

**WATER TRANSFER WORKING GROUP PROJECT DESCRIPTION**

APPLICATION NO./COURT CLAIM NO. CS4-02255(A)CTCL@2, CS4-02255(B)CTCL@2, and CS4-02255(C)CTCL@2		
APPLICANT NAME SwiftWater Ranch LLC	CONTACT NAME Ingrid Ekstrom, Ecology	TELEPHONE NO. (509) 575-2396
WATER RIGHT HOLDER'S NAME (if different) Swift Water Ranch LLC		EMAIL ieks461@ecy.wa.gov

DATE OF APPLICATION July 30, 2009	PRIORITY DATE June 30, 1890
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WATER SOURCE: Teanaway River	CROP: Pasture
INSTANTANEOUS QUANTITY: A=0.286cfs; B=0.04cfs; C=0.034cfs; Total = 0.36cfs	ANNUAL QUANTITY: A= 78.29afy; B= 10.8afy; C=9.11afy; Total = 98.2afy (as confirmed in 2001 CFO)
PERIOD OF USE: May 1 – September 15	
PLACE OF USE: (A) and (C): Within that portion of the SW <sup>1</sup> / <sub>4</sub> SW <sup>1</sup> / <sub>4</sub> of Section 26, T20N, R16EWM lying south of State Route 970. (B): Within that portion of the N <sup>1</sup> / <sub>2</sub> NE <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> of Section 34, T20N, R16EWM, lying northerly of the Teanaway River and northerly of a pond located on the property.	PURPOSE OF USE: A = 77.3afy for irrigation of 14.32ac & 0.99afy for stock water B = 10.8 afy for irrigation of 2 acres C = 9.1afy for irrigation of 1.68ac & 0.01afy for stock water Total: irrigation of 18acres and stock water
IRRIGATION METHOD: Prior to 2001: flood irrigation 2003, 2004, and 2008: wheel line with 5/32-inch impact sprinklers	

<p>CONSUMPTIVE USE CALCULATION:</p> <p>Total use as recorded on the flow meter at the diversion for 2008 season is 32.402 acre-ft (af). The total requirement for stock is 0.016 af (4 horse requiring 12gpd each). The difference (32.386 af ) was used for irrigation of 18 acres.</p> <p>The irrigation requirement for the Cle Elum climate station for pasture/turf from the Washington Irrigation Guide is 18.11 in/yr or 27.165 afy for 18 acres. The application efficiency was calculated as: %Ea = (crop irrigation requirement ÷ total water use) = (27.165af ÷ 32.386af) = 83.9%</p> <p>Typical evaporative losses (%Evap) for wheel line sprinkler systems is 10%</p> <p>%Consumptive Use = %Ea + %Evap = (83.9% + 10%) = 93.9%</p> <p>Irrigation Consumptive use was calculated as:</p> <p>Total Irrigation CU = (%Consumptive Use x Total water use) = 0.939 x 32.386af = 30.404 af</p> <p>The stock water use (0.016af) is considered to be entirely consumptive.</p> <p>Therefore, the total consumptive use the three rights totals to 30.42 af. The total consumptive use</p>
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for each right is: (A) = 24.20af; (B) = 3.38af; and (C) = 2.84af.

NARRATIVE DESCRIPTION OF PROJECT:

Swiftwater Ranch submitted three trust water right applications in July 2009 proposing to transfer water rights confirmed under Court Claim 2255 as changed under Change Authorization Nos. CS4-YRB03CC2255(A, B, & C) within Subbasin 3 (Teaway River). The three rights were confirmed the quantities listed above and were used for irrigation of an 18 acre field and stock watering between State Route 970 and the Teaway River.

Total water use was determined from flow meter data for the pumped diversion, available for 2008 and totaling 32.40afy, with = 25.78afy; B= 3.60afy; and C=3.02afy. The quantities reflect wheel line impact sprinkler irrigation served by a 10hp centrifugal pump at the diversion, and are less than the quantities confirmed by the Court in 2001 CFO based on a flood irrigation system. The wheel line sprinkler system was used to irrigate 18 acres within the place of use during 2003, 2004 and 2008.

The point of diversion for all three rights is downstream of the places of use and downstream of the location where the irrigation return flows historically entered the Teaway River. As a result, there is no primary reach, and the secondary reach begins at the historic point of diversion located in NE<sup>1</sup>/<sub>4</sub>NE<sup>1</sup>/<sub>4</sub> of Section 34, T. 20N, R16E. The secondary reach would benefit from the consumptive use only, and instream flow for the secondary reach for the three rights combined would be as follows:

	June	July	August	September	Total
Average Qi (cfs)	0.094	0.178	0.131	0.196	---
Qa (af)	5.62	10.92	8.05	5.83	30.42

For (A):

	June	July	August	September	Total
Average Qi (cfs)	0.075	0.141	0.104	0.156	---
Qa (af)	4.47	8.69	6.40	4.64	24.20

For (B):

	June	July	August	September	Total
Average Qi (cfs)	0.010	0.020	0.015	0.022	---
Qa (af)	0.62	1.21	0.90	0.65	3.38

For (C):

	June	July	August	September	Total
Average Qi (cfs)	0.009	0.017	0.012	0.018	---
Qa (af)	0.53	1.02	0.75	0.54	2.84

Swiftwater Ranch LLC indicated that it intends to use the three rights to offset new water uses in Upper Kittitas County under WAC 173-539A. The new uses may include water for a new 56-lot development along the Teaway River under pending application no. G4-35208 and/or for water banking related to new uses under the groundwater permit exemption. The new uses may also include uses under the groundwater permit exemption. The subject applications described here are limited to the proposal to transfer the three rights into the State's Trust Water Right Program.

When any portion of the trust water under the proposed trust water right is available and

not being used for water banking or other authorized purposes, those quantities would be added to the instream target flows managed by the U.S. Bureau of Reclamation at Parker and Prosser and continue downstream to the Yakima River's confluence with the Columbia River. If the water is used to offset consumptive use by new water users purchasing mitigation credits from the applicant, by new water uses associated with the applicant's proposed development under Water Right Application No. G4-35208, or any other new use to be mitigated by the subject right, then that trust water will NOT be added to the instream target flows at Parker and Prosser.

WTWG Project form

Draft Maps:



