

**WATER TRANSFER WORKING GROUP PROJECT DESCRIPTION**

APPLICATION NO./COURT CLAIM NO.		
Water Budget Neutral Request No. G4-35754 with mitigation from Trust Water Right No. CS4-05216sb5a(B)		
APPLICANT NAME George Burchak	CONTACT NAME Darrin Burchak	TELEPHONE NO. 509-206-0115
WATER RIGHT HOLDER'S NAME (if different) Mitigation with Burchak Trust Water Right		EMAIL

DATE OF APPLICATION April 20, 2015	PRIORITY DATE
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WATER SOURCE: Groundwater	CROP: Lawn or noncommercial garden
INSTANTANEOUS QUANTITY:	ANNUAL QUANTITY: 0.461 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. 20996, located within the NE <sup>1</sup> / <sub>4</sub> SE <sup>1</sup> / <sub>4</sub> of Section 4, T. 19 N., R. 15 E.W.M.	PURPOSE OF USE: Single domestic and Irrigation of 1,600 ft <sup>2</sup> lawn or garden
IRRIGATION METHOD:	

<p>CONSUMPTIVE USE CALCULATION:</p> <p><b>Indoor use:</b> One residential connection at 350 gallons per day (gpd) used continuously year round equates to 0.392 afy of water use, or:  <math>(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}</math></p> <p>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>(0.392 \text{ afy}) \times (0.30) = \mathbf{0.118 \text{ afy}}</math></p> <p><b>Outdoor use:</b> The requestor proposes to irrigate 1,600 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 0.069 afy, or:  <math>[(1.51 \text{ ft/yr}) \div 0.80] \times (1,600 \text{ ft}^2 \div 43,560 \text{ ft}^2/\text{ac}) = 0.069 \text{ afy}</math></p> <p>Consistent with WAC 173-539A-050(3), 90% of outdoor use is consumptively used, so:  Outdoor consumptive use = <math>(0.069 \text{ afy}) \times (0.90) = \mathbf{0.062 \text{ afy}}</math></p> <p><b>Total Use = 0.461 afy</b></p> <p><b>Consumptive Use = 0.18 afy</b></p>
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NARRATIVE DESCRIPTION OF PROJECT:

The project is located in approximately 2 miles south of the city of Cle Elum within an unnamed basin east of the Tillman Creek Basin. The Burchak lot is located within a “yellow” suitability area.

Review of local topography, geologic mapping, available well logs, and location of surface water bodies suggest that withdraws under G4-35754, will more likely than not, capture water that would ultimately discharge to the Yakima River. No tributary flow impacts are anticipated.

The requestor proposes to offset the 0.18 afy of consumptive use for the project (one residential connection and 1,600 ft<sup>2</sup> of lawn and garden) with 0.18 afy of mitigation water acquired from Trust Water Right No. CS4-05216sb5a(B).

Ecology intends to assign the 0.059 afy (equivalent to the October 1 – March 31 consumptive use) to the USBR-Ecology Water Exchange Contract (Contract No. 09XX101700) for purposes of addressing flow impacts to the Yakima River.

WTWG Project form

### Location of G4-35754

