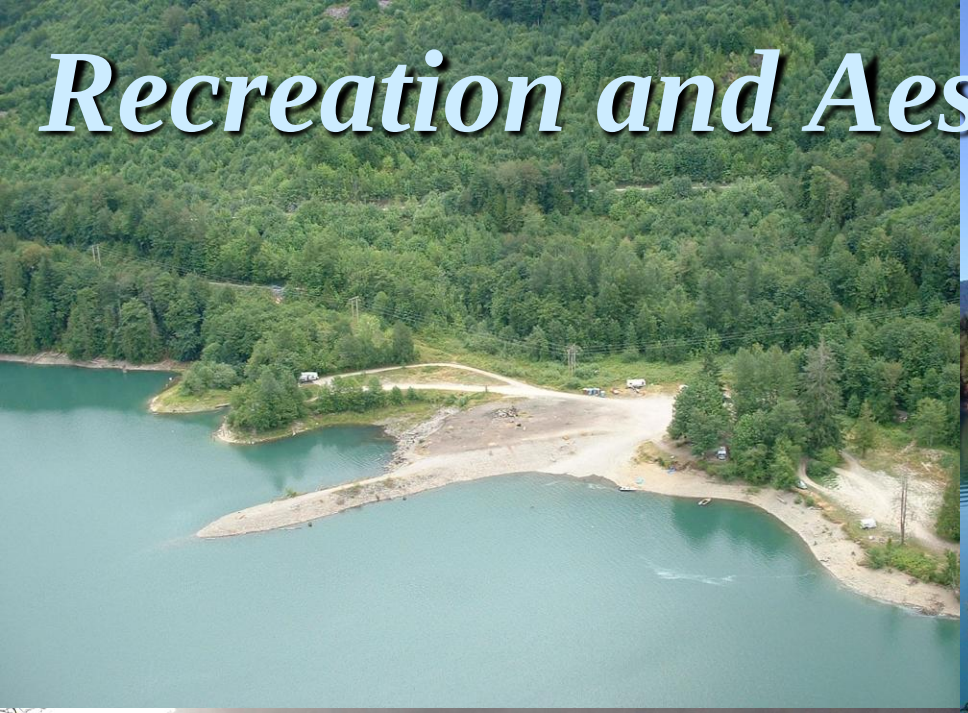
Whatcom County Noxious Weed Control Board

