PUBLIC INTEREST REVIEW FOR GROUND WATER APPLICATIONS

TO:		Wate	r Rights Sec	tion				Date	December	8, 2009		
FROM	[:	Grou	nd Water/H	ydrology S	Section	Josh Ha	ackett					
SUBJE	ECT:	Appli	cation G	17281			ver's Name ersedes revi	iew of	Ε	Date of Revi	ew(s)	
OAR 6 welfare to deter	90-310-1 , <i>safety a</i> mine wh	130 (1) 7 and heal ether th	<i>th as describ</i> e presumptio	ent shall pr ed in ORS i n is establis	esume that 537.525. D shed. OAR	t a proposed Department s . 690-310-1	d groundwat staff review ; 40 allows the	ground wate e proposed ι	nsure the preser applications unuse be modified cies in place at	nder OAF or condit	R 690-310 ioned to	0-140 meet
A. GEN	NERAL I	NFORN	MATION: A	pplicant's l	Name:	Foo Yon C	hen		County: M	larion		
A1.	Applica	ant(s) se		cfs fr	·				verton			Basin,
A2. A3.	Propose Well ar	ed use: nd aquif	irriga er data (attac	tion ch and nun	nber logs i	Seaso	nality:	March 1 – C				
Well	Well#					Proposed Rate(cfs)	(T/F	Cocation R-S QQ-Q) V-22 NW-SW	2250' N,	, metes an 1200' E fr 250' E fr V	NW cor S	S 36
3	Tropose	Proposed well 1 alluvium 0.23			33/1 W	-22 IVW-5 W	330 3, 2	230 E II V	V 1/4 COI 5			
5												
* Alluvi	um, CRB	, Bedrocl	ζ.									
Well	Well Elev ft msl	First Water ft bls	SWL ft bls	SWL Date	Well Depth (ft)	Seal Interval (ft)	Casing Intervals (ft)	Liner Intervals (ft)	Perforations Or Screens (ft)	Well Yield (gpm)	Draw Down (ft)	Test Type
1	173		70 est.		±100	0-40 est.	0-100 est.		70-100 est.			
										<u> </u>		
Use data	ı from app	olication	for proposed w	ells.	<u> </u>							
A4.	Comm	ents:										
A5. 🛛		sions of	the	Willamette			Basin rule	es relative to	the developme	nt, classif	ication a	nd/or
			f ground waterules contain			ected to surf	face water	are, or 🗵	are not, activa	ted by thi	is applica	ition.
						ll produce f	rom a confin	ed aquifer, s	so the pertinent	basin rule	es do not	apply.
A6. 🗌	Name of	of admir	istrative area	ı:					r limited by an a	ıdministra	ntive restr	riction.

Version: 08/15/2003

<u>GRO</u>	UN	ND WATER AVAILABILITY CONSIDERATIONS, OAR 690-310-130, 400-010, 410-007	<u>0</u>						
. 1	Base	nsed upon available data, I have determined that ground water* for the proposed use:							
i	a.	is over appropriated, is not over appropriated, or is cannot be determined to be over appropriated of the proposed use. * This finding is limited to the ground water portion of the over-appropriation as prescribed in OAR 690-310-130;	opriated during any propriation						
1	b.	will not or will likely be available in the amounts requested without injury to prior water right is limited to the ground water portion of the injury determination as prescribed in OAR 690-310-	hts. * This finding 130;						
(c.	\square will not or \square will likely to be available within the capacity of the ground water resource; or							
(d.								
i	a.	Condition to allow ground water production from no deeper than ft. below i	land surface;						
i	b.	Condition to allow ground water production from no shallower than ft. below here.	land surface;						
(c.		ground						
(d.	 Well reconstruction is necessary to accomplish one or more of the above conditions. The proble to occur with this use and without reconstructing are cited below. Without reconstruction, I reco withholding issuance of the permit until evidence of well reconstruction is filed with the Departn by the Ground Water Section. Describe injury —as related to water availability—that is likely to occur without well reconstructio senior water rights, not within the capacity of the resource, etc): 	mmend nent and approved n (interference w/						
(Gro	round water availability remarks:							
1	surfa fine-	ne applicant's proposed well will be located in an area that contains mostly fine-grained alluvial sediment reface to a depth of approximately 70 feet. Approximately 80 feet of water-bearing sands and gravels is the grained alluvial sediments. A sequence of mostly fine grained alluvial sediments with thin sand and grand beneath the water-bearing sands and gravels to a depth of approximately 850 feet below land surface.	found beneath the gravel beds are						
3	Wat	ater levels in nearby wells show no obvious signs of declines (see attached hydrograph).							
-									
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Application: G- 17281 continued

