

WATER TRANSFER WORKING GROUP PROJECT DESCRIPTION

APPLICATION NO./COURT CLAIM NO.		
Water Budget Neutral Request No. G4-35733 with mitigation from Trust Water Right No. CS4-05259CL@2sb7		
APPLICANT NAME	CONTACT NAME	TELEPHONE NO.
Mattson Family Farm LLC	Jessica Kuchan	206-838-7650
WATER RIGHT HOLDER'S NAME (if different)		EMAIL
Mitigation with Suncadia Trust Water Right		

DATE OF APPLICATION	PRIORITY DATE
December 5, 2014	

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. 957913, located within the SW ¹ / ₄ NW ¹ / ₄ of Section 8, T.19 N., R. 15 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 between Tillman Creek and Spex Arth Creek approximately 2.5 miles southwest of the city of Cle Elum.

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. CS4-05259CL@2sb7. Additionally, 0.072 ac-ft is assigned to the USBR-Ecology Exchange Contract (Contract No. 09XX101700). Ecology plans to 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 an unnamed tributary and Yakima River north of the subject property.

WTWG Project form

Site Map

