

# Icicle Creek Workshop Meeting Minutes

December 4<sup>th</sup> and 5<sup>th</sup>, 2012      Leavenworth, WA

<b>Organization</b>	<b>Issue/Need</b>
Yakama Nation	Tribal Fisheries; tribal needs and rights for fishery; salmon recovery; habitat restoration; maintenance of the hatchery (the hatchery is a poor replacement for natural fishery, but the only alternative).
Icicle/Peshastin Irrigation District	Sustainable water supply; economical water supply; water conservation efforts; water storage; sustainable water delivery methods; consistent water supply; willing to partner AS LONG AS deliveries and cost are not affected.
Chelan County Department of Natural Resources	Integrated project list; decision making forum; long term water security for growth and agriculture; maintain water rights.
Wild Fish Conservancy	Maintain adequate water in stream for the ecology of the stream (below irrigation diversion to LNFH discharge; natural hydrograph; compliance with state and federal laws for fish passage, screening, withdrawals, discharges, and ESA); free flowing river; maintain/restore wilderness area.
NOAA Fisheries	Steelhead passage (boulder field, screening at intake, tribal trust, enhancing habitat); hatchery meets its obligations, adherence to 5-year plan.
Land Owner / Icicle Creek Watershed Council	Get the natural river back (assurance water in river will not dry up; the channel is NOT the river; correct terminology); ownership & stewardship of LNFH; feds taking of water; restore habitat downstream of hatchery; address recreation.
Confederated Tribes of the Colville	Harvesting fish; sustainable operation of the hatchery.
U.S Fish & Wildlife Service	Mitigation for Grand Coulee Dam; Tribal trust; U.S. v Oregon responsibilities; sensitive to Icicle Creek (water-in; water-out); sound/reliable intake system that is environmentally compliant; responsible & effective use of water; improve aging infrastructure; water conservation; fish production; water re-use; funding limitations.
Cascade Orchard Irrigation Company	Deliver clean water; efficient deliveries; agreement with BOR regarding intake; environmentally compliant; structurally sound; BOR honor agreement (Status of Intake? Letter from COIC to BOR?); recharge aquifer; discharge to icicle creek instead of to the Wenatchee; protect/limit water use; water conservation.
Trout Unlimited	Explore collaborative projects; in-stream flow; fish passage; overall, sustainable water management plan; recreational fishery.
City of Leavenworth	Maintain water right for municipal users, even with a water conservation rate structure and use policy, City Water Utility will need additional water rights to provide municipal water to users within the next 20 – 40 years; protect Icicle Creek.

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Washington Water Trust	Sustainable flows for fish and river; balance fish flows + human + tribal needs.
Washington Department of Fish & Wildlife	Resolve hatchery issues (passage beyond boulder field, water & disease control, tribal fisheries, recreational fisheries); hatchery/irrigation screened diversions; public access to Icicle Creek; increased development (increased storage, agricultural & residential, wildlife habitat).
Bureau of Reclamation	Continued operation of hatchery; water use & conservation; harmonious/cooperative relationships.
Center for Environmental Law and Policy	Managing water well to benefit in-stream flows (environmentally sound, efficient use, metering, guarantee flows in Icicle Creek, quantity needs of water (verify 20 cfs), fish passage at hatchery structures, canal is not part of river, climate change effects on water/hydrology, honoring obligations to tribes).
Department of Ecology	Water resources (permitting responsibility); resolve large needs in basin (fisheries, water supply, aging infrastructure, normative flows); seek innovative and sustainable settlements, permitting, framework(s); develop a structure as we move forward; align resources with plan and expectations.

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The comprehensive water plan for Icicle Creek must include the following 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. Solutions that are climate change resilient.
  
2. Sustainable hatchery that:
  - a. Provides healthy fish in adequate numbers,
  - b. Is highly efficient,
  - c. Significantly reduces phosphorus loading,
  - d. Has appropriately screened diversion(s),
  
3. Tribal Treaty Rights are met at all times (harvest).
  
4. Municipal and domestic demand.
  
5. Improved agricultural reliability that is:
  - a. Operational,
  - b. Flexible,
  - c. Decreases risk of drought impacts,
  - d. Economically sustainable.
  
6. Improves ecosystem health.
  
7. Comply with state and federal law.

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<b>Problem</b>	<b>Scope/Parameters (e.g. location &amp; quantity)</b>	<b>Studies</b>	<b>Tools</b>
Inadequate Flow	<p>RM 0 to 2.7 (68,000 ac-ft?). WAC 173-545 flows on the order of 267 cfs to 550 cfs (Aug-Oct).</p> <p>RM 2.7 to 4.5 (3,600 + IFIM ac-ft?); WAC 173-545 flows on the order of 267 cfs to 550 cfs (Aug-Mar).</p> <p>RM 4.5 to 5.8 (? ac-ft)</p>	<p>IFIM (estimated completion July 2013); water re-use pilot LNFH (2013 – 2018?), 401 cert, BiOps (Bull Trout, New NOAA). Boulder field study (estimated completion April 2013).</p>	1, 2, 3, 4, 5, and 8.
Habitat improvements	<p>RM 0 – RM 2.7 RM 2.7 – RM 4.5 RM 4.5 and above</p>	<p>RTT Biological strategy revisions; IFIM (estimated completion July 2013). USFS info.</p>	7
Fish Passage, Impediments, Distribution, and Movement Issues	<p>Structure 5 @ RM 2.7 (movement) Structure 2 @ RM 3.7 (impediment and distribution) Hatchery Intake @ RM 4.5 (impediment) Boulder field @ RM 5.6 (impediment)</p>	<p>Boulder field study (estimated completion April 2013). 401 Cert studies. Wild Fish Conservancy studies. US F&amp;W Service studies.</p>	6
Screening	<p>LNFH/COIC Intake structure; Icicle/Peshastin ID intake.</p>	<p>Studies complete per WDFW, USFWS, and NOAA criteria.</p>	7
Municipal and domestic needs	<p>0.1-0.5 cfs (73-365 ac-ft) in reserve through 2025. City of Leavenworth 800 ac-ft need. Municipal/domestic 1,400 ac-ft need through 2050.</p>	<p>Established in or extrapolated from existing planning documents.</p>	1, 2, 3, 4, 5.

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Agricultural needs	Restore 1,000 ac-ft additional storage, increased automation and reliability.	Continue the optimization storage study. Perform a reservoir refill and climate change resiliency study.	1, 2, 3, 4, and 5.

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Tools must meet the guiding principles and include the following:

1. Conservation (metering, demand-side strategies)
2. Pump exchange/diversion changes
3. Reoperation / optimization of existing storage
4. New storage (surface or aquifer)
5. Water banking / Water markets
6. Fish passage improvements
7. Habitat and screening improvements
8. Hatchery water use/re-use

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Next steps:

1. Upcoming meetings
  - a. Dec. 13, 2012 – Columbia River Policy Advisory Group – Icicle Creek/Wenatchee 2050 update.
  - b. Jan. 2013 – Wenatchee Ag Caucus (exact date TBD).
  - c. Jan. 23, 2013 – Wenatchee Watershed Planning Unit Meeting – Icicle Creek/Wenatchee 2050 update.
  - d. Feb. 6, 2013 - 2<sup>nd</sup> Icicle Creek Workshop (tentative).
2. Develop a public involvement and stakeholder integration strategy.
3. Match conceptual tools with specific projects to develop integrated project list.
4. SEPA/NEPA scoping and programmatic approach.