

WATER TRANSFER WORKING GROUP PROJECT DESCRIPTION

APPLICATION NO./COURT CLAIM NO.		
Water Budget Neutral Request No. G4-35453 with mitigation from Trust Water Right No. S4-05259CTCL@2sb7		
APPLICANT NAME	CONTACT NAME	TELEPHONE NO.
Gary & Christine Fletcher	Ingrid Ekstrom - Ecology	(509) 575-2396
WATER RIGHT HOLDER'S NAME (if different)		EMAIL
Mitigation with Suncadia Trust Water Right		

DATE OF APPLICATION	PRIORITY DATE
January 24, 2011	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 one indoor domestic connection and irrigation season for lawn and garden	
PLACE OF USE:	PURPOSE OF USE:
Parcel No. 954954, located within the S½SE¼ of Section 7, T. 19 N., R. 16 E.W.M.	Single domestic and Irrigation of 500 ft ² lawn or garden
IRRIGATION METHOD:	

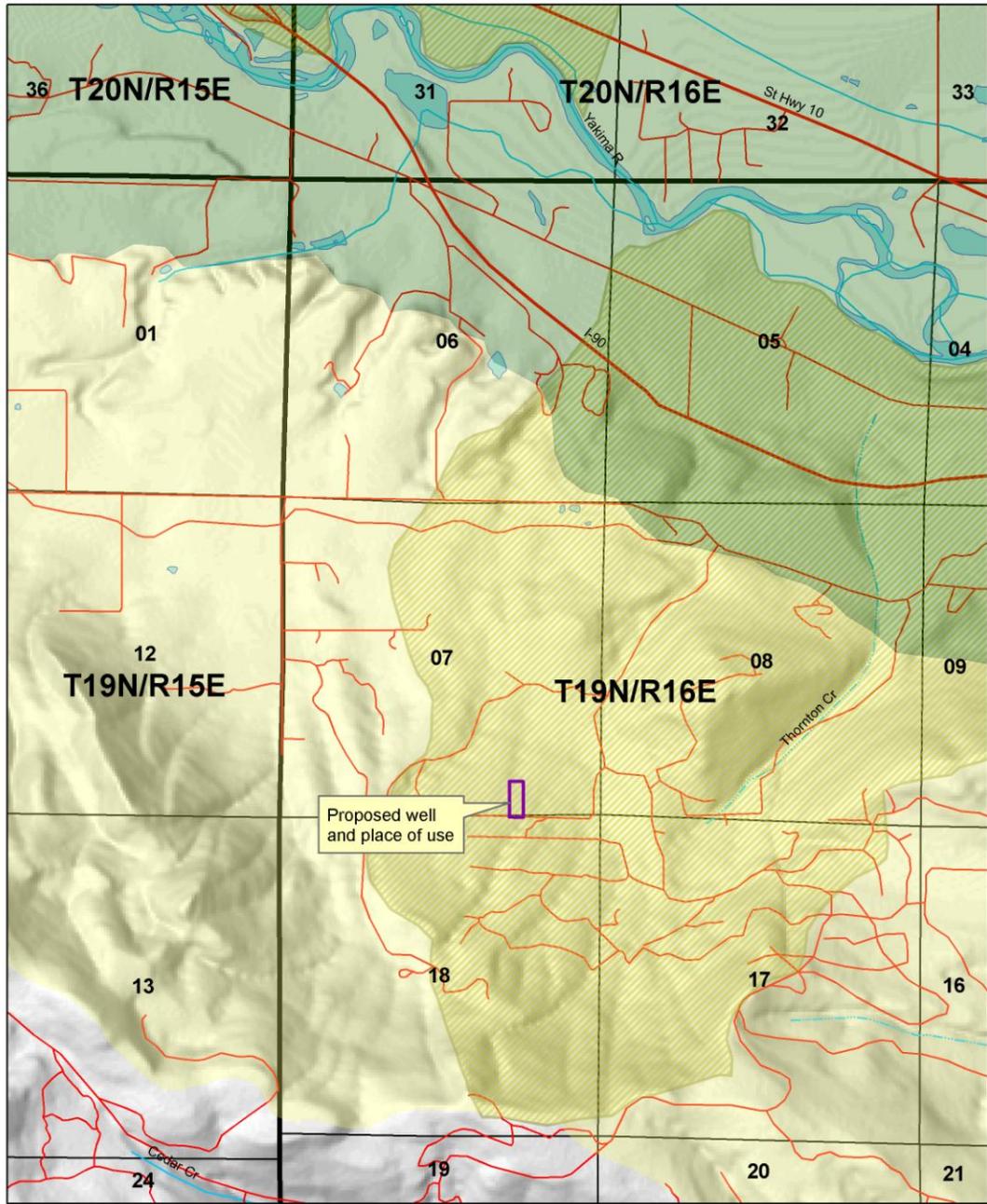
CONSUMPTIVE USE CALCULATION:
<p>Indoor use: One residential connection at 350 gallons per day (gpd) used continuously year round equates to 0.392 ac-ft/yr of water use, or: $(350\text{gpd per connection}) \times (365\text{ days}) \times (1\text{ connection}) \times (1\text{ ac-ft}/325,851\text{gal}) = 0.392\text{ afy}$ 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 500ft² 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 0.151 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>

**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 ft² of lawn and garden) with 0.137 ac-ft/yr of mitigation water acquired from Trust Water Right No. S4-05259CTCL@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 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. Please see the attached map for the project location.



Gary and Christine Fletcher
Water Budget Neutral Request No. G4-35453



0 1,500 3,000 6,000 Feet

DRAFT