

WATER TRANSFER WORKING GROUP PROJECT DESCRIPTION

APPLICATION NO./COURT CLAIM NO.		
Water Budget Neutral Request No. G4-35790 with mitigation from Trust Water Right No. CS4-01467@11sb3a(A)		
APPLICANT NAME	CONTACT NAME	TELEPHONE NO.
Mike Hebert	Suzanne Blakeney	509-929-2822
WATER RIGHT HOLDER'S NAME (if different)		EMAIL
Mitigation with Washington Water Trust (Masterson) Trust Water Right		

DATE OF APPLICATION	PRIORITY DATE
September 8, 2015	

WATER SOURCE: Well	CROP: Lawn or noncommercial garden
INSTANTANEOUS QUANTITY: TBD	ANNUAL QUANTITY: 0.414 acre-ft/yr
PERIOD OF USE: Continuous for single indoor domestic connection and irrigation season for lawn and garden	
PLACE OF USE: Parcel No. 286634, located within the SW ¹ / ₄ of Section 8, T. 19 N., R. 16 E.W.M.	PURPOSE OF USE: Single domestic and Irrigation of 500 ft ² lawn or garden
IRRIGATION METHOD:	

<p>CONSUMPTIVE USE CALCULATION:</p> <p>Indoor use: One residential connection at 350 gallons per day (gpd) used continuously year round equates to 0.392 afy of water use, or: $(350 \text{ gpd per connection}) \times (365 \text{ days}) \times (\text{one connection}) \times (1.0 \text{ ac-ft}/325,851 \text{ gal}) = 0.392 \text{ afy}$ Consistent with WAC 173-539A-050(3), 30% of domestic in-house use on a septic system is consumptively used, therefore: Indoor consumptive use = $(0.392 \text{ afy}) \times (0.30) = \mathbf{0.118 \text{ afy}}$</p> <p>Outdoor use: The requestor proposes to irrigate 500 ft² 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 0.022 afy, or: $[(1.51 \text{ ft/yr}) \div 0.80] \times (500 \text{ ft}^2 \div 43560 \text{ ft}^2/\text{ac}) = 0.022 \text{ afy}$ Consistent with WAC 173-539A-050(3), 90% of outdoor use is consumptively used, so: Outdoor consumptive use = $(0.022 \text{ afy}) \times (0.90) = \mathbf{0.019 \text{ afy}}$</p> <p>Total Use = 0.414 afy</p> <p>CU = 0.137 afy</p>
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NARRATIVE DESCRIPTION OF PROJECT:

The project is located near Thornton Creek approximately 3 miles southeast of Cle Elum in a “yellow” area as noted in the current Masterson Trust Water Right suitability map.

The requestor proposes to offset the 0.137 afy of consumptive use for the project (one residential connection and 500 ft² of lawn and garden) with 0.137 afy of mitigation water acquired from Trust Water Right No. CS4-01467@11sb3a(A). During the irrigation season, 0.072 afy will be assigned to the USBR-Ecology Exchange Contract (Contract No. 09XX101700) from September 1 to March 31 to address flow impacts to the Yakima River.

Review of the local area hydrogeology suggests that the proposed withdrawals will likely result in flow impacts to Thornton Creek and the Yakima River.

WTWG Project form

Location of G4-35790

