

WATER TRANSFER WORKING GROUP PROJECT DESCRIPTION

APPLICATION NO./COURT CLAIM NO. Claim 01467(A)03296		
APPLICANT NAME Wilbur and Mary Ann Mundy	CONTACT NAME Kelly McCaffrey, Washington Water Trust	TELEPHONE NO. (206) 675-1585 x103 (206) 755-9146
WATER RIGHT HOLDER'S NAME (if different) Wilbur and Mary Ann Mundy		

DATE OF APPLICATION July 20, 2009	PRIORITY DATE June 30, 1883
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WATER SOURCE: Teanaway River	CROP: Mixed hay, timothy
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INSTANTANEOUS QUANTITY: 0.90 cfs for irrigation	ANNUAL QUANTITY: 120 acre feet
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PERIOD OF USE: May 1 – September 1

PLACE OF USE: That portion of the SE 1/4 SE 1/4 of Section 28 and the NE 1/4 NE 1/4 of Section 33, T. 20 N., R. 16 E.W.M. southwesterly of the Masterson Ditch See page 2 for map	PURPOSE OF USE: Irrigation on 45 acres
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IRRIGATION METHOD: Circle Pivot with end guns
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CONSUMPTIVE USE CALCULATION:

From August 15 to September 15, Mundy will not be irrigating 45 acres.

See Attachment A for calculations.

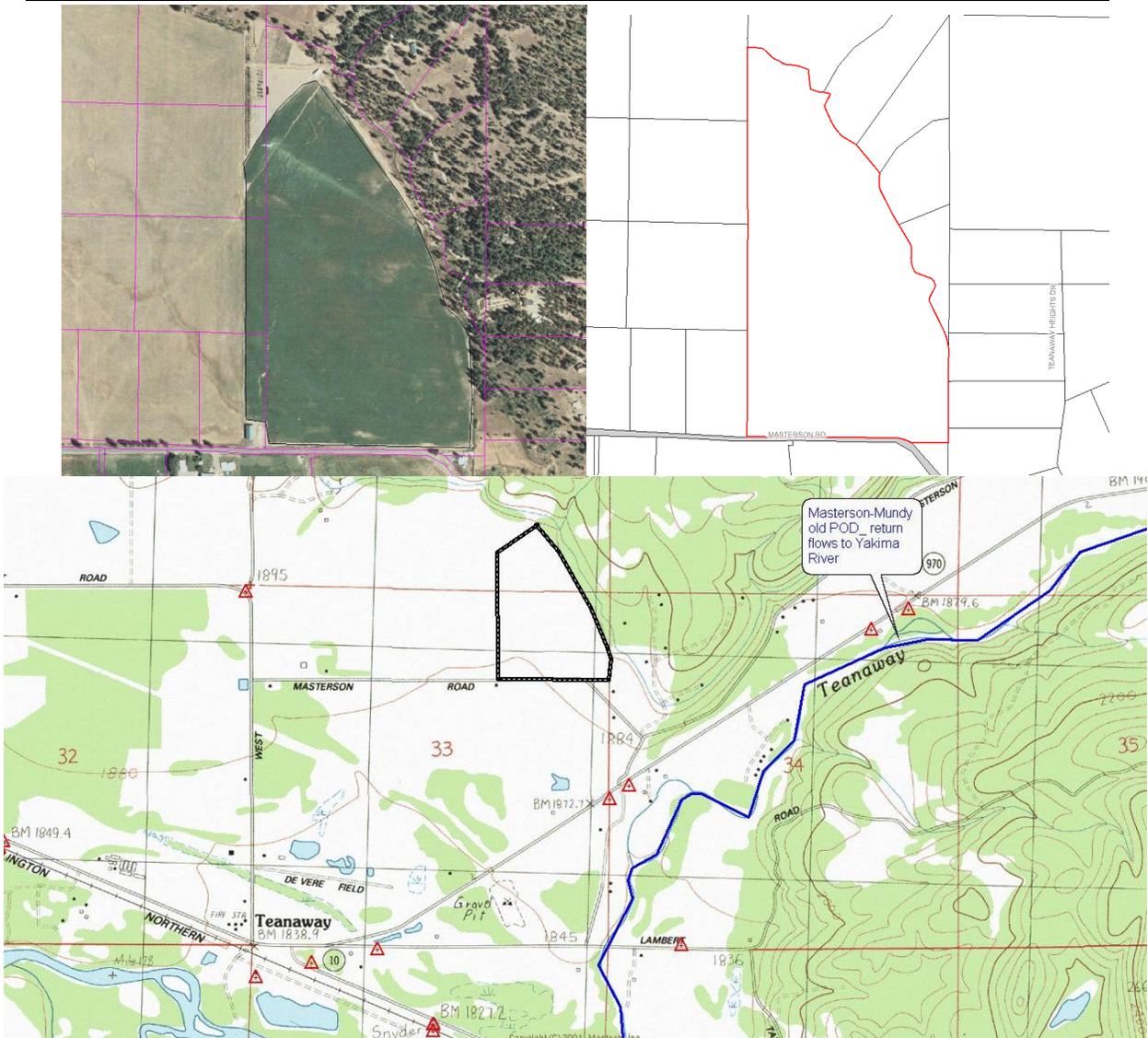
27.61 acre feet consumptive use from August 15 – September 15

