

WATER TRANSFER WORKING GROUP PROJECT DESCRIPTION

APPLICATION NO./COURT CLAIM NO.		
Water Budget Neutral Request No. G4-35598 with mitigation from Trust Water Right No. CS4-01467@11sb3a		
APPLICANT NAME	CONTACT NAME	TELEPHONE NO.
Jay R & Bernadette M Lind	Danielle Jansik - Ecology	509-575-2396
WATER RIGHT HOLDER'S NAME (if different)		EMAIL
Masterson Ranch Trust Water Right		daja461@ecy.wa.gov

DATE OF APPLICATION	PRIORITY DATE
February 8, 2013	New use mitigated by trust water right with priority date of June 30, 1883

WATER SOURCE:	CROP:
Well (Ecology Tag No. APT112)	None
INSTANTANEOUS QUANTITY:	ANNUAL QUANTITY:
2.5 GPM	0.392 acre-feet/year (afy)
PERIOD OF USE:	
Continuous for single indoor domestic connection	
PLACE OF USE:	PURPOSE OF USE:
Parcel No. 2016340650002 located within the S ½ of Section 34, T. 20 N., R. 16 E.W.M.	Single domestic
IRRIGATION METHOD:	

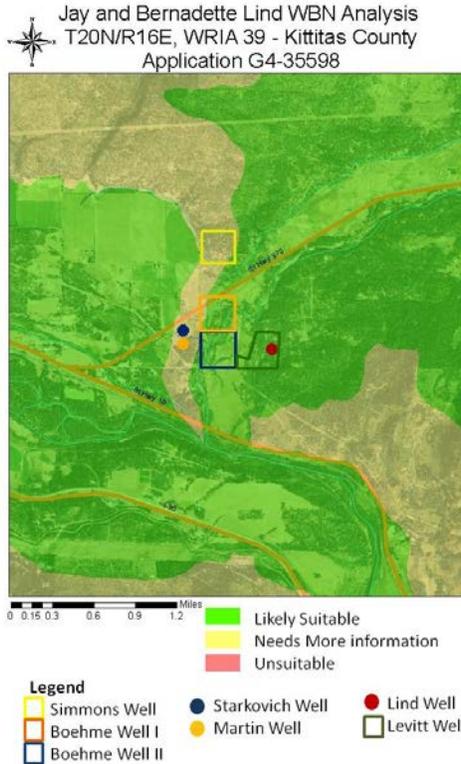
<p>CONSUMPTIVE USE CALCULATION:</p> <p>Indoor use: One residential connection at 350 gallons per day (gpd) used continuously year round equates to 0.392 afy of water use, or: $(350 \text{ gpd per connection}) \times (365 \text{ days}) \times (\text{one connection}) \times (1 \text{ ac-ft}/325,851 \text{ gal}) = 0.392 \text{ afy}$</p> <p>Consistent with WAC 173-539A-050(3), 30% of domestic in-house use on a septic system is consumptively used, therefore: Indoor consumptive use = $(0.392 \text{ afy}) \times (0.30) = \mathbf{0.118 \text{ afy}}$</p> <p>Outdoor use: The requestor proposes to irrigate 0 ft² 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 0.0 afy, or: $[(1.51 \text{ ft/yr}) \div 0.80] \times (0 \text{ ft}^2 \div 43560 \text{ ft}^2/\text{ac}) = 0.0 \text{ afy}$</p> <p>Consistent with WAC 173-539A-050(3), 90% of outdoor use is consumptively used, so: Outdoor consumptive use = $(0.0 \text{ afy}) \times (0.90) = \mathbf{0.0 \text{ afy}}$</p> <p>As a result consumptive use (CU) for the project totals to 0.118 afy (CU April 1 to Aug 31 is 0.049 ac-ft and CU Sept 1 to March 31 is 0.069 ac-ft)</p> <p>For detailed analysis of month-to-month uses see spreadsheet below.</p>

NARRATIVE DESCRIPTION OF PROJECT:

The requestor proposes to offset the 0.118 afy of consumptive use for the project (one residential connection and 0 ft² of lawn and garden) with 0.118 afy of mitigation water acquired from Trust Water Right No. CS4-01467@11sb3a. During the irrigation season, 0.064 ac-ft is assigned to the USBR-Ecology Exchange Contract (Contract No. 09XX101700) and released between September 15 and March 31 to address out-of-season impacts along the Yakima River. Additionally, to address out-of-season flow impacts to the Teanaway River, \$500 will be placed into an account to be used for one or more upstream or headwater riparian corridor projects.

Review of the local area hydrogeology suggests that the proposed groundwater withdrawals under G4-35598 may result in flow impacts to the lower Teanaway River and Yakima River. Copies of the Draft Hydrogeology Memo for the subject water budget neutral request are available upon request from Ecology. For a copy, please contact Danielle Jansik at (509) 575-2396, or daja461@ecy.wa.gov.

Location Map for G4-35598



Total and Consumptive use under G4-35598

In-Basin Consumptive Use Calculator for WBN form and Exchange Contract water: WRTS No. G4-35598 (Lind)						
WWT - Masterson CS4-01467@11sb3a(A)						
Assumptions for Irrigation:			Assumptions for Domestic:			
Assumed efficiency	0.8			total use per ERU	350	gpd
% CU for outdoor use	0.9 per WAC			total use per ERU	0.001074 af per day	
Square feet to irrigate	0			#ERU	1	
Acreage	0.000			% CU	0.3 for septic system	
Irrigation portion:			Indoor Domestic portion:			
	WIG (in/yr)	TIR per ac (AFY/ac)	TIR (afy)	CU (afy)	total use (AFY)	CU (AFY)
						Total CU (afy)
Jan	0.00				0.0333	0.0100
Feb	0.00				0.0301	0.0090
Mar	0.00				0.0333	0.0100
Apr	0.00				0.0322	0.0097
May	0.00				0.0333	0.0100
Jun	0.00	0.0000	0.000	0.000	0.0322	0.0097
Jul	0.00	0.0000	0.000	0.000	0.0333	0.0100
Aug	0.00	0.0000	0.000	0.000	0.0333	0.0100
Sept	0.00	0.0000	0.000	0.000	0.0322	0.0097
Oct	0.00				0.0333	0.0100
Nov	0.00				0.0322	0.0097
Dec	0.00				0.0333	0.0100
Total	18.11		0.000	0.000	0.392	0.118
Results:						
shaded cells= contract water						
For WBN form:						
Total CU		0.118 AFY				
Total use		0.392 AFY				
For Contract form:						
CU (April 1 to Sept 15)		0.054 AFY				
CU (Sept 16 to March 31)		0.063 AFY				
Contract water		0.063 AFY				
Contract period from September 16 - March 31						
Total to add to IF at Parker:		0.000 AFY				
Tributary TWR; see Exchange Contract Section 14(c)(1)						
Total to debit from TWR:		0.118 AFY				
(Total CU)						