

WATER TRANSFER WORKING GROUP PROJECT DESCRIPTION

APPLICATION NO./COURT CLAIM NO.		
Water Budget Neutral Permit No. G4-35432 with mitigation from Trust Water Right No. CS4-00714CLsb2		
APPLICANT NAME Land Lloyd Development	CONTACT NAME Kurt Walker - Ecology	TELEPHONE NO. 509-454-4237
WATER RIGHT HOLDER'S NAME (if different)		EMAIL

DATE OF APPLICATION October 27, 2010	PRIORITY DATE New uses mitigated by trust water right with priority date of October 9, 1893
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WATER SOURCE: Wells	Crop: Lawn or noncommercial garden
INSTANTANEOUS QUANTITY: 215 gpm	ANNUAL QUANTITY: 14.06 acre-ft/yr
PERIOD OF USE: Continuous for 34 indoor domestic connection and seasonal irrigation of 0.39 acres for lawn and garden.	
PLACE OF USE: Multiple parcels within parcels within Sections 1 and 2, T. 19 N., R. 14 E.W.M.	PURPOSE OF USE: Multiple domestic and Irrigation of 0.39 acres lawn or garden
IRRIGATION METHOD:	

<p>CONSUMPTIVE USE CALCULATION:</p> <p>Indoor use: 34 residential connection at 350 gallons per day (gpd) used continuously year round equates to 13.33 ac-ft/yr of water use, or: $(350\text{gpd per connection}) \times (365\text{ days}) \times (34\text{ connection}) \times (1\text{ac-ft}/325,851\text{gal}) = 13.33\text{ ac-ft/yr}$ Consistent with WAC 173-539A-050(3), 30% of domestic in-house use on a septic system is consumptively used, therefore: Indoor consumptive use = $(13.33\text{ ac-ft/yr}) \times (0.30) = \mathbf{4.0\text{ ac-ft/yr}}$</p> <p>Outdoor use: The requestor proposes to irrigate 0.39 acres 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 0.736 ac-ft/yr, or: $[(1.51\text{ ft/yr}) \div 0.80] \times (0.39\text{ acres} \div 43560\text{ ft}^2/\text{ac}) = 0.736\text{ ac-ft/yr}$ Consistent with WAC 173-539A-050(3), 90% of outdoor use is consumptively used, so: Outdoor consumptive use = $(0.736\text{ ac-ft/yr}) \times (0.90) = \mathbf{0.66\text{ ac-ft/yr}}$</p> <p>As a result consumptive use (CU) for the project totals to 4.66 ac-ft/yr (CU April 1 to September 30 is 2.667 ac-ft and CU October 1 to March 31 is 1.994 ac-ft)</p>

NARRATIVE DESCRIPTION OF PROJECT:

Under Trust Water Right No. CS4-00714sb2, Land Lloyd Development changed 1.5 cfs and 25.64 ac-ft/yr from Fowler Creek to instream flow for the mitigation of new groundwater uses. This change was presented to the WTWG on April 4, 2011, under WTWG Project No. 2011-33.

Land Lloyd Development proposes to offset the 4.66 ac-ft/yr of consumptive use for the project (34 residential connection and 0.39 acres of lawn and garden) with 4.66 ac-ft/yr of mitigation water from Trust Water Right No. CS4-00714CLsb2. Ecology proposes to assign 1.994 ac-ft to the USBR-Ecology Exchange Contract (Contract No. 09XX101700) and released between October 1 to Mar 31 to address out of season impacts along the Yakima River.

G4-35432 proposes to use multiple wells from 3 distinct groundwater sources (see map). Review of the local area hydrogeology indicates that groundwater use under G4-35432 may have some impact to Fowler Creek with most of the impact being directly to the Yakima River. Copies of the Hydrogeology Memo for G4-35432 are available on request from Ecology. For a copy, please contact Kurt Walker at (509) 454-4237, kwal461@ecy.wa.gov.

WTWG Project form