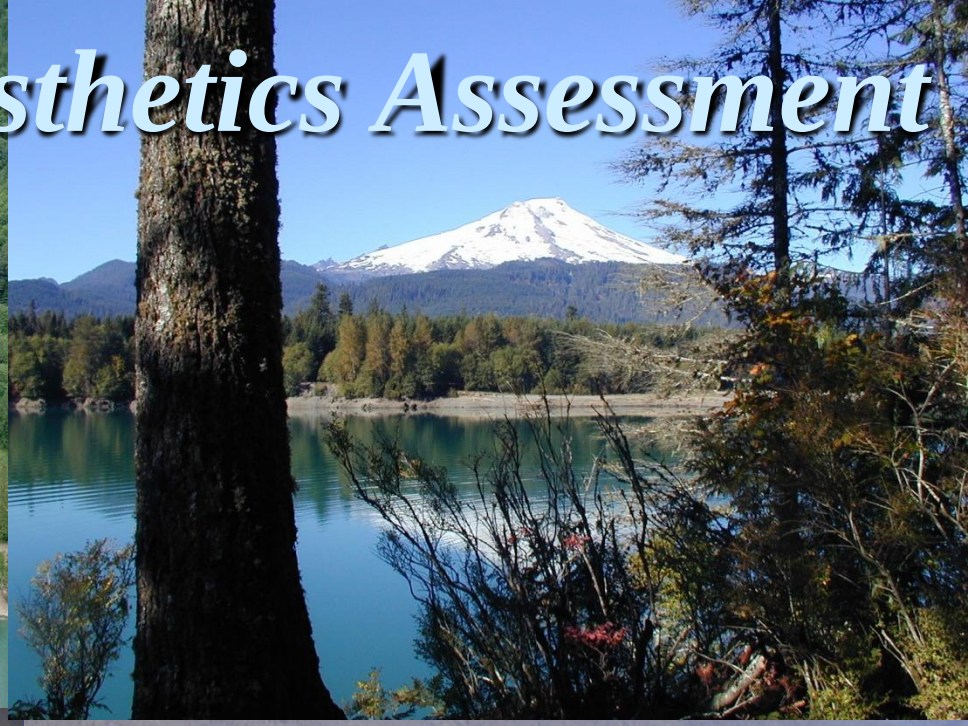
Rocky Mountain Elk Foundation

Northwest Indian Fisheries Commission

The Nature Conservancy

Recreation and Aesthetics Assessment





Recreation Working Group

99 meetings - 9 major studies

US Forest Service

National Park Service

WA Department of Fish and Wildlife

Skagit (River) System Cooperative

Upper Skagit Indian Tribe

Skagit County

North Cascades Conservation Council

Interagency Commission for Outdoor Recreation

Historic and Cultural Resource Assessment

Cultural Working Group

34 meetings - 5 major studies

US Forest Service

National Park Service

Swinomish Indian Tribal Community

Sauk-Suiattle Indian Tribe

Upper Skagit Indian Tribe

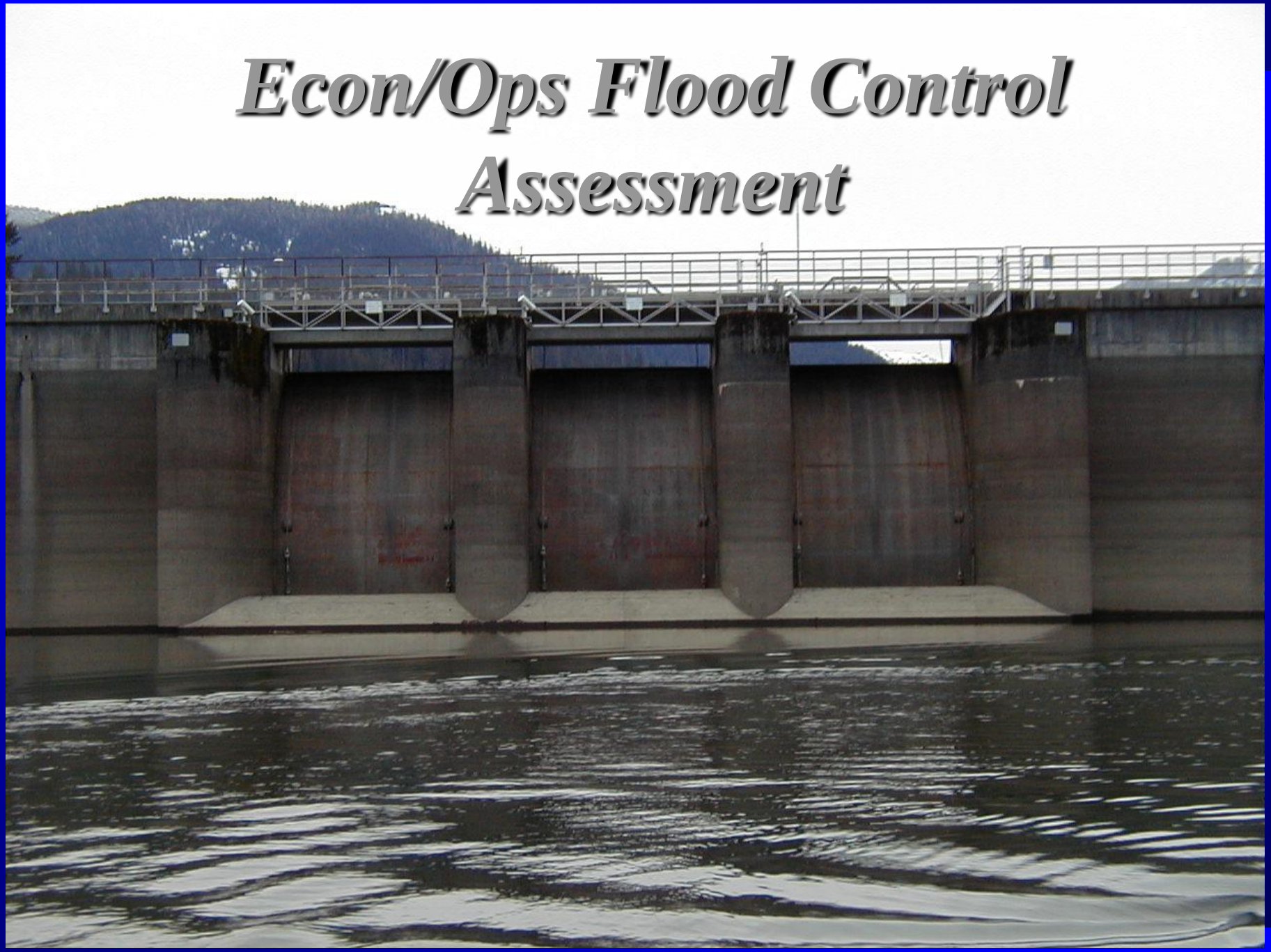
