



Icicle Creek Comprehensive Water Resources Strategy Workgroup Presentation

Workshop #5

July 8, 2013

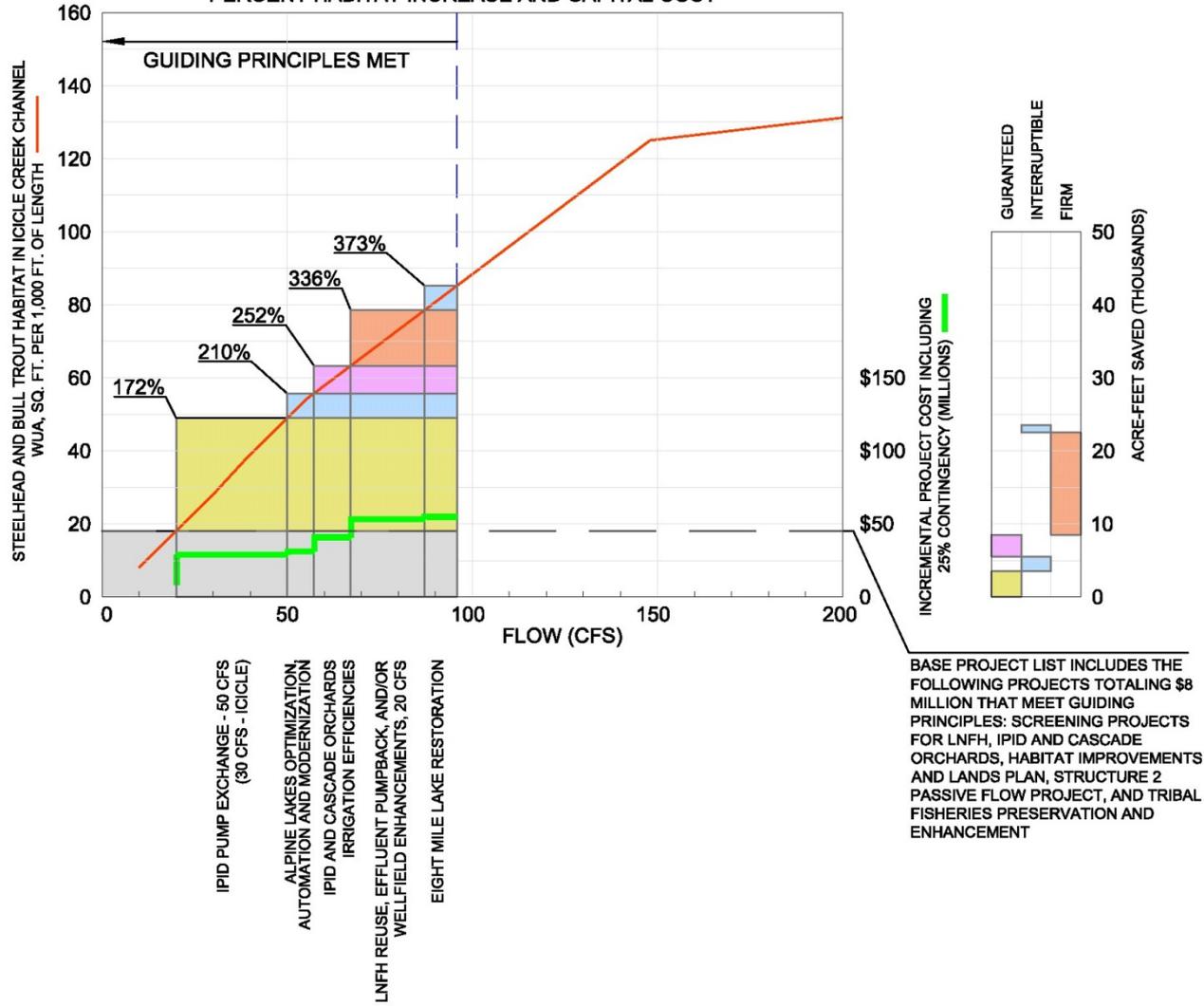
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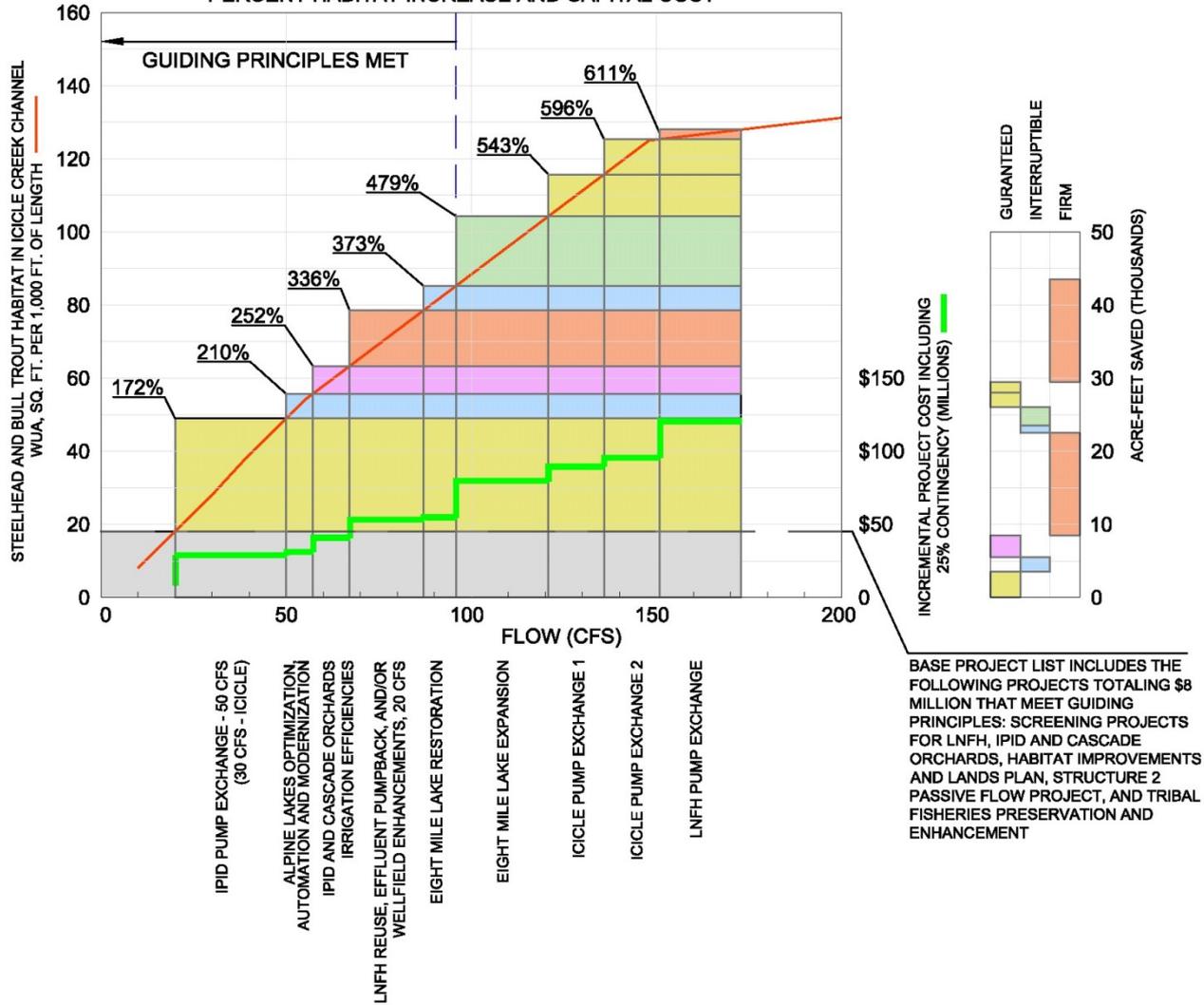
Summary

