

WATER TRANSFER WORKING GROUP PROJECT DESCRIPTION

APPLICATION NO./COURT CLAIM NO. Pending		
APPLICANT NAME Timothy R. Strand and Laurie A. Clark	CONTACT NAME Kelsey Collins	TELEPHONE NO. 509-575-2640
WATER RIGHT HOLDER'S NAME (if different) Timothy R. Strand and Laurie A. Clark		EMAIL KESI461@ECY.WA.GOV

DATE OF APPLICATION pending	PRIORITY DATE December 11, 2018; mitigated by trust water right with June 30, 1873 priority
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WATER SOURCE: Unnamed spring (tributary to Salmon La Sac Creek)	CROP: N/A - Indoor Use Only
INSTANTANEOUS QUANTITY: 0.02 cfs	ANNUAL QUANTITY: 0.02 acre-feet (consumptive use)
PERIOD OF USE: Continuous – year round	
PLACE OF USE: SE $\frac{1}{4}$ SW $\frac{1}{4}$ Section 9 T. 22 N., R. 14 E.W.M.	PURPOSE OF USE: Single domestic for two cabins
IRRIGATION METHOD: N/A	

CONSUMPTIVE USE CALCULATION:

New Mitigated Water Right - Ecology has determined (Ecology 2006) that the average seasonal recreational cabin uses approximately 100 gallons per day (gpd) or 0.03 ac-ft/yr for occupancy up to 105 days per year. Assuming 30 percent of total use is consumptive; each cabin would require up to 0.01 ac-ft/yr. Therefore, for the two unpermitted cabins, 0.02 ac-ft/yr will be required to fully mitigate the new water right.

NARRATIVE DESCRIPTION OF PROJECT:

As directed by Senate Bill 6861, Ecology is providing water banking opportunities for Yakima Basin Cabin Owners with junior claims (post-1905) to purchase senior mitigation credits to offset the consumptive use of water during years of rationing by the US Bureau of Reclamation.

Ecology proposes to offset 0.02 ac-ft/yr of consumptive use with mitigation credits from Trust Water Right Nos. CS4-00195CTCL(A)sb6, CS4-00195CTCL(B)sb6, and CS4-00195CTCL(C)sb6 – collectively known as Bruton Ditch. The Bruton Ditch project was presented to the WTWG on September 14, 2009.

Of the 60 ac-ft/yr currently assigned to the USBR-Ecology Exchange Contract (Contract No. 09XX101700) under the Bruton Ditch project, up to 0.02 ac-ft will be allocated to the subject application to address impacts to TWSA.

PROPOSED USBR-ECOLOGY CONTRACT ASSIGNMENT RATIONALE

Diversion of surface water during rationing years will impact flows in the Yakima River when TWSA irrigation supply period is in effect.

IMPACT ANALYSIS

The point of diversion is located on a spring which feeds an unnamed tributary of Salmon La Sac Creek before flowing into the Cle Elum River. The diversion consists of a pvc pipe placed at the spring discharge. The diverted water is transported approximately two thirds mile via gravity flow in the pipe where it delivers water to the Strand and Clark cabins. (The balance of the water diverted from the spring is delivered to a cabin and pond under Surface Water Court Claim No. 00983 (S4-83003-J), neither of which are proposed for mitigation under this application). Domestic water provided to the Strand and Clark cabins which is not consumptively used is discharged to individual on-site drainfields, returning to the Cle Elum River upstream of its confluence with Salmon La Sac Creek. The diversion to the two cabins will be measured with flow meters. A flow meter will be installed in 2019, prior to reliance on mitigation water.

The Cle Elum River provides spawning and rearing habitat for ESA-listed species, including Bull Trout and Chinook Salmon. However, the total diversion volume – defined as the total Qa normalized over a 6-month period – is less than 0.1 gpm, below 1 percent of seasonal low flow of the Salmon La Sac and Cle Elum Rivers; therefore, no ESA consultation has been conducted.

Low-flow stream gaging conducted in 2015 indicate seasonal low-flow discharge rate of 76.19 cfs in the Cle Elum River.

CONCLUSION

During rationing years, the availability of water to satisfy TWSA in the Yakima River will not be impacted if up to 0.02 ac-ft were held and released from Cle Elum Lake. Assignment of 0.02 ac-ft would be in compliance with the consultation threshold in paragraph 18(b) of the USBR-Ecology contract.