August: 11.27 af CU

September: 16.34 af CU

NARRATIVE DESCRIPTION OF PROJECT:

Mundy was confirmed an 1883 priority date water right under court Claim 01467(A)03296 in Subbasin No. 3 (Teanaway). WWT is proposing a temporary transfer of the irrigation portion of the water right. The water is to be placed into the state Trust Water Rights Program for the 2009 season only. Our transfer application, on behalf of Masterson, proposes to change the purpose of use from irrigation to instream flow from August 15 to September 15 in 2009 only and change the place of use for use as instream flow in the Teanaway and Yakima Rivers to the confluence with the Columbia River.



Attachment A

TERMS: NIR (net irrig requirement), CIR (consumptive irrig require), TIR (total irrig requirement, or QA)

WaterRight for lease 45 acres AF 120 irrig	Month	NIR per WIG	# acres	AF in 2ndry (CU)	2ndry Galls	Both calc methods	
						CU cfs/mo	CU cfs/mo
	may	0	0				
	jun	0	0	0.00	0.00	0.00	0.00
	july	0.00	0	0.00	0.00	0.00	0.00
	15-Aug	2.53	45	9.49	69.25	0.15	0.15
	15-Sep	3.67	45	13.76	103.81	0.23	0.23
SubTotal of Consumptive use				23.25			

NOTE:
including all 30 Sept days; assume farmer applies full QA on 9/15 and crop transpires until 9/30

TIR: Incorporating efficiency into NIR and adding evaporative loss:

*Ea (application efficiency): 80% (DOE: 75-90% standard for center pivot with end guns)

*Evap (evaporative loss): 15%

* Evap is taken from Ecology Guidance 1210, Table 1 Consumptive Use Guidelines

**Soil attributes, USDA Web Soil Survey: Teanaway loam, 0-3% slope, 19.5% clay, 40.4% sand, 40% silt. Available water capacity rating 0.17in/in. Low AWC rating: 0-3in/in. Soils classified as "Group C" - slow infiltration rate when thoroughly wet; soils w/ layer that impedes downward movement of water or moderately fine texture or fine texture. Soils have a slow rate of water transmission. Material described as "Loess over glacial till or outwash with an influence of volcanic ash in the surface."

NIR:
Af-

Month	CU/yr	%Ea	%Evap	Total duty	Evap loss	QA or TIR	cfs/month
WR jun	0.00	80%	15%	0.00	0.00	0.00	0.00
jul	0.00	80%	15%	0.00	0.00	0.00	0.00
aug	9.49	80%	15%	11.86	1.78	11.27	0.18
15-Sep	13.76	80%	15%	17.20	2.58	16.34	0.27
					4.36	27.61	

((Af-CU/yr) / (%Ea)) (Total duty * %Evap) (NIR + Evap loss) (AF/(days * 1.985))