

WATER TRANSFER WORKING GROUP PROJECT DESCRIPTION

Application Number Water Budget Neutral Request No. G4-36170	
Applicant Name James and Karen Mahoney	Priority Date 2/23/2023
Water Bank Yakima Mitigation Services	Trust Water Rights No. S4-85150-J (Priority Date 01/01/1881)
Groundwater Source Proposed Well	Water Use: Domestic, 500 ft ² of irrigation
Instantaneous Quantity: 4.48 gpm (350 gpd)	Annual Quantity: 0.414 ac-ft/yr
Period of Use: Continuous use for 1 domestic connection and seasonal irrigation for lawn and/or garden	
Place of Use: Parcel No. 416734, located within the NW¼, SE¼ of Section 8, Township 19N., Range 16E.	

Consumptive Use Calculation:

Indoor Use: 1 residential connection(s) at 350 gallons per day (gpd) used continuously year-round equates to 0.392 ac-ft/yr of water use, or: Consistent with WAC 173-539A-050(3), 30% of domestic in-house use on a septic system is consumptively used, therefore: **indoor consumptive use (CU) = 0.118 ac-ft/yr.**

Outdoor Use: The requestor/applicant proposes to irrigate 500 ft² of lawn and/or garden. Using a crop irrigation requirement of 18.1 in/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. Consistent with WAC 173-539A-050(3), 90% of outdoor use is consumptively used, therefore: **outdoor consumptive use = 0.019 ac-ft/yr.**

Total Consumptive Use = 0.137 ac-ft/yr

Parker Water Assignment = 0.024

Exchange Contract Water = 0.072 ac-ft/yr for the period September 1 to March 31

NARRATIVE DESCRIPTION OF PROJECT:

The project is located approximately 1.1 miles from the Yakima River near Thorton Creek in a "Yellow" area as noted on Ecology's current Mitigation Suitability Map (see attached map).

The requestor/applicant proposes to offset the 0.137 ac-ft/yr of consumptive use for the project with 0.137 ac-ft/yr of mitigation from Trust Water Right No. S4-85150-J.

Ecology will assign 0.072 ac-ft/yr to the USBR-Ecology Exchange Contract (Contract No. 09XX101700), from September 1 to March 31, to address impacts to the Yakima River.

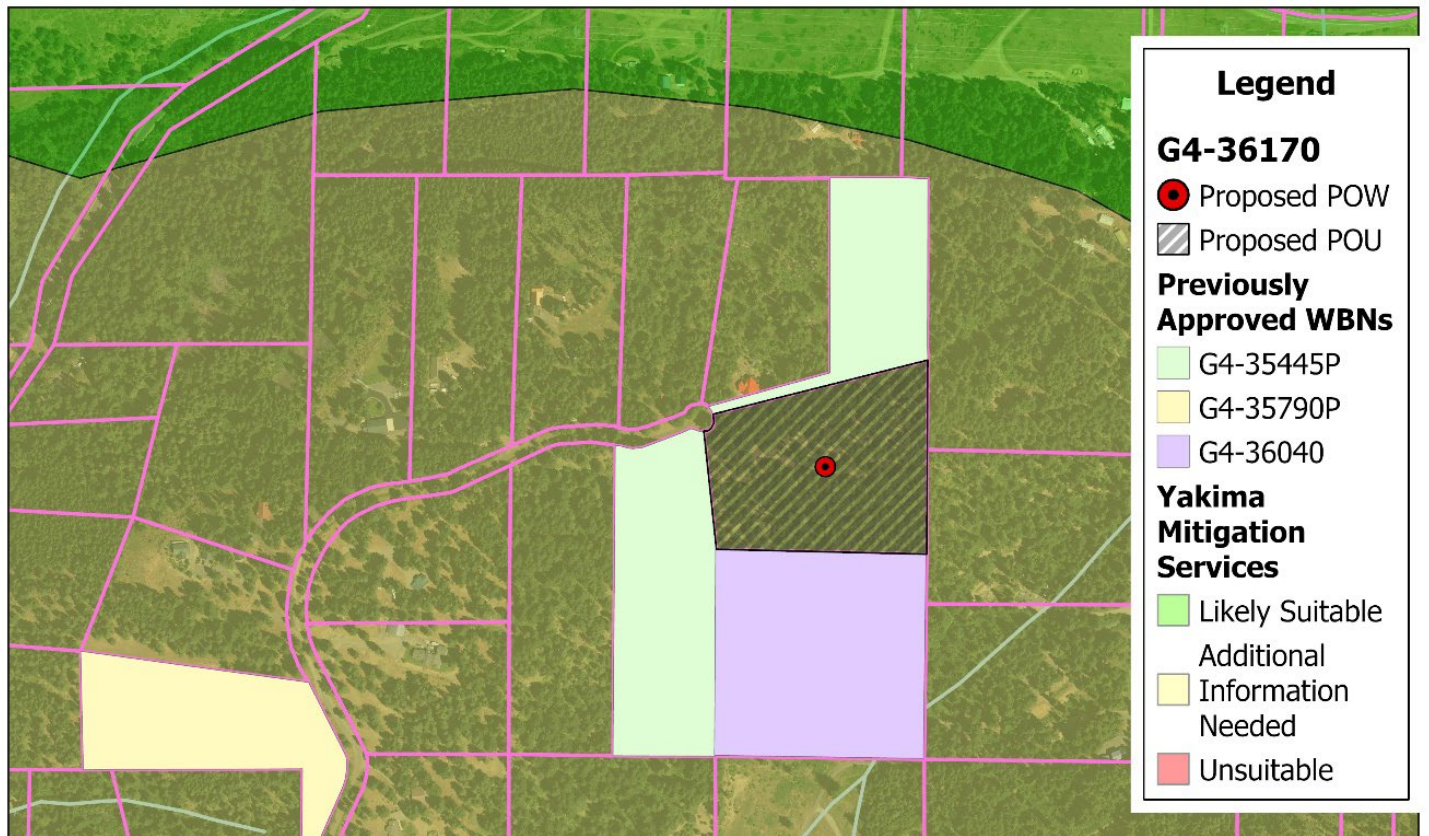
In addition to the consumptive use of the project, Ecology will assign 0.024 ac-ft of the Trust Water Right to be managed within the Trust Water Right Program for instream flow benefit to the Yakima River.

Review of the local area hydrogeology suggests that the withdrawal is likely to impact Thorton Creek and the Yakima River. However, existing users would not be impaired by this project.

The review suggested that completing the well within the Grond Ronde Basalts would reduce the probability of impacts to Thorton Creek.

WTWG Project form

Project Map



WBN No. G4-36170 (Mahoney)

Kittitas County (WRIA 39) Parcel 416734

The NW 1/4, SE 1/4, of Section 8, Township 19 N., Range 16 E.W.M.

Basemap: NAIP 2021 Aerial Photo

