Icicle Creek Comprehensive Water Resource Strategy

Policy Advisory Group Meeting
May 22, 2014

Presented by
Mike Kaputa, Chelan County
Tom Tebb, Dept of Ecology
Who’s Participating?

**Co-Conveners**

- Derek Sandison, Director  
  Office of Columbia River  
  Washington State Department of Ecology

- Keith Goehner, Commissioner  
  Chelan County Board of Commissioners

**Member Organizations and Representatives**

- **Conf. Tribes of the Yakama Nation**  
  Primary: Steve Parker  
  Alternate:

- **Conf. Tribes of the Colville Reservation**  
  Primary: Chuck Brushwood  
  Alternate: Casey Baldwin

- **U.S. Bureau of Reclamation**  
  Primary: Dawn Wiedmeier  
  Alternate: Steve Kolk

- **U.S. Fish and Wildlife Service**  
  Leavenworth National Fish Hatchery  
  Primary: Dave Irving  
  Alternate: Jim Craig

- **NOAA - Fisheries**  
  Primary: Dale Bambrick  
  Alternate: none

- **WA State Department of Fish and Wildlife**  
  Primary: Jim Brown  
  Alternate: Charity Davidson

- **WA State Department of Ecology**  
  Primary: Tom Tebb  
  Alternate: Bob Barwin

- **Icicle Creek Comprehensive Water Resource Strategy**

- **Icicle and Peshastin Irrigation District**  
  Primary: Tony Jantzer  
  Alternate: Dick Smithson

- **City of Leavenworth**  
  Primary: Joel Walinski  
  Alternate: TBD

- **Chelan County**  
  Primary: Keith Goehner  
  Alternate: Mike Kaputa

- **Cascade Orchard Irrigation Company**  
  Primary: Dan Wilkinson  
  Alternate: TBD

- **Wild Fish Conservancy**  
  Primary: Kurt Beardslee  
  Alternate: Mark Hersh

- **Icicle Creek Watershed Council**  
  Primary: Dick Rieman  
  Alternate: Buford Howell

- **Center for Environmental Law and Policy**  
  Representative: Rachel Osborn

- **Washington Water Trust**  
  Primary: Susan Adams  
  Alternate: Greg McLaughlin

- **U.S. Forest Service**  
  Primary: Jeff Rivera  
  Alternate: Bob Stoehr

- **Trout Unlimited - WA Water Project**  
  Primary: Lisa Pelly  
  Alternate: TBD

- **Agricultural Representative**  
  Mel Weythman

- **Agricultural Representative**  
  Daryl Harnden

- **City of Cashmere**  
  Primary: Bob Schmidt  
  Alternative: TBD
Vision Statement

“The Icicle Creek Work Group seeks to find collaborative solutions for water management within the Icicle Creek drainage to provide a suite of balanced benefits for existing and new domestic and agricultural uses, non-consumptive uses, fish, wildlife, and habitat while protecting treaty and non-treaty fishing interests.”
Importance of Icicle Creek

- Unique watershed with 7 Alpine Lakes and Wilderness Area
- Presence of Leavenworth National Fish Hatchery (LFNH)
- Supply source for Icicle-Peshastin Irrigation District
- Supply source for City of Leavenworth
- Key tribal fishery for Yakama Nation and Colville Tribes
- Significant environmental focus, including Icicle Watershed Council, Wild Fish Conservancy, Alpine Lakes Protection Society, TU, WA Water Trust, Center for Environmental Policy
- Area of historic litigation
Guiding Principles

1. Streamflow that:
   a. Provides passage
   b. Provides healthy habitat
   c. Serves channel formation function
   d. Meets aesthetic and water quality objectives
   e. Is resilient to climate change

2. Sustainable hatchery that:
   a. Provides healthy fish in adequate numbers
   b. Is resource efficient
   c. Significantly reduces phosphorus loading
   d. Has appropriately screened diversion(s)
   e. Does not impede fish passage

3. Tribal Treaty and federally-protected fishing/harvest rights are met at all times.
Guiding Principles, cont’d

4. Provide additional water to meet municipal and domestic demand.

5. Improved agricultural reliability that:
   a. Is operational
   b. Is flexible
   c. Decreases risk of drought impacts
   d. Is economically sustainable

6. Improves ecosystem health including protection and enhancement of aquatic and terrestrial habitat.

7. Comply with state and federal law.

8. Protect Non-Treaty Harvest

Metrics of Guiding Principles

The IWG is currently assigning quantitative metrics around each of the Guiding Principles.

- Instream Flow benefit targets for each of 5 reaches, based on biological, water availability, and economic factors

- Agricultural need is:
  - Increased reliability through automation.
  - Restoration of approximately 1,000 acre-feet associated with structural problems at Eight-Mile Lake

- Municipal / domestic need of 2,500 acre-feet through 2050

- Screening compliance at LNFH, IPID, and Cascade Orchards

- Resolve passage approach / operations for LNFH Structures and Boulder Field while preserving Tribal Fishery

- Define Habitat projects by RM and level of effort
Process Timeline

- OCR and Chelan County invited participants to attend in Fall 2012
- First Icicle Workgroup Meeting Held on December 2012 and established Guiding Principles
- Quarterly IWG Meetings in 2013 and 2014
- Steering Committee established in late 2013 to coordinate work
- Technical subcommittees formed on an as-needed, topical basis
- Goal of development of an Integrated Project List and proceeding to SEPA scoping in 2015
Integrated Project List

The Icicle Workgroup is currently conducting appraisal level evaluations on wide-ranging projects including:

- IPID Pump Exchange
- Alpine Lakes Optimization
- LNFH Groundwater Augmentation
- LNFH Effluent Pump Back
- 8-Mile Lake Restoration & Expansion
- Conservation Incentives
- Habitat & Passage Improvements
Project Timeline

- Icicle Creek and Icicle-Peshastin Creek Pump Exchange Appraisal Studies on target for fatal flaw and alternatives analysis by December 2014.

- Alpine Lakes Optimization Appraisal Study by December 2014

- Eight-Mile Lake Restoration and Expansion Appraisal Study by December 2014

- LNFH Groundwater Action Plan by August 2014

- LNFH Effluent Pump Back Conceptual Engineers Estimate and Water Quality Evaluation by January 2015

- Conservation Audit by October 2014

- Habitat and Passage Improvement Plan--TBD
How Can I Get More Information?

Website:  http://www.ecy.wa.gov/programs/wr/cwp/icicle.html

Icicle Workgroup Meeting Dates
August 15, 2014
November 21, 2014

Tom Tebb
Dept. of Ecology
509/574-3989

Mike Kaputa
Chelan County
Natural Resources Dept.
509/667-6584