1. Integrated Project List take away assignments
2. External Communication Update
3. Transition to Public Engagement Strategy
4. Steering Committee Options
5. Next Steps

WENATCHEE 2050 INTEGRATED PROJECT LIST
 PERCENT HABITAT INCREASE AND CAPITAL COST



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PERCENT HABITAT INCREASE AND CAPITAL COST



Integrated Project List (Base Package)

1. Icicle-Peshastin Irrigation District Pump Exchange Project
2. Alpine Lakes Optimization, Modernization, and Automation
3. Icicle, Peshastin, and Cascade Orchards Irrigation Efficiencies
4. Leavenworth National Fish Hatchery Conservation Improvements
5. Eight-Mile Lake Restoration

Integrated Project List (Continued)

6. Habitat Improvements in RM 2.7-4.5, Wenatchee Lands Plan
7. Rehabilitate Leavenworth Hatchery Intake, Passive Flow at Structure 2, Boulder Field Construction Project
8. Leavenworth National Fish Hatchery / Cascade Orchards Screening Improvements, Icicle-Peshastin Irrigation District Screening
9. Tribal Fisheries Preservation and Enhancement
10. Instream Flow Amendment

Icicle Comprehensive Water Resources Strategy

IRRIGATION DISTRICT EFFICIENCIES PROJECT

DRAFT

PROJECT DESCRIPTION

Update both of the 1993 Icicle and Peshastin Irrigation Districts' Management Plans and evaluate irrigation efficiency opportunities for Icicle and Peshastin Irrigation Districts and Cascade Orchards Irrigation Company. Implement infrastructure improvements such as canal lining, piping and on-farm efficiencies.

Lead Entity to Implement: IID, PID and COIC
Estimated Project Cost: \$7.7 Million

GUIDING PRINCIPLES

- Instream flow (GP #1)
- Improved Agricultural Reliability (GP #5)

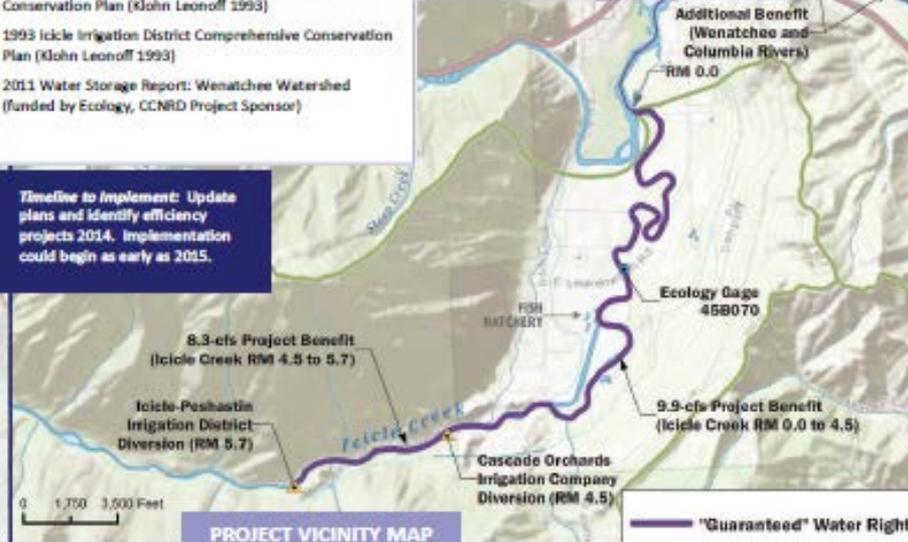
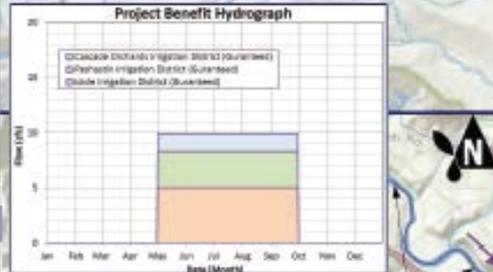
EXISTING STUDIES