Concrete Heritage Museum Association

Washington Department of Natural Resources

Washington Office of Archaeology

and Historic Preservation

Econ/Ops Flood Control Assessment



Econ/Ops Working Group

24 meetings - 1 major study

US Forest Service

US Fish and Wildlife Service

US Army Corps of Engineers

WA Department of Ecology

WA Department of Fish and Wildlife

Skagit (River) System Cooperative

Skagit County

City of Anacortes

Skagit County PUD No. 1

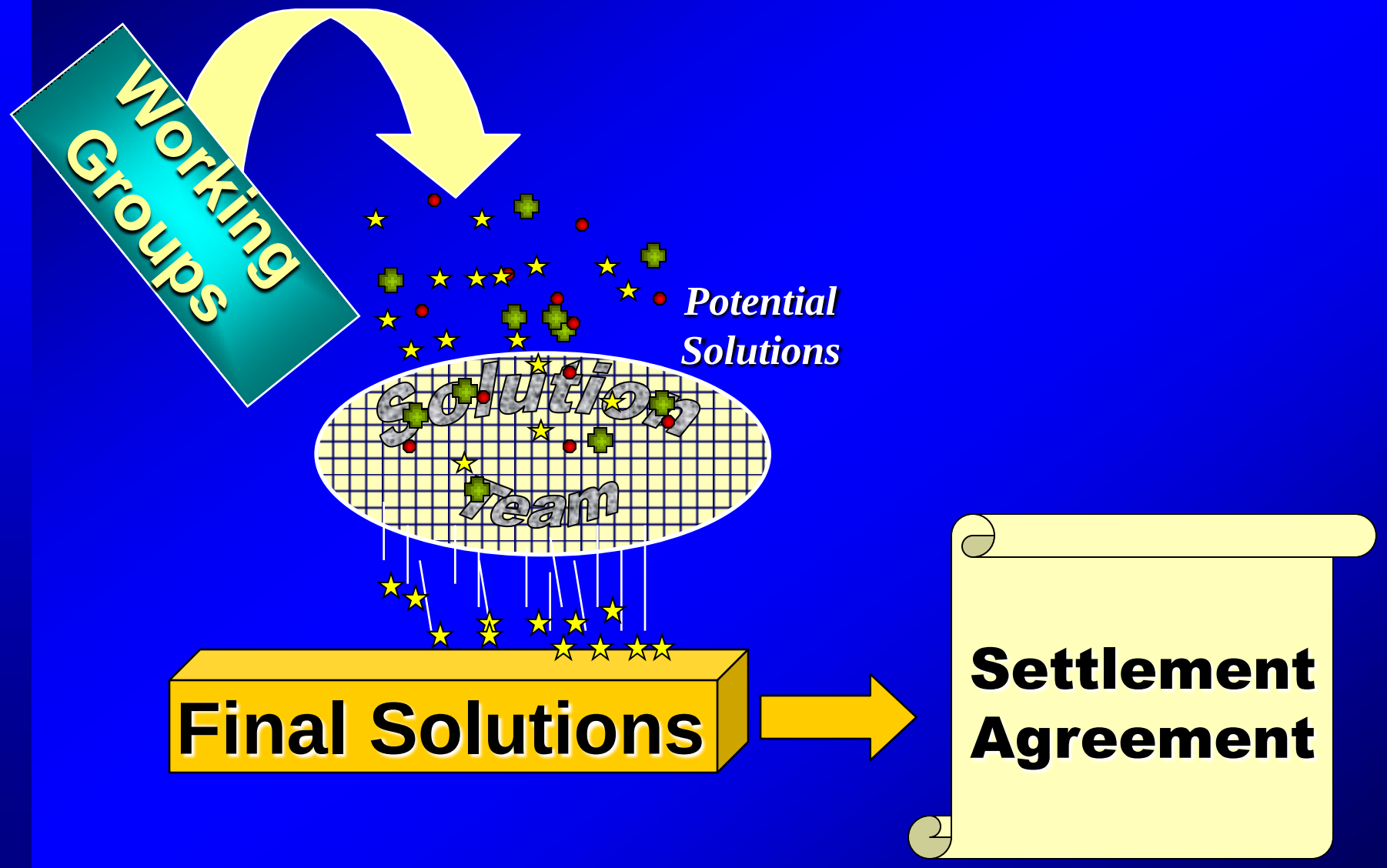
Town of Concrete

Skagit Fisheries Enhancement Group

The Baker River Project ALP

Assessment of Needs

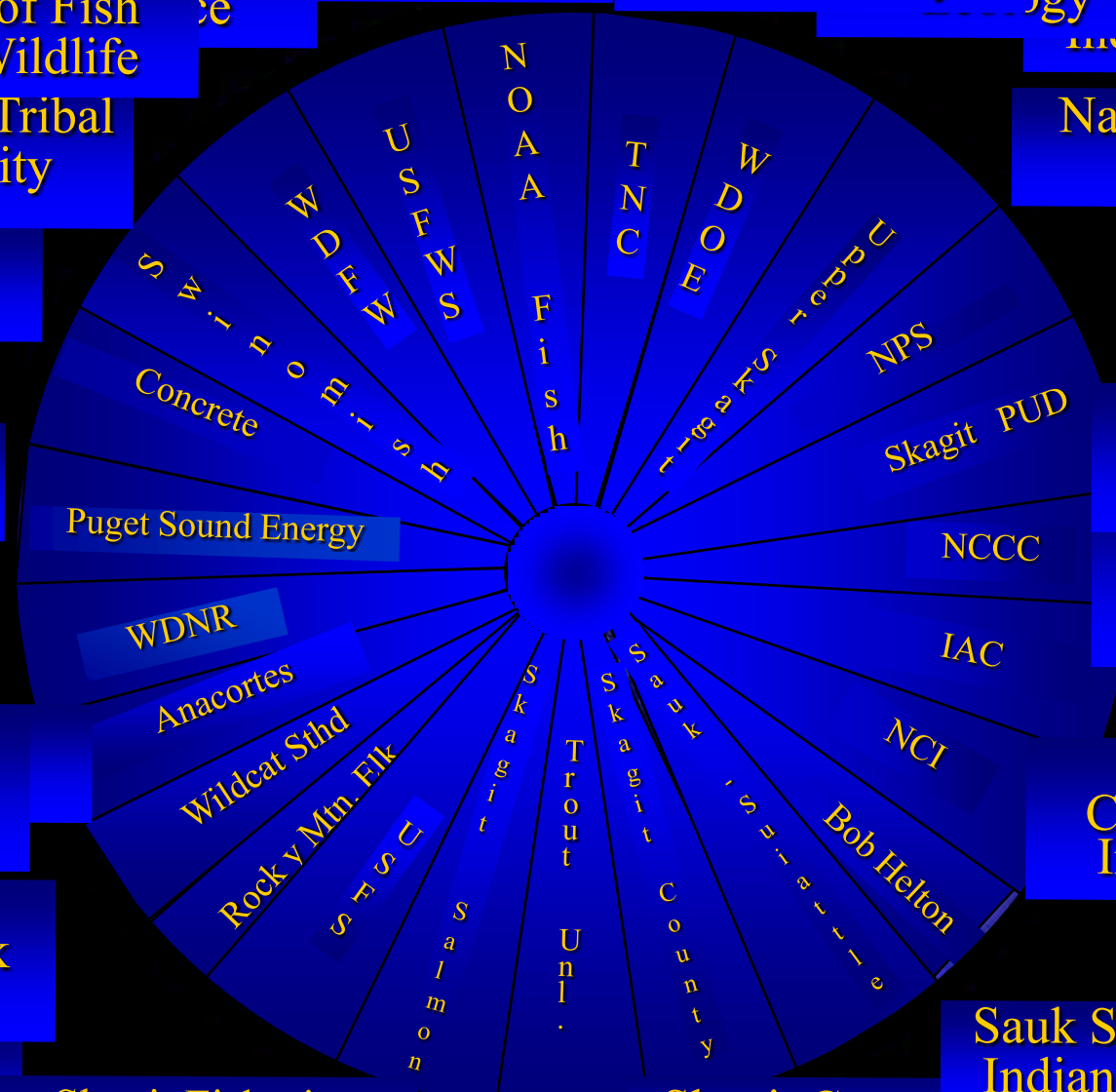
What did the Solution Team do?



What was accomplished?

