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. CS4-00714C1sb2

APPLICANT NAME
Land Lloyd Development

CONTACT NAME
Kurt Walker - Ecology

TELEPHONE NO.
509-454-4237

WATER RIGHT HOLDER’S NAME (if different)

DATE OF APPLICATION
October 27, 2010

PRIORITY DATE
New uses mitigated by trust water right with priority date of October 9, 1893

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:

CONSUMPTIVE USE CALCULATION:

**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:

\[(350 \text{ gpd per connection}) \times (365 \text{ days}) \times (34 \text{ connection}) \times (1 \text{ ac-ft/325,851 gal}) = 13.33 \text{ afy}\]

Consistent with WAC 173-539A-050(3), 30% of domestic in-house use on a septic system is consumptively used, therefore:

Indoor consumptive use = (13.33 afy) x (0.30) = \textbf{4.0 ac-ft/yr}

**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:

\[[(1.51 \text{ ft/yr}) \div 0.80] \times (0.39 \text{ acres} \times 43560 \text{ ft}^2/\text{ac}) = 0.736 \text{ ac-ft/yr}\]

Consistent with WAC 173-539A-050(3), 90% of outdoor use is consumptively used, so:

Outdoor consumptive use = (0.736 ac-ft/yr) x (0.90) = \textbf{0.66 ac-ft/yr}

As a result consumptive use (CU) for the project totals to \textbf{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)
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.