2015-23

WATER TRANSFER WORKING GROUP PROJECT DESCRIPTION

APPLICATION NO./COURT CLAIM NO.		
Water Budget Neutral Request No. G4-35734 with mitigation from Trust Water Right No. CS4-05259CL@2sb7		
APPLICANT NAME Johathan & Donna Lapham	CONTACT NAME Jessica Kuchan	TELEPHONE NO. 206-838-7650
WATER RIGHT HOLDER'S NAME (if different) Mitigation with Suncadia Trust Water Right		EMAIL

DATE OF APPLICATION	PRIORITY DATE
December 19, 2014	

WATER SOURCE:	CROP:
Well (Unique Tag No. AKW799)	Lawn or noncommercial garden
INSTANTANEOUS QUANTITY:	ANNUAL QUANTITY: 0.414 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. 949685, located within the NE¼SW¼ of Section 1, T. 19 N., R. 14 E.W.M.	PURPOSE OF USE: Single domestic and Irrigation of 500 ft^2 lawn or garden
IRRIGATION METHOD:	

CONSUMPTIVE USE CALCULATION:

Indoor use: One residential connection at 350 gallons per day (gpd) used continuously year round equates to 0.392 afy of water use, or:
(350 gpd per connection) x (365 days) x (one connection) x (1.0 ac-ft/325,851gal) = 0.392 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 afy) x (0.30) = **0.118 afy**

Outdoor use: The requestor proposes to irrigate 500 ft^2 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 afy, or:
[(1.51 ft/yr) ÷ 0.80] x (500 ft^2 ÷ 43,560 ft^2/ac) = 0.022 afy
Consistent with WAC 173-539A-050(3), 90% of outdoor use is consumptively used, so:
Outdoor consumptive use = (0.022 afy) x (0.90) = **0.019 afy**

Total Use = 0.414 afy

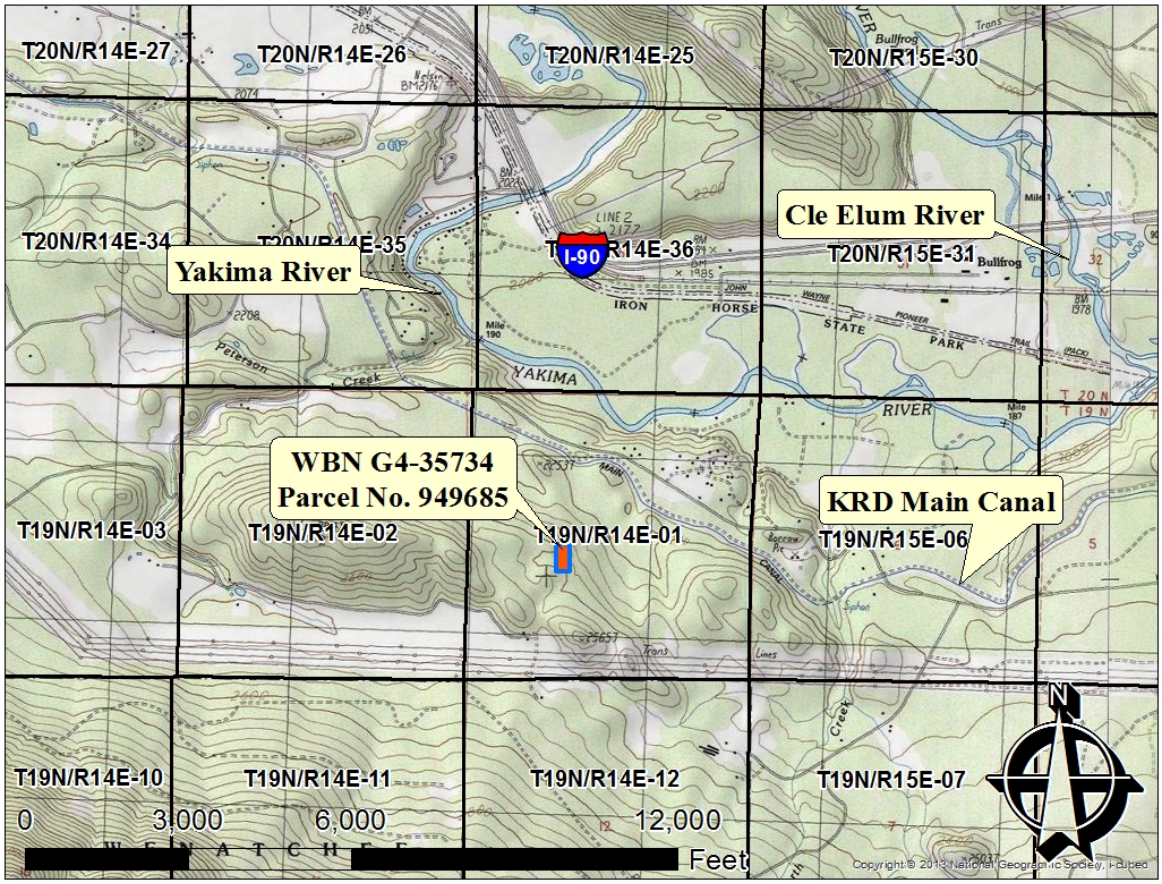
Consumptive Use = 0.137 afy

NARRATIVE DESCRIPTION OF PROJECT:

The project is located between Peterson Creek and Spex Arth Creek approximately 5 miles southwest of the city of Cle Elum.

The requestor proposes to offset the 0.137 afy of consumptive use for the project (one residential connection and 500 ft^2 of lawn and garden) with 0.137 afy of mitigation water acquired from Trust Water Right No. CS4-05259CL@2sb7. Additionally, 0.072 ac-ft is assigned to the USBR-Ecology Exchange Contract (Contract No. 09XX101700). 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.

Review of the local area hydrogeology suggests that groundwater use under the subject request will likely result in flow impact to the Yakima River north of the subject property.

WTWG Project form

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