- *An accumulation of diverse perspectives*
- *A thorough examination of the issues*
- *A thoughtful assessment of needs*
- *A comprehensive discussion of options*
- *A balance of resource objectives*

24 Settlement Parti



US Fish and Wildlife Service

NOAA Fisheries

The Nature Conservancy

Washington Dept of Ecology

Skagit Indian Tribe

Washington Dept of Fish and Wildlife

Swinomish Tribal Community

National Park Service

Skagit County PUD

Town of Concrete

North Cascades Conservation Council

Puget Sound Energy

Committee for Outdoor Recreation

Washington Dept of Natural Resources

North Cascades Institute

Wildcat Steelhead Club

Bob Helton

Rocky Mountain Elk Foundation

Sauk Suiattle Indian Tribe

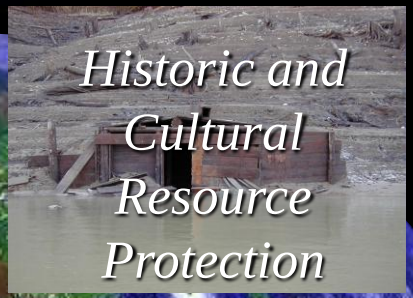
USForest Service

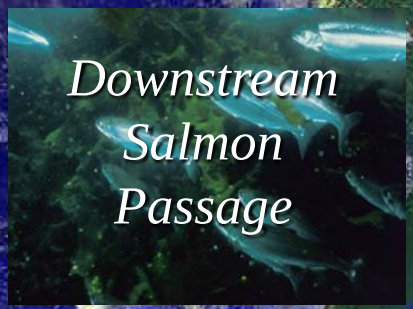
Skagit Fisheries Enhancement Group

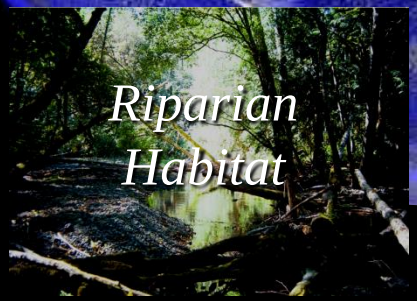
Trout Unlimited

Skagit County

Settlement Issues- 50 separate topics







Settlement Scope

- ***Comprehensive*** *- collaboratively developed and carefully crafted to meet all interests*
- ***Multi-party*** *- reflects all associated Federal, State and Tribal Resource agencies and NGOs*
- ***Long-term*** *– 50 Years*
- ***Flexible*** *- provides mechanism and funding for adaptive management to reduce future conflicts while improving outcomes*

Settlement Benefits

- *Inclusiveness enhances outcomes and certainty*
- *Reduced potential legal challenges to license*
- *Longer license than otherwise would be supported (45-50 years)*
- *Settlement of 50 issues*
- *Stable market competitive power cost for term of license*
- *Increased future collaboration - Access to diverse parties*
- *Regulatory support (WUTC) by signing parties*
- *Reduced and contained cost exposures*

Lessons Learned:

When you build bridges you can keep crossing them

- ***Competent facilitation makes the collaboration journey efficient and enjoyable***
- ***Licenses are for decades, long-term relationships a key to success***
- ***Broad based involvement is the key to future successes***

License for Baker Issued

October 17, 2008

Implementation Highlights

Article 101 Fish Propagation

Article 103 Upstream Passage

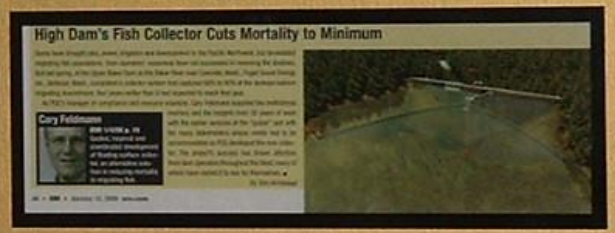
Article 105 Downstream Passage

COVER STORY

THE TOP 25 NEWSMAKERS OF 2008

CONTENTS

Many people, in many ways, serve the best interests of the construction industry. The editors of ENR have chosen the following individuals for innovations and achievements featured in our stories in 2008. These cited here will be honored on March 26, 2009, in New York City. One already has been chosen to receive the Award of Excellence, ENR's highest honor, and will be the subject of a cover story in the magazine's March 30 issue.

