

WATER TRANSFER WORKING GROUP PROJECT DESCRIPTION

APPLICATION NO./COURT CLAIM NO.		
Water Budget Neutral Request No. G4-35553 with mitigation from Trust Water Right No. S4-05259CL@2sb7		
APPLICANT NAME David & Kathy Marsh	CONTACT NAME Kurt Walker - Ecology	TELEPHONE NO. 509-454-4237
WATER RIGHT HOLDER'S NAME (if different) Mitigation with Suncadia Trust Water Right CS4-05259CTCL@2sb7		EMAIL kwal461@ecy.wa.gov

DATE OF APPLICATION March 28, 2012	PRIORITY DATE New use mitigated by trust water right with priority date of October 30, 1884
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WATER SOURCE: well	CROP: Lawn or noncommercial garden
INSTANTANEOUS QUANTITY:	ANNUAL QUANTITY: 0.435 acre-ft/yr
PERIOD OF USE: Continuous for indoor domestic connection and irrigation season for lawn and garden	
PLACE OF USE: Parcel No. 952845, located within a portion of the SE ¹ / ₄ NE ¹ / ₄ of Section 25, T. 20 N., R. 15 E.W.M.	PURPOSE OF USE: Single domestic and Irrigation of 1,000 ft ² lawn or garden
IRRIGATION METHOD:	

<p>CONSUMPTIVE USE CALCULATION:</p> <p>Indoor use: 1 residential connection at 350 gallons per day (gpd) used continuously year round equates to 0.392 ac-ft/yr of water use, or: $(350\text{gpd per connection}) \times (365 \text{ days}) \times (1 \text{ connection}) \times (1 \text{ ac-ft}/325,851 \text{ gal}) = 0.392 \text{ afy}$ Consistent with WAC 173-539A-050(3), 30% of domestic in-house use on a septic system is consumptively used, therefore: Indoor consumptive use = $(0.392 \text{ afy}) \times (0.30) = \mathbf{0.118 \text{ ac-ft/yr}}$</p> <p>Outdoor use: The requestor proposes to irrigate 1,000 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 0.043 ac-ft/yr, or: $[(1.51 \text{ ft/yr}) \div 0.80] \times (1,000 \text{ ft}^2 \div 43,560 \text{ ft}^2/\text{ac}) = 0.039 \text{ ac-ft/yr}$ Consistent with WAC 173-539A-050(3), 90% of outdoor use is consumptively used, so: Outdoor consumptive use = $(0.043 \text{ ac-ft/yr}) \times (0.90) = \mathbf{0.039 \text{ ac-ft/yr}}$</p>

As a result consumptive use (CU) for the project totals to 0.157 ac-ft/yr (CU April 1 to Aug 31 is 0.081 ac-ft and CU Sept 1 to Mar 31 is 0.076 ac-ft).

NARRATIVE DESCRIPTION OF PROJECT:

The requestor proposes to offset the 0.118 ac-ft/yr of consumptive use for the project (1 residential connection and 1,000 ft² of lawn and garden) with 0.157 ac-ft/yr of mitigation water acquired from Trust Water Right No. S4-05259CL@2sb7. During the irrigation season, 0.076 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 0.025 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 flow impacts 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

