

WATER TRANSFER WORKING GROUP PROJECT DESCRIPTION

APPLICATION NO./COURT CLAIM NO.		
Water Budget Neutral Request No. G4-35498 with mitigation from Change Authorization No. CS4-02255(A)CTCL@2		
APPLICANT NAME	CONTACT NAME	TELEPHONE NO.
Bruce and Marie Von Normann	Ingrid Ekstrom - Ecology	509-575-2396
WATER RIGHT HOLDER'S NAME (if different)		EMAIL
Mitigation with SwiftWater Ranch LLC Trust Water Right		

DATE OF APPLICATION	PRIORITY DATE
May 26, 2011	New use mitigated by trust water right with priority date of June 30, 1890

WATER SOURCE:	CROP:
well	Lawn or noncommercial garden
INSTANTANEOUS QUANTITY:	ANNUAL QUANTITY:
	0.414 acre-ft/yr
PERIOD OF USE:	
Continuous for 1 indoor domestic connection and irrigation season for lawn and garden	
PLACE OF USE:	PURPOSE OF USE:
Parcel No. 20329, located within the SW ¹ / ₄ NW ¹ / ₄ of Section 26, T. 20 N., R. 16 E.W.M.	Single domestic and Irrigation of 500 ft ² lawn or garden
IRRIGATION METHOD:	

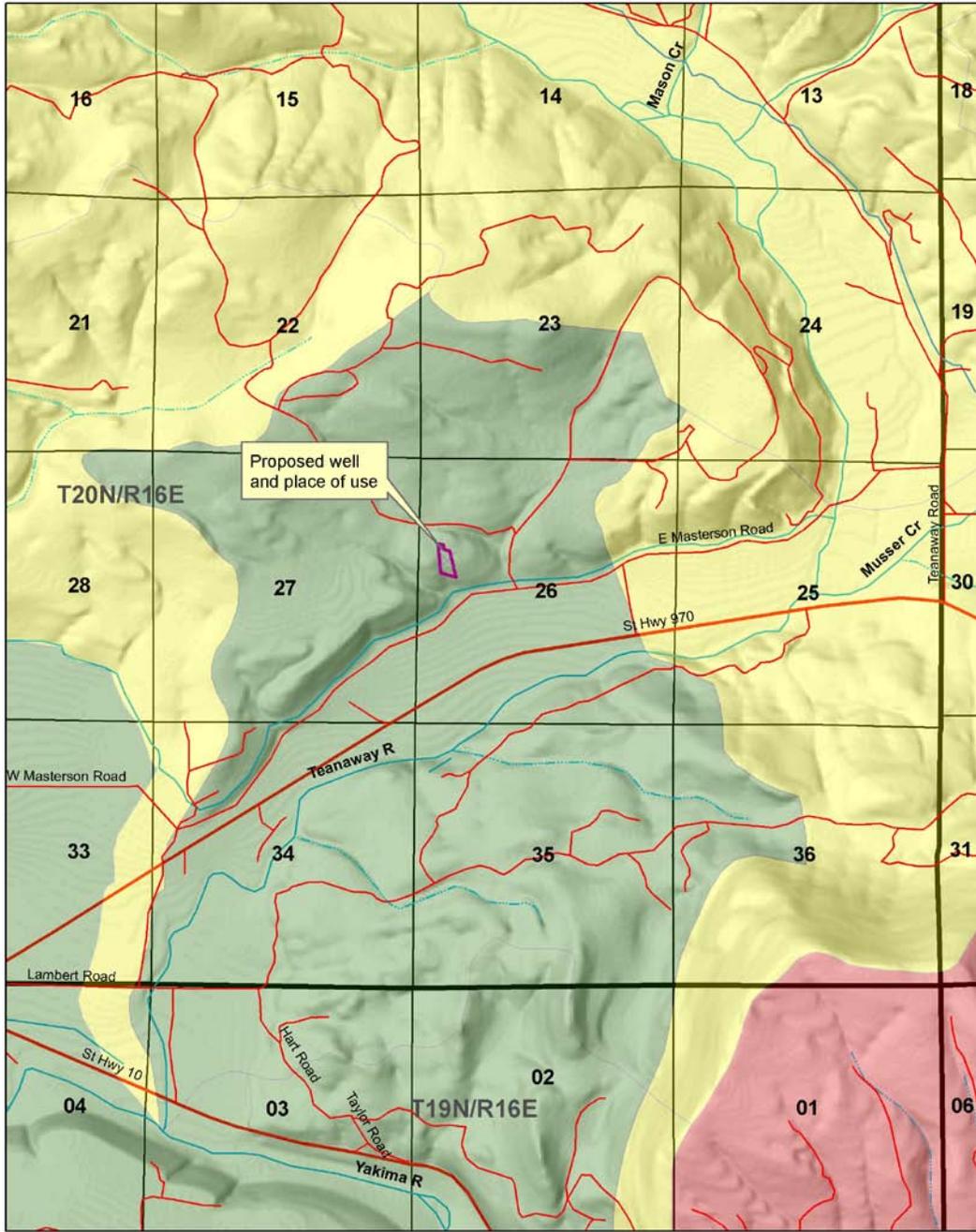
<p>CONSUMPTIVE USE CALCULATION:</p> <p>Indoor use: 1 residential connection at 350 gallons per day (gpd) used continuously year round equates to 0.392 ac-ft/yr of water use, or: $(350\text{gpd per connection}) \times (365\text{ days}) \times (1\text{ connection}) \times (1\text{ac-ft}/325,851\text{gal}) = 0.392\text{ afy}$ 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 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 ac-ft/yr, or: $[(1.51\text{ ft/yr}) \div 0.80] \times (500\text{ ft}^2 \div 43560\text{ ft}^2/\text{ac}) = 0.022\text{ ac-ft/yr}$ Consistent with WAC 173-539A-050(3), 90% of outdoor use is consumptively used, so: Outdoor consumptive use = $(0.022\text{ ac-ft/yr}) \times (0.90) = \mathbf{0.019\text{ ac-ft/yr}}$</p> <p>As a result consumptive use (CU) for the project totals to 0.137 ac-ft/yr (CU November 1 to Sept 15 is 0.120 ac-ft and CU Sept 15 to Oct 31 is 0.017 ac-ft)</p>
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NARRATIVE DESCRIPTION OF PROJECT:

The requestor proposes to offset the 0.137 ac-ft/yr of consumptive use for the project (1 residential connection and 500 ft² of lawn and garden) with 0.137 ac-ft/yr of mitigation water acquired from Change Authorization No. CS4-02255(A)CTCL@2. During the irrigation season, 0.017 ac-ft is assigned to the USBR-Ecology Exchange Contract (Contract No. 09XX101700) and released between Sept 15 to Oct 31 to address out of season impacts along the Yakima River.

The proposed well for the new use is located in an area where the Swiftwater rights are likely suitable (“green area”) for use as mitigation to offset the new use. Please see the attached map for the project location.

WTWG Project form



Bruce and Marie Von Normann
Water Budget Neutral Request No. G4-35498



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