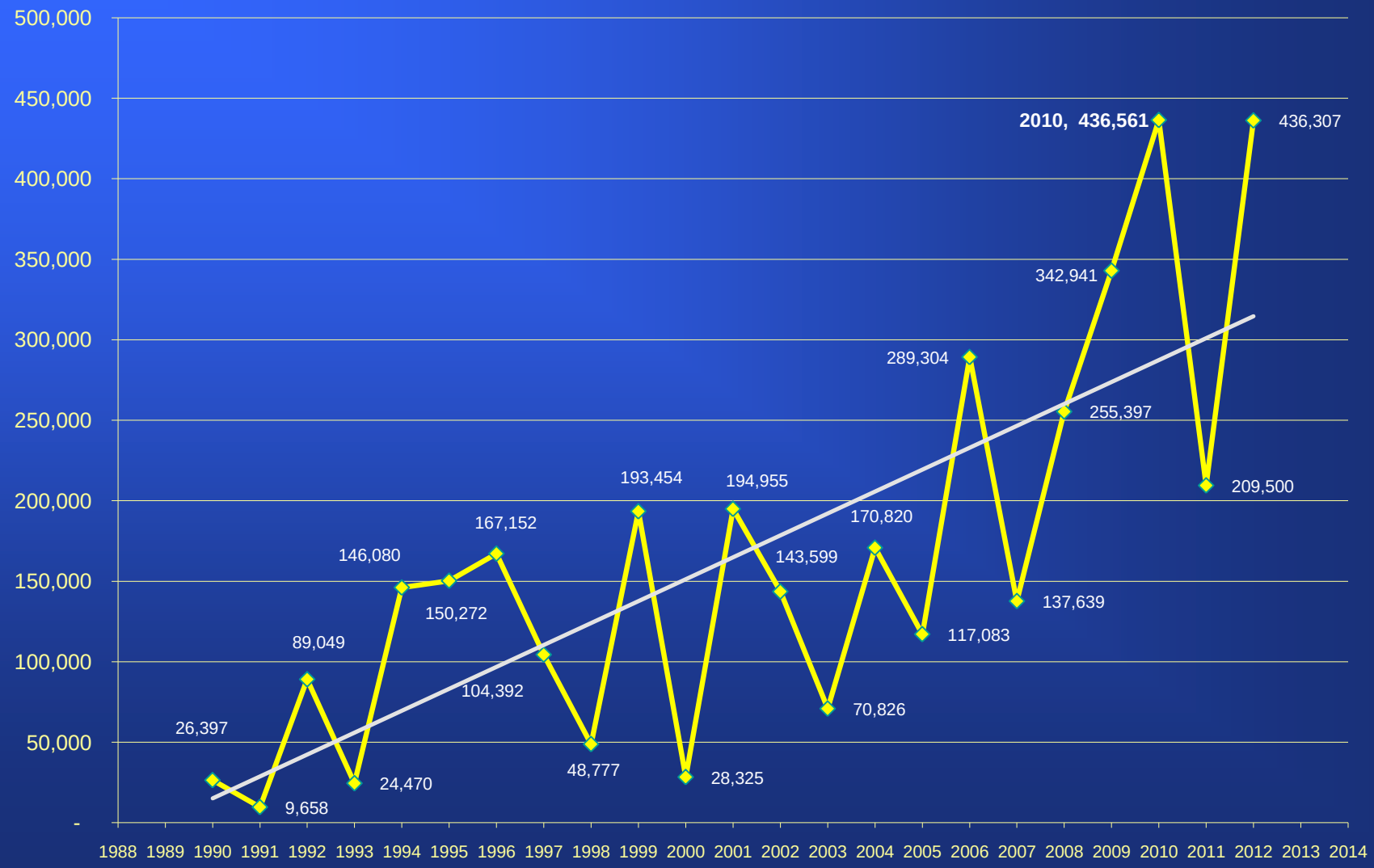


Puget Sound Energy Inc.

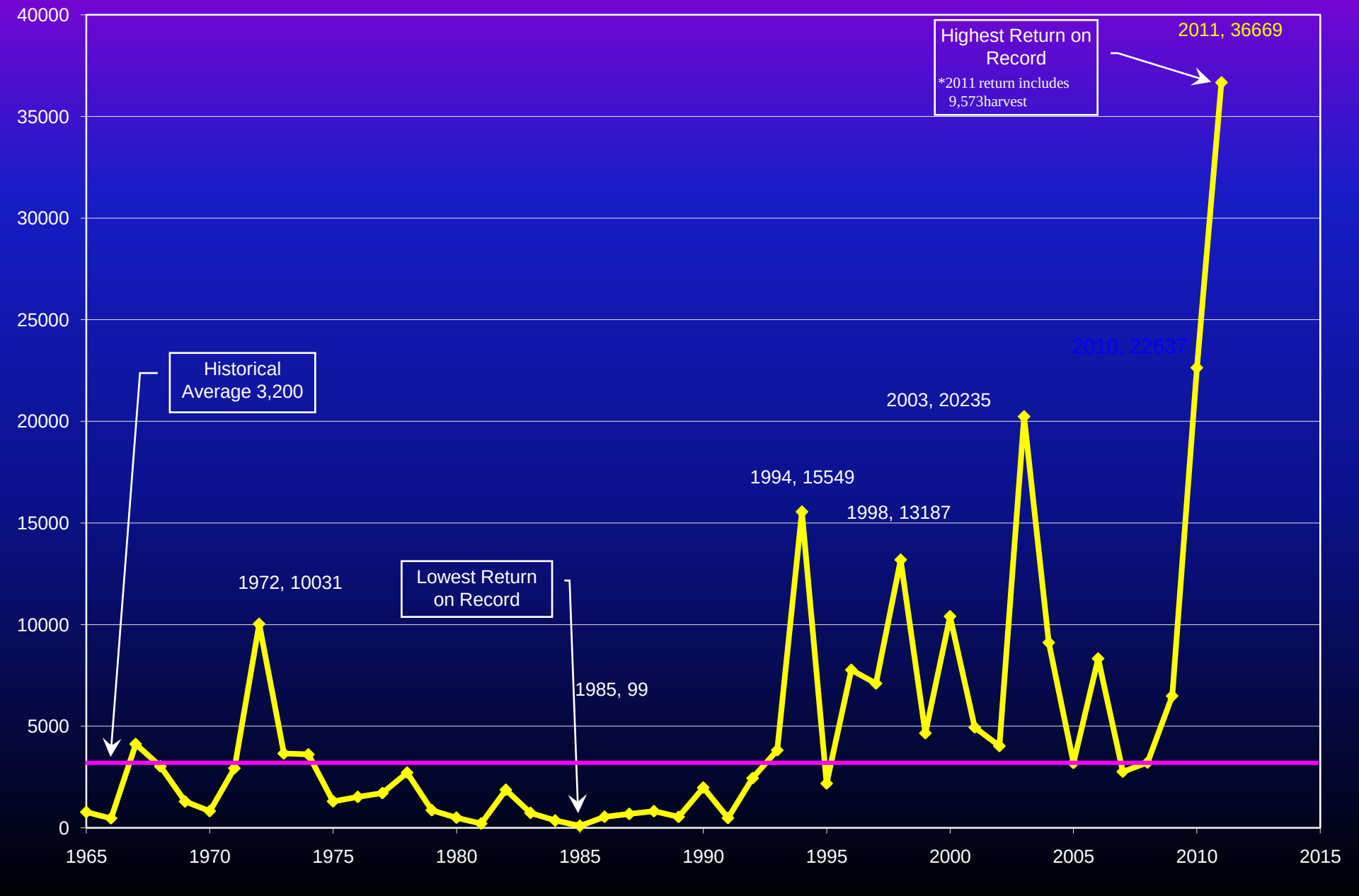
Featured In: ENR Magazine

January 12, 2009

Sockeye Juvenile Outmigration Captured at the Baker Project 1990 -2012



Adult Sockeye Returns to Baker River 1965-2011

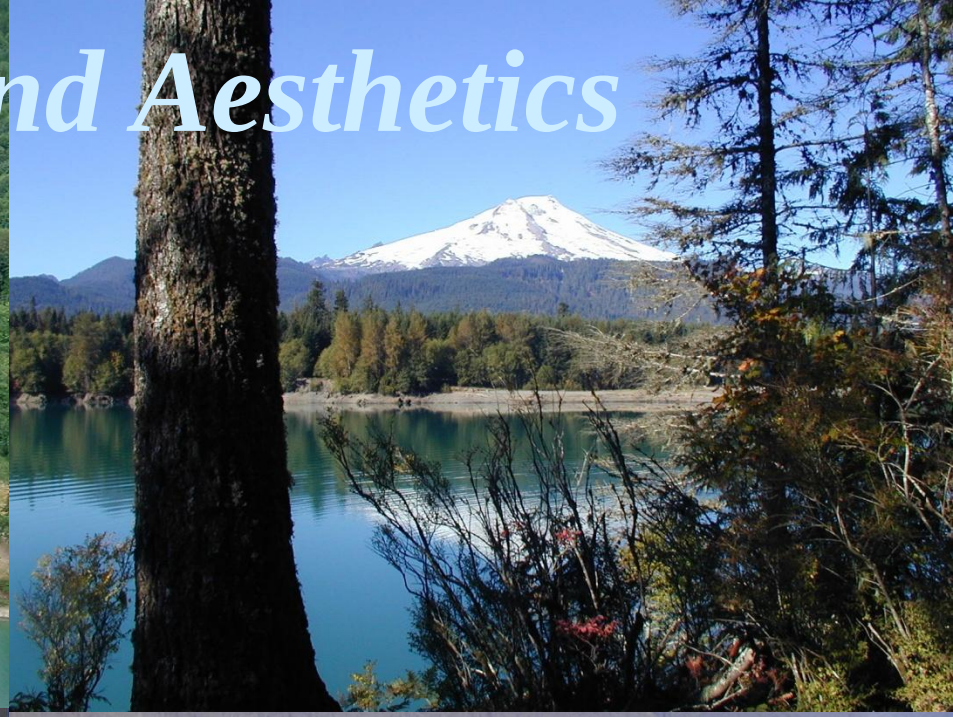


Historic and Cultural Resources

Article 201 Programmatic Agreement

- *Implement Programmatic Agreement*
- *Consultations for Historic Districts*
- *Protection of archaeologic sites*

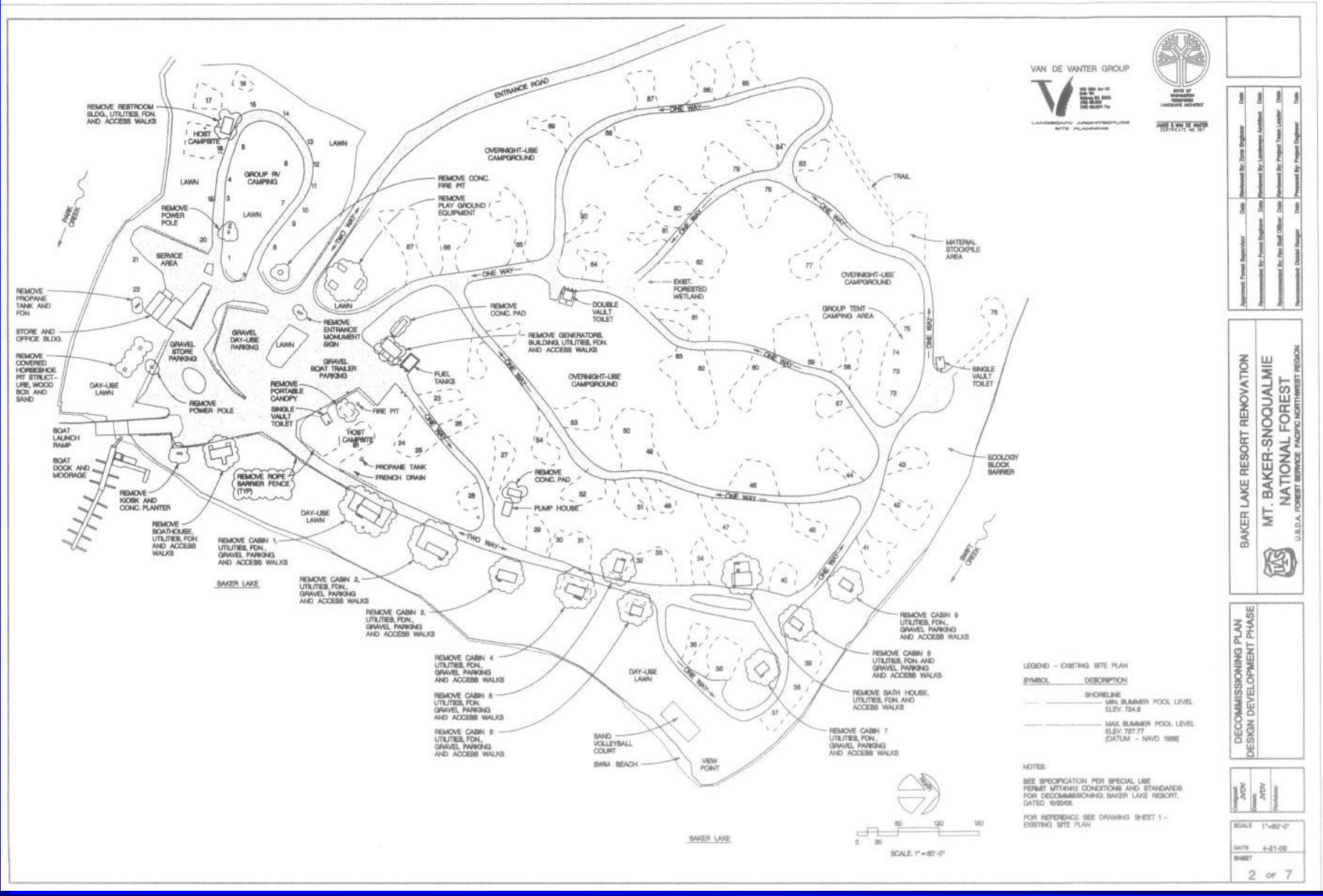
Recreation and Aesthetics



Articles 302-304, 306-310, 312-317 US Forest Service Funding

- *Provide funding ~ 20 Million (over 50 years) to USDA-FS to :*
  - *Assist in development and maintenance of campgrounds, visitor facilities, trails, and roads*
  - *Support staffing and operations for Information services, interpretation and education planning*
  - *Law Enforcement*

