

WATER TRANSFER WORKING GROUP PROJECT DESCRIPTION

APPLICATION NO./COURT CLAIM NO. Court Claim No. 00383 Ecology Tracking Nos. CS4-00383sb3(B)@6 and CS4-00383sb3@6(B)		
APPLICANT NAME Washington Water Trust	CONTACT NAME Greg McLaughlin	TELEPHONE NO. 509.925.5600
WATER RIGHT HOLDER'S NAME (if different) Dorothy Crosetto		EMAIL greg@washingtonwatertrust.org

  

DATE OF APPLICATION Jan 9, 2014	PRIORITY DATE 1888 (CS4-00383sb3(B)@6) 1889 (CS4-00383sb3@6(B))
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WATER SOURCE: Teanaway River	CROP: Timothy hay and pasture																					
INSTANTANEOUS QUANTITY: Primary Reach A: 2.03 cfs May 1 – May 30 1.1 cfs May 31 – Sept 15  Primary Reach B: 1.52 cfs May 1 – May 30 0.17 cfs May 31 – Sept 15  Secondary Reach:	ANNUAL QUANTITY: Primary Reach A: 306.93 af  Primary Reach B: 238.66 af  17.29 af																					
<table border="1"> <thead> <tr> <th>Unit</th> <th>May</th> <th>Jun</th> <th>Jul</th> <th>Aug</th> <th>Sept</th> <th>Oct</th> </tr> </thead> <tbody> <tr> <td>af</td> <td>0</td> <td>3.19</td> <td>6.20</td> <td>4.57</td> <td>3.32</td> <td>0</td> </tr> <tr> <td>cfs</td> <td>0</td> <td>0.054</td> <td>0.101</td> <td>0.074</td> <td>0.056</td> <td>0</td> </tr> </tbody> </table>	Unit	May	Jun	Jul	Aug	Sept	Oct	af	0	3.19	6.20	4.57	3.32	0	cfs	0	0.054	0.101	0.074	0.056	0	
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PERIOD OF USE: May 1 through September 15																						
PLACE OF USE: <b>Historic:</b> 50 acres within portions of the SW <sup>1</sup> / <sub>4</sub> NE <sup>1</sup> / <sub>4</sub> , the SE <sup>1</sup> / <sub>4</sub> , the NW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> and the SW <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> of Section 10 T. 20 N., R. 16 E.W.M. <b>Proposed:</b> <b>Primary Reach A</b> – Begins at a point 475 feet south and 200 feet west from the northeast corner of Section 8, T. 20 N., R. 16 E.W.M., and ends at a point 200 feet south of the NE quarter corner of Section 15, T. 20 N., R. 16 E.W.M. <b>Primary Reach B</b> – Begins at the current Teanaway River point of diversion at a point 1,700 feet south and 175 feet east of the center of Section 10, and ends at a point 200 feet south of the NE quarter corner of Section 15, T. 20 N., R. 16 E.W.M., and ends at a point 200 feet south of the NE corner of Section 15, T. 20 N., R. 16 E.W.M.	PURPOSE OF USE: <b>Historic:</b> Hay cultivation and pasture  <b>Proposed:</b> Instream flow																					

<p><b>Secondary Reach</b> – Begins at a point 200 feet south of the NE quarter corner of Section 15, T. 20 N., R. 16 E.W.M. and continues down the Teanaway River to the confluence with the Yakima River, continues downriver the Yakima River to the confluence with the Columbia River, and then downriver to the confluence of the Columbia River with the Pacific Ocean.</p>	
<p>IRRIGATION METHOD: As of 2003 the owners use drop-sprinkler and wheel line irrigation systems. Prior to the upgrade, flood irrigation was used via the Ballard Ditch. Irrigation will continue on 36.5 acres with drop-sprinklers.</p>	

<p>CONSUMPTIVE USE CALCULATION:</p>								
<p>The IEGP project generated a total of 176.75 afy for protection, calculated using an efficiency of 60%, leaving approximately 125.50 afy (1888) and 9.5 afy (1889) on-farm for irrigation of 46.5 and 3.5 acres, respectively. The consumptive use values were calculated using WIG data for clover as proxy for timothy hay in the Cle Elum station.</p>								
<p>A review of the extent and validity of the 1889 portion of the right tentatively determined that 2.4 of the 3.5 acres have been beneficially used. Water available for trust has been adjusted to reflect that change. The amount of water available for trust reflects</p>								
<p>In determining percent of consumptive use (%CU), 10 percent was added to the handline Ea to account for evaporative losses, totaling 85 %CU. Monthly consumptive use for irrigation was then calculated by multiplying the TIR by the specified %CU and the area to be fallowed. Total consumptive use is the sum of the monthly consumptive use. The table below summarizes the amount of consumptive use assigned to the secondary reach based on the fallowing of 10 acres.</p>								
<p>Consumptive Use (Secondary Reach) under CS4-00383sb3(B)@6</p>								
Purpose	Unit	May	Jun	Jul	Aug	Sept	Oct	Total
Instream Flow (8 acres)	ac-ft	0	2.52	4.91	3.62	2.62	0	13.68
Average Qi	cfs	0	0.042	0.080	0.059	0.044	0	-
Instream Flow (2 acres)	ac-ft	0	0.67	1.29	0.96	0.69	0	3.61
Average Qi	cfs	0	0.011	0.021	0.016	0.012	0	-
Total	ac-ft	0	3.19	6.20	4.57	3.32	0	17.29
	cfs	0	0.054	0.101	0.074	0.056	0	-

<p>NARRATIVE DESCRIPTION OF PROJECT:</p>
<p>Washington Water Trust has contracted with Mrs. Crosetto to permanently place portions of Yakima Adjudication Court Claim No. 00383 into the State TWRP. Court Claim No. 00383 was confirmed to Teanaway Valley Family Farm, LLP and Dorothy J. Crosetto; in 2003 the owners legally partitioned the right. Ms. Crosetto’s portion of the 1888 and 1889-priority water rights consist of irrigation on 50 acres and stock water rights from the Teanaway River and two unnamed streams (aka John’s Creek and Fred’s Creek). These water rights have been the subject of numerous water right changes, primarily to place portions in the TWRP for augmenting the Teanaway River stream flow. Other changes to the water right include an IEGP infrastructure upgrade and adding a point of withdrawal (a ring well). The ring well proved inadequate; an effective auxiliary point of withdraw (ring well) is located within the SW¼SE¼ of Section 10, T. 20 N., R. 16, E.W.M. Increased application efficiency (IEGP) resulted in water savings made available for conservation in the TWRP.</p>
<p>The subject of this application is the perpetual placement of three portions of Court Claim No. 00383 into</p>

the TWRP:

- (1) "Ditch Water", water used historically for conveyance purposes on 46.5 acres.
- (2) "Little Corners", the fallowing of corners not irrigated with center-pivot system; the 10-acre corners have been irrigated with handlines.
- (3) "Freshet", a provision allowing the doubling of Qi when available for up to 30 days during spring high flows.

Placing water in trust from two methods, conservation and fallowing, necessitates two primary reaches, Primary Reach A relative to the Ballard Ditch diversion point was located farther upstream than the more recent POD.

Ms. Crosetto will retain irrigation and stock rights resulting in the approximate amounts of:

0.51 cfs, 68.31 afy for 36.5 acres and 0.11 afy for stock watering.

Note: Estimates from draft ROEs. Tyson Carlson, Aspect Consulting.