

## WATER TRANSFER WORKING GROUP PROJECT DESCRIPTION

APPLICATION NO./COURT CLAIM NO.		
Water Budget Neutral Request No. G4-35638 with mitigation from Trust Water Right No. CS4-01467@11sb3a(A)		
APPLICANT NAME	CONTACT NAME	TELEPHONE NO.
Kirk & Laura Cresto	Jason McCormick	509-607-3513
WATER RIGHT HOLDER'S NAME (if different)		EMAIL
Mitigation with Washington Water Trust – Masterson Ranch Water Bank		

DATE OF APPLICATION	PRIORITY DATE
July 19, 2013	

WATER SOURCE:	CROP:
groundwater	Lawn or noncommercial garden
INSTANTANEOUS QUANTITY:	ANNUAL QUANTITY:
	1.241 acre-feet/year (afy)
PERIOD OF USE:	
Continuous for multiple indoor domestic connections (3) and irrigation season for lawn and garden	
PLACE OF USE:	PURPOSE OF USE:
Parcel No. 300334, located within the N½NW¼ of the of Section 20, T. 20 N., R. 14 E.W.M.	Multiple domestic (3) and Irrigation of 1,500 ft <sup>2</sup> lawn or garden

<p>CONSUMPTIVE USE CALCULATIONS:</p> <p><b>Indoor use:</b> Three residential connections at 350 gallons per day (gpd) used continuously year round equates to 1.176 afy of water use, or:  <math>(350 \text{ gpd per connection}) \times (365 \text{ days}) \times (\text{three connections}) \times (1.0 \text{ ac-ft}/325,851 \text{ gal}) = 1.176 \text{ afy}</math>  Consistent with WAC 173-539A-050(3), 30% of domestic in-house use on a septic system is consumptively used, therefore:  Indoor consumptive use = <math>(1.176 \text{ afy}) \times (0.30) = \mathbf{0.353 \text{ afy}}</math></p> <p><b>Outdoor use:</b> The requestor proposes to irrigate 1,500 ft<sup>2</sup> of lawn and garden. Using a crop irrigation requirement of 18.11 in/yr (or 1.51 ft/yr) for pasture/turf near Cle Elum from the Washington Irrigation Guide and an application efficiency of 80%, the total outdoor irrigation water use is 0.065 afy, or:  <math>[(1.51 \text{ ft/yr}) \div 0.80] \times (1,500 \text{ ft}^2 \div 43,560 \text{ ft}^2/\text{ac}) = 0.065 \text{ afy}</math>  Consistent with WAC 173-539A-050(3), 90% of outdoor use is consumptively used, so:  Outdoor consumptive use = <math>(0.065 \text{ afy}) \times (0.90) = \mathbf{0.058 \text{ afy}}</math>  <b>Total Use = 1.241 afy</b></p> <p><b>Total Consumptive Use = 0.411</b></p>
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NARRATIVE DESCRIPTION OF PROJECT:

The project is located along the east bank of Lavendar Lake between Interstate 90 and the Yakima River approximately 7 miles northwest of Cle Elum.

The requestor proposes to offset the 0.411 afy of consumptive use for the project (three residential connections and 1,500 ft<sup>2</sup> of lawn and garden) with 0.411 afy of mitigation water acquired from Trust Water Right No. CS4-01467@11sb3a(A). Additionally, 0.216 afy is assigned to the USBR-Ecology Exchange Contract (Contract No. 09XX101700).

WTWG Project form

**Location Map for G4-35638**