- 1993 Peshastin Irrigation District Comprehensive Conservation Plan (John Leonoff 1993)
- 1993 Icicle Irrigation District Comprehensive Conservation Plan (John Leonoff 1993)
- 2011 Water Storage Report: Wenatchee Watershed (funded by Ecology, CCNRD Project Sponsor)

Timeline to Implement: Update plans and identify efficiency projects 2014. Implementation could begin as early as 2015.

PROJECT BENEFIT

Instream Flow benefits are based on preliminary estimates. IID presumes a 5-cfs (1,500 ac-ft) over 150 days; PID presumes 3.3-cfs (1,000 ac-ft); COIC presumes 1.6-cfs (500 ac-ft). All benefit locations will be from RM 0.0 to 5.7 in Icicle Creek with benefits continuing down the mainstem Wenatchee River and Columbia River.



Icicle Comprehensive Water Resources Strategy

ALPINE LAKES OPTIMIZATION, MODERNIZATION AND AUTOMATION PROJECT

DRAFT

PROJECT DESCRIPTION

Six alpine lakes are used to augment water supply for Icicle-Peshastin Irrigation Districts and the US Fish and Wildlife Service Leavenworth National Fish Hatchery. These include: Upper Snow, Nada, Coldchuck, Eightmile, Kionaqua and Square Lakes which are all located in the Alpine Lakes Wilderness Area. Valves on the lakes are operated manually and are accessed by hiking in or by helicopter; therefore, the valve openings are set infrequently and the discharge from the lakes does not always match demand for water.

The purpose of this project is to manage release from these lakes based on lake yields and changing conditions in a way that would optimize the water supply in the basin and be coordinated among all of the users. Structures at these lakes would be upgraded and improved with automation so release levels could be changed frequently with remote operation and fine-tuned as needed.

Lead Entity to Implement: Icicle-Peshastin Irrigation District
Estimated Project Cost: \$1.1 Million

PROJECT BENEFIT

Instream flow benefits are estimated at 14.57 cfs (2,163 ac-ft) over 75 days to Icicle Creek. The location of benefit would be from each lake being automated to the mouth of Icicle Creek and downstream (flow benefits to mainstem Wenatchee and Columbia as well).

- Improves agricultural reliability and provides more operational flexibility.
- Improves LNFH management by providing more operational flexibility in water use.

GUIDING PRINCIPLES

- Instream flow (GP #1)
- Sustainable Hatchery (GP #2)
- Improved agricultural reliability (GP #5).

POTENTIAL ISSUES

Working in wilderness, remote access/construction feasibility, remote access/telemetry for automation. Need for long-term management (development of an Icicle Management Team) coordinated with IID/PID, LNFH and possible City of Leavenworth if all lakes are managed together.

Studies Needed:

- Lake Re-Bill Study
- Lake Release Management Study

Timeline to Implement:

Studies may be complete in 2014

EXISTING STUDIES

- 2005 Grant applications to determine lake yields (CCNRD Project Sponsor, not implemented), but project scope developed
- 2006 Wenatchee Watershed Plan and Multi-Purpose Water Storage Assessment (funded by Ecology, CCNRD Lead Agency) first identified this project as an alternative.
- 2007 Icicle Creek Preliminary Draft Needs and Alternatives Analysis (funded by Ecology, CCNRD Project Sponsor)
- 2011 Water Storage Report – Wenatchee Watershed: provided an analysis of Snow Lakes along with preliminary opportunities for irrigation districts (funded by Ecology, CCNRD Project Sponsor)

External Communication Update

- UC Salmon Recovery Board follow-up
- US Forest Service
- Env. Caucus (Seattle) follow-up
- Growers and grower groups
- Legislative caucus
- Chelan-Douglas Land Trust, TPL, TWS (Lands Plan)
- Cascadia Cons District (IEGP)
- Economic development interests
- Broader community
- Others (Wenatchee integration)