Article 303 Baker Lake Resort Redevelopment



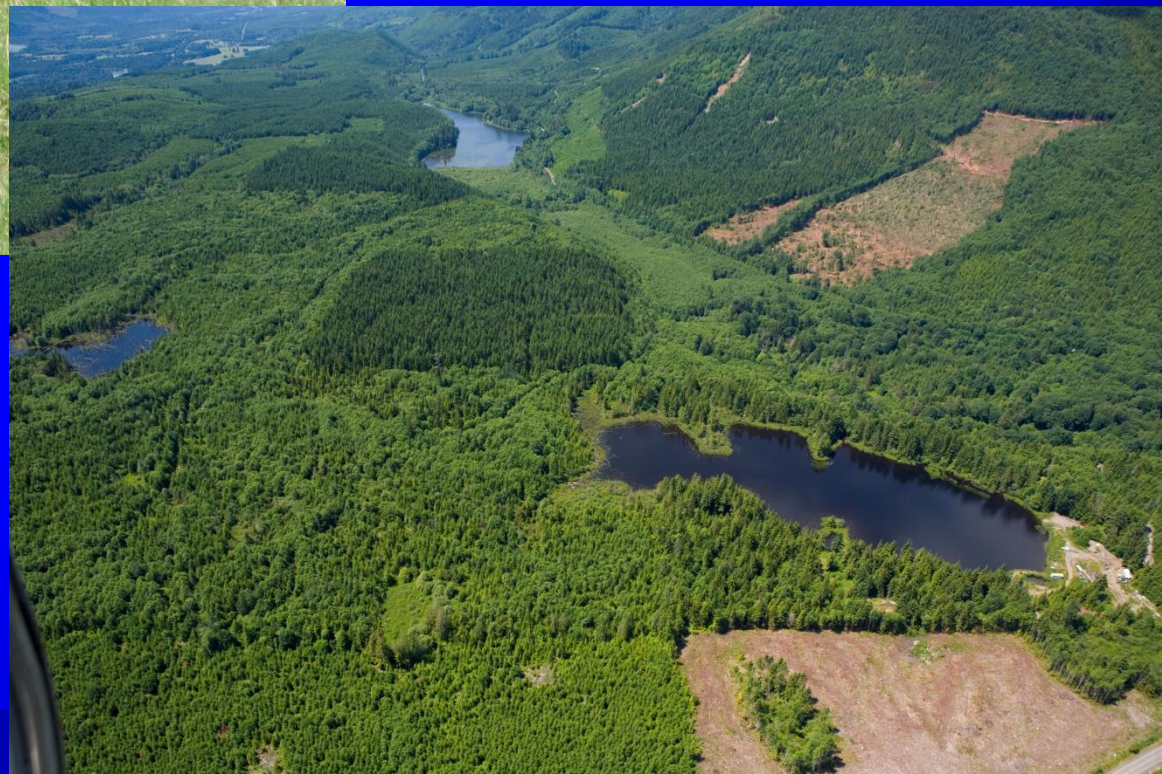
Article 318 Law Enforcement

- *Plan is In Place*
- *Cooperation and Coordination is solid*

Terrestrial Articles

Articles 502 – 504 Habitats

Alder Creek

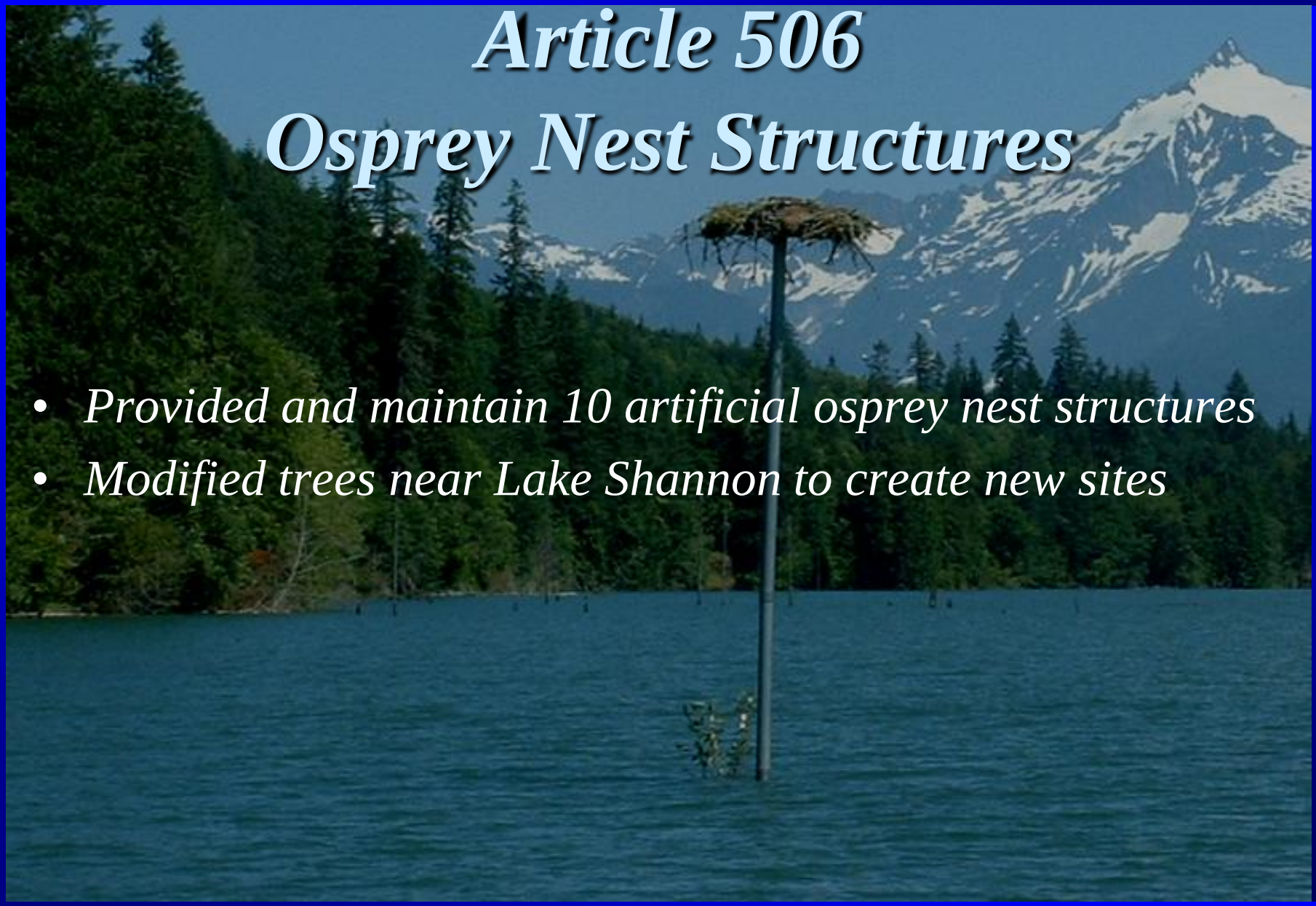


Burpee Hill

Article 505 – Riparian

- *Three Projects approved*

Article 506
Osprey Nest Structures



- *Provided and maintain 10 artificial osprey nest structures*
- *Modified trees near Lake Shannon to create new sites*

