

WATER TRANSFER WORKING GROUP PROJECT DESCRIPTION

APPLICATION NO./COURT CLAIM NO.		
Water Budget Neutral Request No. G4-35783 with mitigation from Trust Water Right No. CS4-05259CTCL@2sb7		
APPLICANT NAME	CONTACT NAME	TELEPHONE NO.
Damon & Dacon Hayes	Jessica Kuchan	206-838-7650
WATER RIGHT HOLDER'S NAME (if different)		EMAIL
Mitigation with Suncadia Trust Water Right		

DATE OF APPLICATION	PRIORITY DATE
August 21, 2015	

WATER SOURCE: Well	CROP: Lawn or noncommercial garden
INSTANTANEOUS QUANTITY:	ANNUAL QUANTITY: 0.414 acre-ft/yr (afy)
PERIOD OF USE: Continuous for single indoor domestic connection and irrigation season for lawn and garden	
PLACE OF USE: Parcel No. 086734, located within the NW¼ of Section 17, 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: $[(1.51 \text{ ft/yr}) \div 0.80] \times (500 \text{ ft}^2 \div 43,560 \text{ ft}^2/\text{ac}) = 0.022 \text{ afy}$ 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>Consumptive Use = 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 Suncadia Trust Water Right suitability map.

The requestor proposes to offset the 0.137 ac-ft of consumptive use for the project (one residential connection and 500 ft² of lawn and garden) with 0.137 ac-ft of mitigation water acquired from Trust Water Right No. CS4-05259CL@2sb7. During the irrigation season, 0.072 ac-ft will be assigned to the USBR-Ecology Exchange Contract (Contract No. 09XX101700) from September 1 to March 31. In addition to the consumptive use of the project, Ecology will assign 0.024 ac-ft of the Trust Water Right to be managed within the Trust Water Right Program for instream flow purposes to benefit the Yakima River.

Review of the local area hydrogeology suggests that groundwater use under the subject request will likely result in flow impacts to Thornton Creek and the Yakima River.

WTWG Project form

Location of G4-35783