REFERENCES

Ecology 2011. Columbia River Instream Atlas Project, Publication Number: 11-12-015. Prepared by the Washington Department of Fish and Wildlife. September 2011.

Reclamation, 2005. Phase I Assessment Report, Storage Dam Fish Passage Study, Yakima Project, Washington. Revised April 2005

WDFW. SalmonScape. <http://wdfw.wa.gov/mapping/salmonscape/index.html>.

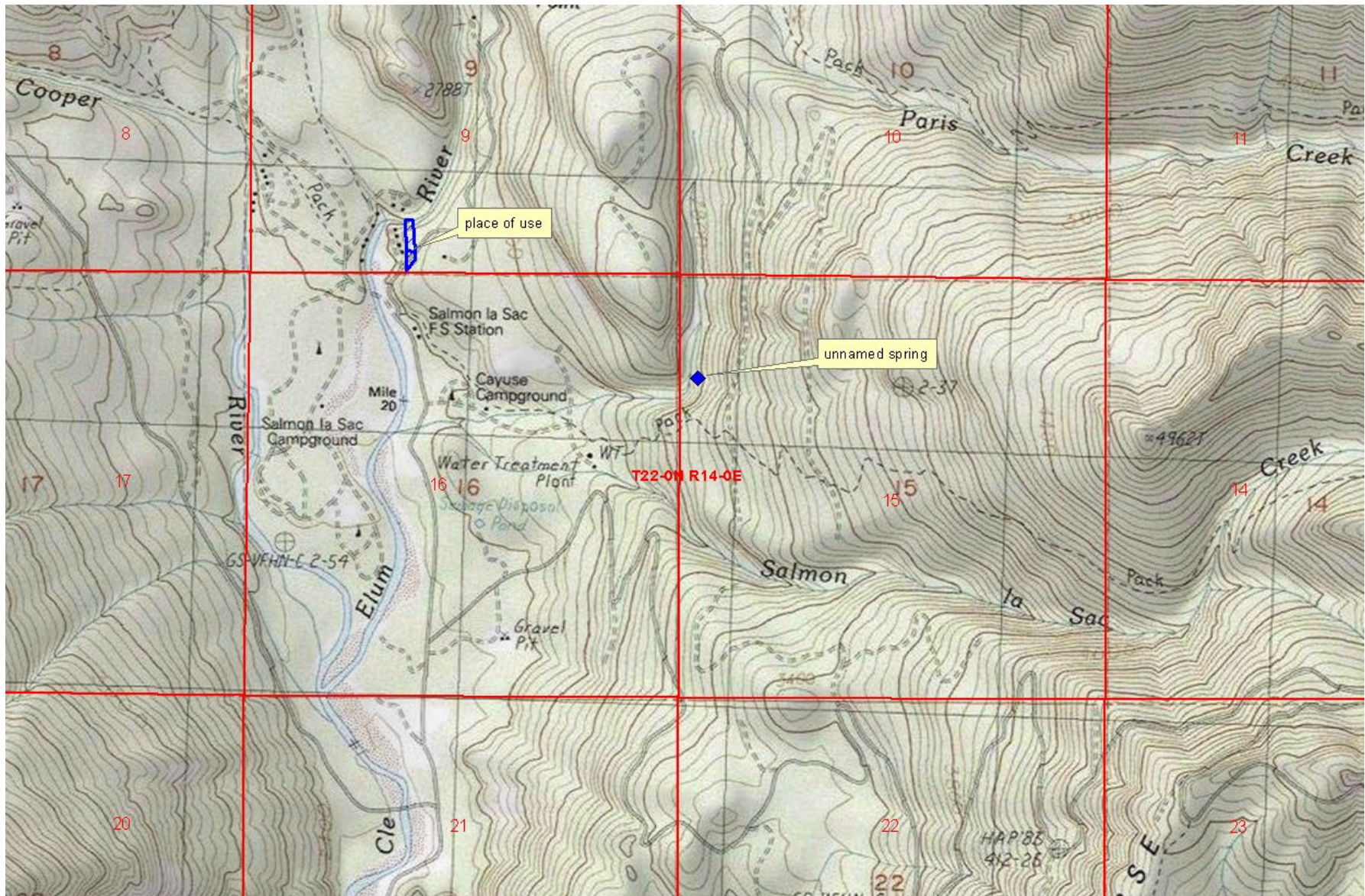


Figure 1

Aspect Consulting

01/16/2019

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Tim Strand and Laurie Clark Water Right Application

Ecology's Cabin Owner Mitigation Program

Kittitas County, WA