Article 507
Loon Floating Nest Platforms

- *Installed and maintain 3 floating platforms for common loon nesting*

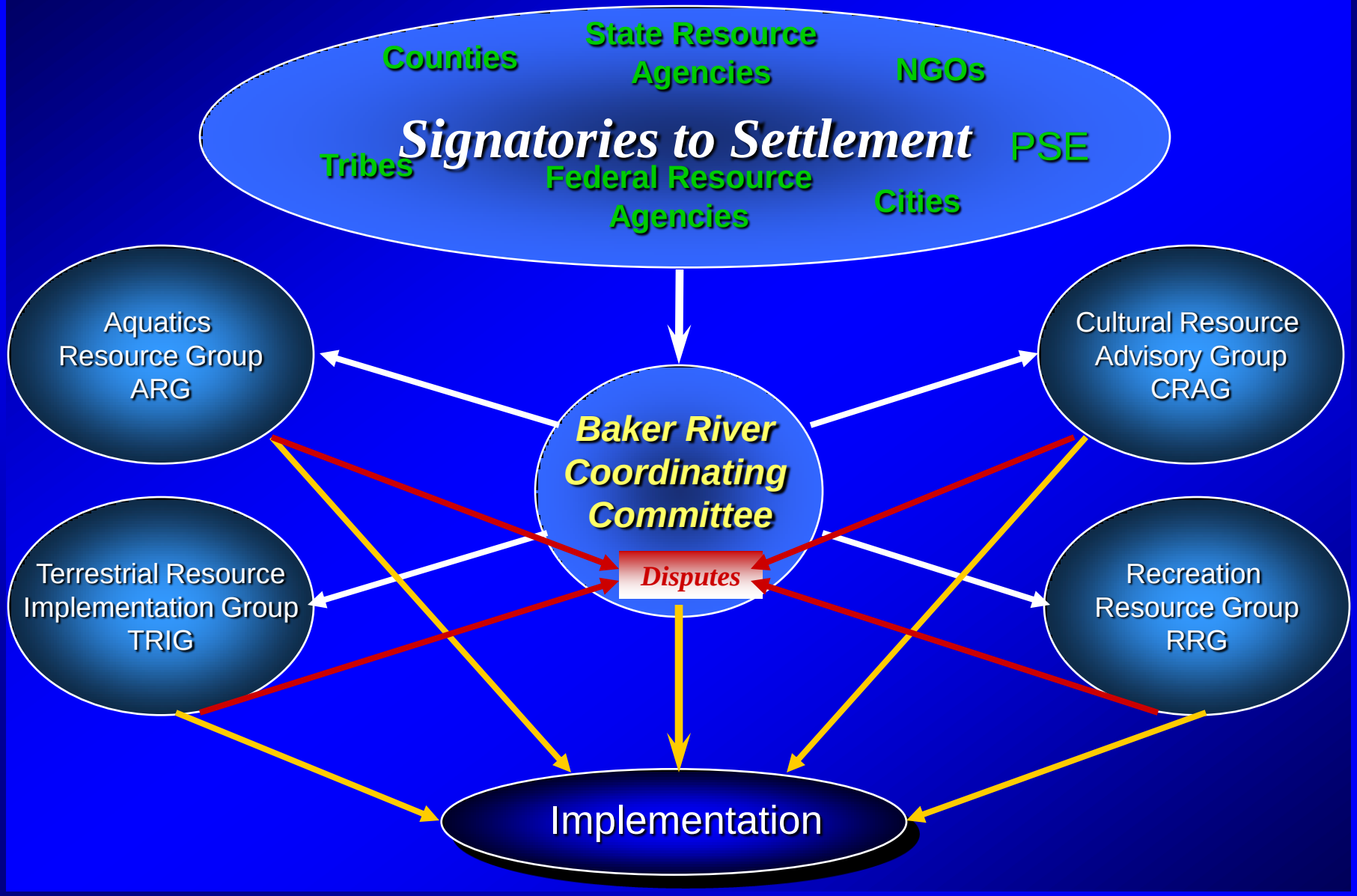
Article 510
Carex flava

Article 513
Bald Eagle Management Plans

Article 601
Create BRCC

- *Based on licensing working group/solution team model of collaboration among settling parties*
- *Creates topical subgroups TRIG, RRG, ARG, CRAG*
- *Implementation decision-making*
- *Tracks settlement implementation*
- *Resolves disputes*

BRCC Process



Questions?