

**WATER TRANSFER WORKING GROUP PROJECT DESCRIPTION**

APPLICATION NO./COURT CLAIM NO.		
Water Budget Neutral Request No. G4-35549 with mitigation from Trust Water Right No. CS4-05259CL@2sb7		
APPLICANT NAME	CONTACT NAME	TELEPHONE NO.
David & Adrienne Kuhn	Kurt Walker - Ecology	509-454-4237
WATER RIGHT HOLDER'S NAME (if different)		EMAIL
Mitigation with Suncadia Trust Water Right CS4-05259CTCL@2sb7		kwa461@ecy.wa.gov

DATE OF APPLICATION	PRIORITY DATE
March 5, 2012	New use mitigated by trust water right with priority date of October 30, 1884

WATER SOURCE:	CROP:
well	Lawn or noncommercial garden
INSTANTANEOUS QUANTITY:	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:	PURPOSE OF USE:
Parcel No. 20500, located within a portion of the NW <sup>1</sup> / <sub>4</sub> NW <sup>1</sup> / <sub>4</sub> of Section 25, T. 20 N., R. 15 E.W.M.	Single domestic and Irrigation of 500 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 ac-ft/yr of water use, or:  <math>(350\text{gpd per connection}) \times (365\text{ days}) \times (\text{one connection}) \times (1\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{ ac-ft/yr}}</math></p> <p><b>Outdoor use:</b> The requestor proposes to irrigate 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 0.022 ac-ft/yr, or:  <math>[(1.51\text{ ft/yr}) \div 0.80] \times (500\text{ ft}^2 \div 43560\text{ ft}^2/\text{ac}) = 0.022\text{ ac-ft/yr}</math></p> <p>Consistent with WAC 173-539A-050(3), 90% of outdoor use is consumptively used, so:  Outdoor consumptive use = <math>(0.022\text{ ac-ft/yr}) \times (0.90) = \mathbf{0.019\text{ ac-ft/yr}}</math></p>
--

**As a result consumptive use (CU) for the project totals to 0.137 ac-ft/yr  
(CU April 1 to Aug 31 is 0.065 ac-ft and CU Sept 1 to Mar 31 is 0.072 ac-ft)**

**NARRATIVE DESCRIPTION OF PROJECT:**

The requestor proposes to offset the 0.137 ac-ft/yr of consumptive use for the project (one residential connection and 500 ft<sup>2</sup> of lawn and garden) with 0.137 ac-ft/yr of mitigation water acquired from Trust Water Right No. CS4-05259CL@2sb7. During the irrigation season, 0.072 ac-ft is assigned to the USBR-Ecology Exchange Contract (Contract No. 09XX101700) and released between Sept 1 to Mar 31 to address out of season impacts along the Yakima River. In addition, consistent with the Exchange Contract, 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.

The proposed well for the new use is to be located in an area that needed additional information (“yellow area”) to determine the suitability of the Suncadia Trust Water Rights for use as mitigation to offset the new use. Review of the local area hydrogeology suggests that pumping under the proposed request will result in impacts to flow in the lower reaches of Balmers Canyon and to the Yakima River. Copies of the Draft Hydrogeology Memo for the subject water budget neutral request are available on request from Ecology. For a copy, please contact Kurt Walker at (509) 454-4237, kwal461@ecy.wa.gov.

WTWG Project form