Date: December 8, 2009

2

								with curfac	e water				2
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					ile from a surf								
					nected to the su	irface water	source. Inc	lude in this t	able an	y strea	ims located b	eyond one	e mi
that ar	e evalu	iated	for PS	61.									
						CW	CM		,	TT 1	1. 11	Potenti	ial fo
Well	SW		c	urfaca W	ater Name	GW Elev	SW Elev	Distance	1	Hydrau Conne		Subst. Ir	nterf
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Date: December 8, 2009

Confined

3

Unconfined

Application: G- 17281 continued

Well

C1. **690-09-040** (1): Evaluation of aquifer confinement:

C. GROUND WATER/SURFACE WATER CONSIDERATIONS, OAR 690-09-040

Aquifer or Proposed Aquifer

alluvial

C3b. **690-09-040 (4):** Evaluation of stream impacts by total appropriation for all wells determined or assumed to be hydraulically connected and less than 1 mile from a surface water source. Complete only if Q is distributed among wells. Otherwise same evaluation and limitations apply as in C3a above.

SW #	Qw > 5 cfs?	Instream Water Right ID	Instream Water Right Q (cfs)	Qw > 1% ISWR?	80% Natural Flow (cfs)	Qw > 1% of 80% Natural Flow?	Interference @ 30 days (%)	Potential for Subst. Interfer. Assumed?

Comments:

C4a. **690-09-040 (5):** Estimated impacts on **hydraulically connected surface water sources greater than one mile** as a percentage of the proposed pumping rate. Limit evaluation to the effects that will occur up to one year after pumping begins. This table encompasses the considerations required by 09-040 (5)(a), (b), (c) and (d), which are not included on this form. Use additional sheets if calculated flows from more than one WAB are required.

Non-Di	istributed V	Vells											
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
Interfer	ence CFS												
Distail	uted Wells												
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
,, en	5 ,, ,,,	%	%	%	%	%	%	%	%	%	%	%	%
Well O	as CFS	,,,		, ,	,,,		,,	,,		,,,	- , -	,,,	
	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well O	as CFS												
	ence CFS												
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q	as CFS												
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Interfer	rence CFS												
$(\mathbf{A}) = \mathbf{T}\mathbf{c}$	otal Interf.												
	% Nat. Q												
	% Nat. Q												
				<u> </u>									
$(\mathbf{D}) = (A$		√	√	√	√	√	√	√	√	✓	√	√	√
$(\mathbf{E}) = (\mathbf{A}$	(A / B) x 100	%	%	%	%	%	%	%	%	%	%	%	%

(A) = total interference as CFS; (B) = WAB calculated natural flow at 80% exceed. as CFS; (C) = 1% of calculated natural flow at 80% exceed. as CFS; (D) = highlight the checkmark for each month where (A) is greater than (C); (E) = total interference divided by 80% flow as percentage.

Racic	for	impact	eve	luation:
Dasis	1171	IIIIDacı	CVA	iuauwii.

lication: G- 17281 continued	Date: <u>December 8, 2009</u>
. 690-09-040 (5) (b) The potential to impair or detrimental Rights Section.	ly affect the public interest is to be determined by the Wat
☐ If properly conditioned , the surface water source(s) can be a under this permit can be regulated if it is found to substantiall; i. ☐ The permit should contain condition #(s)	y interfere with surface water:
ii. The permit should contain special condition(s) as	indicated in "Remarks" below;
SW / GW Remarks and Conditions:	
5 17 G 17 Remarks and Conditions.	
References Used:	
Gannett, Marshall W., and Caldwell, Rodney R., 1998, Geologic F and Washington: U. S. Geological Survey Professional Paper 142	
Conlon and others, 2005, Ground-water hydrology of the Willame	ette Basin, Oregon: U.S Geological Survey Scientific
Investigations Report 2005-5168.	

D1.	Well #:	Logid:
D2.		LL does not meet current well construction standards based upon:
		eview of the well log;
	0. 11	ield inspection by
	d. o	ther: (specify)
D3.		LL construction deficiency:
		onstitutes a health threat under Division 200 rules;
		ommingles water from more than one ground water reservoir;
	c. po	ermits the loss of artesian head;
		ermits the de-watering of one or more ground water reservoirs; ther: (specify)
	С	mer. (speeny)
D4.	THE WE	LL construction deficiency is described as follows:
D		
D5.	THE WE	a. was, or was not constructed according to the standards in effect at the time of original construction or most recent modification.
		b. I don't know if it met standards at the time of construction.
D6. [the Enforcement Section. I recommend withholding issuance of the permit until evidence of well reconstruction the Department and approved by the Enforcement Section and the Ground Water Section.
THIS	SECTION	TO BE COMPLETED BY ENFORCEMENT PERSONNEL
	_	
D'/. L	_ Well const	truction deficiency has been corrected by the following actions:
	-	
	-	
	-	
		, 200
	(H	Enforcement Section Signature), 200, 200

Application: G- 17281 continued

Date: December 8, 2009

6

Application: G- 17281 continued Date: December 8, 2009

Water Availability Tables

PUDDING R > MOLALLA R - AB MILL CR WILLAMETTE BASIN

Water Availability as of 12/8/2009

Exceedance Level:

Watershed ID #: 151

Date: 12/8/2009 Time: 1:16 PM

Water Availability Calculation

Monthly Streamflows in Cubic Feet per Second Storage at 50% Exceedance in Acre-Feet

Month	Natural Stream Flow	Consumptive Uses and Storages	Expected Stream Flow	Reserved Stream Flow	Instream Flow Requirement	Net Water Available
JAN	1,040.00	76.70	963.00	0.00	36.00	927.00
FEB	1,180.00	74.30	1,110.00	0.00	36.00	1,070.00
MAR	1,010.00	50.90	959.00	0.00	36.00	923.00
APR	787.00	46.40	741.00	0.00	36.00	705.00
MAY	425.00	56.50	368.00	0.00	36.00	332.00
JUN	224.00	76.50	148.00	0.00	36.00	112.00
JUL	109.00	117.00	-8.33	0.00	36.00	-44.30
AUG	71.00	97.50	-26.50	0.00	36.00	-62.50
SEP	67.30	58.50	8.83	0.00	36.00	-27.20
OCT	91.60	17.90	73.70	0.00	36.00	37.70
NOV	363.00	42.70	320.00	0.00	36.00	284.00
DEC	957.00	75.90	881.00	0.00	36.00	845.00

Detailed Report of Instream Flow Requirements

Instream Flow Requirements in Cubic Feet per Second

Application #	Status	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
MF151A	CERTIFICATE	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00
IS73532B	CERTIFICATE	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00
IS73533A	CERTIFICATE	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00
IS73534A	CERTIFICATE	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00	11.00
Maximum		36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00

Version: 08/15/2003

BUTTE CR > PUDDING R - AT MOUTH WILLAMETTE BASIN

Water Availability as of 12/8/2009

Watershed ID #: 69799

Date: 12/8/2009 Time: 1:18 PM

Exceedance Level: 80%

8

Water Availability Calculation

Monthly Streamflows in Cubic Feet per Second Storage at 50% Exceedance in Acre-Feet

Mont h	Natural Stream Flow	Consumptive Uses and Storages	Expected Stream Flow	Reserved Stream Flow	Instream Flow Requirement	Net Water Available
JAN	169.00	3.56	165.00	0.00	75.00	90.40
FEB	181.00	3.41	178.00	0.00	75.00	103.00
MAR	172.00	2.55	169.00	0.00	75.00	94.50
APR	142.00	2.13	140.00	0.00	75.00	64.90
MAY	89.20	5.38	83.80	0.00	75.00	8.82
JUN	39.00	9.99	29.00	0.00	75.00	-46.00
JUL	15.10	17.00	-1.90	0.00	25.00	-26.90
AUG	9.90	13.60	-3.66	0.00	12.00	-15.70
SEP	9.78	6.97	2.81	0.00	20.00	-17.20
OCT	15.10	1.00	14.10	0.00	75.00	-60.90
NOV	66.00	1.76	64.20	0.00	75.00	-10.80
DEC	170.00	3.70	166.00	0.00	75.00	91.30

Detailed Report of Instream Flow Requirements

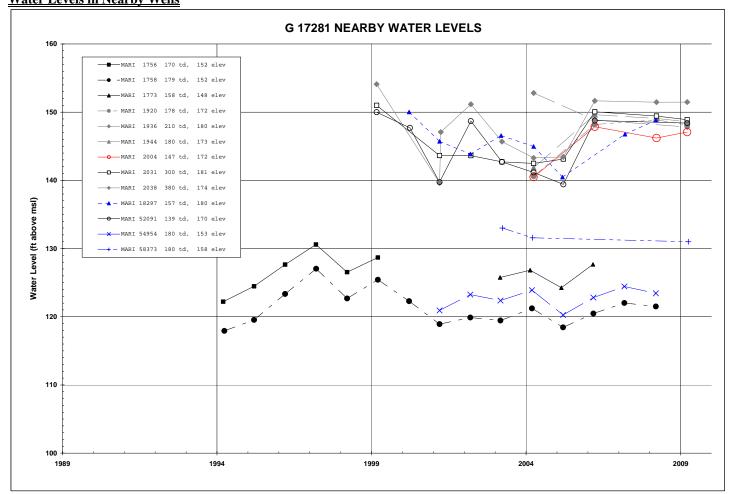
Instream Flow Requirements in Cubic Feet per Second

Application #	Status	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
IS69799A	CERTIFICATE	75.00	75.00	75.00	75.00	75.00	75.00	25.00	12.00	20.00	75.00	75.00	75.00
Maximum		75.00	75.00	75.00	75.00	75.00	75.00	25.00	12.00	20.00	75.00	75.00	75.00

Application: G- 17281 continued

Date: December 8, 2009

Water Levels in Nearby Wells



Date: December 8, 2009

Well Location Map