Needs

- Community outreach
- Stakeholder input
- Regular guidance for staff group

Staff recommendation

- Outreach and input via SEPA scoping
- Establish steering committee

Alternatives

- Renewed clarity around guiding principles
- Wait for additional state-of-science work products

SEPA -Purpose

*Ensure environmental values considered by state/local agencies in decision making process when evaluating **proposals***

Directs agencies to:

- Consider before committing
- Evaluate impacts + alternatives + mitigation
- Prepare concise environmental documents
- Initiate early to avoid delay/duplication
- Integrate SEPA so procedures run concurrently rather than consecutively
- Encourage public involvement

SEPA –Why Now? (Policy Question)

- Directed to integrate at earliest possible time (WAC 197-11-055)
- Required before any agency commits to Course of Action for a proposal
- Ensures planning and decisions reflect environmental values
- Avoid delays later in process
- Resolve potential problems

SEPA –Why Now? (Practical)

- Substantial progress already made by IWG
- Enable prioritization + criteria development
- Flesh-out project planning
- Identify alternatives
- Identify enduring concerns; preempt others
- Identify whether sufficient environmental documentation exists
- Formalizes Coordination

Example: IPID pumpback comments

- Link the project to Icicle Creek and potential benefits there (RTT, BPA Targeted, Jan 2013)
- Separate the Icicle project from the Peshastin project. Peshastin pump should be designed to take no more than 10-12 cfs. Must include O&M plan (Trib Committee, SRFB/Trib Proposal, June 2013)
- Until some certainty of where O&M funding is going to be coming from, the county may want to consider not submitting this project at this time (RTT, SRFB/Trib Proposal, June 2013)

SEPA –The Proposal

- Proposal = Develop an Icicle Integrated Plan to meet Guiding Principles for Instream and Out-of-Stream Uses
 - Define all project types in a single document
 - Provides project specificity and endorsement where it exists
 - Provides environmental review for all projects at once vice separately
 - Requires assembling existing environmental documentation
 - Use checklist to tie Proposal to Guiding Principles
 - Discloses alternative ideas / projects

Example Project Description in SEPA Scoping

Description: Icicle-Peshastin Irrigation District Pump Exchange moves tributary demand to Wenatchee River.

Status: Anchor QEA Appraisal Study for IPID at Dryden, Conceptual for Icicle at Safeway, TU Alternatives Analysis

Alternative Endorsement: IPID currently prefers Dryden alternative (50 cfs for 8 weeks, 30 cfs to Icicle, 20 cfs to Peshastin)

Project Cost: \$16.5 M (O&M not paid by IPID)

Icicle Project Benefit: 30 cfs

Peshastin Project Benefit: 20 cfs

SEPA -Process

- Pre-Scoping
 - Stakeholder/ agency meetings
 - Identify relevant agencies
 - Identify any exemptions (Rule and Statue)
 - Identify permits
 - Identify Lead Agency (or Co-Leads)
 - Assemble environmental documents

- Complete Checklist
- Public Notice /Open House/ Comment Period
- Evaluate Checklist
 - Is there sufficient information?
 - Respond to comments
- Threshold Determination
 - DNS/MDNS
 - DS/Scoping (begin EIS process)

SEPA –Public Process

- Initiating SEPA early enables Guiding Principles to reach public; increasing likelihood for support
- Primary engagement is Public Notice, Open House, Comment Period under SEPA
- Supported by website and Scoping pre-meetings

SEPA –Work Products

- Coordinate with IWG
- Scoping pre-meetings
- Identify Lead Agency/ Co-Lead
- Interagency Agreement (OCR-CCDNR)
- Draft DS
- Assemble environmental documents
- Complete Checklist
- Public Outreach
 - Public notice
 - Website
 - Comment forms
 - Open House
 - Responsiveness Summary
- Recommendations to Lead Agency

SEPA –Timeline

Future Workgroup Function

- Define workgroup function moving forward
 - Maintain?
 - Steering Committee?
 - Address Other Stakeholder Needs?
- Staff Recommendation: Identify Steering Committee
 - 8-members
 - Nominations / Proposals from IWG
 - May include sub-committees

Steering Committee

- Attend regular meetings
- Provide regular feedback and guidance to OCR and Chelan County
- Develop financial strategy
- Ensure stewardship of all guiding principles
- Shape agendas, formulate recommendations for quarterly Workgroup meetings
- Convene smaller working groups on special topics

Icicle Workgroup (Current)

- 2-4 meetings per year
- Consider Steering Committee Recommendations
- Coordinate with Steering Committee
- Discussion of Issues Openly / Transparency
- Status updates from
 - Litigants
 - Project Implementers
 - Project Funders
- Provide recommendations to SEPA officials

Questions?



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Project Descriptions

IPID Pump Exchange

Description: Icicle-Peshastin Pump Exchange at Dryden (50 cfs for 8 weeks, 30 cfs to Icicle, 20 cfs to Peshastin)

Project Cost: \$16.5 M

Project Benefit: 30 cfs / 3,326 ac-ft

Alpine Lakes Optimization, Modernization, and Automation

Description: Automate and optimize releases of the 6 Alpine Lakes (flow benefit estimated over 75 days)

Project Cost: \$1.1 M

Project Benefit: 14.57 cfs / 2,163 ac-ft

Icicle, Peshastin, and Cascade Orchards Irrigation Efficiencies

Description: Update Irrigation Comprehensive Plans and fund efficiency projects (flow benefit estimated over 150 days)

Project Cost: \$7.7 M

Project Benefit: 10 cfs / 3,000 ac-ft

Leavenworth National Fish Hatchery Conservation Improvements

Description: Combination of on-site reuse, effluent pump-back, and/or wellfield enhancements.

Project Cost: \$10 M

Project Benefit: 20 cfs / 14,000 ac-ft

Eight-Mile Lake Restoration

Description: Restore Eight-Mile Lake to normal permitted pool elevation

Project Cost: \$1.2 M

Project Benefit: 8.7 cfs / 1,300 ac-ft

Habitat improvements in RM 2.7-4.5, Wenatchee Lands Plan

Description: Riparian plantings, engineering log jams, conservation easements, and other habitat projects. Land acquisition as part of the Wenatchee Lands Plan in Icicle Basin

Project Cost: \$2.5 M

Project Benefit: 2.7 miles / 2,000 acres

Rehabilitate Leavenworth Hatchery Intake, Passive Flow at Structure 2, Boulder Field Construction Project

Description: Replace dilapidated sections of intake piping, passive flow at Structure 2, and improve passage at Boulder Field

Project Cost: \$ 6.0 M

Project Benefit: Improve fish passage and hatchery operation

Leavenworth National Fish Hatchery / Cascade Orchards Screening Improvements, Icicle-Peshastin Irrigation District Screening

Description: Improve existing screens to current standards

Project Cost: \$ 3.6 M

Project Benefit: Improve fish passage and hatchery operation

Tribal Fisheries Preservation and Enhancement

Description: Study/Monitor existing fishery, initial investments in access and amenities, adaptive management plan for future.

Project Cost: \$ 0.5 M

Project Benefit: Maintain cultural fishery

Instream Flow Rule Amendment

Description: Modify WAC 173-545 Icicle Reserve from interim level of 0.1 cfs to final level of 0.5 cfs

Project Cost: \$ 50 K

Project Benefit: 0.4 cfs / 292 ac-ft

Questions?

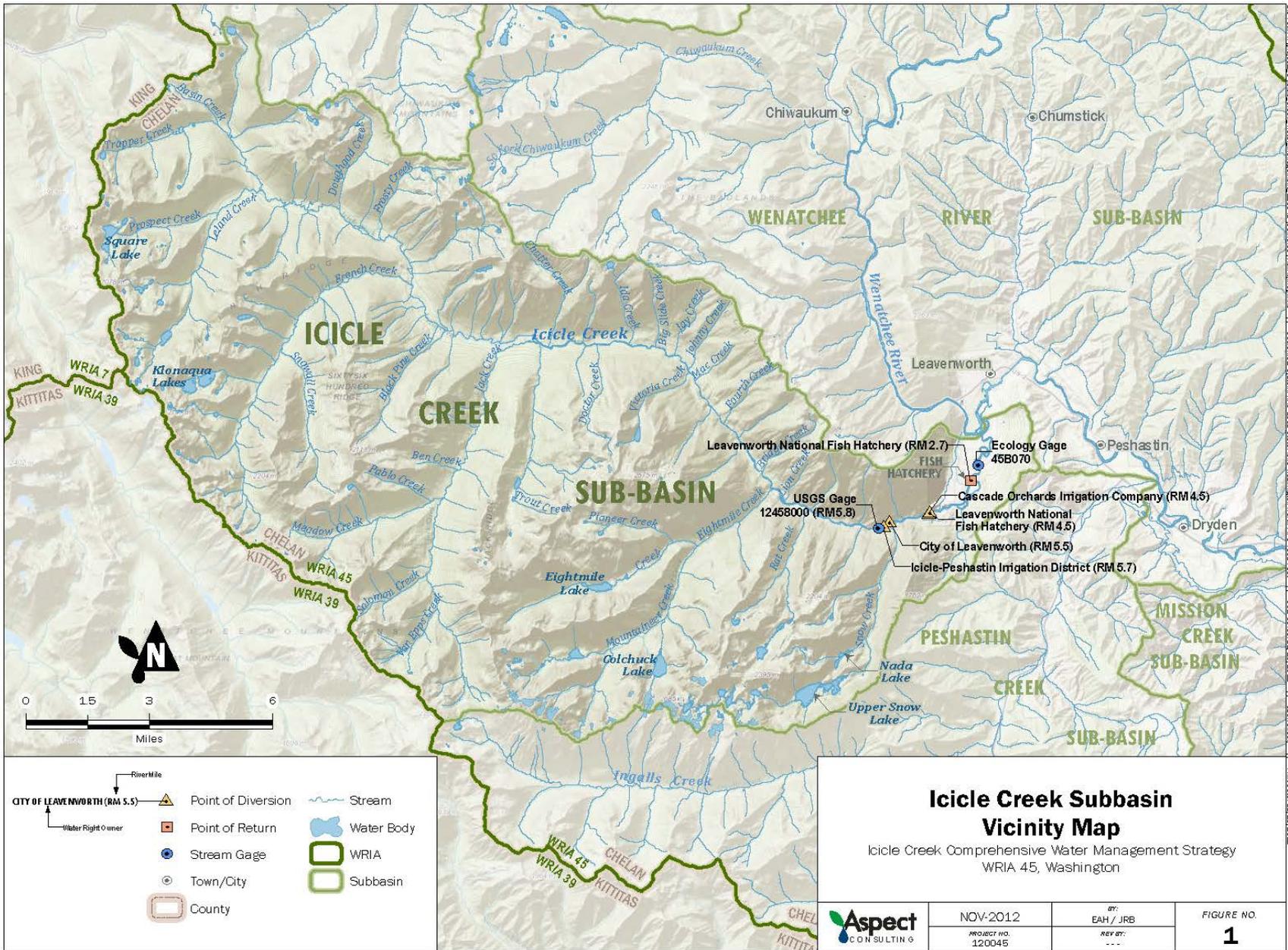


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Letters

- Center for Environmental Law and Policy
- Wild Fish Conservancy, Icicle Creek Watershed Council
- Icicle Peshastin Irrigation District